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27 October 2016

Mr. Wayne Praskins
Remedial Project Manager
United States Environmental Protection Agency, Region IX
75 Hawthorne St. SFD-7-3
San Francisco, CA 94105

SUBJ: Monitoring Well Sampling Report
Rockets, Fireworks, and Flares Superfund Site
San Bernardino County, California

Dear Mr. Praskins,

In accordance with the Administrative Settlement Agreement and Order on Consent between the USEPA and Goodrich Corporation (Respondent) for Operable Units 2 and 3 of the Locust Avenue Superfund Site (now the Rockets, Fireworks and Flares Superfund Site), the 2016 Monitoring Well Sampling Report is enclosed.

Pease contact me at (561) 651-4147 if you have any questions or comments in this regard.

Sincerely,

D. A. Bilder, Jr.
Remediation Project Manager

Enclosure: Monitoring Well Sampling Report

C: Amig, B. – UTC
James, J. - EnSafe
Platt, D. – UTC
Towell, D. – CH2M HILL
Yeich, B. - UTC

MONITORING WELL SAMPLING REPORT

ROCKETS, FIREWORKS, AND FLARES SUPERFUND SITE
OPERABLE UNIT 2
SAN BERNARDINO COUNTY, CALIFORNIA

EnSafe Project Number:
0888818881

Prepared for:

United Technologies Corporation
United Technologies Building
Hartford, Connecticut 06101

Prepared by:

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October 2016

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October 2016

Reviewed by:

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JEFFREY JAMES
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STATE OF CALIFORNIA

Jeffrey James, PE
Principal

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List of Acronyms

µg/L	micrograms per liter
1,2-DCA	1,2-dichloroethane
MCLs	maximum contaminant levels
MP	multi-port
OU	Operable Unit
RCB	Rialto-Colton Basin
Site	Rockets, Fireworks, and Flares Superfund Site
TCE	trichloroethylene
U.S. EPA	United States Environmental Protection Agency
USGS	U.S. Geological Survey
VOC	volatile organic compound

1.0 INTRODUCTION

EnSafe Inc. has prepared this Monitoring Well Sampling Report to document groundwater investigation activities associated with the Operable Unit 2 (mid-basin groundwater; OU-2) of the Rockets, Fireworks, and Flares Superfund Site (Site) in San Bernardino County, California, conducted between July and October 2016. OU-2 addresses contaminated groundwater at the Site downgradient or southeast of the area addressed by Operable Unit 1 (OU-1). OU-1 addresses the groundwater contamination within the Target Area, which extends from the 160-acre source area (160-Acre Area) approximately 1.5 miles to the southeast. The 160-Acre Area is square-shaped and bounded by West Casa Grande Drive on the north, Locust Avenue on the east, Alder Avenue on the west, and an extension of Summit Avenue on the south. The upgradient boundary of the Target Area in the Intermediate Aquifer is near well CMW-3, the northernmost monitoring well on the 160-Acre Area where the level of groundwater contamination consistently exceeds maximum contaminant levels (MCLs). The downgradient boundary of the Target Area has been defined as the location where the Intermediate Aquifer is no longer present as a distinct water-bearing unit. The downgradient boundary is in the vicinity of the Interstate 210 freeway, approximately 1.5 miles to the southeast of the 160-Acre Area. OU-2 addresses groundwater further southeast.

This report documents the results of groundwater sampling and analyses. Results of the groundwater investigation support ongoing evaluation of contamination conditions and guide additional remedial investigation activities.

2.0 BACKGROUND INFORMATION

2.1 Hydrogeologic Setting

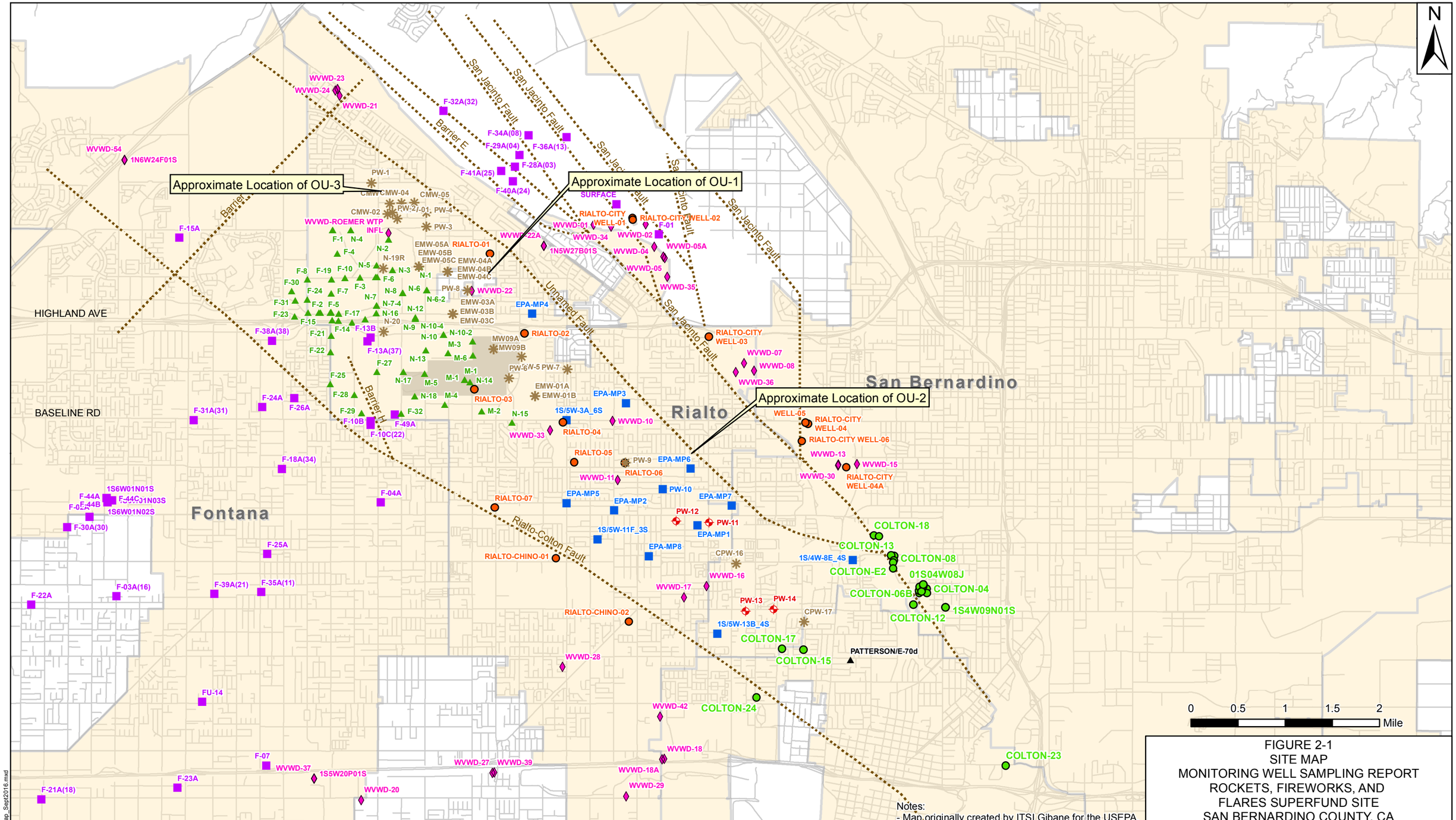
The following discussion of regional and local hydrogeology is based on three studies of the Rialto-Colton Basin (RCB) (Anderson et al. 2004; U.S. Geological Survey [USGS] 1997 and 2001), as well as reports prepared for recent investigations to determine the nature and extent of groundwater contamination. The RCB in which the Site is situated, is in western San Bernardino County, extending across the cities of Rialto, Fontana, and San Bernardino. The basin was chosen for storage of imported water because of the good quality of native groundwater, the known capacity for additional groundwater storage, and the availability of imported water. Because the movement and mixing of imported water was of interest, the San Bernardino Valley Municipal Water District entered into a cooperative program with the USGS in 1991 to study the geohydrology and water chemistry in the RCB. Consequently, much information is available from published studies and the large number of groundwater monitoring and municipal wells regarding the stratigraphy and structure of the basin, and the occurrence and movement of groundwater. Figure 2-1 shows the Site and many of the wells in the RCB and those wells referenced in this report.

Regional Hydrogeology

The RCB is an elongated northwest-southeast trending alluvial basin located southwest of the San Bernardino Mountains (Figure 2-2). The basin is approximately 10 miles long. The width of the basin ranges from 3.5 miles wide in the northwest to 1.5 miles in the southeast. The deepest portion of the basin is the northeastern area between the San Jacinto Fault Zone and a parallel-unnamed fault; the total sediment thickness in this area ranges between 0.5 and 1 miles. The remainder of the RCB is approximately 500 to 1,000 feet thick.

Stratigraphy

The unconsolidated alluvial material that fills the RCB consists of sand, gravel, and boulders interbedded with lenticular deposits of silt and clay. The unconsolidated alluvium is underlain by partly consolidated continental deposits formed as lenticular bodies consisting of somewhat compacted gravel, sand, silt, and clay. These continental deposits outcrop in the Badlands, a series of hills which form the southeastern boundary of the basin, and outcrop at the base of the San Gabriel Mountains, which form the northeastern boundary of the basin. The consolidated continental deposits consist primarily of clay that contains lenses of compacted, cemented sand. These deposits underlie the partly consolidated alluvial deposits. River-channel deposits underlie the present channels of Warm Creek and the Santa Ana River in the southeastern part of the basin.



Notes:
- Map originally created by ITSI Gibane for the USEPA.

FIGURE 2-1
SITE MAP
MONITORING WELL SAMPLING REPORT
ROCKETS, FIREWORKS, AND
FLARES SUPERFUND SITE
SAN BERNARDINO COUNTY, CA

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- 160-Acre Parcel Plume MW Downgradient
- City of Colton Production Well
- City of Rialto Production Well
- Other - inactive
- Existing Monitoring Well
- Recently Added Monitoring Well
- San Bernardinao County MVSL Wells
- San Gabriel Valley WC - Fontana
- West Valley Water District
- Fault Lines
- City Limits
- Airport
- Road

Basemap Source: Bing Maps Hybrid (c) 2010 Microsoft Corporation and its data suppliers

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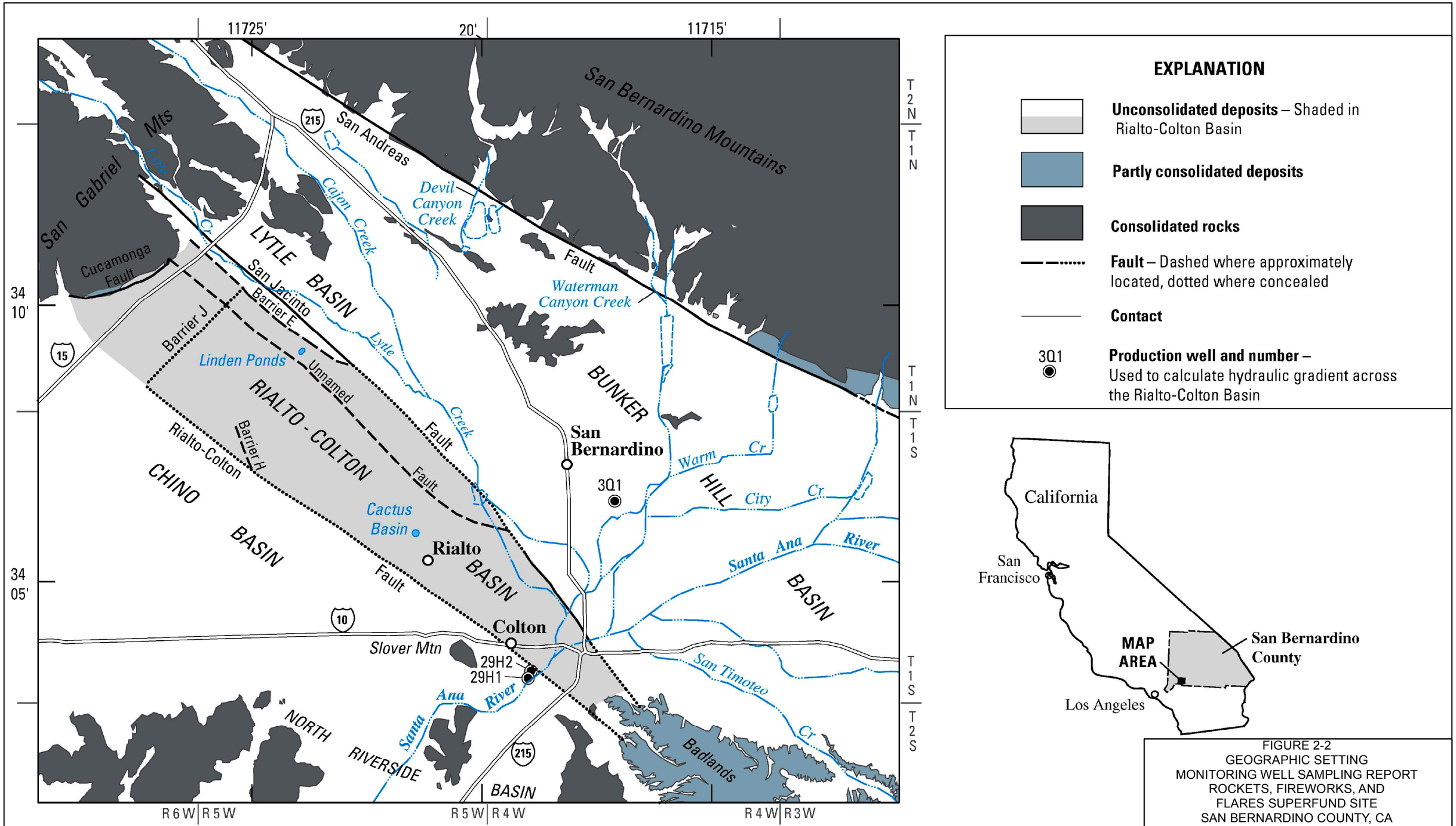

Base from U.S. Geological Survey
1:100,000 San Bernardino, 1982

Original Map Source: Numerical Simulation of Ground-Water Flow and Assessment of the Effects of Artificial Recharge in the Rialto-Colton Basin, San Bernardino County, California. Water-Resources Investigations Report 00-4243, United States Geological Survey, p. 4.

FIGURE 2-2
GEOGRAPHIC SETTING
MONITORING WELL SAMPLING REPORT
ROCKETS, FIREWORKS, AND
FLARES SUPERFUND SITE
SAN BERNARDINO COUNTY, CA

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DATE: 9/23/2016	
PROJECT NO: 0888818881	

Document Path: X:\UTC\Rialto_CA\Fig2-2_GeoSetting_Sept2016.mxd

These deposits consist of coarse sand and gravel interbedded with lower permeability deposits of medium to fine sand and clay. The thickness of the river-channel deposits ranges from about 150 feet to about 200 feet. The alluvial and consolidated continental deposits are underlain by the basement complex consisting of metamorphic and igneous rocks, which outcrop out in the San Gabriel Mountains.

Groundwater Occurrence

The groundwater system in the RCB is divided into the following four water-bearing units:

- River-channel deposits
- Upper, middle, and lower water-bearing units

The river-channel deposits consist of coarse sand and gravel interbedded with lower permeability deposits of medium to fine sand and clay. The thickness of the river-channel deposits ranges from about 150 feet to about 200 feet in the southern portion of the RCB.

The upper water-bearing unit is present throughout the RCB. The unit consists of alluvial fan deposits that grade into older river-channel deposits near the Santa Ana River and Warm Creek. The upper water-bearing unit underlies the river-channel deposits and is the uppermost unit throughout the rest of the basin. The alluvial fan deposits consist of coarse sand and gravel, cobbles, and boulders. In some areas, the upper water-bearing unit contains clay lenses. The upper water-bearing unit ranges in thickness from about 120 feet to about 300 feet. It is unsaturated throughout most of the basin except for the southeast portion near the Santa Ana River and Warm Creek. The unit is highly permeable and freely allows infiltration to the underlying units.

The middle water-bearing unit is present throughout the basin and primarily consists of coarse- to medium-grained sand and interbedded fine sand and clay. The deposits of the middle water-bearing unit are finer in the southeastern portion of the basin. The clay beds are more extensive in the northwestern part of the basin near the Rialto-Colton Fault. The middle water-bearing unit ranges in thickness from about 240 feet to about 600 feet, and is the thickest in the northwestern portion of the basin, south of the Barrier J fault.

The extensive lower water-bearing unit consists mainly of interbedded sand and clay. The thickness of this unit ranges from about 100 feet in the southeastern part of the basin to about 400 feet in other parts of the basin. Consolidated deposits with a very low permeability underlie the lower water-bearing unit and form an aquitard as the lower boundary of the groundwater system.

Some or all of these water-bearing units contain more than one stratigraphic unit. A review of lithologic logs indicates that subsurface materials are largely heterogeneous alluvium and consist of varying thicknesses of interbedded gravel, sand, silt, and clay. In the RCB, the water-bearing units are generally unconfined to partly confined, and are in hydraulic connection with one another. However, in the key area of interest for this Site (at and downgradient of the 160-Acre Area), there is an aquitard present locally that limits direct hydraulic communication into the deeper aquifers.

In the local area around the 160-Acre Area, the Upper Aquifer is currently dry. The Intermediate Aquifer (also known as the B Aquifer), first encountered at a depth of approximately 400 to 450 feet below ground surface, is approximately 100 feet thick beneath the 160-Acre Area and thins to the southeast. The Intermediate Aquifer is variably saturated and perched on top of a laterally extensive aquitard (termed the BC Aquitard) that separates the Intermediate Aquifer from the deeper Regional Aquifer (also known as the C Aquifer). As observed during installation of the "PW" series monitoring wells at and around the 160-Acre Area, the Intermediate or B Aquifer is comprised of a number of thin water-bearing units separated by thin aquitards and dry intervals. Beneath the 160-Acre Area, potentiometric head differences between the Intermediate Aquifer and Regional Aquifer are as great as 150 feet, resulting in a downward hydraulic gradient between the two aquifers, albeit separated by the extensive BC Aquitard.

Based on geophysical logs and groundwater level data collected by GeoLogic (GeoLogic 2005) as part of their characterization of conditions in the vicinity of the Rialto-3 well, it appears that the BC Aquitard thins or is absent to the southeast, at a point just upgradient of monitoring well M-3. Downgradient of well M-3, the Intermediate and Regional Aquifers are indistinguishable (based on groundwater elevation data) and have effectively merged. Downgradient of the 160-Acre Area, it appears that the extent of the BC Aquitard to the southeast ends between EPA multi-port (MP) well MP-4 and the Rialto-2 well.

Groundwater Movement and Recharge

Groundwater generally moves from east to west in the river-channel deposits and upper water-bearing unit in the southeast part of the basin, and from northwest to southeast in the middle and lower water-bearing units. Groundwater flow in the RCB is strongly influenced by the presence of several faults that act as partial barriers to groundwater flow. The San Jacinto and Rialto-Colton Faults comprise the northeastern and southwestern boundaries of the basin, respectively. Barrier J and the unnamed fault, affect groundwater movement in the interior of the basin. Barrier J effectively impedes groundwater movement in most of the older alluvium but not in the overlying younger alluvium (USGS 1997). Water levels in wells located north of Barrier J are not affected by production well pumping stresses on the groundwater system south of Barrier J, indicating that these two parts of the groundwater system are not well connected. Barrier E forms the northwestern portion of the northeastern boundary of the RCB. The northwest-trending unnamed fault is present in the northeast portion of the RCB. The unnamed fault has a significant effect on groundwater flow and acts as a barrier that essentially creates a separate sub-basin to the northeast of the unnamed fault within the RCB. Groundwater chemistry and elevation are substantially different on either side (east and west) of the unnamed fault. Barrier H is another northwest-trending barrier located west of the Rialto-Colton Airport and south of the Mid-Valley Sanitary Landfill. Barrier H extends from the intersection of Baseline Road to the Rialto-Colton Fault. Barrier H may be associated with the Rialto-Colton Fault and likely obstructs groundwater flow.

Sources of recharge to the groundwater system are: underflow/subsurface inflow, seepage loss from the Santa Ana River and Warm Creek, and infiltration of rainfall and irrigation return flow. The primary component of discharge from the groundwater system is pumping of production wells by water purveyors. Reportedly, other discharges include underflow across the Rialto-Colton Fault (south of the Colton 24 well) to the Chino Basin and seepage to the Santa Ana River and Warm Creek during wet years when the water levels in the upper water-bearing unit and the river-channel deposits rise above the base of the streambed.

Long-term water levels in production wells reflect recharge cycles. Historical measurements indicate that groundwater elevations in the RCB have varied significantly in response to extended periods of drought and municipal and agricultural pumping. Extended drought conditions in the region and operation of new municipal supply wells in the basin have resulted in pronounced reductions in groundwater levels within the RCB, with levels declining steadily from 2001 to 2009.

The RCB yield has not been formally determined in any legal documents. However, USGS studies (USGS 1997 and USGS 2001) suggest that from the early 1950s through late 1990s the RCB yielded no more than about 9,000 to 10,000 acre-feet per year, on average. Recent pumping in the portion of the RCB upgradient (northwest) of Colton Avenue has approached 18,000 acre-feet per year.

3.0 GROUNDWATER ELEVATION MEASUREMENT AND SAMPLING

In July 2016, groundwater elevation measurements and samples were collected from the following surrounding OU-2 wells:

1S/4W-8E*	1S/5W-3A*	1S/5W-11F*	1S/5W-13B*	EPA-MP2
EPA-MP3	EPA-MP5	EPA-MP6	EPA-MP7	EPA-MP8
PW-9	PW-10	PW-11	PW-12	PW-13
PW-14	CPW-16	CPW-17		

** — Indicates a well cluster*

An obstruction located within the casing of EPA-MP1 prevented the collection of groundwater elevation data and samples in July 2016. A survey with a miniature ¾-inch downhole camera was conducted on October 4, 2016 to evaluate the nature of the obstruction and options for removal. The obstruction was successfully dislodged and groundwater elevation data and samples were collected from EPA-MP1 on October 5, 2016.

3.1 Groundwater Elevation Measurements

Wells within the OU-2 monitoring network are either conventional monitoring wells or MP wells featuring several isolated screened intervals and are shown in Figure 3-1. Groundwater elevation measurements for conventional wells were determined by measuring the depth to water within the well casing from a reference elevation using a conventional water level meter. Groundwater elevation, or total hydraulic head, within these wells was determined by taking the difference between the reference elevation and measured depth to water. Groundwater elevation measurements for Westbay wells were determined for each screened interval within the well using pressure data specific for each interval. Using the Westbay sampling and profiling tool, water pressure measurements were collected from outside the well casing at the desired sampling location. By determining the pressure difference between the outer well casing pressure and atmospheric pressure, the height of the water column above the sampling port depth can be calculated. Subtracting the water column height from the sampling location depth gives an interval-specific groundwater elevation.

3.2 Groundwater Sampling

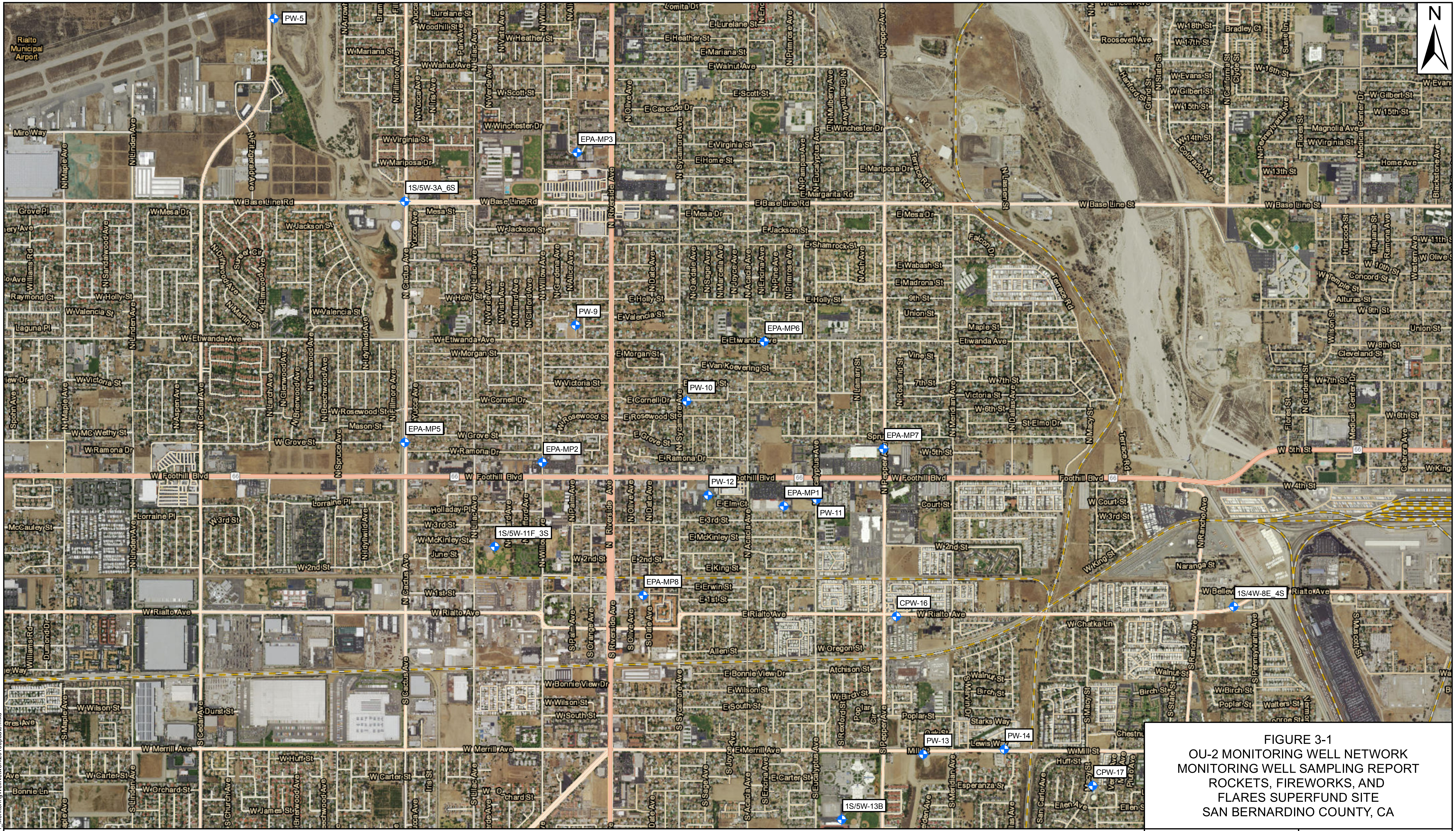
3.2.1 Conventional Well Sample Collection

Conventional wells (1S/4W-8E1S, 1S/4W-8E2S, 1S/4W-8E3S, 1S/4W-8E4S, 1S/5W-3A5S, 1S/5W-3A6S, 1S/5W-3A7S, 1S/5W-11F1S, 1S/5W-11F3S, 1S/5W-11F4S, 1S/5W-13B2S, 1S/5W-13B3S, 1S/5W-13B4S, and 1S/5W-13B5S) were sampled using the HydraSleeve sampling method. Standard Operating Procedures for conducting HydraSleeve sampling are presented in Appendix A.

3.2.2 MP Well Sample Collection

The remaining OU-2 monitoring wells are MP wells and groundwater samples were collected from each discrete screened interval for each well. Employing standard operating and quality control procedures, the Westbay sampling tool was lowered to the desired screened interval and activated at the surface to sit against and open the sampling port. Once the sampling vessel had filled, the port was closed and the sampling tool was brought to the surface. The sampling tool used during these events contained four, 250-milliliter, stainless steel cylinders. The contents of these cylinders were then used to measure groundwater parameters and fill the necessary sample containers to be sent to the analytical laboratory. Standard Operating Procedures for conducting MP well sampling are presented in Appendix A.

Field parameters, including temperature, conductivity, pH, and turbidity, were measured from the first sample collected from each sampling interval. These parameters were recorded on Field Data Log Sheets, which are presented as Appendix B. Subsequent samples were collected from the same interval and sent to the laboratory for volatile organic compound (VOC) and perchlorate analyses. For samples to be analyzed for VOCs, laboratory-supplied Volatile Organic Analysis vials were filled by allowing water to flow through a small-aperture valve located at the bottom of one of the 250-milliliter sampling cylinders. The flow rate between the sampling cylinder and the Volatile Organic Analysis was adjusted to mimic low-flow groundwater sampling, thus decreasing the possibility of volatilization to the atmosphere. Perchlorate sampling containers were then filled in a similar manner. Groundwater samples were collected from each interval until all required sampling containers were filled, and this procedure was repeated for each screened interval in each well. Samples were labeled, placed in a cooler, and chilled to less than 6 degrees centigrade immediately after collection and during shipment to the laboratory. All samples were picked up from the sampling area by the laboratory's courier and delivered to the analytical laboratory for analyses. All sampling and analyses were performed in accordance with the approved Remedial Investigation/Feasibility Study Work Plan.



Legend

Existing Monitoring Wells

0 0.25 0.5 0.75 1 Mile

FIGURE 3-1
OU-2 MONITORING WELL NETWORK
MONITORING WELL SAMPLING REPORT
ROCKETS, FIREWORKS, AND
FLARES SUPERFUND SITE
SAN BERNARDINO COUNTY, CA

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Basemap Source: Bing Maps Hybrid (c) 2010 Microsoft Corporation and its data suppliers

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3.3 Laboratory Analytical Methods

Groundwater samples, field duplicates, equipment blanks and trip blanks collected in July 2016 were analyzed by Accutest Laboratories, Northern California (California Certification Number: 08258CA) for VOCs via method SW846 8260B and perchlorate via method United States Environmental Protection Agency (U.S. EPA) Method 314.0. Laboratory analytical reports including chain-of-custody forms are included in Appendix C.

Sample EPA-MP1, collected in October 2016, was analyzed by Eurofins, Calscience (California Certification Number: 2944) for VOCs via method SW846 8260B and perchlorate via method U.S. EPA Method 314.0. The initial perchlorate results obtained via Method 314.0 were inconsistent with past results. The laboratory subsequently reanalyzed the samples using the more definitive U.S. EPA Method 6850. Results presented subsequently in this report for well EPA-MP1 are those obtained using Method 6850.

4.0 GROUNDWATER ELEVATIONS MEASUREMENTS AND SAMPLING RESULTS

4.1 Groundwater Elevation Measurement Results

Groundwater elevation measurements collected during the 2016 sampling events are included in Table 4-1. A potentiometric surface map was created for the July/October 2016 gaging event, and is included as Figure 4-1. Groundwater generally flows from the northwest to the southeast within OU-2, moving approximately parallel to the Rialto-Colton and San Jacinto Faults. At the southeast portion of OU-2 near CPW-17, groundwater flow direction appears to shift from northwest-southeast to south. Groundwater gradients within OU-2 are variable, with an approximate average gradient of 0.006 feet per foot.

4.2 Groundwater Sampling Results

The analytical results for the 2016 groundwater sampling events are summarized in Table 4-2. Results of the sampling event are summarized below.

July and October 2016

Of the 29 wells included in the July and October 2016 sampling event, only the following 3 wells contained concentrations of trichloroethylene (TCE) above the California MCL of 5 micrograms per liter (µg/L):

- PW-9 (482′ interval) — 12.7 µg/L
- PW-10 (460′ interval) — 13.1 µg/L
- 1S/5W-3A6S — 17.6 µg/L

Of the 29 wells included in the July and October 2016 sampling event, only the following 13 wells contained concentrations of perchlorate above the California MCL of 6 µg/L:

- EPA-MP1 (366′ and 462′ intervals) — 7.7 µg/L and 8.7 µg/L respectively
- EPA-MP2 (410′ interval) — 9.2 µg/L
- EPA-MP3 (457′ interval) — 12.4 µg/L
- EPA-MP6 (355′ interval) — 27.7 µg/L
- EPA-MP7 (357′ interval) — 6.9 µg/L
- PW-9 (482′ and 562′intervals) — 555 µg/L and 29.2 µg/L respectively
- PW-10 (360′ and 460′ intervals) — 9.2 µg/L and 339 µg/L respectively
- PW-11 (355′ and 450′ intervals) — 22.3 µg/L and 18.2 µg/L respectively
- PW-12 (395′ interval) — 7.3 µg/L
- PW-13 (340′ and 395′ intervals) — 8.5 µg/L and 6.2 µg/L respectively
- PW-14 (300′, 365′, and 425′ intervals) — 7 µg/L, 18.5 µg/L, 45.5 µg/L respectively
- 1S/5W-3A6S — 248 µg/L
- CPW-16 (295′, 378′, and 417′ intervals) — 19.9 µg/L, 87.8 µg/L, and 134 µg/L respectively

Other VOCs that were detected during the July and October 2016 sampling event and their maximum concentrations include:

- 1,2-dichloroethane (1,2-DCA) — 0.58 µg/L (1S/4W-8E2S)
- chloroform — 0.41 J µg/L (EPA-MP5)
- isopropanol — 110 J µg/L (EPA-MP1)
- tetrachloroethene — 2.5 µg/L (1S/5W-3A6S)
- toluene — 1.5 µg/L (PW-12)

With the exception of 1,2-DCA in 1S/4W-8E2S, these chemicals were not detected at concentrations above their respective California MCL's. None of the MP wells sampled by EnSafe in 2016 contained detectable levels of 1,2-DCA. In 2015, 1S/4W-8E2S was sampled from both double check valve bailers and HydraSleeves to evaluate potential bias resulting from sampling methodology. No obvious bias with regard to 1,2-DCA concentrations was observed between the two sample methods.

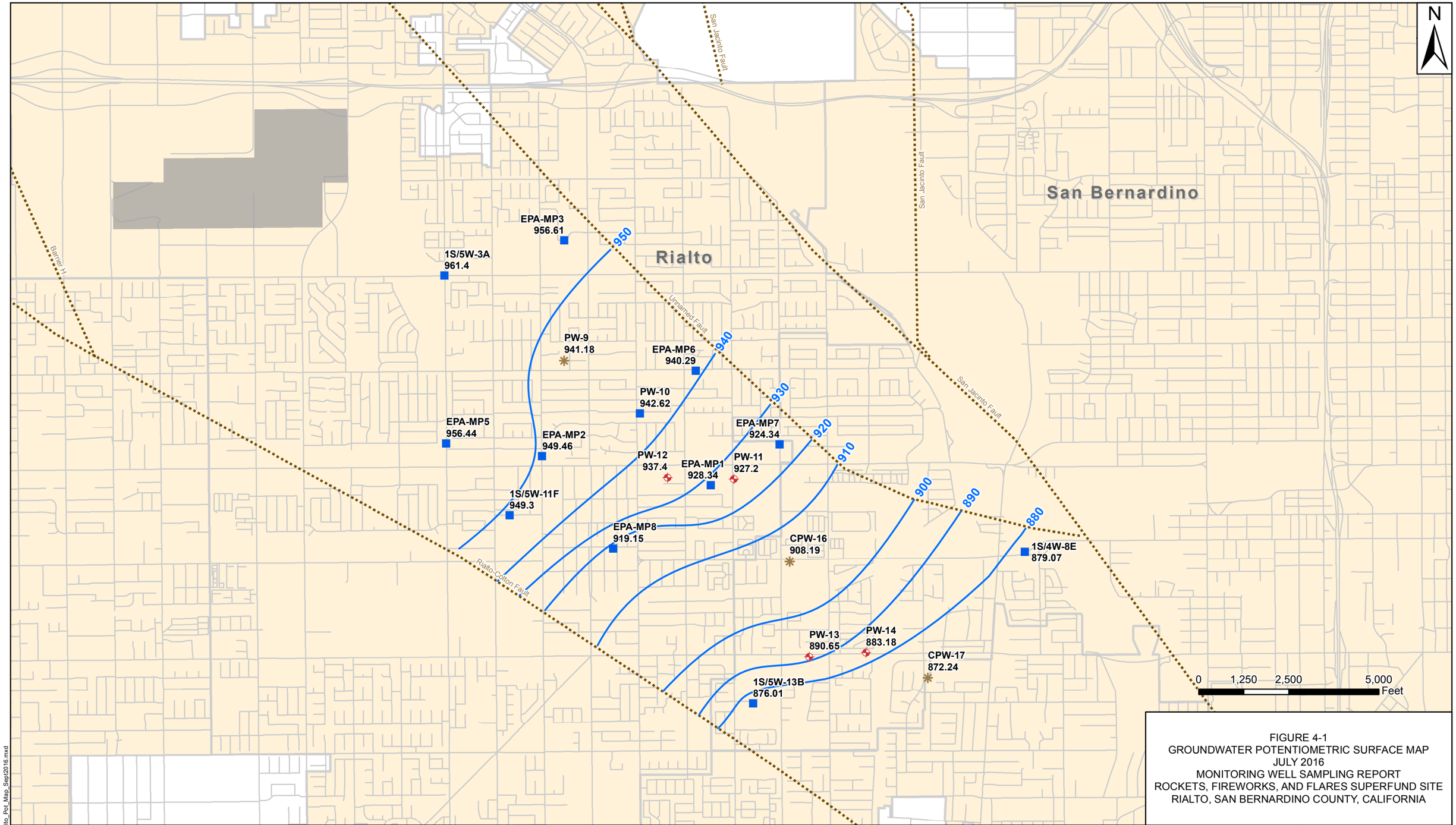

FIGURE 4-1
GROUNDWATER POTENTIOMETRIC SURFACE MAP
JULY 2016
MONITORING WELL SAMPLING REPORT
ROCKETS, FIREWORKS, AND FLARES SUPERFUND SITE
RIALTO, SAN BERNARDINO COUNTY, CALIFORNIA

160-Acre Parcel Plume MW Downgradient
Existing Monitoring Well
Recently Added
Potentiometric Surface Contour
Fault Lines
Airport
Roads
City Limits

Note:
- "C" intervals were used for Westbay wells and screen intervals of similar elevations were used for clustered wells
- Groundwater elevation data for EPA-MP1 collected on October 5, 2016

REQUESTED BY: S. WINTER
DRAWN BY: C. MUNDAY
DATE: 9/23/2016
PROJECT NO: 0888818881

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Table 4-1
2016 Groundwater Elevation Measurements
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

Wells	Date	Screen Designation	Well Screen Interval (ft bgs)	Depth to Water (ft bmp)	Water Elev. (ft amsl)	Measuring Point Elevation (ft amsl)	Approximate Ground Surface Elevation (ft amsl)
1S/4W-8E	8/12/2014	1S	970-990	225.46	884.54	1,110.00	1,110.00
	8/3/2015	1S	970-990	226.43	883.57	1,110.00	1,110.00
	7/27/2016	1S	970-990	227.62	882.38	1,110.00	1,110.00
	8/12/2014	2S	750-770	225.79	884.21	1,110.00	1,110.00
	8/3/2015	2S	750-770	226.83	883.17	1,110.00	1,110.00
	7/27/2016	2S	750-770	227.96	882.04	1,110.00	1,110.00
	8/12/2014	3S	577-597	226.13	883.87	1,110.00	1,110.00
	8/3/2015	3S	577-597	227.21	882.79	1,110.00	1,110.00
	7/27/2016	3S	577-597	228.29	881.71	1,110.00	1,110.00
	8/12/2014	4S	310-330	229.00	881	1,110.00	1,110.00
	8/3/2015	4S	310-330	229.88	880.12	1,110.00	1,110.00
	7/27/2016	4S	310-330	230.93	879.07	1,110.00	1,110.00
1S/5W-3A	8/12/2014	5S	660-680	398.33	959.67	1,358.00	1,358.00
	8/5/2015	5S	660-680	398.06	959.94	1,358.00	1,358.00
	7/28/2016	5S	660-680	396.70	961.3	1,358.00	1,358.00
	8/12/2014	6S	500-520	398.51	959.49	1,358.00	1,358.00
	8/5/2015	6S	500-520	398.36	959.64	1,358.00	1,358.00
	7/28/2016	6S	500-520	396.60	961.4	1,358.00	1,358.00
	8/12/2014	7S	400-420	398.58	959.42	1,358.00	1,358.00
	8/5/2015	7S	400-420	398.45	959.55	1,358.00	1,358.00
	7/29/2016	7S	400-420	396.44	961.56	1,358.00	1,358.00
1S/5W-11F	8/12/2014	1S	930-950	310.11	933.89	1,244.00	1,244.00
	8/3/2015	1S	930-950	317.82	926.18	1,244.00	1,244.00
	7/28/2016	1S	930-950	314.68	929.32	1,244.00	1,244.00
	8/12/2014	3S	422-442	295.01	948.99	1,244.00	1,244.00
	8/3/2015	3S	422-442	294.49	949.51	1,244.00	1,244.00
	7/28/2016	3S	422-442	294.70	949.3	1,244.00	1,244.00
	8/12/2014	4S	310-330	295.18	948.82	1,244.00	1,244.00
	8/3/2015	4S	310-330	294.63	949.37	1,244.00	1,244.00
	7/28/2016	4S	310-330	294.80	949.2	1,244.00	1,244.00
1S/5W-13B	8/12/2014	2S	675-695	272.77	887.23	1,160.00	1,160.00
	8/3/2015	2S	675-695	271.95	888.05	1,160.00	1,160.00
	7/27/2016	2S	675-695	272.01	887.99	1,160.00	1,160.00
	8/12/2014	3S	540-560	285.16	874.84	1,160.00	1,160.00
	8/3/2015	3S	540-560	284.49	875.51	1,160.00	1,160.00
	7/27/2016	3S	540-560	285.01	874.99	1,160.00	1,160.00
	8/12/2014	4S	420-440	284.04	875.96	1,160.00	1,160.00
	8/3/2015	4S	420-440	283.80	876.2	1,160.00	1,160.00
	7/27/2016	4S	420-440	283.99	876.01	1,160.00	1,160.00
	8/12/2014	5S	270-290	275.66	884.34	1,160.00	1,160.00
	11/19/2014	5S	270-290	275.42	884.58	1,160.00	1,160.00
	8/3/2015	5S	270-290	275.53	884.47	1,160.00	1,160.00
	7/27/2016	5S	270-290	275.59	884.41	1,160.00	1,160.00
CPW-16	8/21/2014	A	292-302	271.61	909.37	1,180.98	1,181.44
	11/19/2014	A	292-302	271.88	909.1	1,180.98	1,181.44
	7/30/2015	A	292-302	271.61	909.37	1,180.98	1,181.44
	7/13/2016	A	292-302	271.31	909.67	1,180.98	1,181.44
	8/21/2014	B	375-385	272.41	908.57	1,180.98	1,181.44
	11/19/2014	B	375-385	272.59	908.39	1,180.98	1,181.44
	7/30/2015	B	375-385	272.41	908.57	1,180.98	1,181.44
	7/13/2016	B	375-385	272.29	908.69	1,180.98	1,181.44
	8/21/2014	C	414-424	273.11	907.87	1,180.98	1,181.44
	11/19/2014	C	414-424	273.16	907.82	1,180.98	1,181.44
	7/30/2015	C	414-424	273.00	907.98	1,180.98	1,181.44
	7/13/2016	C	414-424	272.79	908.19	1,180.98	1,181.44
	8/21/2014	D	510-520	273.88	907.1	1,180.98	1,181.44
	11/19/2014	D	510-520	273.86	907.12	1,180.98	1,181.44
	7/30/2015	D	510-520	273.65	907.33	1,180.98	1,181.44
	7/13/2016	D	510-520	275.46	905.52	1,180.98	1,181.44
	8/21/2014	E	635-645	274.19	906.79	1,180.98	1,181.44
	11/19/2014	E	635-645	273.70	907.28	1,180.98	1,181.44
	7/30/2015	E	635-645	273.42	907.56	1,180.98	1,181.44
	7/13/2016	E	635-645	271.53	909.45	1,180.98	1,181.44
	8/21/2014	F	715-725	276.97	904.01	1,180.98	1,181.44
	11/19/2014	F	715-725	276.19	904.79	1,180.98	1,181.44
	7/30/2015	F	715-725	275.84	905.14	1,180.98	1,181.44
	7/13/2016	F	715-725	272.43	908.55	1,180.98	1,181.44
	8/21/2014	G	750-760	276.49	904.49	1,180.98	1,181.44

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2016 Groundwater Elevation Measurements
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

Wells	Date	Screen Designation	Well Screen Interval (ft bgs)	Depth to Water (ft bmp)	Water Elev. (ft amsl)	Measuring Point Elevation (ft amsl)	Approximate Ground Surface Elevation (ft amsl)
	11/19/2014	G	750-760	275.64	905.34	1,180.98	1,181.44
	7/30/2015	G	750-760	275.36	905.62	1,180.98	1,181.44
	7/13/2016	G	750-760	272.11	908.87	1,180.98	1,181.44
CPW-17	8/13/2014	A	240-250	242.82	892.26	1,135.08	1,135.98
	8/4/2015	A	240-250	242.65	892.43	1,135.08	1,135.98
	7/13/2016	A	240-250	242.45	892.63	1,135.08	1,135.98
	8/13/2014	B	310-320	262.11	872.97	1,135.08	1,135.98
	8/4/2015	B	310-320	262.64	872.44	1,135.08	1,135.98
	7/13/2016	B	310-320	263.42	871.66	1,135.08	1,135.98
	8/13/2014	C	410-420	261.61	873.47	1,135.08	1,135.98
	8/4/2015	C	410-420	262.15	872.93	1,135.08	1,135.98
	7/13/2016	C	410-420	262.84	872.24	1,135.08	1,135.98
	8/13/2014	D	500-510	259.73	875.35	1,135.08	1,135.98
	8/4/2015	D	500-510	259.38	875.7	1,135.08	1,135.98
	7/13/2016	D	500-510	259.70	875.38	1,135.08	1,135.98
	8/13/2014	E	560-570	259.93	875.15	1,135.08	1,135.98
	8/4/2015	E	560-570	259.51	875.57	1,135.08	1,135.98
	7/13/2016	E	560-570	259.93	875.15	1,135.08	1,135.98
	8/13/2014	F	608-618	263.48	871.6	1,135.08	1,135.98
	8/4/2015	F	608-618	262.14	872.94	1,135.08	1,135.98
	7/13/2016	F	608-618	261.27	873.81	1,135.08	1,135.98
	8/13/2014	G	708-718	256.83	878.25	1,135.08	1,135.98
	8/4/2015	G	708-718	254.89	880.19	1,135.08	1,135.98
	7/13/2016	G	708-718	248.25	886.83	1,135.08	1,135.98
EPA-MP1	8/11/2014	A	363-373	297.23	928.82	1,226.05	1,226.52
	7/20/2015	A	363-373	296.33	929.72	1,226.05	1,226.52
	10/5/2016	A	363-373	297.41	928.64	1,226.05	1,226.52
	8/11/2014	B	459-469	297.51	928.54	1,226.05	1,226.52
	7/20/2015	B	459-469	296.54	929.51	1,226.05	1,226.52
	10/5/2016	B	459-469	297.76	928.29	1,226.05	1,226.52
	8/11/2014	C	559-569	297.69	928.36	1,226.05	1,226.52
	7/20/2015	C	559-569	296.26	929.79	1,226.05	1,226.52
	10/5/2016	C	559-569	297.71	928.34	1,226.05	1,226.52
	8/11/2014	D	790-740	299.18	926.87	1,226.05	1,226.52
	7/20/2015	D	790-740	297.02	929.03	1,226.05	1,226.52
	10/5/2016	D	790-740	298.28	927.77	1,226.05	1,226.52
	8/11/2014	E	795-805	289.97	936.08	1,226.05	1,226.52
	7/20/2015	E	795-805	288.84	937.21	1,226.05	1,226.52
	10/5/2016	E	795-805	289.97	936.08	1,226.05	1,226.52
EPA-MP2	8/19/2014	A	346-356	320.24	949.75	1,269.99	1,270.57
	7/21/2015	A	346-356	319.09	950.9	1,269.99	1,270.57
	7/21/2016	A	346-356	319.78	950.21	1,269.99	1,270.57
	8/19/2014	B	406-416	320.33	949.66	1,269.99	1,270.57
	7/21/2015	B	406-416	319.20	950.79	1,269.99	1,270.57
	7/21/2016	B	406-416	320.10	949.89	1,269.99	1,270.57
	8/19/2014	C	506-516	320.64	949.35	1,269.99	1,270.57
	7/21/2015	C	506-516	319.42	950.57	1,269.99	1,270.57
	7/21/2016	C	506-516	320.53	949.46	1,269.99	1,270.57
	8/18/2014	D	612-622	321.15	948.84	1,269.99	1,270.57
	7/21/2015	D	612-622	319.51	950.48	1,269.99	1,270.57
	7/21/2016	D	612-622	320.32	949.67	1,269.99	1,270.57
	8/18/2014	E	712-722	321.39	948.6	1,269.99	1,270.57
	7/21/2015	E	712-722	319.76	950.23	1,269.99	1,270.57
	7/21/2016	E	712-722	320.43	949.56	1,269.99	1,270.57
	8/18/2014	F	762-772	305.78	964.21	1,269.99	1,270.57
	7/21/2015	F	762-772	307.58	962.41	1,269.99	1,270.57
	7/21/2016	F	762-772	309.38	960.61	1,269.99	1,270.57
EPA-MP3	8/22/2014	A	454-464	406.62	956.48	1,363.10	1,363.73
	7/27/2015	A	454-464	405.67	957.43	1,363.10	1,363.73
	7/20/2016	A	454-464	405.90	957.2	1,363.10	1,363.73
	8/22/2014	B	590-600	406.86	956.24	1,363.10	1,363.73
	7/27/2015	B	590-600	405.85	957.25	1,363.10	1,363.73
	7/20/2016	B	590-600	406.17	956.93	1,363.10	1,363.73
	8/22/2014	C	684-694	407.28	955.82	1,363.10	1,363.73
	7/27/2015	C	684-694	406.08	957.02	1,363.10	1,363.73
	7/20/2016	C	684-694	406.49	956.61	1,363.10	1,363.73
	8/22/2014	D	811-827	408.24	954.86	1,363.10	1,363.73
	7/27/2015	D	811-827	406.70	956.4	1,363.10	1,363.73

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Wells	Date	Screen Designation	Well Screen Interval (ft bgs)	Depth to Water (ft bmp)	Water Elev. (ft amsl)	Measuring Point Elevation (ft amsl)	Approximate Ground Surface Elevation (ft amsl)
	7/20/2016	D	811-827	407.09	956.01	1,363.10	1,363.73
	8/22/2014	E	897-907	408.58	954.52	1,363.10	1,363.73
	7/27/2015	E	897-907	407.19	955.91	1,363.10	1,363.73
	7/20/2016	E	897-907	407.33	955.77	1,363.10	1,363.73
EPA-MP5	8/19/2014	A	352-362	329.13	956.03	1,285.16	1,284.96
	7/31/2015	A	352-362	328.95	956.21	1,285.16	1,284.96
	7/12/2016	A	352-362	328.30	956.86	1,285.16	1,284.96
	8/19/2014	B	408-418	329.22	955.94	1,285.16	1,284.96
	7/31/2015	B	408-418	329.02	956.14	1,285.16	1,284.96
	7/12/2016	B	408-418	328.42	956.74	1,285.16	1,284.96
	8/19/2014	C	502-512	329.43	955.73	1,285.16	1,284.96
	7/31/2015	C	502-512	329.18	955.98	1,285.16	1,284.96
	7/12/2016	C	502-512	328.72	956.44	1,285.16	1,284.96
	8/19/2014	D	626-636	331.01	954.15	1,285.16	1,284.96
	7/31/2015	D	626-636	330.21	954.95	1,285.16	1,284.96
	7/12/2016	D	626-636	329.56	955.6	1,285.16	1,284.96
	8/19/2014	E	737-747	331.66	953.5	1,285.16	1,284.96
	7/31/2015	E	737-747	330.55	954.61	1,285.16	1,284.96
	7/12/2016	E	737-747	329.98	955.18	1,285.16	1,284.96
EPA-MP6	8/22/2014	A	351-361	332.71	940.7	1,273.41	1,273.66
	7/27/2015	A	351-361	331.56	941.85	1,273.41	1,273.66
	7/20/2016	A	351-361	332.07	941.34	1,273.41	1,273.66
	8/22/2014	B	445-455	332.91	940.5	1,273.41	1,273.66
	7/27/2015	B	445-455	331.74	941.67	1,273.41	1,273.66
	7/20/2016	B	445-455	332.40	941.01	1,273.41	1,273.66
	8/22/2014	C	569-579	333.40	940.01	1,273.41	1,273.66
	7/27/2015	C	569-579	332.08	941.33	1,273.41	1,273.66
	7/20/2016	C	569-579	333.12	940.29	1,273.41	1,273.66
	8/22/2014	D	656-666	333.76	939.65	1,273.41	1,273.66
	7/27/2015	D	656-666	332.31	941.1	1,273.41	1,273.66
	7/20/2016	D	656-666	333.18	940.23	1,273.41	1,273.66
	8/22/2014	E	762-772	334.03	939.38	1,273.41	1,273.66
	7/27/2015	E	762-772	331.05	942.36	1,273.41	1,273.66
	7/18/2016	E	762-772	314.11	959.3	1,273.41	1,273.66
EPA-MP7	8/20/2014	A	355-365	297.85	928.76	1,226.61	1,227.52
	7/30/2015	A	355-365	297.20	929.41	1,226.61	1,227.52
	7/21/2016	A	355-365	297.53	929.08	1,226.61	1,227.52
	8/20/2014	B	430-440	299.22	927.39	1,226.61	1,227.52
	7/30/2015	B	430-440	298.62	927.99	1,226.61	1,227.52
	7/21/2016	B	430-440	299.03	927.58	1,226.61	1,227.52
	8/20/2014	C	500-510	302.38	924.23	1,226.61	1,227.52
	7/30/2015	C	500-510	301.71	924.9	1,226.61	1,227.52
	7/21/2016	C	500-510	302.27	924.34	1,226.61	1,227.52
	8/20/2014	D	585-595	299.90	926.71	1,226.61	1,227.52
	7/30/2015	D	585-595	299.00	927.61	1,226.61	1,227.52
	7/21/2016	D	585-595	299.49	927.12	1,226.61	1,227.52
	8/20/2014	E	700-710	297.55	929.06	1,226.61	1,227.52
	7/30/2015	E	700-710	296.49	930.12	1,226.61	1,227.52
	7/21/2016	E	700-710	296.79	929.82	1,226.61	1,227.52
EPA-MP8	8/13/2014	A	345-355	299.71	920.26	1,219.97	1,221.08
	7/21/2015	A	345-355	300.19	919.78	1,219.97	1,221.08
	7/14/2016	A	345-355	300.51	919.46	1,219.97	1,221.08
	8/13/2014	B	395-405	299.69	920.28	1,219.97	1,221.08
	7/21/2015	B	395-405	300.13	919.84	1,219.97	1,221.08
	7/14/2016	B	395-405	300.61	919.36	1,219.97	1,221.08
	8/13/2014	C	490-500	299.83	920.14	1,219.97	1,221.08
	7/21/2015	C	490-500	300.13	919.84	1,219.97	1,221.08
	7/14/2016	C	490-500	300.82	919.15	1,219.97	1,221.08
	8/11/2014	D	605-615	305.38	914.59	1,219.97	1,221.08
	7/21/2015	D	605-615	305.18	914.79	1,219.97	1,221.08
	7/14/2016	D	605-615	304.92	915.05	1,219.97	1,221.08
	8/11/2014	E	720-730	305.43	914.54	1,219.97	1,221.08
	7/21/2015	E	720-730	305.15	914.82	1,219.97	1,221.08
	7/14/2016	E	720-730	304.87	915.1	1,219.97	1,221.08

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Wells	Date	Screen Designation	Well Screen Interval (ft bgs)	Depth to Water (ft bmp)	Water Elev. (ft amsl)	Measuring Point Elevation (ft amsl)	Approximate Ground Surface Elevation (ft amsl)
PW-9	8/21/2014	A	350-360	351.54	952.62	1,304.16	1,304.70
	8/4/2015	A	350-360	351.63	952.53	1,304.16	1,304.70
	7/19/2016	A	350-360	352.92	951.24	1,304.16	1,304.70
	8/21/2014	B	410-420	359.19	944.97	1,304.16	1,304.70
	8/4/2015	B	410-420	355.43	948.73	1,304.16	1,304.70
	7/19/2016	B	410-420	359.29	944.87	1,304.16	1,304.70
	8/21/2014	C	480-490	362.87	941.29	1,304.16	1,304.70
	8/4/2015	C	480-490	355.58	948.58	1,304.16	1,304.70
	7/19/2016	C	480-490	362.98	941.18	1,304.16	1,304.70
	8/20/2014	D	560-570	364.38	939.78	1,304.16	1,304.70
	8/4/2015	D	560-570	355.75	948.41	1,304.16	1,304.70
	7/19/2016	D	560-570	364.59	939.57	1,304.16	1,304.70
	8/20/2014	E	645-655	365.85	938.31	1,304.16	1,304.70
	8/4/2015	E	645-655	357.16	947	1,304.16	1,304.70
	7/19/2016	E	645-655	366.55	937.61	1,304.16	1,304.70
	8/20/2014	F	715-725	366.94	937.22	1,304.16	1,304.70
	8/4/2015	F	715-725	357.90	946.26	1,304.16	1,304.70
	7/19/2016	F	715-725	367.57	936.59	1,304.16	1,304.70
	8/20/2014	G	805-815	368.06	936.1	1,304.16	1,304.70
	8/4/2015	G	805-815	358.39	945.77	1,304.16	1,304.70
	7/19/2016	G	805-815	368.17	935.99	1,304.16	1,304.70
PW-10	6/10/2014	A	355-365	325.40	943.45	1,268.85	1,270.00
	8/14/2014	A	355-365	326.53	942.32	1,268.85	1,270.00
	7/22/2015	A	355-365	325.08	943.77	1,268.85	1,270.00
	7/18/2016	A	355-365	325.86	942.99	1,268.85	1,270.00
	6/10/2014	B	455-465	325.69	943.16	1,268.85	1,270.00
	8/14/2014	B	455-465	326.80	942.05	1,268.85	1,270.00
	7/22/2015	B	455-465	325.05	943.8	1,268.85	1,270.00
	7/18/2016	B	455-465	326.06	942.79	1,268.85	1,270.00
	6/10/2014	C	540-550	326.26	942.59	1,268.85	1,270.00
	8/14/2014	C	540-550	327.13	941.72	1,268.85	1,270.00
	7/22/2015	C	540-550	325.43	943.42	1,268.85	1,270.00
	7/18/2016	C	540-550	326.23	942.62	1,268.85	1,270.00
	6/10/2014	D	600-610	326.44	942.41	1,268.85	1,270.00
	8/14/2014	D	600-610	327.34	941.51	1,268.85	1,270.00
	7/22/2015	D	600-610	325.47	943.38	1,268.85	1,270.00
	7/18/2016	D	600-610	326.44	942.41	1,268.85	1,270.00
	6/10/2014	E	740-750	327.05	941.8	1,268.85	1,270.00
	8/14/2014	E	740-750	327.97	940.88	1,268.85	1,270.00
	7/22/2015	E	740-750	325.73	943.12	1,268.85	1,270.00
	7/18/2016	E	740-750	326.72	942.13	1,268.85	1,270.00
PW-11	6/9/2014	A	350-360	294.54	926.69	1,221.23	1,222.33
	8/18/2014	A	350-360	295.12	926.11	1,221.23	1,222.33
	7/29/2015	A	350-360	294.56	926.67	1,221.23	1,222.33
	7/11/2016	A	350-360	294.24	926.99	1,221.23	1,222.33
	6/9/2014	B	445-455	294.68	926.55	1,221.23	1,222.33
	8/18/2014	B	445-455	295.18	926.05	1,221.23	1,222.33
	7/29/2015	B	445-455	294.65	926.58	1,221.23	1,222.33
	7/11/2016	B	445-455	294.38	926.85	1,221.23	1,222.33
	6/9/2014	C	555-565	294.45	926.78	1,221.23	1,222.33
	8/18/2014	C	555-565	294.93	926.3	1,221.23	1,222.33
	7/29/2015	C	555-565	294.22	927.01	1,221.23	1,222.33
	7/11/2016	C	555-565	294.03	927.2	1,221.23	1,222.33
	6/9/2014	D	690-700	295.04	926.19	1,221.23	1,222.33
	8/18/2014	D	690-700	295.83	925.4	1,221.23	1,222.33
	7/29/2015	D	690-700	294.56	926.67	1,221.23	1,222.33
	7/11/2016	D	690-700	294.14	927.09	1,221.23	1,222.33
	6/9/2014	E	745-755	295.30	925.93	1,221.23	1,222.33
	8/18/2014	E	745-755	296.13	925.1	1,221.23	1,222.33
	7/29/2015	E	745-755	294.91	926.32	1,221.23	1,222.33
	7/11/2016	E	745-755	294.28	926.95	1,221.23	1,222.33
PW-12	6/9/2014	A	330-340	303.95	937.94	1,241.89	1,242.01
	8/14/2014	A	330-340	305.01	936.88	1,241.89	1,242.01
	7/29/2015	A	330-340	304.02	937.87	1,241.89	1,242.01
	7/18/2016	A	330-340	304.12	937.77	1,241.89	1,242.01
	6/9/2014	B	390-400	304.09	937.8	1,241.89	1,242.01
	8/14/2014	B	390-400	305.13	936.76	1,241.89	1,242.01
	7/29/2015	B	390-400	304.20	937.69	1,241.89	1,242.01

Table 4-1
2016 Groundwater Elevation Measurements
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

Wells	Date	Screen Designation	Well Screen Interval (ft bgs)	Depth to Water (ft bmp)	Water Elev. (ft amsl)	Measuring Point Elevation (ft amsl)	Approximate Ground Surface Elevation (ft amsl)
	7/18/2016	B	390-400	304.27	937.62	1,241.89	1,242.01
	6/9/2014	C	495-505	304.35	937.54	1,241.89	1,242.01
	8/14/2014	C	495-505	305.20	936.69	1,241.89	1,242.01
	7/29/2015	C	495-505	304.05	937.84	1,241.89	1,242.01
	7/18/2016	C	495-505	304.49	937.4	1,241.89	1,242.01
	6/9/2014	D	550-560	304.26	937.63	1,241.89	1,242.01
	8/14/2014	D	550-560	305.09	936.8	1,241.89	1,242.01
	7/29/2015	D	550-560	303.94	937.95	1,241.89	1,242.01
	7/14/2016	D	550-560	304.35	937.54	1,241.89	1,242.01
	6/9/2014	E	720-730	304.30	937.59	1,241.89	1,242.01
	8/14/2014	E	720-730	305.36	936.53	1,241.89	1,242.01
	7/29/2015	E	720-730	303.84	938.05	1,241.89	1,242.01
	7/14/2016	E	720-730	304.28	937.61	1,241.89	1,242.01
PW-13	11/20/2014	A	335-345	259.44	890.67	1,150.11	1,150.51
	7/31/2015	A	335-345	259.16	890.95	1,150.11	1,150.51
	7/12/2016	A	335-345	259.14	890.97	1,150.11	1,150.51
	11/20/2014	B	390-400	259.51	890.60	1,150.11	1,150.51
	7/31/2015	B	390-400	259.37	890.74	1,150.11	1,150.51
	7/12/2016	B	390-400	259.26	890.85	1,150.11	1,150.51
	11/20/2014	C	470-480	259.64	890.47	1,150.11	1,150.51
	7/31/2015	C	470-480	259.46	890.65	1,150.11	1,150.51
	7/12/2016	C	470-480	259.27	890.84	1,150.11	1,150.51
	11/20/2014	D	520-530	259.69	890.42	1,150.11	1,150.51
	7/31/2015	D	520-530	259.62	890.49	1,150.11	1,150.51
	7/12/2016	D	520-530	259.39	890.72	1,150.11	1,150.51
	11/20/2014	E	600-610	255.83	894.28	1,150.11	1,150.51
	7/31/2015	E	600-610	254.22	895.89	1,150.11	1,150.51
	7/12/2016	E	600-610	249.56	900.55	1,150.11	1,150.51
PW-14	11/19/2014	A	295-305	293.52	876.26	1,169.78	1,170.16
	7/24/2015	A	295-305	293.15	876.63	1,169.78	1,170.16
	7/11/2016	A	295-305	293.89	875.89	1,169.78	1,170.16
	11/19/2014	B	360-370	291.13	878.65	1,169.78	1,170.16
	7/24/2015	B	360-370	290.62	879.16	1,169.78	1,170.16
	7/11/2016	B	360-370	291.13	878.65	1,169.78	1,170.16
	11/19/2014	C	420-430	287.02	882.76	1,169.78	1,170.16
	7/24/2015	C	420-430	286.6	883.18	1,169.78	1,170.16
	7/11/2016	C	420-430	286.63	883.15	1,169.78	1,170.16
	11/19/2014	D	520-530	286.87	882.91	1,169.78	1,170.16
	7/24/2015	D	520-530	286.46	883.32	1,169.78	1,170.16
	7/11/2016	D	520-530	286.64	883.14	1,169.78	1,170.16
	11/19/2014	E	600-610	278.88	890.90	1,169.78	1,170.16
	7/24/2015	E	600-610	278.28	891.50	1,169.78	1,170.16
	7/11/2016	E	600-610	272.1	897.68	1,169.78	1,170.16

Notes:

ft bgs feet below ground surface
ft bmp feet below measuring point
ft amsl feet above mean sea level

Table 4-2
Groundwater Analytical Results Summary
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

	Depth	Sample Date	CA MCL (a)	Perchlorate (µg/L) 6	1,2-Dichloroethane (µg/L) 0.5	Benzene (µg/L) 1	Chloroform (µg/L) 80	Chloromethane (µg/L) –	cis-1,2-Dichloroethene (µg/L) 6	Isopropanol (µg/L) –	Tetrachloroethene (µg/L) 5	Toluene (µg/L) 150	Trichloroethene (µg/L) 5	Trichlorofluoro-methane (µg/L) 150
1S/4W-8E1S	980	06/13/2013	Sample	–	0.2 J	–	–	0.42 J	–	–	–	–	–	–
	980	08/15/2014	Sample	–	–	–	–	–	–	–	–	0.34 J	–	–
	980	08/15/2014	Duplicate	–	–	–	–	–	–	–	–	0.32 J	–	–
	980	08/05/2015	Sample **	–	–	–	–	–	–	–	–	–	–	–
	980	07/27/2016	Sample	1.4 J	–	–	–	–	–	–	–	–	–	–
	980	07/27/2016	Duplicate	2.8 J	–	–	–	–	–	–	–	–	–	–
1S/4W-8E2S	760	06/13/2013	Sample	–	–	–	–	–	–	–	–	0.28 J	–	–
	760	06/13/2013	Duplicate	–	–	–	–	0.51 J	–	–	–	–	–	–
	760	08/15/2014	Sample	–	–	–	–	–	–	–	–	0.37 J	–	–
	760	08/06/2015	Sample *	–	1.1 a	–	–	–	–	–	–	–	–	–
	760	07/27/2016	Sample	–	0.58 J a	–	–	–	–	–	–	–	–	–
1S/4W-8E3S	587	06/13/2013	Sample	–	2.9 a	–	–	0.44 J	–	–	–	–	–	–
	587	08/15/2014	Sample	–	0.98 J a	–	–	–	–	–	–	–	–	–
	587	08/03/2015	Sample *	NA	0.27 J	–	–	–	–	–	–	–	–	–
	587	08/05/2015	Sample **	–	–	–	–	–	–	–	–	–	–	–
	587	07/27/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
1S/4W-8E4S	320	06/13/2013	Sample	1.7	–	–	–	0.38 J	–	–	–	–	–	–
	320	08/15/2014	Sample	–	–	–	–	0.32 J	–	–	–	–	–	–
	320	08/05/2015	Sample **	1.7	0.3 J	–	–	–	–	–	–	–	–	–
	320	07/27/2016	Sample	3.3	–	–	–	–	–	-	–	–	–	–
1S/5W-11F1S	940	06/13/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	940	08/18/2014	Sample	–	–	–	–	–	–	–	–	0.48 J	–	–
	940	08/06/2015	Sample *	–	–	–	–	–	–	–	–	–	–	–
	940	07/28/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
1S/5W-11F3S	432	06/13/2013	Sample	–	0.48 J	–	–	0.59 J	–	–	–	–	–	–
	432	08/15/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	432	08/05/2015	Sample **	–	–	–	–	–	–	–	–	–	–	–
	432	07/28/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
1S/5W-11F4S	320	06/13/2013	Sample	–	2 a	–	–	0.44 J	–	–	–	–	–	–
	320	08/15/2014	Sample	–	–	–	0.3 J	–	–	–	0.5 J	–	–	–
	320	08/04/2015	Sample *	NA	–	–	–	–	–	–	–	–	–	–
	320	08/05/2015	Sample **	1.7	–	–	–	–	–	–	–	–	–	–
	320	07/28/2016	Sample	2.4	–	–	–	–	–	–	–	–	–	–
1S/5W-13B2S	685	06/13/2013	Sample	–	–	0.41 J	–	0.57 J	–	–	–	–	–	–
	685	08/05/2015	Sample **	1.4	–	–	–	–	–	–	–	–	–	–
	685	07/27/2016	Sample	0.89 J	–	–	–	–	–	-	–	–	–	–
1S/5W-13B3S	550	06/13/2013	Sample	1.8	2.8 a	–	–	–	–	–	0.62 J	–	–	–
	550	08/15/2014	Sample	–	–	–	–	–	–	69.3 J	0.95 J	–	–	–
	550	08/06/2015	Sample **	4.3	–	–	–	–	–	–	0.44 J	–	–	–
	550	07/27/2016	Sample	2	–	–	–	–	–	–	–	–	–	–
	550	07/27/2016	Duplicate	1.9	–	–	–	–	–	–	–	–	–	–
1S/5W-13B4S	430	06/13/2013	Sample	3.6	0.24 J	–	–	0.55 J	–	–	–	–	–	–
	430	08/15/2014	Sample	3.4	N	N	N	N	N	N	N	N	N	N
	430	09/18/2014	Sample	1.9	–	–	–	–	–	–	–	–	–	–
	430	08/05/2015	Sample **	3.8	–	–	–	–	–	–	–	–	–	–
	430	07/27/2016	Sample	4.4	–	–	–	–	–	–	–	–	–	–
1S/5W-13B5S	280	06/13/2013	Sample	1.2	–	–	–	0.47 J	–	–	–	–	–	–
	280	08/15/2014	Sample	38.3 a	–	–	–	–	–	–	–	–	–	–
	280	11/20/2014	Sample	45.1 a	–	–	–	–	–	–	–	–	–	–
	280	08/05/2015	Sample *	1.2	0.35 J	–	–	–	–	–	0.52 J	–	–	–
	280	08/05/2015	Duplicate	1.1	0.33 J	–	–	–	–	–	0.63 J	–	–	–
	280	07/27/2016	Sample	2	–	–	–	–	–	-	2.5	–	–	–
1S/5W-3A5S	670	06/13/2013	Sample	–	–	–	–	0.53 J	–	–	–	–	–	–
	670	08/05/2015	Sample **	–	–	–	–	–	–	–	–	–	–	–
	670	07/28/2016	Sample	1.3	–	–	–	–	–	–	–	–	–	–
1S/5W-3A6S	510	06/13/2013	Sample	126 a	2.3 a	–	–	0.32 J	–	–	–	–	6.9 a	–
	510	08/15/2014	Sample	205 a	–	–	–	0.36 J	–	–	–	–	13.2 a	–
	510	08/04/2015	Sample *	NA	–	–	–	–	–	–	–	–	15.0 a	–
	510	08/05/2015	Sample **	250 a	–	–	–	–	–	–	–	–	14.0 a	–
	510	07/28/2016	Sample	248 a	–	–	–	–	–	–	–	–	17.6 a	–

Table 4-2
Groundwater Analytical Results Summary
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

	Depth	Sample Date	CA MCL (a)	Perchlorate (µg/L) 6	1,2-Dichloroethane (µg/L) 0.5	Benzene (µg/L) 1	Chloroform (µg/L) 80	Chloromethane (µg/L) –	cis-1,2-Dichloroethene (µg/L) 6	Isopropanol (µg/L) –	Tetrachloroethene (µg/L) 5	Toluene (µg/L) 150	Trichloroethene (µg/L) 5	Trichlorofluoro-methane (µg/L) 150
1S/5W-3A7S	410	06/13/2013	Sample	**1.6**	–	–	–	–	–	–	–	–	–	–
	410	08/15/2014	Sample	**2**	–	–	–	–	–	–	–	–	–	–
	410	08/05/2015	Sample **	**1.5**	–	–	–	–	–	–	–	–	–	–
	410	07/28/2016	Sample	**3.1**	–	–	–	–	–	–	–	–	–	–
CPW-16	295	05/21/2013	Sample	**19.4 a**	–	–	–	–	–	–	–	–	–	–
	295	05/21/2013	Duplicate	**19.6 a**	–	–	–	–	–	–	–	–	–	–
	378	05/21/2013	Sample	**78.3 a**	–	–	–	**0.37 J**	–	–	–	–	**1.5**	–
	417	05/21/2013	Sample	**165 a**	–	–	–	–	–	–	–	–	**3.4**	–
	513	05/21/2013	Sample	–	–	–	–	**0.32 J**	–	–	–	–	–	–
	638	05/21/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	718	05/21/2013	Sample	–	–	–	–	**0.44 J**	–	–	–	–	–	–
	753	05/21/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	295	08/21/2014	Sample	**17.4 a**	–	–	–	–	–	–	–	–	–	–
	378	08/21/2014	Sample	**104 a**	–	–	–	–	–	–	–	–	**1.8**	–
	417	08/21/2014	Sample	**119 a**	–	–	–	–	–	**8.1 J**	–	–	**2.1**	–
	417	08/21/2014	Duplicate	**116 a**	–	–	–	–	–	–	–	–	**1.9**	–
	513	08/21/2014	Sample	**1**	–	–	–	–	–	**12.3 J**	–	–	–	–
	638	08/21/2014	Sample	–	–	–	–	–	–	**13.3 J**	–	–	–	–
	718	08/21/2014	Sample	**0.75 J**	–	–	–	–	–	**16.8 J**	–	–	–	–
	753	08/21/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	295	07/30/2015	Sample	**2.8**	–	–	–	–	–	–	–	–	–	–
	378	07/30/2015	Sample	**86.2 a**	–	–	–	–	–	–	–	–	**2.0**	–
	417	07/30/2015	Sample	**149 a**	–	–	–	–	–	–	–	–	**3.6**	–
	513	07/30/2015	Sample	**1.4**	–	–	–	–	–	–	–	–	–	–
	638	07/30/2015	Sample	**1.0**	–	–	–	–	–	–	–	–	–	–
	638	07/30/2015	Duplicate	–	–	–	–	–	–	–	–	–	–	–
	718	07/30/2015	Sample	**0.97 J**	–	–	–	–	–	–	–	–	–	–
	753	07/30/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	295	07/14/2016	Sample	**19.9 a**	–	–	–	–	–	–	–	–	–	–
	295	07/14/2016	Duplicate	**18.7 a**	–	–	–	–	–	–	–	–	–	–
	378	07/14/2016	Sample	**87.8 a**	–	–	–	–	–	–	–	–	**1.8**	–
	417	07/14/2016	Sample	**134 a**	–	–	–	–	–	–	–	–	**2.6**	–
	513	07/14/2016	Sample	**0.77 J**	–	–	–	–	–	–	–	–	–	–
	638	07/13/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	718	07/13/2016	Sample	**1.3**	–	–	–	–	–	–	–	–	–	–
	753	07/13/2016	Sample	**1.7**	–	–	–	–	–	–	–	–	–	–
CPW-17	313	05/28/2013	Sample	**4**	–	–	–	–	–	–	–	–	–	–
	413	05/28/2013	Sample	–	–	–	–	**0.39 J**	–	–	–	–	–	–
	503	05/28/2013	Sample	–	–	–	–	**0.43 J**	–	–	–	–	–	–
	563	05/28/2013	Sample	–	–	–	–	**0.32 J**	–	–	–	–	–	–
	612	05/28/2013	Sample	–	–	–	–	**0.44 J**	–	–	–	–	–	–
	712	05/28/2013	Sample	–	–	–	–	**0.38 J**	–	–	–	–	–	–
	313	08/13/2014	Sample	**3.6**	–	–	–	–	–	–	–	–	–	–
	413	08/13/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	503	08/13/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	563	08/13/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	563	08/13/2014	Duplicate	–	–	–	–	–	–	–	–	–	–	–
	612	08/13/2014	Sample	**0.88 J**	–	–	–	–	–	–	–	–	–	–
	712	08/13/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	313	08/04/2015	Sample	**3.2**	–	–	–	–	–	–	–	–	–	–
	313	08/04/2015	Duplicate	**3.0**	–	–	–	–	–	–	–	–	–	–
	413	08/04/2015	Sample	**1.3**	–	–	–	–	–	–	–	–	–	–
	503	08/04/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	563	08/04/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	612	08/04/2015	Sample	**1.3**	–	–	–	–	–	–	–	–	–	–
	712	08/04/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	313	07/13/2016	Sample	**2.8**	–	–	–	–	–	–	–	–	–	–
	413	07/13/2016	Sample	**1.7**	–	–	–	–	–	–	–	–	–	–
	503	07/13/2016	Sample	**0.83 J**	–	–	–	–	–	–	–	–	–	–
	563	07/13/2016	Sample	**0.94 J**	–	–	–	–	–	–	–	–	–	–
	612	07/13/2016	Sample	**1.1**	–	–	–	–	–	–	–	–	–	–
	712	07/13/2016	Sample	**1.4**	–	–	–	–	–	–	–	–	–	–

Table 4-2
Groundwater Analytical Results Summary
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

	Depth	Sample Date	CA MCL (a)	Perchlorate (µg/L) 6	1,2-Dichloroethane (µg/L) 0.5	Benzene (µg/L) 1	Chloroform (µg/L) 80	Chloromethane (µg/L) –	cis-1,2-Dichloroethene (µg/L) 6	Isopropanol (µg/L) –	Tetrachloroethene (µg/L) 5	Toluene (µg/L) 150	Trichloroethene (µg/L) 5	Trichlorofluoro-methane (µg/L) 150
EPA-MP1	366	05/20/2013	Sample	**1.2**	–	–	–	**0.34 J**	–	**18.1**	–	–	–	–
	462	05/20/2013	Sample	**1.3**	–	–	–	–	–	–	–	–	–	–
	562	05/20/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	732	05/20/2013	Sample	–	–	–	–	–	–	**33.2**	–	–	–	–
	797	05/20/2013	Sample	–	–	–	–	**0.38 J**	–	–	–	–	–	–
	462	05/20/2013	Duplicate	**1.4**	–	–	–	**0.33 J**	–	–	–	–	–	–
	366	08/11/2014	Sample	**1.7**	–	–	–	–	–	–	–	–	–	–
	462	08/11/2014	Sample	**1.5**	–	–	–	–	–	–	–	–	–	–
	562	08/11/2014	Sample	**0.8 J**	–	–	–	–	–	–	–	–	–	–
	732	08/11/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	797	08/11/2014	Sample	–	–	–	–	–	–	–	**0.8 J**	–	**6.4 a**	–
	797	11/20/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	366	07/20/2015	Sample	**4.8**	–	–	–	–	–	–	–	–	–	–
	462	07/20/2015	Sample	**2.4**	–	–	–	–	–	**6.4 J**	–	–	–	–
	562	07/20/2015	Sample	**1.0**	–	–	–	–	–	–	–	–	–	–
	732	07/20/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	797	07/20/2015	Sample	–	–	–	–	–	–	**8.6 J**	–	–	–	–
	366	10/05/2016	Sample	**7.7 a**	–	–	–	–	–	**44 J**	–	–	–	–
	462	10/05/2016	Sample	**8.7 a**	–	–	–	–	–	–	–	–	–	–
	462	10/05/2016	Duplicate	**8.5 a**	–	–	–	–	–	–	–	–	–	–
	562	10/05/2016	Sample	**1.1**	–	–	–	–	–	–	–	–	–	–
	732	10/05/2016	Sample	**0.22**	–	–	–	–	–	–	–	–	–	–
	797	10/05/2016	Sample	**0.044**	–	–	–	–	–	**110 J**	–	–	–	–
EPA-MP2	350	05/20/2013	Sample	**2.8**	–	–	–	**0.31 J**	–	–	–	–	–	–
	410	05/20/2013	Sample	**5.7**	–	–	**0.27 J**	**0.45 J**	**0.31 J**	**30.7**	**2.4**	–	**0.2 J**	**0.47 J**
	510	05/20/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	614	05/20/2013	Sample	**0.83 J**	–	–	–	–	–	**26.2**	–	–	–	–
	714	05/20/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	764	05/20/2013	Sample	–	–	–	–	–	–	**11.1**	–	–	–	–
	614	08/18/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	714	08/18/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	764	08/18/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	350	08/19/2014	Sample	**1.8**	–	–	–	–	–	–	–	–	–	–
	410	08/19/2014	Sample	**7.2 a**	–	–	**0.23 J**	–	**0.39 J**	–	**2.4**	–	–	–
	510	08/19/2014	Sample	**0.72 J**	–	–	–	–	–	–	–	–	–	–
	350	07/21/2015	Sample	**2.1**	–	–	–	–	–	–	–	–	–	–
	410	07/21/2015	Sample	**9.2 a**	–	–	–	–	**0.26 J**	–	**1.2**	–	–	–
	510	07/21/2015	Sample	**1.0**	–	–	–	–	–	–	–	–	–	–
	614	07/21/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	714	07/21/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	764	07/21/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	350	07/21/2016	Sample	**3**	–	–	–	–	–	–	–	–	–	–
	410	07/21/2016	Sample	**9.2 a**	–	–	–	–	–	–	**1**	–	–	–
	410	07/21/2016	Duplicate	**8.5 a**	–	–	–	–	–	–	**1.1**	–	–	–
	510	07/21/2016	Sample	**1.2**	–	–	–	–	–	–	–	–	–	–
	614	07/21/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	714	07/21/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	764	07/21/2016	Sample	–	–	–	–	–	–	–	–	–	–	–

Table 4-2
Groundwater Analytical Results Summary
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

	Depth	Sample Date	CA MCL (a)	Perchlorate (µg/L) 6	1,2-Dichloroethane (µg/L) 0.5	Benzene (µg/L) 1	Chloroform (µg/L) 80	Chloromethane (µg/L) –	cis-1,2-Dichloroethene (µg/L) 6	Isopropanol (µg/L) –	Tetrachloroethene (µg/L) 5	Toluene (µg/L) 150	Trichloroethene (µg/L) 5	Trichlorofluoro-methane (µg/L) 150
EPA-MP3	457	05/28/2013	Sample	**10.8 a**	–	–	–	**0.5 J**	–	–	–	–	–	–
	592	05/28/2013	Sample	**2.6**	–	–	–	–	–	–	–	–	–	–
	687	05/28/2013	Sample	**2.7**	–	–	–	**0.44 J**	–	–	–	–	–	–
	814	05/28/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	899	05/28/2013	Sample	–	–	–	–	**0.46 J**	–	–	–	–	–	–
	687	05/28/2013	Duplicate	**2.4**	–	–	–	**0.61 J**	–	–	–	–	–	–
	457	08/22/2014	Sample	**14.5 a**	–	–	–	–	–	–	–	–	–	–
	592	08/22/2014	Sample	**2.3**	–	–	–	–	–	–	–	–	–	–
	687	08/22/2014	Sample	**2**	–	–	–	**0.5 J**	–	–	–	–	–	–
	814	08/22/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	899	08/22/2014	Sample	–	–	–	–	**0.56 J**	–	–	–	–	–	–
	457	07/27/2015	Sample	**12.4 a**	–	–	–	–	–	–	–	–	–	–
	592	07/27/2015	Sample	**2.2**	–	–	–	–	–	–	–	–	–	–
	687	07/27/2015	Sample	**2.6**	–	–	–	–	–	–	–	–	–	–
	814	07/27/2015	Sample	–	–	–	–	–	–	**9.2 J**	–	–	–	–
	899	07/27/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	457	07/20/2016	Sample	**12.4 a**	–	–	–	–	–	–	–	–	–	–
	592	07/20/2016	Sample	**2.5**	–	–	–	–	–	–	–	–	–	–
	592	07/20/2016	Duplicate	**2.6**	–	–	–	–	–	–	–	–	–	–
	687	07/20/2016	Sample	**2**	–	–	–	–	–	–	–	–	–	–
	814	07/20/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	899	07/20/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
EPA-MP5	357	05/29/2013	Sample	**2.6**	–	–	–	–	–	–	–	–	–	–
	412	05/29/2013	Sample	**5.2**	–	–	–	–	**0.35 J**	**25.1**	**3**	–	**0.26 J**	–
	507	05/29/2013	Sample	–	–	–	**0.58 J**	–	–	**20.5 J**	**0.93 J**	–	–	–
	630	05/29/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	740	05/29/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	507	05/29/2013	Duplicate	**1.1**	–	–	**0.57 J**	–	–	–	**0.86 J**	–	–	–
	357	08/19/2014	Sample	**2.4**	–	–	–	–	–	–	–	–	–	–
	412	08/19/2014	Sample	**5.7**	–	–	–	–	**0.39 J**	–	**2.5**	–	**0.28 J**	–
	507	08/19/2014	Sample	–	–	–	**0.74 J**	–	–	–	**1.3**	–	–	–
	630	08/19/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	630	08/19/2014	Duplicate	–	–	–	–	–	–	–	–	–	–	–
	740	08/19/2014	Sample	**1**	–	–	–	–	–	–	–	–	–	–
	357	07/31/2015	Sample	**2.5**	–	–	–	–	–	–	–	–	–	–
	412	07/31/2015	Sample	**5.4**	–	–	–	–	**0.27 J**	–	**2.7**	–	**0.28 J**	–
	412	07/31/2015	Duplicate	**5.4**	–	–	–	–	**0.27 J**	–	**2.5**	–	**0.23 J**	–
	507	07/31/2015	Sample	**1.2**	–	–	**0.75 J**	–	–	–	**1.9**	–	–	–
	630	07/31/2015	Sample	**1.4**	–	–	–	–	–	–	–	–	–	–
	740	07/31/2015	Sample	**1.2**	–	–	–	–	–	–	–	–	–	–
	357	07/12/2016	Sample	**2.4**	–	–	–	–	–	–	–	–	–	–
	412	07/12/2016	Sample	**5.1**	–	–	–	–	–	–	**1.8**	–	–	–
	507	07/12/2016	Sample	**1.1**	–	–	**0.41 J**	–	–	–	**0.64 J**	–	–	–
	630	07/12/2016	Sample	**0.99 J**	–	–	–	–	–	–	–	–	–	–
	630	07/12/2016	Duplicate	**1.1**	–	–	–	–	–	–	–	–	–	–
	740	07/12/2016	Sample	–	–	–	–	–	–	–	–	–	–	–

Table 4-2
Groundwater Analytical Results Summary
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

	Depth	Sample Date	CA MCL (a)	Perchlorate (µg/L) 6	1,2-Dichloroethane (µg/L) 0.5	Benzene (µg/L) 1	Chloroform (µg/L) 80	Chloromethane (µg/L) –	cis-1,2-Dichloroethene (µg/L) 6	Isopropanol (µg/L) –	Tetrachloroethene (µg/L) 5	Toluene (µg/L) 150	Trichloroethene (µg/L) 5	Trichlorofluoro-methane (µg/L) 150
	355	05/22/2013	Sample	**31.2 a**	–	–	–	–	–	–	–	–	–	–
	449	05/22/2013	Sample	**2.9**	–	–	–	–	–	–	–	–	–	–
	573	05/22/2013	Sample	**2.2**	–	–	–	–	–	–	–	–	–	–
	659	05/22/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	765	05/22/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	355	05/22/2013	Duplicate	**30.5 a**	–	–	–	–	–	–	–	–	–	–
	355	08/22/2014	Sample	**29.5 a**	–	–	–	–	–	–	–	–	–	–
	449	08/22/2014	Sample	**3.1**	–	–	–	–	–	–	–	–	–	–
	573	08/22/2014	Sample	**2.9**	–	–	–	–	–	–	–	–	–	–
	573	08/22/2014	Duplicate	**2.7**	–	–	–	–	–	–	–	–	–	–
	659	08/22/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
EPA-MP6	765	08/22/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	355	07/27/2015	Sample	**30.5 a**	–	–	–	–	–	–	–	–	–	–
	449	07/27/2015	Sample	**2.7**	–	–	–	–	–	–	–	–	–	–
	573	07/27/2015	Sample	**4.1**	–	–	–	–	–	**15.6 J**	–	–	–	–
	573	07/27/2015	Duplicate	**3.2**	–	–	–	–	–	–	–	–	–	–
	659	07/27/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	765	07/27/2015	Sample	–	–	–	–	–	–	**8.8 J**	–	–	–	–
	355	07/20/2016	Sample	**27.7 a**	–	–	–	–	–	–	–	–	–	–
	449	07/20/2016	Sample	**3.8**	–	–	–	–	–	–	–	–	–	–
	573	07/20/2016	Sample	**4.5**	–	–	–	–	–	–	–	–	–	–
	654	07/20/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	765	07/18/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	357	05/22/2013	Sample	**9.2 a**	–	–	–	–	–	–	–	–	–	–
	433	05/22/2013	Sample	**6.8 a**	–	–	–	–	–	–	–	–	–	–
	503	05/22/2013	Sample	**2.2**	–	–	–	–	–	–	–	–	–	–
	588	05/22/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	701	05/22/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	357	08/20/2014	Sample	**7.9 a**	–	–	–	–	–	–	–	–	–	–
	433	08/20/2014	Sample	**6.1 a**	–	–	–	–	–	–	–	–	–	–
	433	08/20/2014	Duplicate	**5.9**	–	–	–	–	–	–	–	–	–	–
	503	08/20/2014	Sample	**1.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	588	08/20/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	701	08/20/2014	Sample	–	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA-MP7	503	09/17/2014	Sample	**1.9**	–	–	–	–	–	–	–	–	–	–
	701	09/17/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	357	07/30/2015	Sample	**7.2 a**	–	–	–	–	–	–	–	–	–	–
	433	07/30/2015	Sample	**5.9**	–	–	–	–	–	–	–	–	–	–
	508	07/30/2015	Sample	**2.4**	–	–	–	–	–	–	–	–	–	–
	588	07/30/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	701	07/30/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	357	07/21/2016	Sample	**6.9 a**	–	–	–	–	–	–	–	–	–	–
	433	07/21/2016	Sample	**5.4**	–	–	–	–	–	–	–	–	–	–
	508	07/21/2016	Sample	**3**	–	–	–	–	–	–	–	–	–	–
	588	07/21/2016	Sample	**0.95 J**	–	–	–	–	–	–	–	–	–	–
	701	07/21/2016	Sample	–	–	–	–	–	–	–	–	–	–	–

Table 4-2
Groundwater Analytical Results Summary
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

	Depth	Sample Date	CA MCL (a)	Perchlorate (µg/L) 6	1,2-Dichloroethane (µg/L) 0.5	Benzene (µg/L) 1	Chloroform (µg/L) 80	Chloromethane (µg/L) –	cis-1,2-Dichloroethene (µg/L) 6	Isopropanol (µg/L) –	Tetrachloroethene (µg/L) 5	Toluene (µg/L) 150	Trichloroethene (µg/L) 5	Trichlorofluoro-methane (µg/L) 150
EPA-MP8	347	05/23/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	397	05/23/2013	Sample	–	–	–	–	–	–	30.6	–	–	–	–
	492	05/23/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	607	05/23/2013	Sample	2	–	–	–	–	–	–	–	–	–	–
	722	05/23/2013	Sample	–	–	–	–	–	–	31.5	–	–	–	–
	347	08/13/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	397	08/13/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	492	08/13/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	607	08/11/2014	Sample	1.7	–	–	–	–	–	–	–	–	–	–
	722	08/11/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	347	07/21/2015	Sample	0.77 J	–	–	–	–	–	–	–	–	–	–
	397	07/21/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	492	07/21/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	607	07/21/2015	Sample	1.6	–	–	–	–	–	–	–	–	–	–
	722	07/21/2015	Sample	0.99 J	–	–	–	–	–	–	–	–	–	–
	347	07/14/2016	Sample	0.88 J	–	–	–	–	–	–	–	–	–	–
	397	07/14/2016	Duplicate	0.81 J	–	–	–	–	–	–	–	–	–	–
	397	07/14/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	492	07/14/2016	Sample	0.87 J	–	–	–	–	–	–	–	–	–	–
	607	07/14/2016	Sample	2.4	–	–	–	–	–	–	–	–	–	–
	722	07/14/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
PW-5	467	05/23/2013	Sample	171 a	–	–	–	–	–	34.6 J	–	–	–	–
	467	05/23/2013	Duplicate	170 a	–	–	–	–	–	–	–	–	0.28 J	–
	512	05/23/2013	Sample	196 a	–	–	0.24 J	–	–	31.5	–	–	28 a	–
	557	05/23/2013	Sample	142 a	–	–	–	–	–	–	–	–	15.7 a	–
	617	05/23/2013	Sample	929 a	–	–	–	–	–	34.1	–	–	21.8 a	–
	672	05/23/2013	Sample	276 a	–	–	–	–	–	–	–	–	3.5	–
PW-9	352	05/24/2013	Sample	13 a	–	–	–	–	–	17.9	–	–	–	–
	412	05/24/2013	Sample	62.2 a	–	–	–	–	–	–	–	–	0.79 J	–
	482	05/24/2013	Sample	781 a	–	–	0.3 J	–	–	16.3	–	–	6.7 a	–
	562	05/24/2013	Sample	1.1	–	–	–	–	–	15.9	–	–	–	–
	648	05/24/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	718	05/24/2013	Sample	348 a	–	–	–	–	–	–	–	–	3.9	–
	808	05/24/2013	Sample	523 a	–	–	0.22 J	–	–	–	–	–	6.3 a	–
	412	08/21/2014	Sample	2.6	–	–	–	–	–	–	–	–	–	–
	482	08/21/2014	Sample	226 a	–	–	–	0.33 J	–	–	–	–	4.7	–
	562	08/20/2014	Sample	37.9 a	–	–	–	–	–	–	–	–	1.2	–
	648	08/20/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	718	08/20/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	808	08/20/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	412	08/04/2015	Sample	8.3 a	–	–	–	–	–	–	–	–	–	–
	482	08/04/2015	Sample	668 a	–	–	0.21 J	–	–	–	–	–	14.4 a	–
	562	08/04/2015	Sample	28.8 a	–	–	–	–	–	–	–	–	0.49 J	–
	648	08/04/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	718	08/04/2015	Sample	241 a	–	–	–	–	–	–	–	–	3.5	–
	808	08/04/2015	Sample	282 a	–	–	–	–	–	–	–	–	4.8	–
	412	07/19/2016	Sample	1.6	–	–	–	–	–	–	–	–	–	–
	412	07/19/2016	Duplicate	1.7	–	–	–	–	–	–	–	–	–	–
	482	07/19/2016	Sample	555 a	–	–	–	–	–	–	–	–	12.7 a	–
	562	07/19/2016	Sample	29.2 a	–	–	–	–	–	–	–	–	0.76 J	–
	648	07/19/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	718	07/19/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	808	07/19/2016	Sample	–	–	–	–	–	–	–	–	–	–	–

Table 4-2
Groundwater Analytical Results Summary
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

	Depth	Sample Date	CA MCL (a)	Perchlorate (µg/L) 6	1,2-Dichloroethane (µg/L) 0.5	Benzene (µg/L) 1	Chloroform (µg/L) 80	Chloromethane (µg/L) –	cis-1,2-Dichloroethene (µg/L) 6	Isopropanol (µg/L) –	Tetrachloroethene (µg/L) 5	Toluene (µg/L) 150	Trichloroethene (µg/L) 5	Trichlorofluoro-methane (µg/L) 150
PW-10	360	08/06/2013	Sample	**16.8 a**	–	–	–	–	–	–	–	–	–	–
	460	08/06/2013	Sample	**641 a**	–	–	–	–	–	–	–	–	**13.1 a**	–
	545	08/05/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	605	08/05/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	745	08/05/2013	Sample	**1.2**	–	–	–	–	–	–	–	–	–	–
	360	10/03/2013	Sample	**18.2 a**	–	–	–	–	–	–	–	–	–	–
	460	10/03/2013	Sample	**725 a**	–	–	–	–	–	–	–	–	**12.4 J a**	–
	460	10/03/2013	Duplicate	**718 a**	–	–	–	–	–	–	–	–	**6.4 J a**	–
	545	10/03/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	605	10/03/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	745	10/03/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	360	06/10/2014	Sample	**18.1 a**	–	–	–	–	–	–	–	–	**0.29 J**	–
	460	06/10/2014	Sample	**476 a**	–	–	–	–	–	–	–	–	**14.8 a**	–
	545	06/10/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	605	06/10/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	745	06/10/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	360	08/14/2014	Sample	**21.5 a**	–	–	–	–	–	–	–	–	**0.35 J**	–
	460	08/14/2014	Sample	**461 a**	–	–	–	–	–	–	–	–	**21.2 a**	–
	545	08/14/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	605	08/14/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	745	08/14/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	360	07/24/2015	Sample	**17 a**	–	–	–	–	–	**6.6 J**	–	–	–	–
	460	07/24/2015	Sample	**386 a**	–	–	–	–	–	–	–	–	**18.9 a**	–
	460	07/24/2015	Duplicate	**377 a**	–	–	–	–	–	–	–	–	**18.4 a**	–
	545	07/24/2015	Sample	–	–	–	–	–	–	**6 J**	–	–	–	–
	605	07/24/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	745	07/24/2015	Sample	–	–	–	–	–	–	**8.3 J**	–	–	–	–
	360	07/18/2016	Sample	**9.2 a**	–	–	–	–	–	–	–	–	–	–
	460	07/18/2016	Sample	**339 a**	–	–	–	–	–	–	–	–	**13.1 a**	–
	545	07/18/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	605	07/18/2016	Sample	1.5	–	–	–	–	–	–	–	–	–	–
	745	07/18/2016	Sample	1	–	–	–	–	–	–	–	–	–	–
PW-11	355	08/06/2013	Sample	**51.4 a**	–	–	–	–	–	–	–	–	**0.82 J**	–
	450	08/06/2013	Sample	**5.3**	–	–	–	–	–	–	–	–	–	–
	560	08/06/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	560	08/06/2013	Duplicate	–	–	–	–	–	–	–	–	–	–	–
	695	08/06/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	750	08/06/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	355	10/03/2013	Sample	**55.3 a**	–	–	–	–	–	–	–	–	**0.81 J**	–
	450	10/03/2013	Sample	**5.8**	–	–	–	–	–	–	–	–	–	–
	560	10/03/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	695	10/02/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	695	10/02/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	750	10/02/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	355	06/10/2014	Sample	**29.4 a**	–	–	–	–	–	–	–	–	**0.6 J**	–
	450	06/10/2014	Sample	**4.4**	–	–	–	–	–	–	–	–	–	–
	560	06/10/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	695	06/09/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	750	06/09/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	355	08/18/2014	Sample	**23.4 a**	–	–	–	–	–	–	–	–	**0.55 J**	–
	450	08/18/2014	Sample	**6.4 a**	–	–	–	–	–	–	–	–	–	–
	560	08/18/2014	Sample	**0.94 J**	–	–	–	–	–	–	–	–	–	–
	695	08/18/2014	Sample	**0.62 J**	–	–	–	–	–	–	–	–	–	–
	695	08/18/2014	Duplicate	–	–	–	–	–	–	–	–	–	–	–
	750	08/18/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	355	07/29/2015	Sample	**24.2 a**	–	–	–	–	–	–	–	–	**0.73 J**	–
	450	07/29/2015	Sample	**9.6 a**	–	–	–	–	–	–	–	–	–	–
	560	07/29/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	695	07/29/2015	Sample	**1.1**	–	–	–	–	–	–	–	–	–	–
	695	07/29/2015	Duplicate	–	–	–	–	–	–	–	–	–	–	–
	750	07/29/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	355	07/11/2016	Sample	**22.3 a**	–	–	–	–	–	–	–	–	**0.54 J**	–
	450	07/11/2016	Sample	**18.2 a**	–	–	–	–	–	–	–	**1.1**	–	–
	560	07/11/2016	Sample	**0.94 J**	–	–	–	–	–	–	–	**0.61 J**	–	–
	695	07/11/2016	Sample	**0.83 J**	–	–	–	–	–	–	–	**0.21 J**	–	–
	750	07/11/2016	Sample	**0.87 J**	–	–	–	–	–	–	–	**0.65 J**	–	–

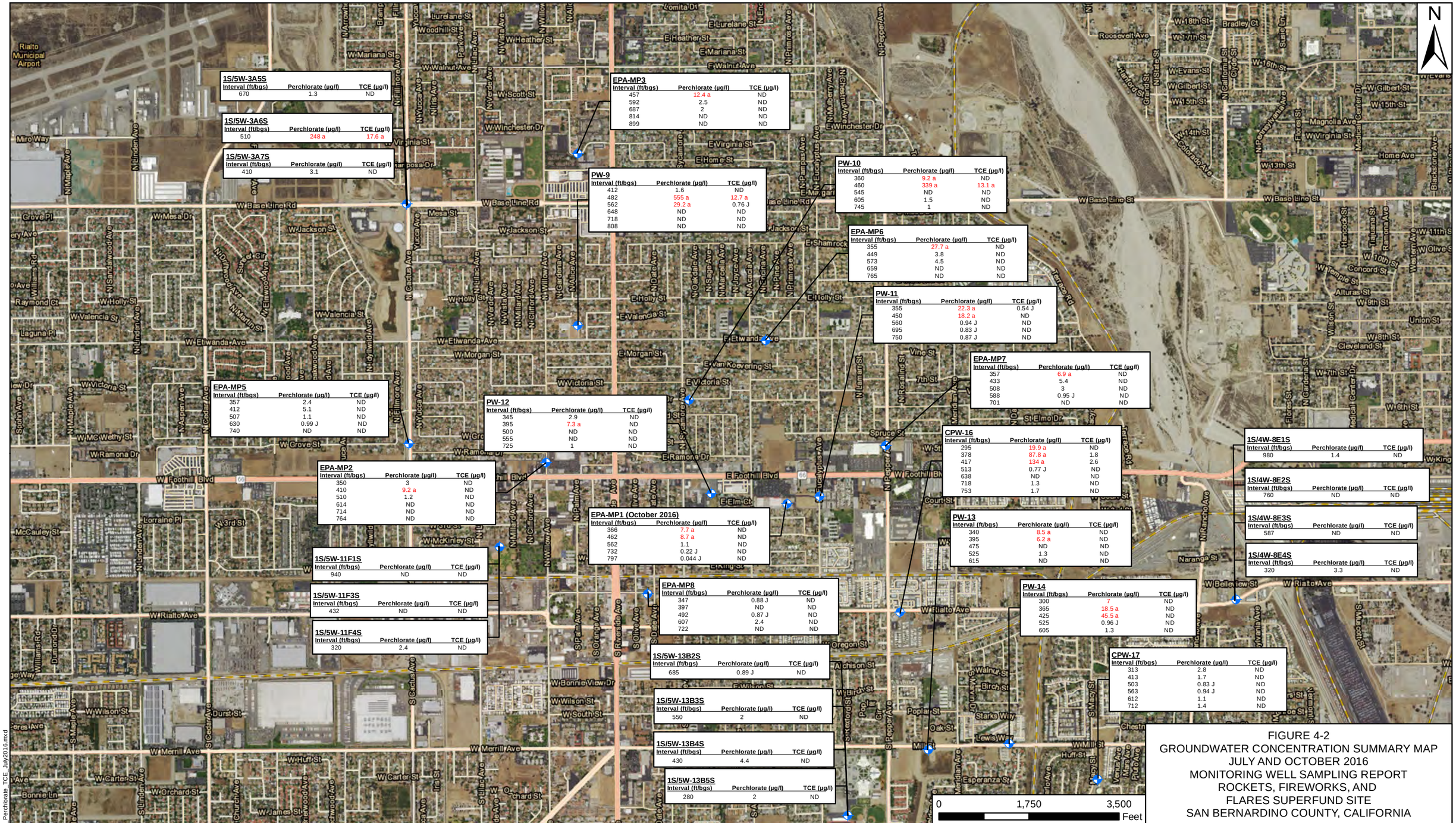
Table 4-2
Groundwater Analytical Results Summary
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

	Depth	Sample Date	CA MCL (a)	Perchlorate (µg/L) 6	1,2-Dichloroethane (µg/L) 0.5	Benzene (µg/L) 1	Chloroform (µg/L) 80	Chloromethane (µg/L) –	cis-1,2-Dichloroethene (µg/L) 6	Isopropanol (µg/L) –	Tetrachloroethene (µg/L) 5	Toluene (µg/L) 150	Trichloroethene (µg/L) 5	Trichlorofluoro-methane (µg/L) 150
PW-12	345	08/05/2013	Sample	**3.1**	–	–	–	–	–	–	–	–	–	–
	345	08/05/2013	Duplicate	**3**	–	–	–	–	–	**9.3 J**	–	–	–	–
	395	08/05/2013	Sample	**2.9**	–	–	–	–	–	**21.5**	–	–	–	–
	500	08/05/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	555	08/05/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	725	08/05/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	345	10/02/2013	Sample	**3.1**	–	–	–	–	–	–	–	–	–	–
	395	10/02/2013	Sample	**2.5**	–	–	–	–	–	–	–	–	–	–
	500	10/02/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	555	10/02/2013	Sample	–	–	–	–	–	–	**28.5 J**	–	–	–	–
	725	10/02/2013	Sample	–	–	–	–	–	–	–	–	–	–	–
	345	06/09/2014	Sample	**2.9 J**	–	–	–	–	–	–	–	–	–	–
	345	06/09/2014	Duplicate	**2.7 J**	–	–	–	–	–	–	–	–	–	–
	395	06/09/2014	Sample	**2.3 J**	–	–	–	–	–	–	–	–	–	–
	500	06/09/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	555	06/09/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	725	06/09/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	345	08/14/2014	Sample	**3.2**	–	–	–	–	–	–	–	–	–	–
	395	08/14/2014	Sample	**3.5**	–	–	–	–	–	–	–	–	–	–
	500	08/14/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	555	08/14/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	725	08/14/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	725	08/14/2014	Duplicate	–	–	–	–	–	–	–	–	–	–	–
	345	07/29/2015	Sample	**3.1**	–	–	**0.29 J**	–	–	–	–	–	–	–
	395	07/29/2015	Sample	**5.7**	–	–	–	–	–	–	–	–	–	–
	500	07/29/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	555	07/29/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	725	07/29/2015	Sample	**1.4**	–	–	–	–	–	–	–	–	–	–
	345	07/18/2016	Sample	**2.9**	–	–	–	–	–	–	–	–	–	–
	395	07/18/2016	Sample	**7.3 a**	–	–	–	–	–	–	–	–	–	–
	500	07/18/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	555	07/14/2016	Sample	–	–	–	–	–	–	–	–	**0.66 J**	–	–
	725	07/14/2016	Sample	**1**	–	–	–	–	–	–	–	**1.5**	–	–

Table 4-2
Groundwater Analytical Results Summary
Rockets, Fireworks, and Flares Superfund Site, San Bernardino County, California

	Depth	Sample Date	CA MCL (a)	Perchlorate (µg/L) 6	1,2-Dichloroethane (µg/L) 0.5	Benzene (µg/L) 1	Chloroform (µg/L) 80	Chloromethane (µg/L) –	cis-1,2-Dichloroethene (µg/L) 6	Isopropanol (µg/L) –	Tetrachloroethene (µg/L) 5	Toluene (µg/L) 150	Trichloroethene (µg/L) 5	Trichlorofluoro-methane (µg/L) 150
PW-13	340	09/17/2014	Sample	**6.4 a**	–	–	–	–	–	**18 J**	–	–	**0.2 J**	–
	340	09/17/2014	Duplicate	**6.3 a**	–	–	–	–	–	–	–	–	**0.22 J**	–
	395	09/17/2014	Sample	**2.1**	–	–	–	–	–	–	–	–	–	–
	475	09/17/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	525	09/17/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	615	09/17/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	340	11/20/2014	Sample	**8.6 a**	–	–	–	–	–	–	–	–	–	–
	395	11/20/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	475	11/20/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	525	11/20/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	615	11/20/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	340	07/31/2015	Sample	**9.4 a**	–	–	–	–	–	–	–	–	–	–
	395	07/31/2015	Sample	**3.9**	–	–	–	–	–	–	–	–	–	–
	475	07/31/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	475	07/31/2015	Duplicate	–	–	–	–	–	–	–	–	–	–	–
	525	07/31/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	615	07/31/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	340	10/13/2015	Sample	**9.5 a**	–	–	–	–	–	–	–	–	–	–
	395	10/13/2015	Sample	**5.6**	–	–	–	–	–	–	–	–	–	–
	475	10/13/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	525	10/13/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	615	10/13/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	340	07/12/2016	Sample	**8.5 a**	–	–	–	–	–	–	–	–	–	–
	395	07/12/2016	Sample	**6.2 a**	–	–	–	–	–	**13 J**	–	–	–	–
	475	07/12/2016	Sample	–	–	–	–	–	–	–	–	–	–	–
	525	07/12/2016	Sample	**1.3**	–	–	–	–	–	–	–	–	–	–
	615	07/12/2016	Sample	–	–	–	–	–	–	**6.7 J**	–	–	–	–
PW-14	300	09/18/2014	Sample	–	–	–	–	–	–	–	–	**0.39 J**	–	–
	365	09/18/2014	Sample	**15.3 a**	–	–	–	–	–	**38.6 J**	–	–	–	–
	425	09/18/2014	Sample	**39.4 a**	–	–	–	–	–	–	–	–	**0.93 J**	–
	525	09/18/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	605	09/18/2014	Sample	–	–	–	–	–	–	–	–	–	–	–
	300	11/20/2014	Sample	–	–	–	–	–	–	–	–	**0.21 J**	–	–
	365	11/20/2014	Sample	**18.2 a**	–	–	–	–	–	–	–	–	–	–
	365	11/20/2014	Duplicate	**18.6 a**	–	–	–	–	–	–	–	–	–	–
	425	11/20/2014	Sample	**42 a**	–	–	–	–	–	**5.7 J**	–	–	**0.68 J**	–
	525	11/20/2014	Sample	–	–	–	–	–	–	**9.7 J**	–	–	–	–
	605	11/20/2014	Sample	–	–	–	–	–	–	**6 J**	–	–	–	–
	300	07/24/2015	Sample	**8.1 a**	–	–	–	–	–	–	–	–	–	–
	365	07/24/2015	Sample	**16.5 a**	–	–	–	–	–	–	–	–	–	–
	425	07/24/2015	Sample	**47.5 a**	–	–	–	–	–	**6.4 J**	–	–	**0.69 J**	–
	525	07/24/2015	Sample	**1.2**	–	–	–	–	–	**5.2 J**	–	–	–	–
	605	07/24/2015	Sample	–	–	–	–	–	–	**6.1 J**	–	–	–	–
	300	10/12/2015	Sample	**9.7 a**	–	–	–	–	–	–	–	–	–	–
	300	10/12/2015	Duplicate	**10.2 a**	–	–	–	–	–	–	–	–	–	–
	365	10/12/2015	Sample	**18.6 a**	–	–	–	–	–	–	–	–	–	–
	425	10/12/2015	Sample	**49.7 a**	–	–	–	–	–	–	–	–	**0.91 J**	–
	525	10/12/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	605	10/12/2015	Sample	–	–	–	–	–	–	–	–	–	–	–
	300	07/11/2016	Sample	**7 a**	–	–	–	–	–	–	–	–	–	–
	365	07/11/2016	Sample	**18.5 a**	–	–	–	–	–	–	–	–	–	–
	425	07/11/2016	Sample	**45.5 a**	–	–	–	–	–	–	–	–	**0.62 J**	–
	425	07/11/2016	Duplicate	**42.7 a**	–	–	–	–	–	–	–	–	**0.49 J**	–
	525	07/11/2016	Sample	**0.96 J**	–	–	–	–	–	–	–	–	–	–
	605	07/11/2016	Sample	**1.3**	–	–	–	–	–	–	–	–	–	–

Notes:
CA MCL - California maximum contaminant level
µg/L = micrograms per liter
J Estimated Value
– = Non-detect
* = Samples Collected with Double Check Valve Bailer
** = Samples Collected with HydraSleeve
NA = Not Analyzed
N = Not Sampled Due to Container Breakage
a = Exceedances of California MCL



1S/5W-3A5S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
670	1.3	ND

1S/5W-3A6S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
510	248 a	17.6 a

1S/5W-3A7S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
410	3.1	ND

EPA-MP3

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
457	12.4 a	ND
592	2.5	ND
687	2	ND
814	ND	ND
899	ND	ND

PW-9

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
412	1.6	ND
482	555 a	12.7 a
562	29.2 a	0.76 J
648	ND	ND
718	ND	ND
808	ND	ND

PW-10

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
360	9.2 a	ND
460	339 a	13.1 a
545	ND	ND
605	1.5	ND
745	1	ND

EPA-MP6

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
355	27.7 a	ND
449	3.8	ND
573	4.5	ND
659	ND	ND
765	ND	ND

PW-11

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
355	22.3 a	0.54 J
450	18.2 a	ND
560	0.94 J	ND
695	0.83 J	ND
750	0.87 J	ND

EPA-MP7

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
357	6.9 a	ND
433	5.4	ND
508	3	ND
588	0.95 J	ND
701	ND	ND

EPA-MP5

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
357	2.4	ND
412	5.1	ND
507	1.1	ND
630	0.99 J	ND
740	ND	ND

PW-12

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
345	2.9	ND
395	7.3 a	ND
500	ND	ND
555	ND	ND
725	1	ND

CPW-16

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
295	19.9 a	ND
378	87.8 a	1.8
417	134 a	2.6
513	0.77 J	ND
638	ND	ND
718	1.3	ND
753	1.7	ND

1S/4W-8E1S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
980	1.4	ND

1S/4W-8E2S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
760	ND	ND

1S/4W-8E3S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
587	ND	ND

1S/4W-8E4S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
320	3.3	ND

EPA-MP2

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
350	3	ND
410	9.2 a	ND
510	1.2	ND
614	ND	ND
714	ND	ND
764	ND	ND

EPA-MP1 (October 2016)

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
366	7.7 a	ND
462	8.7 a	ND
562	1.1	ND
732	0.22 J	ND
797	0.044 J	ND

PW-13

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
340	8.5 a	ND
395	6.2 a	ND
475	ND	ND
525	1.3	ND
615	ND	ND

1S/5W-11F1S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
940	ND	ND

1S/5W-11F3S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
432	ND	ND

1S/5W-11F4S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
320	2.4	ND

EPA-MP8

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
347	0.88 J	ND
397	ND	ND
492	0.87 J	ND
607	2.4	ND
722	ND	ND

PW-14

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
300	ND	ND
365	18.5 a	ND
425	45.5 a	ND
525	0.96 J	ND
605	1.3	ND

1S/5W-13B2S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
685	0.89 J	ND

CPW-17

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
313	2.8	ND
413	1.7	ND
503	0.83 J	ND
563	0.94 J	ND
612	1.1	ND
712	1.4	ND

1S/5W-13B3S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
550	2	ND

1S/5W-13B4S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
430	4.4	ND

1S/5W-13B5S

Interval (ft/bgs)	Perchlorate (µg/l)	TCE (µg/l)
280	2	ND

FIGURE 4-2
GROUNDWATER CONCENTRATION SUMMARY MAP
JULY AND OCTOBER 2016
MONITORING WELL SAMPLING REPORT
ROCKETS, FIREWORKS, AND
FLARES SUPERFUND SITE
SAN BERNARDINO COUNTY, CALIFORNIA

Legend

Existing Monitoring Well

NOTES:

- J = Estimated Value
- (ft/bgs) = Feet Below Ground Surface
- µg/l = micrograms per liter
- NS = Not Sampled
- Values in RED indicate exceedance
- a = Result is above California MCL
- ND = Not Detected

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5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the analytical results of the 2016 groundwater sampling event, it appears that the southern extent of the Site-related, synthetic perchlorate MCL exceedances are delineated to the west by wells PW-12 (which had a slight exceedance of the perchlorate MCL in one interval) and 1S/5W-13B. To the east, the extent of the Site-related synthetic perchlorate MCL exceedances are delineated (approximately) by the location of well EPA-MP7, which contains intermittent perchlorate concentrations slightly above the MCL in the shallowest two intervals, and to the south by CPW-17. Although perchlorate has been detected in Colton-15 at low concentrations since 2008 and now occasionally exceeds the MCL (City of Colton Public Utilities 2016), an isotopic evaluation of perchlorate sources in the RCB (ESTCP 2015) concluded that the perchlorate in this well is predominately non-synthetic and therefore not Site-related. The southern boundary of the Site-related, synthetic perchlorate MCL exceedances appears to be located between PW-14 and Colton-17. Recent perchlorate concentrations in Colton-17 have ranged from slight below to slight above the MCL of 6 µg/L. Isotopic analysis of perchlorate detected in Colton-17 indicates the source is a mixture of synthetic and non-synthetic sources (EnSafe 2016). The approximate extent of synthetic perchlorate in groundwater at concentrations above the MCL is presented in Figure 5-1.

A new monitoring well (PW-15) will be installed in October 2016 approximately 500 feet southeast of Colton-17 to confirm the downgradient delineation of perchlorate. Annual groundwater monitoring will continue through completion of the Remedial Investigation/Feasibility Study.

The extent of TCE MCL exceedances appears to be significantly more limited than the perchlorate MCL exceedances and restricted to monitoring wells 1S/5W-3A, PW-9, and PW-10. PW-10 is the furthest downgradient well that contains TCE above the MCL. The extent of TCE in groundwater has been defined and further delineation does not appear warranted.

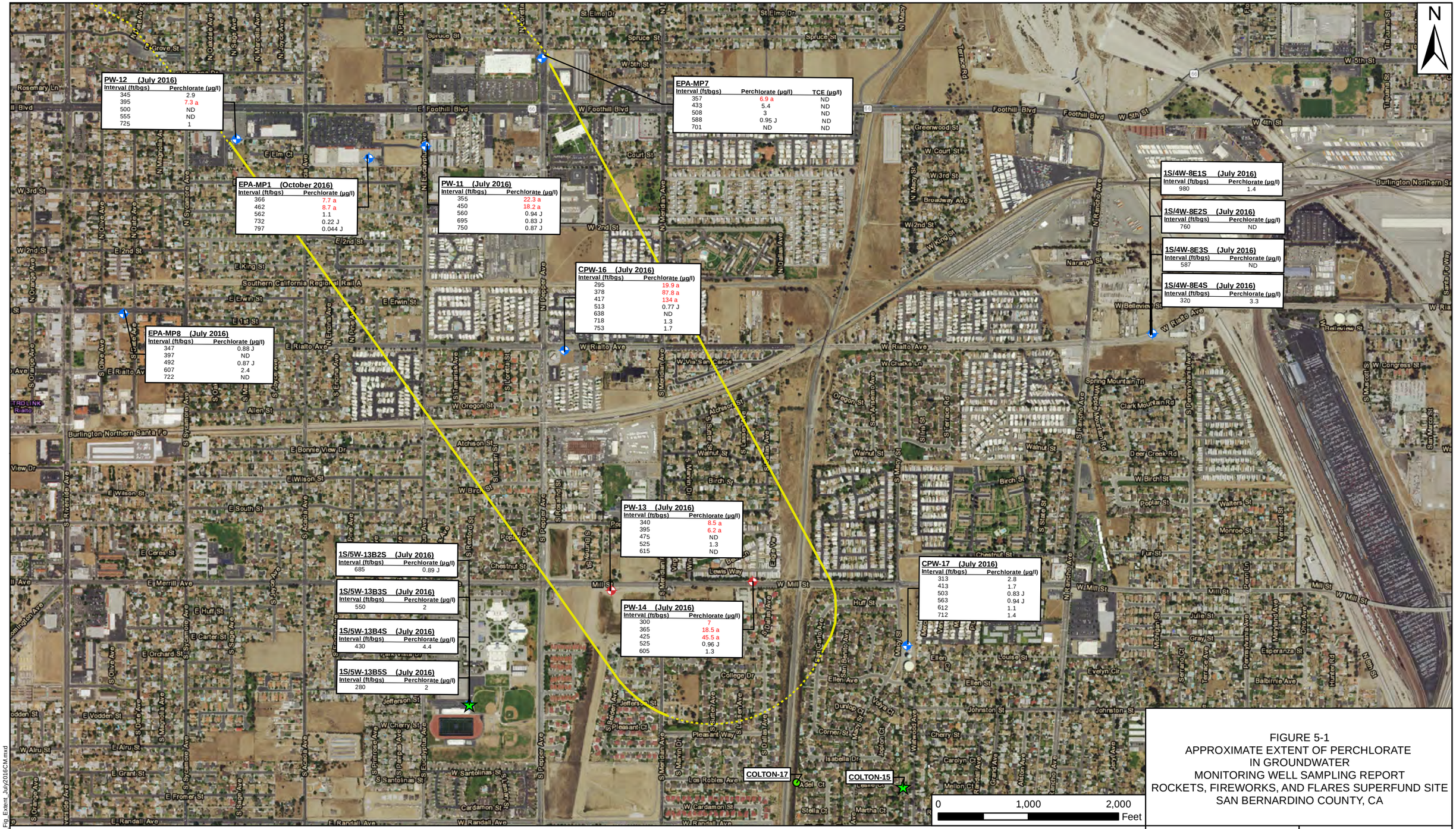

FIGURE 5-1
APPROXIMATE EXTENT OF PERCHLORATE
IN GROUNDWATER
MONITORING WELL SAMPLING REPORT
ROCKETS, FIREWORKS, AND FLARES SUPERFUND SITE
SAN BERNARDINO COUNTY, CA

Perchlorate with Non-Synthetic Signature
City of Colton Production Well
Existing Monitoring Wells
Recently Installed Monitoring Wells
Approximate Extent of Synthetic Perchlorate in Groundwater Above MCL
Uncertain Extent of Perchlorate in Groundwater Above MCL

NOTES:

- J = Estimated Value
- (ft/bgs) = Feet Below Ground Surface
- µg/l = micrograms per liter
- NS = Not Sampled
- Values in RED indicate exceedance
- a = Result is above California MCL
- ND = Not Detected

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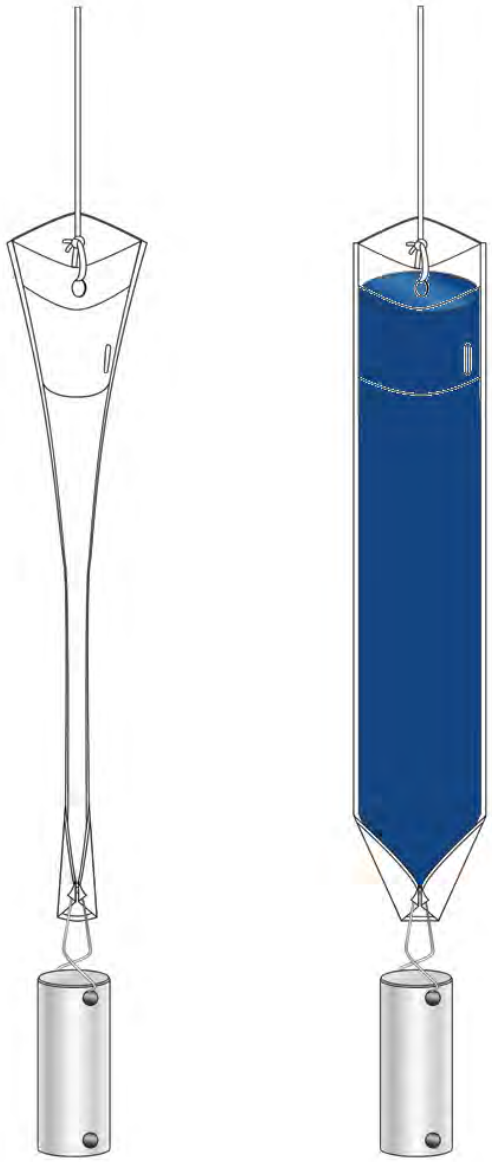
Appendix A
Well Sampling Standard Operating Procedures

HYDRASleeve™

Simple by Design US Patent No. 6,481,300; No. 6,837,120 others pending

Standard Operating Procedure: Sampling Ground Water with a HydraSleeve



This Guide should be used in addition to field manuals appropriate to sampling device (i.e., HydraSleeve or Super Sleeve).

Find the appropriate field manual on the HydraSleeve website at http://www.hydrasleeve.com.

For more information about the HydraSleeve, or if you have questions, contact: GeoInsight, 2007 Glass Road, Las Cruces, NM 88005, 1-800-996-2225, info@hydrasleeve.com.

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Introduction

The HydraSleeve is classified as a no-purge (passive) grab sampling device, meaning that it is used to collect ground-water samples directly from the screened interval of a well without having to purge the well prior to sample collection. When it is used as described in this Standard Operating Procedure (SOP), the HydraSleeve causes no drawdown in the well (until the sample is withdrawn from the water column) and only minimal disturbance of the water column, because it has a very thin cross section and it displaces very little water (<100 ml) during deployment in the well. The HydraSleeve collects a sample from within the screen only, and it excludes water from any other part of the water column in the well through the use of a self-sealing check valve at the top of the sampler. It is a single-use (disposable) sampler that is not intended for reuse, so there are no decontamination requirements for the sampler itself.

The use of no-purge sampling as a means of collecting representative ground-water samples depends on the natural movement of ground water (under ambient hydraulic head) from the formation adjacent to the well screen through the screen. Robin and Gillham (1987) demonstrated the existence of a dynamic equilibrium between the water in a formation and the water in a well screen installed in that formation, which results in formation-quality water being available in the well screen for sampling at all times. No-purge sampling devices like the HydraSleeve collect this formation-quality water as the sample, under undisturbed (non-pumping) natural flow conditions. Samples collected in this manner generally provide more conservative (i.e., higher concentration) values than samples collected using well-volume purging, and values equivalent to samples collected using low-flow purging and sampling (Parsons, 2005).

Applications of the HydraSleeve

The HydraSleeve can be used to collect representative samples of ground water for all analytes (volatile organic compounds [VOCs], semi-volatile organic compounds [SVOCs], common metals, trace metals, major cations and anions, dissolved gases, total dissolved solids, radionuclides, pesticides, PCBs, explosive compounds, and all other analytical parameters). Designs are available to collect samples from wells from 1” inside diameter and larger. The HydraSleeve can collect samples from wells of any yield, but it is especially well-suited to collecting samples from low-yield wells, where other sampling methods can’t be used reliably because their use results in dewatering of the well screen and alteration of sample chemistry (McAlary and Barker, 1987).

The HydraSleeve can collect samples from wells of any depth, and it can be used for single-event sampling or long-term ground-water monitoring programs. Because of its thin cross section and flexible construction, it can be used in narrow, constricted or damaged wells where rigid sampling devices may not fit. Using multiple HydraSleeves deployed in series along a single suspension line or tether, it is also possible to conduct in-well vertical profiling in wells in which contaminant concentrations are thought to be stratified.

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As with all groundwater sampling devices, HydraSleeves should not be used to collect groundwater samples from wells in which separate (non-aqueous) phase hydrocarbons (i.e., gasoline, diesel fuel or jet fuel) are present because of the possibility of incorporating some of the separate-phase hydrocarbon into the sample.

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Description of the HydraSleeve

The HydraSleeve (Figure 1) consists of the following basic components:

- A suspension line or tether (A.), attached to the spring clip or directly to the top of the sleeve to deploy the device into and recover the device from the well. Tethers with depth indicators marked in 1-foot intervals are available from the manufacturer.
- A long, flexible, 4-mil thick lay-flat polyethylene sample sleeve (C.) sealed at the bottom (this is the sample chamber), which comes in different sizes, as discussed below with a self-sealing reed-type flexible polyethylene check valve built into the top of the sleeve (B.) to prevent water from entering or exiting the sampler except during sample acquisition.
- A reusable stainless-steel weight with clip (D.), which is attached to the bottom of the sleeve to carry it down the well to its intended depth in the water column. Bottom weights available from the manufacturer are 0.75” OD and are available in three sizes: 5 oz. (2.5” long); 8 oz. (4” long); and 16 oz. (8” long). In lieu of a bottom weight, an optional top weight may be attached to the top of the HydraSleeve to carry it to depth and to compress it at the bottom of the well (not shown in Figure 1);
- A discharge tube that is used to puncture the HydraSleeve after it is recovered from the well so the sample can be decanted into sample bottles (not shown).
- Just above the self-sealing check valve at the top of the sleeve are two holes which provide attachment points for the spring clip and/or suspension line or tether. At the bottom of the sample sleeve are two holes which provide attachment points for the weight clip and weight.

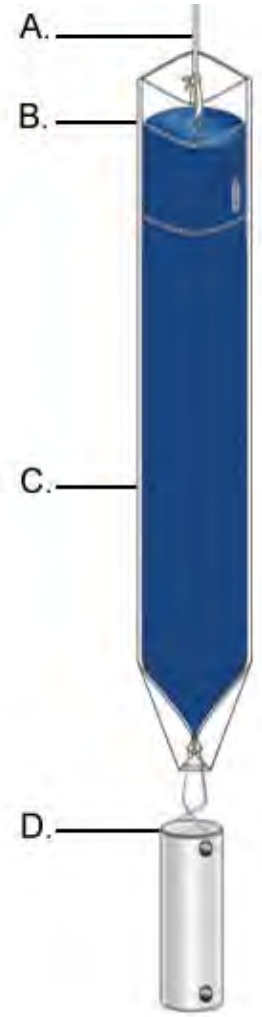

Figure 1. HydraSleeve components.

Note: The sample sleeve and the discharge tube are designed for one-time use and are disposable. The spring clip, weight and weight clip may be reused after thorough cleaning. Suspension cord is generally disposed after one use although, if it is dedicated to the well, it may be reused at the discretion of the sampling personnel.

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Selecting the HydraSleeve Size to Meet Site-Specific Sampling Objectives

It is important to understand that each HydraSleeve is able to collect a finite volume of sample because, after the HydraSleeve is deployed, you only get one chance to collect an undisturbed sample. Thus, the volume of sample required to meet your site-specific sampling and analytical requirements will dictate the size of HydraSleeve you need to meet these requirements.

The volume of sample collected by the HydraSleeve varies with the diameter and length of the HydraSleeve. Dimensions and volumes of available HydraSleeve models are detailed in Table 1.

Table 1. Dimensions and volumes of HydraSleeve models.

Diameter	Volume	Length	Lay-Flat Width	Filled Dia.
2-Inch HydraSleeves				
Standard 625-ml HydraSleeve	625 ml	< 30”	2.5”	1.4”
Standard 1-Liter HydraSleeve	1 Liter	38”	3”	1.9”
1-Liter HydraSleeve SS	1 Liter	36”	3”	1.9”
2-Liter HydraSleeve SS	2 Liters	60”	3”	1.9”
4-Inch HydraSleeves				
Standard 1.6-Liter HydraSleeve	1.6 Liters	30”	3.8”	2.3”
Custom 2-Liter HydraSleeve	2 Liters	36”	4”	2.7”

HydraSleeves can be custom-fabricated by the manufacturer in varying diameters and lengths to meet specific volume requirements. HydraSleeves can also be deployed in series (i.e., multiple HydraSleeves attached to one tether) to collect additional sample to meet specific volume requirements, as described below.

If you have questions regarding the availability of sufficient volume of sample to satisfy laboratory requirements for analysis, it is recommended that you contact the laboratory to discuss the minimum volumes needed for each suite of analytes. Laboratories often require only 10% to 25% of the volume they specify to complete analysis for specific suites of analytes, so they can often work with much smaller sample volumes that can easily be supplied by a HydraSleeve.

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HydraSleeve Deployment

Information Required Before Deploying a HydraSleeve

Before installing a HydraSleeve in any well, you will need to know the following:

- The inside diameter of the well
- The length of the well screen
- The water level in the well
- The position of the well screen in the well
- The total depth of the well

The inside diameter of the well is used to determine the appropriate HydraSleeve diameter for use in the well. The other information is used to determine the proper placement of the HydraSleeve in the well to collect a representative sample from the screen (see HydraSleeve Placement, below), and to determine the appropriate length of tether to attach to the HydraSleeve to deploy it at the appropriate position in the well.

Most of this information (with the exception of the water level) should be available from the well log; if not, it will have to be collected by some other means. The inside diameter of the well can be measured at the top of the well casing, and the total depth of the well can be measured by sounding the bottom of the well with a weighted tape. The position and length of the well screen may have to be determined using a down-hole camera if a well log is not available. The water level in the well can be measured using any commonly available water-level gauge.

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HydraSleeve Placement

The HydraSleeve is designed to collect a sample directly from the well screen, and it fills by pulling it up through the screen a distance equivalent to 1 to 1.5 times its length. This upward motion causes the top check valve to open, which allows the device to fill. To optimize sample recovery, it is recommended that the HydraSleeve be placed in the well so that the bottom weight rests on the bottom of the well and the top of the HydraSleeve is as close to the bottom of the well screen as possible. This should allow the sampler to fill before the top of the device reaches the top of the screen as it is pulled up through the water column, and ensure that only water from the screen is collected as the sample. In short-screen wells, or wells with a short water column, it may be necessary to use a top-weight on the HydraSleeve to compress it in the bottom of the well so that, when it is recovered, it has room to fill before it reaches the top of the screen.

Example

2” ID PVC well, 50’ total depth, 10’ screen at the bottom of the well, with water level above the screen (the entire screen contains water).

Correct Placement (figure 2): Using a standard HydraSleeve for a 2” well (2.6” flat width/1.5” filled OD x 30” long, 650 ml volume), deploy the sampler so the weight (an 8 oz., 4”-long weight with a 2”-long clip) rests at the bottom of the well. The top of the sleeve is thus set at about 36” above the bottom of the well. When the sampler is recovered, it will be pulled upward approximately 30” to 45” before it is filled; therefore, it is full (and the top check valve closes) at approximately 66” (5 ½ feet) to 81” (6 ¾ feet) above the bottom of the well, which is well before the sampler reaches the top of the screen. In this example, only water from the screen is collected as a sample.

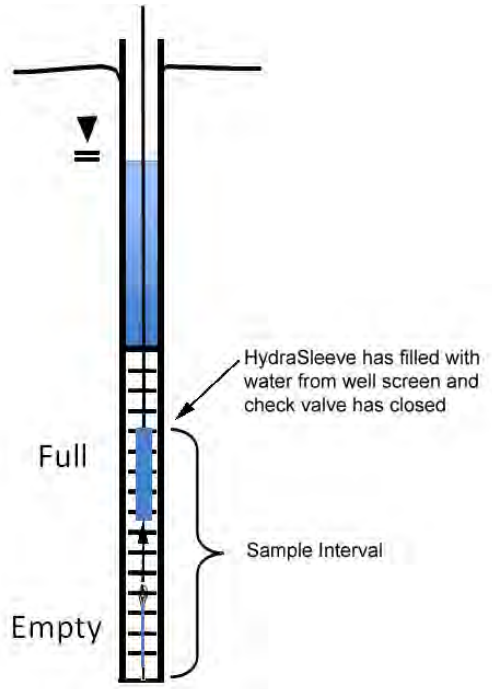

Figure 2. Correct placement of HydraSleeve.

Incorrect Placement (figure 3): If the well screen in this example was only 5' long, and the HydraSleeve was placed as above, it would not fill before the top of the device reached the top of the well screen, so the sample would include water from above the screen, which may not have the same chemistry.

The solution? Deploy the HydraSleeve with a top weight, so that it is collapsed to within 6" to 9" of the bottom of the well. When the HydraSleeve is recovered, it will fill within 39" (3 ¼ feet) to 54" (4 ½ feet) above the bottom of the well, or just before the sampler reaches the top of the screen, so it collects only water from the screen as the sample.

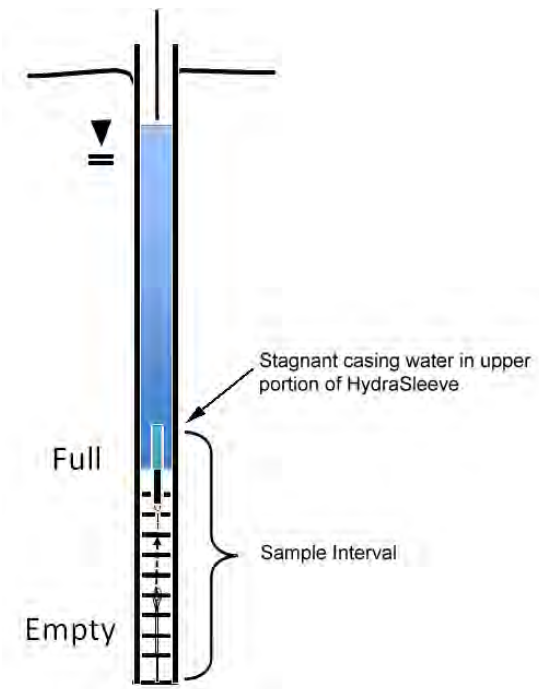

Figure 3. Incorrect placement of HydraSleeve.

This example illustrates one of many types of HydraSleeve placements. More complex placements are discussed in a later section.

Procedures for Sampling with the HydraSleeve

Collecting a ground-water sample with a HydraSleeve is a simple one-person operation.

Note: Before deploying the HydraSleeve in the well, collect the depth-to-water measurement that you will use to determine the preferred position of the HydraSleeve in the well. This measurement may also be used with measurements from other wells to create a ground-water contour map. If necessary, also measure the depth to the bottom of the well to verify actual well depth to confirm your decision on placement of the HydraSleeve in the water column.

Measure the correct amount of tether needed to suspend the HydraSleeve in the well so that the weight will rest on the bottom of the well (or at your preferred position in the well). Make sure to account for the need to leave a few feet of tether at the top of the well to allow recovery of the sleeve

Note: Always wear sterile gloves when handling and discharging the HydraSleeve.

I. Assembling the HydraSleeve

1. Remove the HydraSleeve from its packaging, unfold it, and hold it by its top.
2. Crimp the top of the HydraSleeve by folding the hard polyethylene reinforcing strips at the holes.
3. Attach the spring clip to the holes to ensure that the top will remain open until the sampler is retrieved.
4. Attach the tether to the spring clip by tying a knot in the tether.

Note: Alternatively, attach the tether to one (NOT both) of the holes at the top of the Hydrasleeve by tying a knot in the tether.

5. Fold the flaps with the two holes at the bottom of the HydraSleeve together and slide the weight clip through the holes.
6. Attach a weight to the bottom of the weight clip to ensure that the HydraSleeve will descend to the bottom of the well.

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II. Deploying the HydraSleeve

1. Using the tether, carefully lower the HydraSleeve to the bottom of the well, or to your preferred depth in the water column

   During installation, hydrostatic pressure in the water column will keep the self-sealing check valve at the top of the HydraSleeve closed, and ensure that it retains its flat, empty profile for an indefinite period prior to recovery.

Note: Make sure that it is not pulled upward at any time during its descent. If the HydraSleeve is pulled upward at a rate greater than 0.5'/second at any time prior to recovery, the top check valve will open and water will enter the HydraSleeve prematurely.

2. Secure the tether at the top of the well by placing the well cap on the top of the well casing and over the tether.

Note: Alternatively, you can tie the tether to a hook on the bottom of the well cap (you will need to leave a few inches of slack in the line to avoid pulling the sampler up as the cap is removed at the next sampling event).

III. Equilibrating the Well

The equilibration time is the time it takes for conditions in the water column (primarily flow dynamics and contaminant distribution) to restabilize after vertical mixing occurs (caused by installation of a sampling device in the well).

- Situation: The HydraSleeve is deployed for the first time or for only one time in a well

  The HydraSleeve is very thin in cross section and displaces very little water (<100 ml) during deployment so, unlike most other sampling devices, it does not disturb the water column to the point at which long equilibration times are necessary to ensure recovery of a representative sample.

  In most cases, the HydraSleeve can be recovered immediately (with no equilibration time) or within a few hours. In regulatory jurisdictions that impose specific requirements for equilibration times prior to recovery of no-purge sampling devices, these requirements should be followed.

- Situation: The HydraSleeve is being deployed for recovery during a future sampling event

  In periodic (i.e., quarterly or semi-annual) sampling programs, the sampler for the current sampling event can be recovered and a new sampler (for the next sampling event)

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deployed immediately thereafter, so the new sampler remains in the well until the next sampling event.

Thus, a long equilibration time is ensured and, at the next sampling event, the sampler can be recovered immediately. This means that separate mobilizations, to deploy and then to recover the sampler, are not required. HydraSleeves can be left in a well for an indefinite period of time without concern.

IV. HydraSleeve Recovery and Sample Collection

1. Hold on to the tether while removing the well cap.

2. Secure the tether at the top of the well while maintaining tension on the tether (but without pulling the tether upwards)

3. Measure the water level in the well.

4. In one smooth motion, pull the tether up between 30” to 45” (36” to 54” for the longer HydraSleeve) at a rate of about 1’ per second (or faster).

   The motion will open the top check valve and allow the HydraSleeve to fill (it should fill in about 1 to 1.5 times the length of the HydraSleeve). This is analogous to coring the water column in the well from the bottom up.

   When the HydraSleeve is full, the top check valve will close. You should begin to feel the weight of the HydraSleeve on the tether and it will begin to displace water. The closed check valve prevents loss of sample and entry of water from zones above the well screen as the HydraSleeve is recovered.

5. Continue pulling the tether upward until the HydraSleeve is at the top of the well.

6. Decant and discard the small volume of water trapped in the Hydrasleeve above the check valve by turning the sleeve over.

V. Sample Collection

Note: Sample collection should be done immediately after the HydraSleeve has been brought to the surface to preserve sample integrity.

1. Remove the discharge tube from its sleeve.

2. Hold the HydraSleeve at the check valve.

3. Puncture the HydraSleeve just below the check valve with the pointed end of the discharge tube

4. Discharge water from the HydraSleeve into your sample containers.

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Control the discharge from the HydraSleeve by either raising the bottom of the sleeve, by squeezing it like a tube of toothpaste, or both.

5. Continue filling sample containers until all are full.

Measurement of Field Indicator Parameters

Field indicator parameter measurement is generally done during well purging and sampling to confirm when parameters are stable and sampling can begin. Because no-purge sampling does not require purging, field indicator parameter measurement is not necessary for the purpose of confirming when purging is complete.

If field indicator parameter measurement is required to meet a specific non-purging regulatory requirement, it can be done by taking measurements from water within a HydraSleeve that is not used for collecting a sample to submit for laboratory analysis (i.e., a second HydraSleeve installed in conjunction with the primary sample collection HydraSleeve [see Multiple Sampler Deployment below]).

Alternate Deployment Strategies

Deployment in Wells with Limited Water Columns

For wells in which only a limited water column exists to be sampled, the HydraSleeve can be deployed with an optional top weight instead of a bottom weight, which collapses the HydraSleeve to a very short (approximately 6” to 9”) length, and allows the HydraSleeve to fill in a water column only 36” to 45” in height.

Multiple Sampler Deployment

Multiple sampler deployment in a single well screen can accomplish two purposes:

- It can collect additional sample volume to satisfy site or laboratory-specific sample volume requirements.
- It can accommodate the need for collecting field indicator parameter measurements.
- It can be used to collect samples from multiple intervals in the screen to allow identification of possible contaminant stratification.

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It is possible to use up to 3 standard 30” HydraSleeves deployed in series along a single tether to collect samples from a 10’ long well screen without collecting water from the interval above the screen.

The samplers must be attached to the tether at both the top and bottom of the sleeve. Attach the tether at the top with a stainless-steel clip (available from the manufacturer). Attach the tether at the bottom using a cable tie. The samplers must be attached as follows (figure 4):

- The first (attached to the tether as described above, with the weight at the bottom) at the bottom of the screen
- The second attached immediately above the first
- The third (attached the same as the second) immediately above the second

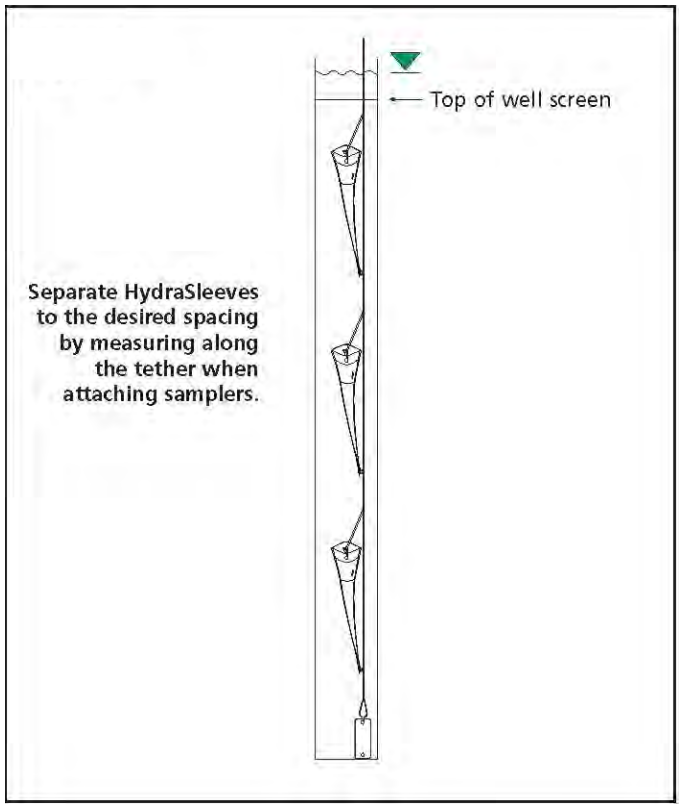

Figure 4. Multiple HydraSleeve deployment.

Alternately, the first sampler can be attached to the tether as described above, a second attached to the bottom of the first using a short length of tether (in place of the weight), and the third attached to the bottom of the second in the same manner, with the weight attached to the bottom of the third sampler (figure 5).

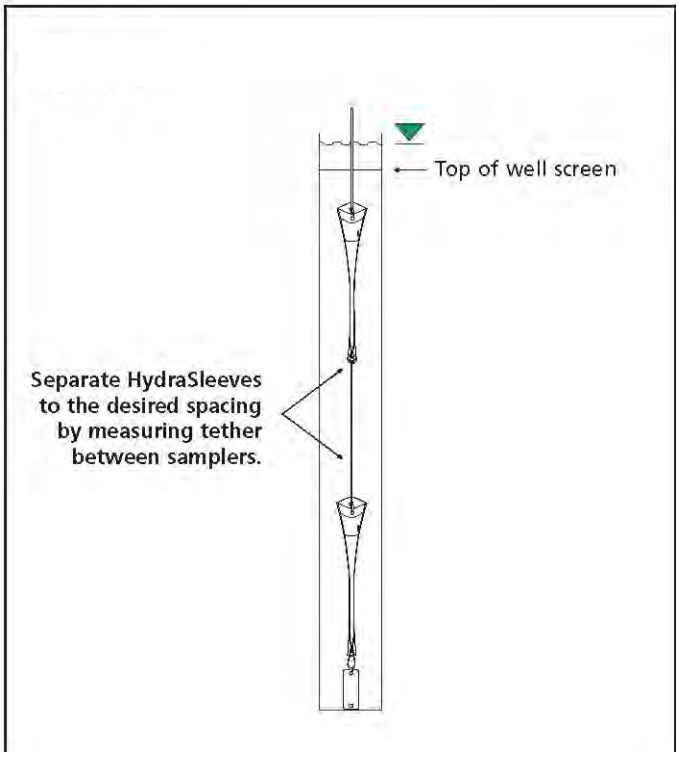

Figure 5. Alternative method for deploying multiple HydraSleeves.

In either case, when attaching multiple HydraSleeves in series, more weight may be required to hold the samplers in place in the well than would be required with a single sampler. Recovery of multiple samplers and collection of samples is done in the same manner as for single sampler deployments.

Post-Sampling Activities

The recovered HydraSleeve and the sample discharge tubing should be disposed as per the solid waste management plan for the site. To prepare for the next sampling event, a new HydraSleeve can be deployed in the well (as described previously) and left in the well until the next sampling event, at which time it can be recovered.

The weight and weight clip can be reused on this sampler after they have been thoroughly cleaned as per the site equipment decontamination plan. The tether may be dedicated to the well and reused or discarded at the discretion of sampling personnel.

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References

McAlary, T. A. and J. F. Barker, 1987, Volatilization Losses of Organics During Ground-Water Sampling From Low-Permeability Materials, Ground-Water Monitoring Review, Vol. 7, No. 4, pp. 63-68

Parsons, 2005, Results Report for the Demonstration of No-Purge Ground-Water Sampling Devices at Former McClellan Air Force Base, California; Contract F44650-99-D-0005, Delivery Order DKO1, U.S. Army Corps of Engineers (Omaha District), U.S. Air Force Center for Environmental Excellence, and U.S. Air Force Real Property Agency

Robin, M. J. L. and R. W. Gillham, 1987, Field Evaluation of Well Purging Procedures, Ground-Water Monitoring Review, Vol. 7, No. 4, pp. 85-93

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Blaine Tech Services, Inc.
Standard Operating Procedure

WESTBAY PRESSURE PROFILING AND SAMPLING

- **Decon Proceedure**
  - A series of four wash buckets will be setup to facilitate the decontamination procedure. The first bucket or wash will consist of a rinse with tap water and a laboratory-grade detergent (Alconox® or equivalent). The second wash will consist of a secondary rinse with tap water and no detergent. The third wash will consist of a rinse with commercially available deionized or distilled water. The fourth stage in the decontamination process will be a rinse with DI water. Once this final stage in the process is completed, the sampling equipment will be allowed to air dry briefly prior to reuse.

  - The sample intake valve and chamber on the Westbay® MP probe will be sprayed with deionized water only, so as to not compromise the integrity of the inner-pressure transducer.

- **Pressure Profiling:**
  - The multiport wells have discrete/isolated sampling ports at various depths throughout their lengths. Pressure measurements from the measurement ports will be used to calculate the depth to water in the multiport wells using Westbay® Method A, as recommended by the manufacturer:

$$H = -D + (P2-P_{atm})*2.307 \text{ ft/psi}$$

Where:

H = depth to water

D = depth to measurement port

P_{atm} = atmospheric pressure

P2 = pressure measured in the measurement port

The groundwater elevation at each port will be calculated from the depth to water and the elevation of the measurement datum (ground surface elevation):

$$GW_{elev} = G_s – H$$

Where:

GW_{elev} = ground water elevation

G_s = ground surface elevation (measurement datum)

H = depth to water calculated by Method A (described above)

- Prior to collecting groundwater samples, barometric pressure, temperature and will be taken at the surface with the MODAX Sampler prior to collecting measurements in the well. Also, depth-to-water inside the Westbay casing will be measured with an electronic sounder.

- Surface checks will be completed to confirm that the probe activation motor and sampler valve motor are operating properly, and that there are no leaks through the sampler valve or the connectors between the sampler and the sample containers. The surface check procedure is repeated each time the sampler is to be lowered into the well.

- Using the casing log as a reference, the sample probe will be lowered to the lowest measurement port coupling to be monitored. Once the probe rests at the measurement port, the pressure and temperature inside the Westbay casing will be measured. After recording these readings, the shoe will be activated and the formation pressure measured by the probe. When readings have stabilized and been recorded, the shoe will be retracted and a second pressure reading taken inside the Westbay casing. This reading should be similar to first reading. The three pressure readings, temperature reading, and time constitute a complete set of readings at the measurement port coupling.

- The sampler will then move the sampler up the Westbay casing to obtain pressure data from other measurement ports.

- One last set of pressure and temperature readings will be taken at the surface after pressure profiling in the well has been completed. These readings should be similar to those readings taken prior to measuring pressures in the well.

- **Sampling Procedure:**
  - Prior to collecting groundwater samples, barometric pressure, temperature and will be taken at the surface with the MODAX Sampler prior to collecting measurements in the well. Also, depth-to-water inside the Westbay casing will be measured with an electronic sounder.

  - Surface checks will be completed to confirm that the probe activation motor and sampler valve motor are operating properly, and that there are no leaks through the sampler valve or the connectors between the sampler and the sample containers. The surface check procedure is repeated each time the sampler is to be lowered into the well. After the completion of the surface checks, a partial vacuum will be applied to the sample containers to assist in sample collection.

  - A sampling tool with up to four 250-mililiter (ml) stainless steel bottles will be used for sampling the Westbay® MP groundwater monitoring wells.

- Using the multiport casing log as a reference, the sample probe will be lowered to the lowest desired sampling port. The probe will be activated and the fluid pressure outside the measurement port will be recorded. When the sampler probe is properly activated and sealed in the port, the sampler valve will be opened, allowing fluid to flow from the monitoring zone into the sample containers. When the containers have filled and the measurement port closed, the fluid pressure will be recorded again to verify the water level inside the Westbay casing has not changed during sampling and the sample obtained is from outside the Westbay® casing.

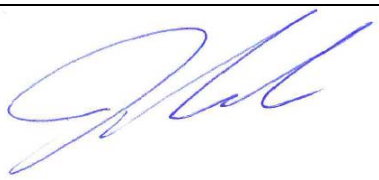
- Once the tool has been retrieved at the surface, the sample will be immediately decanted to the appropriately cold laboratory prepared containers. The first portion of the sample drawn from each depth interval will be used to measure field parameters (temperature, pH, EC, DO, and turbidity). All measurements (including the location, time, and date of measurement) will be recorded on the field sampling forms.

- The remainder of the sample will be placed in laboratory provided containers in the following order: VOC containers will be filled first, followed by semi volatile compounds, then metals. VOCs containers should be filled allowing no headspace. After filling, the cap will be replaced and the container inverted and tapped sharply against the palm of the hand to check for bubbles. If bubbles are present, the sample will be discarded and a new VOC container will be filled. All samples will immediately be placed in an iced cooler.

- Once sampling has been completed, barometric pressure will be collected at the surface

Comments:

Reviewed and Approved by:

Name: Bart Gebbie	Signature: 	Date: 4/8/13

Appendix B
Well Data Log Sheets

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: GPIN-16
DATE: 07/13/16 - 07/14/16
(sidewalk) LOCATION: 2893 Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear
DTW - 253.67'

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang
ATM. PRESSURE (Patm): (start) 14.16 (finish) 14.15
37.25°C 21.99°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
6	753	751	233.34	222.61	233.34	26.14	480.89	272.11	753	1302
LQC	768	766	239.92	229.88	239.92	26.93				1301
F	718	716	218.20	207.30	218.20	24.23	445.57	272.43	718	1307
SQC	703	701	211.66	201.47	211.66	23.89				1308
LQC	733	731	224.72	214.19	224.72	24.94				1305
E	638	636	103.37	173.01	103.37	23.13	366.47	271.53	638	1311
SQC	623	621	176.77	167.12	176.77	22.79				1313
LQC	653	651	189.84	180.85	189.84	23.40				1309
D	515	512	128.95	117.99	128.95	22.05	239.54	275.46	515	1317
SQC	498	497	122.40	112.92	122.40	21.64				1319
LQC	528	526	135.45	125.77	135.45	22.16				1315
C	417	416	87.11	76.67	87.11	21.25	144.21	272.79	417	1321
SQC	402	401	80.58	71.45	80.58	20.48				1323

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: GPW-16
DATE: 07/13/16 - 07/14/16
LOCATION: 2893 Rio Vto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoem
ATM. PRESSURE (Patm): (start) 14.16 (finish) 14.15

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	432	431	93.61	84.09	93.61	21.33				1320
B	378	377	70.05	59.98	70.05	19.97	105.71	272.29	378	1325
SQC	363	362	63.62	53.36	63.62	19.81				1327
LQC	393	392	76.64	68.44	76.64	20.14				1324
A	295	294	33.97	24.43	33.97	19.49	23.69	271.31	295	1329
SQC	280	279	27.40	22.54	27.40	19.37				1330
LQC	310	309	40.46	31.85	40.46	19.60				1328

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: CPW-17
DATE: 07/13/16
LOCATION: 606 S Mill St, Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 41700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang
ATM. PRESSURE (Patm): (start) 14.12 (finish) 14.14

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
SQC	398	396	84.30	72.65	84.30	21.24				0902
LQC	428	426	97.37	87.57	97.37	21.79				0858
B	313	311	47.23	35.61	47.23	20.82	49.58	263.42	313	0906
SQC	298	296	40.75	33.06	40.75	20.59				0907
LQC	328	326	53.70	42.63	53.70	20.98				0905
A	243	241	16.60	14.36	16.60	20.37	0.55	242.45	243	0909
SQC	228	226	14.40	14.04	14.40	20.32				0910
LQC	258	256	23.32	14.92	23.32	20.43				0908

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: CPW-17
DATE: 07/13/16
LOCATION: 6065 Mill St. Rialto
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear
PTW - 240.85'

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang
ATM. PRESSURE (Patm): (start) 14.12 (finish) 14.14
25.44°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
G	712	709	221.19	215.14	221.19	23.04	463.75	248.25	712	0839
SQC	697	694	214.75	210.17	214.75	22.96				0840
LQC	727	724	227.61	221.96	227.61	23.05				0838
F	612	609	177.66	166.15	177.66	23.01	350.73	261.27	612	0845
SQC	597	595	171.13	161.85	171.13	22.68				0847
LQC	627	625	184.94	180.42	184.94	22.89				0844
E	563	561	~~162.81~~ 156.16	145.49	156.16	22.40	303.07	259.93	563	0850
SQC	548	546	149.74	139.52	149.74	22.31				0852
LQC	578	576	162.84	154.77	162.84	22.52				0849
D	503	501	130.06	119.58	130.06	21.93	243.30	259.70	503	0854
SQC	488	486	123.48	114.05	123.48	21.82				0856
LQC	518	516	136.55	126.52	136.55	22.10				0853
C	413	411	90.80	79.21	90.80	21.46	150.16	262.84	413	0900

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP2
DATE: 07/21/16
LOCATION: 444 W. Willow St, Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang
ATM. PRESSURE (Patm): (start) 14.21 (finish) 14.23

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	425	424	143.37	62.42	143.37	20.44				0836
A	350	349	110.93	27.31	110.93	19.60	30.22	319.78	350	0840
SQC	335	334	104.50	22.19	104.50	19.63				0841
LQC	365	364	117.41	36.06	117.41	19.65				0839

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP2
DATE: 07/21/16
LOCATION: 444 Willow St, Rialto
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear / Hot
DTW - 132.22'

PROBE TYPE Westbay
SERIAL NO. EM54700
PROJECT BF Goodrich
OPERATOR(S) T. Hoare
ATM. PRESSURE (Patm): (start) 14.21 (finish) 14.23
32.47°C 23.91°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
E	764	763	291.37	211.27	291.37	24.11	454.62	309.38	764	0821
SQC	749	748	284.71	201.59	284.71	23.55				0823
E	714	713	269.68	184.81	269.68	22.94	393.57	320.43	714	0827
SQC	699	698	263.27	182.61	263.27	22.65				0828
LGC	729	728	276.32	192.94	276.32	23.30				0825
D	614	613	226.04	141.51	226.04	21.90	293.68	320.32	614	0830
SQC	599	598	219.51	135.15	219.51	21.62				0831
LGC	629	628	232.61	149.66	232.61	22.24				0829
C	510	509	180.50	96.34	180.50	21.15	189.47	320.53	510	0834
SQC	495	494	173.98	90.39	173.98	20.75				0835
LGC	525	524	187.18	103.77	187.18	21.43				0833
B	410	409	136.99	53.18	136.99	20.10	89.90	320.10	410	0837
SQC	395	394	130.58	52.67	130.58	19.86				0838

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP3
DATE: 07/20/16
LOCATION: Alice & Virginia Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4708
PROJECT BF Goodrich
OPERATOR(S) T. Hoang
ATM. PRESSURE (Patm): (start) 14.13 (finish) 14.15

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	472	471	50.28	44.47	50.28	19.99				1116

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP3
DATE: 07/20/16
LOCATION: Alice & Virginia, Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear
PTW - 397.91

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang
ATM. PRESSURE (Patm): (start) 14.13 (finish) 14.15
31.61°C 24.91°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
E	899	897	236.26	227.25	236.26	24.48	491.67	407.33	899	1100
SQC	884	884	229.70	221.56	229.70	23.98				1102
D	814	812	199.17	190.51	199.17	23.10	406.91	407.09	814	1105
SQC	799	798	192.66	184.61	192.66	22.54				1106
LQC	829	828	205.74	198.13	205.74	23.38				1103
C	687	686	143.98	135.72	143.98	21.51	280.51	406.49	687	1109
SQC	672	671	137.36	129.83	137.36	21.17				1110
LQC	702	701	150.47	143.07	150.47	22.06				1107
B	592	591	102.61	94.68	102.61	20.51	185.83	406.17	592	1114
SQC	577	576	95.98	88.60	95.98	20.52				1115
LQC	607	606	109.21	101.82	109.21	20.91				1112
A	457	456	43.77	36.28	43.77	20.06	51.10	405.90	457	1118
SQC	442	441	37.23	38.76	37.23	19.70				

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA - MP5
DATE: 07/12/16
LOCATION: Cactus & Foothill
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hung Matt K
ATM. PRESSURE (Patm): (start) 14.12 (finish) 14.14

DTW - 311.04'

39.14°C 22.91°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing 202.57	kg/cm² Outside Casing P2	mH²O Inside Casing 202.57	Trans. Temp. (oC)				
E	740	~~741~~	~~204.57~~	191.85	~~204.57~~	24.52	410.02	329.98	740	1226
SQL	725	721	195.61	186.36	195.61	22.99				1230
LQL	755	754	208.94	199.02	208.94	27.03				1223
D	630	626	154.27	144.35	154.27	21.84	300.44	329.56	630	1235
SQL	615	612	148.03	138.65	148.03	21.66				1237
LQL	645	642	161.06	151.33	161.06	22.35				1233
C	507	503	101.05	91.40	101.05	20.65	178.28	328.72	507	1242
SQL	492	489	94.54	85.45	94.54	20.76				1244
LQL	522	519	107.56	98.51	107.56	20.97				1240
B	412	410	59.72	50.35	59.72	20.04	83.58	328.42	412	1248
SQL	397	395	53.21	44.14	53.21	19.82				1250
LQL	427	425	66.37	57.88	66.37	20.43				1246
A	357	355	35.80	26.56	35.80	19.54	28.70	328.30	357	1250

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MW5
DATE: 07/12/16
LOCATION: Cactus & Foothill
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang
ATM. PRESSURE (Patm): (start) 14.12 (finish) 14.14

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
SQC	342	340	29.31	21.34	29.31	19.60				1251
LQC	372	370	42.33	33.42	42.33	19.89				1249

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP6
DATE: 07/18/16 + 07/20/16
LOCATION: 513 E. Etiwanda Rialto
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang Jon R.
ATM. PRESSURE (Patm): (start) 14.22 (finish) 14.24

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
SQ	340	338	22.41	24.31	22.41	19.90				1420
LGC	370	368	35.45	45.79	35.45	20.35				1418

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP6
DATE: 07/18/16 → 07/20/16
LOCATION: 513 E. Etiwanda Ct, Rialto
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hosey Jon R.
ATM. PRESSURE (Patm): (start) 14.22 (finish) 14.24

DTW-326.92'

38.15°C 22.19°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
E	764	762	207.34	201.43	207.34	26.57	431.89	314.11	746	1402
SQC	749	747	200.63	195.54	200.63	25.79				1403
LQC	779	777	213.71	208.47	213.71	27.63				1401
D	659	657	161.03	155.45	161.03	23.84	325.82	333.18	659	1407
SQC	644	642	154.56	149.59	154.46	23.16				1409
LQC	674	672	167.56	163.34	167.56	24.46				1405
C	573	571	123.70	118.20	123.70	21.99	239.88	333.12	573	1411
SQC	558	556	117.15	112.35	117.15	21.65				1413
LQC	588	586	130.04	125.61	130.04	22.60				1410
B	449	447	69.75	64.76	69.75	20.67	116.60	332.40	449	1416
SQC	434	432	63.29	63.08	63.29	20.44				1417
LQC	464	462	76.30	72.15	76.30	20.95				1414
A	355	353	28.97	24.16	28.97	19.95	22.93	332.07	355	1419

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP7
DATE: 07/21/16
LOCATION: N. Pepper Ave Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear / Hot
DTW - 287.65'

PROBE TYPE Westbay
SERIAL NO. EMS21700
PROJECT BF Goodrich
OPERATOR(S) T. Heavy
ATM. PRESSURE (Patm): (start) 14.20 (finish) 14.23
36.91°C 23.41°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	716	715	203.50	199.66	203.50	25.04				1245
E	701	700	196.97	189.41	196.97	27.27	404.21	296.79	701	1247
SQC	686	685	190.36	187.63	190.36	26.48				1248
LQC	603	601	153.44	147.37	153.44	25.23				1250
D	588	586	146.92	139.26	146.92	24.61	288.51	299.49	588	1251
SQC	573	571	140.41	137.55	140.41	24.04				1252
LQC	518	514	115.66	110.44	115.66	22.64				1253
C	503	501	109.16	101.21	109.16	22.13	200.73	302.27	503	1254
SQC	488	484	102.44	97.40	102.44	21.89				1255
LQC	448	447	86.23	81.28	86.23	21.40				1256
B	433	432	79.83	72.27	79.83	20.95	133.97	299.03	433	1300
SQC	418	417	73.23	68.27	73.23	20.66				1302
LQC	372	~~368~~	53.48	48.98	53.48	20.22				1304

Comments: 372

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP2
DATE: 07/21/16
LOCATION: N. Pepper Ave
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BE Goodrich
OPERATOR(S) T. Hong
ATM. PRESSURE (Patm): (start) 14.20 (finish) 14.23

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
A	357	357	47.19	39.98	47.19	20.29	59.47	297.53	357	1305
S&C	342	342	40.59	67.02	40.59	19.96				1307

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP8
DATE: 07/14/16
LOCATION: 1st Street
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang Matt K
ATM. PRESSURE (Patm): (start) 14.18 (finish) 14.17

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
A	347	345	38.09	34.33	38.09	20.70	46.49	300.51	347	1047
SQC	332	330	31.49	41.49	31.49	20.59				1048

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP8
DATE: 07/14/16
LOCATION: 1st Street
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear
DTW - 296.50'

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang Matt
ATM. PRESSURE (Patm): (start) 14.18 (finish) 14.17
31.02 °C 21.58 °C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	737	735	207.83	204.15	207.83	26.00				1024
E	722	719	201.26	194.99	201.26	25.59	417.13	304.87	722	1025
SQC	707	705	194.79	192.93	194.79	24.36				1027
LQC	622	620	157.87	153.38	157.87	23.90				1029
D	607	605	151.24	145.12	151.24	23.11	302.08	304.92	607	1031
SQC	592	590	144.17	144.28	144.17	23.04				1032
LQC	507	505	107.69	103.65	107.69	22.24				1034
C	492	490	101.28	97.05	101.28	21.85	191.18	300.82	492	1036
SQC	477	475	94.71	93.56	94.71	21.62				1038
LQC	412	410	66.36	62.64	66.36	21.25				1040
B	397	396	59.84	55.96	59.84	21.08	96.39	300.61	397	1042
SQC	382	380	53.27	51.53	53.27	20.86				1044
LQC	362	361	44.53	43.64	44.53	20.79				1046

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-9
DATE: ~~07/18/16~~ 07/19/16
LOCATION: 200 W. Etiwanda, Rialto
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang / T. Rammer
ATM. PRESSURE (Patm): (start) 14.71 (finish) 14.70

Temp: 28.79 20.91°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2 61.98	mH²O Inside Casing	Trans. Temp. (oC)				
SQC	467	467	75.62	~~75.62~~	75.62	19.25				0858
LQC	497	496	88.68	73.63	88.68	19.25				0854
B	412	412	51.66	37.56	51.66	18.77	52.71	359.29	412	0900
SQC	397	397	45.14	31.42	45.14	18.72				0901
LQC	427	427	58.33	50.98	58.33	18.81				0859
A	352	352	25.57	14.31	25.57	18.68	-0.92	352.92	352	0903
SQC	337	337	19.07	18.74	19.07	18.61				0904
LQC	367	367	32.10	24.61	32.10	18.72				0902

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-9
DATE: ~~07/18/16~~ 07/19/16
LOCATION: 200 W. Etiwanda, Rialto
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang / J. Ramirez
ATM. PRESSURE (Patm): (start) ~~14.74~~ 14.71 (finish) 14.70

DTW- 330.56'

Temp: 28.79 20.91°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
G	808	805	223.26	205.36	223.26	22.73	439.83	368.17	808	0827
SQC	793	790	216.77	199.39	216.77	22.57				0829
LQC	823	820	229.78	212.90	229.78	23.13				0826
F	718	715	184.23	166.61	184.23	21.75	350.43	367.57	718	0832
SQC	703	700	177.77	161.15	177.77	21.76				0833
LQC	733	730	190.76	174.79	190.76	22.26				0830
E	648	645	153.87	136.71	153.87	21.10	281.45	366.55	648	0836
SQC	633	630	147.42	131.05	147.42	20.76				0837
LQC	663	660	160.50	145.54	160.50	21.26				0835
D	562	560	116.93	100.28	116.93	19.34	197.41	364.59	562	0848
SQC	547	546	110.43	94.19	110.43	19.17				0851
LQC	577	575	123.43	108.08	123.43	20.09				0841
C	482	482	82.11	66.30	82.11	18.97	119.02	362.98	482	0855

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-10
DATE: ~~07/17/16~~ 07/18/16
LOCATION: 311 E. Cornell Dr, Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang, Jon R
ATM. PRESSURE (Patm): (start) 14.21 (finish) 14.22

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
A	358	356	29.51	28.14	29.51	18.96	32.14	325.86	358	1044
SOC	343	341	22.97	20.80	22.97	18.61				1046

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-10

DATE: ~~7/17/16~~ 07/18/16

LOCATION: 311 E Cornell Dr. Rialto

ELEV. TOP OF WASTBAY CASING

WEATHER: Clear, sunny

DTW = 327.25

PROBE TYPE West Bay

SERIAL NO. EMS4700

PROJECT BF Goodrich - UTC/Rialto

OPERATOR(S) T. Hoang / J. Ramirez

ATM. PRESSURE (Patm): (start) 14.21 (finish) 14.22

24.02°C 22.11°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	758	755	203.61	202.36	203.61	21.99				1013
E	743	740	197.06	194.65	197.06	21.65	416.28	326.72	743	1015
SQC	728	725	190.57	188.33	190.57	21.49				1017
LQC	618	616	142.71	140.69	142.71	21.09				1022
D	603	600	136.18	134.09	136.18	20.58	276.56	326.44	603	1024
SQC	588	585	129.66	127.60	129.66	20.35				1025
LQC	558	555	116.59	114.60	116.59	20.08				1029
C	543	541	110.09	108.17	110.09	19.56	216.77	326.23	543	1032
SQC	528	525	103.51	102.12	103.51	19.69				1034
LQC	473	471	79.59	78.33	79.59	19.31				1036
B	458	456	73.11	71.40	73.11	19.14	131.94	326.06	458	1038
SQC	443	440	66.55	65.22	66.55	19.10				1039
LQC	373	371	36.04	35.09	36.04	19.01				1042

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-11
DATE: 07/11/16
LOCATION: 365 N. Eucalyptus Ave, Rialto
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear
DTW - 294.04'

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang, Matt R.
ATM. PRESSURE (Palm): (start) 14.07 (finish) 14.10
Temp: 25.56°C 23.33°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	763	759	218.92	215.07	218.92	22.03				1010
E	748	744	~~214.57~~ 212.39	210.74	~~214.57~~ 212.39	21.92	453.72	294.28	748	1013
SQC	733	729	205.89	204.62	205.89	21.85				1015
LQC	708	704	194.94	193.71	194.94	21.79				1022
D	693	689	188.46	186.96	188.46	21.89	398.86	294.14	693	1024
SQC	678	674	181.79	180.79	181.79	21.61				1026
LQC	573	569	~~179.75~~	135.28	~~179.75~~	21.22				1029
C	558	554	136.16 129.57	128.49	136.16 129.57	21.05	263.97	294.03	558	1032
SQC	543	539	123.15	122.19	123.15	21.11				1034
LQC	463	459	88.24	87.56	88.24	20.58				1037
B	448	444	81.71	80.66	81.71	20.59	384.32	63.68	448	1039
SQC	433	429	75.18	74.50	75.18	20.42				1042
LQC	368	364	46.82	46.31	46.82	19.75				1044

Comments: EnSafe Correction: DTW Port No. B - (80.66-14.07)*2.307 = 153.62; DTW = 448-153.62 = 294.38

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-11
DATE: 02/11/16
LOCATION: 365, N Eucalyptus Ave, Rialto
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear
DTW - 294.04'

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoars
ATM. PRESSURE (Patm): (start) 14.07 (finish) 14.10

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
A	353	349	40.34	39.54	40.34	19.41	58.76	294.24	353	1046
SQC	338	334	33.78	32.04	33.78	19.19				1047

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-12
DATE: 07/14/16 + 07/18/16
LOCATION: 409E. Foothill Alley Behind BofA
ELEV. TOP OF WASTBAY CASING
WEATHER:
DTW - 304.09'

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hanna Matt R
ATM. PRESSURE (Patm): (start) 14.15 (finish) 14.16
40.11°C 23.11°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	738	735	205.36	203.27	205.36	28.88				1353
E	723	720	198.85	195.65	198.85	27.60	418.72	304.28	723	1354
SQC	708	705	192.27	189.75	192.27	25.68				1356
LQC	568	566	131.26	129.36	131.26	23.82				1359
D	553	551	124.89	121.93	124.89	23.20	248.65	304.35	553	1402
SQC	538	536	118.29	115.71	118.29	22.63				1404
LQC	513	511	107.45	104.91	107.45	22.13				1406
C	498	496	100.81	98.03	100.81	21.73	193.51	304.49	498	1407
SQC	483	481	94.29	91.96	94.29	21.39				1409
LQC	408	406	61.64	59.71	61.64	20.79				1410
B	393	391	55.07	52.61	55.07	20.56	88.73	304.27	393	1412
SQC	378	376	48.51	46.37	48.51	20.28				1413
LQC	348	346	35.49	33.43	35.49	20.12				1415

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PN-12
DATE: 07/14/16 + 07/18/16
LOCATION: 409. E Foothill Alley behind B&A
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hanks Matt K.
ATM. PRESSURE (Patm): (start) 14.15 (finish) 14.16

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
A	333	331	28.93	26.67	28.93	19.89	28.88	304.12	333	1416
SAC	318	316	22.41	20.21	22.41	19.91				1417

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-13
DATE: 07/12/16
LOCATION: 2751 Mill St, Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Overcast
DTW - 264.09'

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) Tiffany Matt K
ATM. PRESSURE (Patm): (start) 14.15 (finish) 14.16
23.11°C 20.91°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	617	616	170.07	173.43	170.07	22.09				0823
E	602	601	163.59	166.92	163.59	22.10	352.44	249.56	602	0824
SQC	587	586	157.09	159.09	157.09	21.70				0825
LQC	537	536	135.81	135.74	135.81	21.33				0826
D	522	521	128.74	127.98	128.74	21.11	262.61	259.39	522	0830
SQC	507	506	122.21	121.79	122.21	21.18				0834
LQC	487	487	113.57	113.14	113.57	20.78				0836
C	472	472	107.15	106.36	107.15	20.61	212.73	259.27	472	0839
SQC	457	456	100.53	100.14	100.53	20.45				0842
LQC	407	406	78.63	78.69	78.63	20.24				0845
B	392	391	72.23	71.69	72.23	20.02	132.74	259.26	392	0847
SQC	377	377	65.68	65.51	65.68	19.97				0849
LQC	352	351	54.71	54.70	54.71	19.75				0850

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-13
DATE: 07/12/16
LOCATION: 2751 Mill St, Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Overcast

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang Matt K
ATM. PRESSURE (Patm): (start) 14.15 (finish) 14.16

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
A	337	336	48.18	47.90	48.18	19.75°C	77.86	259.14	337	0851
SQC	322	321	41.72	41.97	41.72	19.41				0853

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-14
DATE: 07/11/16
LOCATION: Mill St Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoey Matt K.
ATM. PRESSURE (Patm): (start) 14.13 (finish) 14.15

DTW-287.05' Temp: 36.11°C 24.19°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
LQC	617	615	159.76	163.29	159.76	29.04				1410
E	602	600	153.39	157.13	153.39	28.12	329.90	272.10	602	1413
SQC	587	585	146.85	147.95	146.85	25.17				1416
LQC	537	535	125.10	122.67	125.10	23.72				1420
D	522	520	118.58	116.15	118.58	23.09	235.36	286.64	522	1423
SQC	507	505	112.03	109.84	112.03	22.64				1425
LQC	437	435	81.56	79.27	81.56	22.30				1428
C	422	422	75.02	72.81	75.02	21.54	135.37	286.63	422	1430
SQC	407	405	68.51	65.51	68.51	21.25				1432
LQC	377	375	55.46	51.32	55.46	20.92				1434
B	362	361	48.92	44.85	48.92	20.86	70.87	291.13	362	1436
SQC	347	347	42.37	37.39	42.37	20.69				1438
LQC	312	311	27.18	22.01	27.18	20.13				1439

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: PW-14
DATE: 07/11/16
LOCATION: Mill St Rialto, CA
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear
DTW - 287.05'

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang Matt K
ATM. PRESSURE (Patm): (start) 14.13 (finish) 14.15

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
A	297	297	20.62	15.48	20.62	19.96	3.11	293.89	297	1440
SQC	282	280	14.36	14.15	14.36	19.91				1441

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: PW-11
SAMPLING DATE(S) 07/11/16
LOCATION: 365 N Eucalyptus Ave Rialto, CA
WATER LEVEL INSIDE CASING: 294.04
ATM. PRESSURE (PSI): (Start) 14.07 (Finish) 14.10

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT: BF Goodrich
OPERATOR(S) T. Horan
WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	212.36	✓	210.76	✓	210.76	✓	212.36	22.3	396	7.24	19	5.18	1100	PW116750
D	1	✓	✓	✓	✓	✓	188.38	✓	186.96	✓	186.96	✓	188.38	22.3	356	7.82	174	7.31	1132	PW116695
C	1	✓	✓	✓	✓	✓	129.56	✓	128.46	✓	128.46	✓	129.56	22.4	277	8.55	23	6.44	1200	PW116560
B	1	✓	✓	✓	✓	✓	81.61	✓	80.63	✓	80.63	✓	81.61	24.3	304	8.78	188	6.55	1228	PW116450
A	1	✓	✓	✓	✓	✓	40.15	✓	39.57	✓	39.57	✓	40.15	23.9	457	8.85	25	7.31	1254	PW116355

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: PW-14
SAMPLING DATE(S) 07/11/16
LOCATION: Mill St, Rialto, CA
WATER LEVEL INSIDE CASING: 287.05
ATM. PRESSURE (PSI): (Start) 14.13 (Finish) 14.15

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT: BF Goodrich
OPERATOR(S) J. Hosey
WEATHER Clear

		Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
Port Number	Run Number	Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	153.40	✓	157.11	✓	157.11	✓	153.40	24.9	276	8.61	46	6.05	1445	PW146605
D	1	✓	✓	✓	✓	✓	118.52	✓	116.17	✓	116.17	✓	118.52	25.2	271	8.89	94	7.55	1510	PW146525
G	1	✓	✓	✓	✓	✓	75.39	✓	72.82	✓	72.82	✓	75.39	25.2	403	8.50	28	5.94	1538	PW146425
C	—	—	—	—	—	—	—												1540	PW14H425 DUP
B	1	✓	✓	✓	✓	✓	48.73	✓	44.85	✓	44.85	✓	48.73	24.1	524	8.61	12	7.36	1605	PW146365
A	1	✓	✓	✓	✓	✓	20.39	✓	15.46	✓	15.46	✓	20.39	24.5	273	9.11	13	6.71	1634	PW146300

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: PW-13
SAMPLING DATE(S) 07/12/16
LOCATION: 2751 Mill St, Rialto
WATER LEVEL INSIDE CASING: 264.01
ATM. PRESSURE (PSI): (Start) 14.15 (Finish) 14.16

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT: BF Goodrich
OPERATOR(S) T. Hoang Matt K
WEATHER Overcast

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	163.57	✓	166.91	✓	166.91	✓	163.57	20.3	329	6.50	5	5.47	0905	PW136615
D	1	✓	✓	✓	✓	✓	128.69	✓	127.99	✓	127.99	✓	128.69	21.0	292	7.34	45	6.11	0929	PW136525
C	1	✓	✓	✓	✓	✓	106.83	✓	106.35	✓	106.35	✓	106.83	20.5	195	8.16	9	7.01	0951	PW136475
B	1	✓	✓	✓	✓	✓	72.19	✓	71.68	✓	71.68	✓	72.19	20.7	289	8.04	4	5.66	1014	PW136395
A	1	✓	✓	✓	✓	✓	48.11	✓	47.92	✓	47.92	✓	48.11	21.0	418	8.14	3	4.96	1035	PW136340

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: EPA-MPD
SAMPLING DATE(S) 07/12/16
LOCATION: Cactus Ave, Rialto
WATER LEVEL INSIDE CASING: 311.04
ATM. PRESSURE (PSI): (Start) 14.12 (Finish) 14.14

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT: BF Goed
OPERATOR(S) T. Hoang
WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	202.55	✓	191.83	✓	191.83	✓	202.55	25.7	254	9.31	5	4.61	1300	MP56740
D	1	✓	✓	✓	✓	✓	155.92	✓	144.33	✓	144.33	✓	155.92	24.0	239	9.05	2	6.39	1329	MP56630
D	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1331	MP56630 (DUP)
C	1	✓	✓	✓	✓	✓	102.51	✓	91.39	✓	91.39	✓	102.51	23.8	297	9.14	5	8.09	1400	MP56507 (MS/MSD)
B	1	✓	✓	✓	✓	✓	59.46	✓	50.33	✓	50.33	✓	59.46	23.1	395	9.10	4	6.10	1425	MP56412
A	1	✓	✓	✓	✓	✓	35.63	✓	26.53	✓	26.53	✓	35.63	23.5	471	8.75	3	5.61	1445	MP56357

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: CPW-17
SAMPLING DATE(S) 07/13/16
LOCATION: 606 S Mill St, Rialto CA
WATER LEVEL INSIDE CASING: 240.83
ATM. PRESSURE (PSI): (Start) 14.12 (Finish) 14.14

PROBE TYPE Westbay
SERIAL NO. FMS 4700
PROJECT: BF Goodrich
OPERATOR(S) T. Hoang
WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
G	1	✓	✓	✓	✓	✓	221.17	✓	215.13	✓	215.13	✓	221.17	21.4	227	9.61	2	6.90	0911	CPW176712
F	1	✓	✓	✓	✓	✓	177.37	✓	166.17	✓	166.17	✓	177.37	22.0	251	9.51	4	8.39	0937	CPW176612
E	1	✓	✓	✓	✓	✓	156.07	✓	145.49	✓	145.49	✓	156.07	22.0	264	9.31	3	7.55	1003	CPW176563
D	1	✓	✓	✓	✓	✓	130.03	✓	119.54	✓	119.54	✓	130.03	23.1	291	9.20	2	8.66	1031	CPW176503
C	1	✓	✓	✓	✓	✓	90.71	✓	79.21	✓	79.21	✓	90.71	23.2	271	9.15	3	7.84	1053	CPW176413
B	1	✓	✓	✓	✓	✓	47.13	✓	35.62	✓	35.62	✓	47.13	23.7	347	9.30	2	6.83	1116	CPW176313
A	1	✓	✓	✓	✓	✓	15.71	✓	14.31	✓	14.31	✓	15.71	— port is dry —						

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: CPW-16
SAMPLING DATE(S) 07/13/16 - 07/14/16
LOCATION: 2693 Rialto, CA
WATER LEVEL INSIDE CASING: 253.67
ATM. PRESSURE (PSI): (Start) 14.16 (Finish) 14.15

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT: BF Goodrich
OPERATOR(S) T. Hoang
WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
G	1	✓	✓	✓	✓	✓	233.31	✓	222.59	✓	222.59	✓	233.31	23.4	526	7.81	~~8.11~~ 4	8.11	1340	CPW166753
F	1	✓	✓	✓	✓	✓	218.11	✓	207.30	✓	207.30	✓	218.11	25.0	283	8.01	13	5.96	1412	CPW166718
E	1	✓	✓	✓	✓	✓	183.18	✓	173.01	✓	173.01	✓	183.18	24.6	330	7.96	2	7.36	1438	CPW166638
D	1	✓	✓	✓	✓	✓	128.75	✓	118.01	✓	118.01	✓	128.75	20.7	352	7.41	2	6.85	0812	CPW166513
C	1	✓	✓	✓	✓	✓	86.90	✓	76.67	✓	76.67	✓	86.90	20.3	435	7.69	2	5.91	0832	CPW166417
B	1	✓	✓	✓	✓	✓	70.08	✓	59.99	✓	59.99	✓	70.08	20.2	486	7.51	1	6.39	0853	CPW166378
A	1	✓	✓	✓	✓	✓	34.20	✓	24.44	✓	24.44	✓	34.20	21.4	587	7.90	2	6.24	0910	CPW166295 ←
																			0912	CPW164295 (DUP)

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: EPA-MP8
SAMPLING DATE(S) 07/14/16
LOCATION: 1st Street
WATER LEVEL INSIDE CASING: 296.50
ATM. PRESSURE (PSI): (Start) 14.18 (Finish) 14.17

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT: BF Goodrich
OPERATOR(S) T. Hoang
WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	201.23	✓	194.96	✓	194.96	✓	201.23	23.7	224	8.96	3	7.09	1052	MP8 6722
D	1	✓	✓	✓	✓	✓	151.19	✓	145.13	✓	145.13	✓	151.19	23.5	178	8.21	4	6.45	1116	MP8 6607
C	1	✓	✓	✓	✓	✓	102.70	✓	97.04	✓	97.04	✓	102.70	24.8	281	8.11	2	5.39	1143	MP8 6492 (MS/MSD)
B	1	✓	✓	✓	✓	✓	60.25	✓	55.93	✓	55.93	✓	60.25	25.1	288	7.91	3	6.44	1210	MP8 6397
B	—	—	—	—	—	—	—												1212	MP8A 397 (DUP)
A	1	✓	✓	✓	✓	✓	37.91	✓	34.31	✓	34.31	✓	37.91	23.9	203	8.51	4	6.30	1230	MP8 6347

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: PW-12
SAMPLING DATE(S) 07/14/16 + 07/18/16
LOCATION: 409 E. Foothill Alley behind B of A
WATER LEVEL INSIDE CASING: 304.09
ATM. PRESSURE (PSI): (Start) 14.15 (Finish) 14.16

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT: BF Goodrich
OPERATOR(S) T. Hogue Matt K.
WEATHER Clear / Hot

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	198.83	✓	195.62	✓	195.62	✓	198.83	20.1	333	8.61	141	7.31	1433	PW126725
D	1	✓	✓	✓	✓	✓	124.63	✓	121.93	✓	121.93	✓	124.63	20.5	289	8.51	31	6.75	1500	PW126555
C	1	✓	✓	✓	✓	✓	100.88	✓	98.09	✓	98.09	✓	100.88	21.1	470	7.49	107	7.31	0820	PW126500
B	1	✓	✓	✓	✓	✓	55.01	✓	52.63	✓	52.63	✓	55.01	22.3	434	6.89	30	8.66	0847	PW126395
A	1	✓	✓	✓	✓	✓	28.81	✓	26.69	✓	26.69	✓	28.81	20.7	472	7.00	140	8.10	0912	PW126345

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: PW-10
SAMPLING DATE(S) 02/18/16
LOCATION: 311 E. Cornell Pl, Rialto
WATER LEVEL INSIDE CASING: 327.25
ATM. PRESSURE (PSI): (Start) 14.21 (Finish) 14.22

PROBE TYPE Westbay
SERIAL NO. EMS4700 7
PROJECT: BF Goodrich
OPERATOR(S) Hoang, John R.
WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	197.04	✓	194.63	✓	194.63	✓	197.04	21.8	333	7.31	122	9.63	1105	PW106 745
D	1	✓	✓	✓	✓	✓	136.15	✓	134.00	✓	134.00	✓	136.15	23.5	270	7.71	147	8.57	1133	PW106 605
C	1	✓	✓	✓	✓	✓	110.00	✓	108.00	✓	108.00	✓	110.00	23.7	278	7.97	268	8.31	1159	PW106 545
B	1	✓	✓	✓	✓	✓	73.00	✓	71.34	✓	71.34	✓	73.00	24.8	398	7.90	53	7.03	1224	PW106 460
A	1	✓	✓	✓	✓	✓	29.41	✓	28.16	✓	28.16	✓	29.41	22.4	464	7.98	7	8.58	1253	PW106 360

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: PW-9
SAMPLING DATE(S) 07/18/16
LOCATION: 200 W. Etiwanda, Rialto
WATER LEVEL INSIDE CASING: 350.86
ATM. PRESSURE (PSI): (Start) 14.71 (Finish) 14.70

PROBE TYPE Westbay
SERIAL NO. EMS 4706
PROJECT: BF Goodrich
OPERATOR(S) T. Hoang / J. Rammer
WEATHER Clear

Port Number	Run Number	Probe to Top Collar: Arm out / Land Probe	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port): Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Sample Collection Checks (probe at sampling port in MP casing): Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Field Parameters: Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample: Sample Time	Sample ID
G	1	✓	✓	✓	✓	✓	223.24	✓	206.58	✓	206.58	✓	223.4	20.8	368	6.83	1	8.69	0930	PW96 808
F	1	✓	✓	✓	✓	✓	184.12	✓	166.99	✓	166.99	✓	184.12	22.6	328	6.97	1	7.11	1000	PW96 718
E	1	✓	✓	✓	✓	✓	153.70	✓	136.64	✓	136.64	✓	153.70	22.4	277	7.17	2	6.49	1024	PW96 648
D	1	✓	✓	✓	✓	✓	116.80	✓	99.95	✓	99.95	✓	116.80	23.2	265	7.81	1	6.29	1047	PW96 562
C	1	✓	✓	✓	✓	✓	81.92	✓	66.04	✓	66.04	✓	81.92	23.3	396	7.51	1	6.41	1109	PW96 482
B	1	✓	✓	✓	✓	✓	51.94	✓	37.47	✓	37.47	✓	51.94	23.8	399	7.55	1	6.31	1132	PW96 412
B	1	—	—	—	—	—													1134	PW9 #412 (DUP)
A	1	✓	✓	✓	✓	✓	24.32	✓	14.32	✓	14.32	✓	24.32	port is dry — no sample					—	PW96 352

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: EPA - MP3
SAMPLING DATE(S) 07/20/16
LOCATION: Alice & Virginia Rialto
WATER LEVEL INSIDE CASING: 397.91
ATM. PRESSURE (PSI): (Start) 14.13 (Finish) 14.15

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT: BF Goodrich
OPERATOR(S) T. Hoang
WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	236.29	✓	227.26	✓	227.26	✓	236.29	25.0	245	8.78	2	6.04	1137	MP3 6899
D	1	✓	✓	✓	✓	✓	199.12	✓	190.49	✓	190.49	✓	199.12	25.7	257	8.76	6	7.21	1210	MP3 6814
C	1	✓	✓	✓	✓	✓	145.21	✓	135.72	✓	135.72	✓	145.21	26.0	392	8.27	4	7.55	1245	MP3 6687 (MS/MSD)
B	1	✓	✓	✓	✓	✓	103.05	✓	94.66	✓	94.66	✓	103.05	25.8	461	8.33	3	6.94	1317	MP3 6592
B	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1319	MP3 H592 (DUP)
A	1	✓	✓	✓	✓	✓	43.62	✓	36.28	✓	36.28	✓	43.62	25.5	605	8.23	2	6.59	1344	MP3 6457

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: EPA-MP6
SAMPLING DATE(S) 07/18/16 + 07/20/16
LOCATION: 513 E. Edwanda Rialto
WATER LEVEL INSIDE CASING: 326.92
ATM. PRESSURE (PSI): (Start) 14.22 (Finish) 14.24

PROBE TYPE WestBay
SERIAL NO. EMS 4700
PROJECT: BFGoodrich
OPERATOR(S) T. Harris Jon R.
WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	207.13	✓	201.40	✓	201.40	✓	207.13	22.8	271	8.7	8	7.48	1438	MP6G765
D	1	✓	✓	✓	✓	✓	161.04	✓	155.55	✓	155.55	✓	161.04	20.4	392	6.89	1	6.81	0829	MP6G654
C	1	✓	✓	✓	✓	✓	123.53	✓	118.33	✓	118.33	✓	123.53	20.9	231	7.56	2	6.59	0854	MP6G573
B	1	✓	✓	✓	✓	✓	69.63	✓	64.77	✓	64.77	✓	69.63	21.8	495	7.30	2	7.19	0919	MP6G449
A	1	✓	✓	✓	✓	✓	28.74	✓	24.13	✓	24.13	✓	28.74	24.6	575	7.35	1	7.01	0941	MP6G355

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: EPA-MP2
SAMPLING DATE(S) 07/21/16
LOCATION: 444 Willow St, Rialto, CA
WATER LEVEL INSIDE CASING: 132.22
ATM. PRESSURE (PSI): (Start) 14.21 (Finish) 14.23

PROBE TYPE Westbay
SERIAL NO. FMS 4700
PROJECT: BF Goodrich
OPERATOR(S) T. Hoang
WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (~~ppm~~) mg/L	Sample Time	Sample ID
F	1	✓	✓	✓	✓	✓	291.32	✓	211.30	✓	211.30	✓	291.32	24.2	465	8.41	2	6.44	0908	MP26764
E	1	✓	✓	✓	✓	✓	269.49	✓	184.76	✓	184.76	✓	269.49	24.1	334	6.81	1	7.51	0935	MP26714
D	1	✓	✓	✓	✓	✓	225.95	✓	141.47	✓	141.47	✓	225.95	23.5	255	8.20	2	6.41	1000	MP26614
C	1	✓	✓	✓	✓	✓	181.52	✓	96.37	✓	96.37	✓	181.52	24.5	313	8.41	1	7.31	1030	MP26510 (ms/msD)
B	1	✓	✓	✓	✓	✓	137.16	✓	53.22	✓	53.22	✓	137.16	25.2	522	8.24	1	6.95	1053	MP26410
B	1																		1055	MP2H410
A	1	✓	✓	✓	✓	✓	110.62	✓	27.34	✓	27.34	✓	110.62	25.4	460	8.19	2	6.91	1117	MP26350

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: EPA-MP7
SAMPLING DATE(S) 07/21/16
LOCATION: N. Pepper Ave
WATER LEVEL INSIDE CASING: 287.65
ATM. PRESSURE (PSI): (Start) 14.20 (Finish) 14.23

PROBE TYPE Westbay
SERIAL NO. FMS 4700
PROJECT: BF Goodrich
OPERATOR(S) T. Hoang
WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen ~~(ppm)~~ mg/L	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	196.88	✓	189.43	✓	189.43	✓	196.88	26.7	347	8.14	2	7.39	1320	MP7 6701
D	1	✓	✓	✓	✓	✓	146.92	✓	139.27	✓	139.27	✓	146.92	26.1	305	7.91	1	6.83	1345	MP7 6588
C	1	✓	✓	✓	✓	✓	108.89	✓	101.19	✓	101.19	✓	108.89	25.7	311	7.82	2	7.26	1406	MP7 6508
B	1	✓	✓	✓	✓	✓	79.64	✓	72.25	✓	72.25	✓	79.64	26.1	449	8.09	1	7.34	1426	MP7 6433
A	1	✓	✓	✓	✓	✓	46.98	✓	39.98	✓	39.98	✓	46.98	24.8	563	7.73	2	7.11	1450	MP7 6357

Comments:

HYDRASLEEVE SAMPLING DATA SHEET

Project #: 160726061	Site: UC Davis
Sampler: JM	Water Quality Meter: YSI 556
Sampling Method: Hydrasleeve	

Well I.D.: SW3A5G670			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 396.70			of Hydrasleeve: 670	
Date	Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/28/16	0905	18.93	7.46	315	27	7.47	136.9
QA/QC (Sample ID):			Analyzed for: Sn VOC			Laboratory: Accutest	
Observations:							

Well I.D.: SW3A6G510			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 396.60			of Hydrasleeve: 510	
Date	Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/28/16	0914	17.87	7.19	415	9	8.51	145.7
QA/QC (Sample ID):			Analyzed for: Sn VOC			Laboratory: Accutest	
Observations:							

Well I.D.: SW3A7G410			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 396.44			of Hydrasleeve: 410	
Date	Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/28/16	0800	18.3	7.34	232	35	6.71	153.0
QA/QC (Sample ID):			Analyzed for: Sn VOC			Laboratory: Accutest	
Observations:							

HYDRASLEEVE SAMPLING DATA SHEET

Project #: 160726M1	Site: UCR Riverside
Sampler: JR	Water Quality Meter: YSI 556
Sampling Method: Hydrasleeve	

Well I.D.: SW11F1G-940			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 314.68			of Hydrasleeve: 940	
Date	Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/28/16	0800	21.30	7.08	441	38	0.91	-93.1
QA/QC (Sample ID):			Analyzed for: SuCoC			Laboratory: Accutest	
Observations:							

Well I.D.: SW11F3G-432			Well Diameter: 2 (3) 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 294.70			of Hydrasleeve: 432	
Date	Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/28/16	0818	20.29	6.56	345	6	8.25	61.6
QA/QC (Sample ID):			Analyzed for: SuCoC			Laboratory: Accutest	
Observations:							

Well I.D.: SW11F4G-320			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 294.80			of Hydrasleeve: 320	
Date	Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/28/16	0825	20.27	7.14	364	6	8.69	93.5
QA/QC (Sample ID):			Analyzed for: SuCoC			Laboratory: Accutest	
Observations:							

HYDRASLEEVE SAMPLING DATA SHEET

Project #: 160726SR.1	Site: UTC Rialto
Sampler: JR	Water Quality Meter: YSI 556
Sampling Method: Hydrasleeve	

Well I.D.: MW8 ~~E~~ 587			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 228.29			of Hydrasleeve: 587	
Date	Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/27/06	1200	22.97	7.50	409	97	0.76	-1.9
QA/QC (Sample ID):			Analyzed for: Sucoc			Laboratory: Accutest	
Observations:							

Well I.D.: MW8EG320			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 230.93			of Hydrasleeve: 320	
Date	Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/27/06	1220	21.85	7.35	439	102	4.91	118.0
QA/QC (Sample ID):			Analyzed for: Sucoc			Laboratory: Accutest	
Observations:							

Well I.D.:			Well Diameter: 2 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW):			of Hydrasleeve:	
Date	Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
QA/QC (Sample ID):			Analyzed for:			Laboratory:	
Observations:							

HYDRASLEEVE SAMPLING DATA SHEET

Project #: 160726SM1	Site: UTC Richmond
Sampler: JL	Water Quality Meter: YSI 556
Sampling Method: Hydrasleeve	

Well I.D.: SW3 B56380			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 275.59			of Hydrasleeve: 380	
Date	Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/27/16	1050	21.28	7.34	560	72	6.34	226.6
QA/QC (Sample ID):			Analyzed for: Cr VOC			Laboratory: Accutest	
Observations:							

Well I.D.: 4W8E1H980			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 227.62			of Hydrasleeve: 980	
Date	Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/27/16	1124	24.02	7.53	475	>1000	0.59	4.9
QA/QC (Sample ID): 4W8E1H980			Analyzed for: Cr VOC			Laboratory: Accutest	
Observations: @1126							

Well I.D.: 4W8E2G760			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 227.46			of Hydrasleeve: 760	
Date	Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/27/16	1145	22.60	6.99	350	216	0.68	-29.1
QA/QC (Sample ID):			Analyzed for: Cr VOC			Laboratory: Accutest	
Observations:							

HYDRASLEEVE SAMPLING DATA SHEET

Project #: 160726SN-1	Site: UTC Rialto
Sampler: SN	Water Quality Meter: YSI 556
Sampling Method: Hydrasleeve	

Well I.D.: SW13B2G685			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 272.01			of Hydrasleeve: 685	
Date	Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/27/16	1005	23.34	6.59	371	14	4.68	231.1
QA/QC (Sample ID):			Analyzed for: SW LOC			Laboratory: Alwitest	
Observations:							

Well I.D.: SW13B3G500			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 285.01			of Hydrasleeve: 500	
Date	Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/27/16	1025	22.52	7.17	357 ~~359~~	30	7.56	240.0
QA/QC (Sample ID): SW13B3G500 @1027			Analyzed for: SW LOC			Laboratory: Alwitest	
Observations:							

Well I.D.: SW13B4G430			Well Diameter: (2) 3 4 6 8 ____				
Total Well Depth (TD):			Depth to Water (DTW): 283.99			of Hydrasleeve: 430	
Date	Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)
7/27/16	1056	23.02	7.16	446	37	8.81	281.7
QA/QC (Sample ID):			Analyzed for: SW LOC			Laboratory: Alwitest	
Observations:							

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Ensafe @ Rialto				PROJECT NUMBER 160711-HH			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Ultrameter II	6207529	07/11/16 0745	4.0 7.0 10.0 PH	4.23 7.09 10.11	4.0 7.0 10.0	17.9°C	HH
↓	↓	↓	Cond 3900	3991	3900	18.1°C	HH
YSI 550	06E2088AB	↓	D.O. 100%	124.7%	97.5%	17.5°C	HH
Ultrameter II	6207529	07/12/16 0746	4.0 7.0 10.0 PH	4.41 7.09 10.11	4.0 7.0 10.0	18.3°C	HH
↓	↓	↓	Cond 3900	4011	3900	18.6°C	HH
YSI 550	06E2088AB	↓	D.O. 100%	120.1%	101.4%	18.2°C	HH
Ultrameter II	6207529	07/13/16 0750	4.0 7.0 10.0 PH	4.09 7.09 10.11	4.0 7.0 10.0	19.1°C	HH
↓	↓	↓	Cond 3900	3965	3900	19.6°C	HH
YSI 550	06E2088AB	↓	D.O. 100%	127.4%	97.3%	19.0°C	HH
Ultrameter II	6207529	07/14/16 0735	4.0 7.0 10.0 PH	4.09 7.20 10.11	4.0 7.0 10.0	19.3°C	HH
↓	↓	↓	Cond 3900	3945	3900	19.1°C	HH
YSI 550	06E2088AB	↓	D.O. 100%	129.6%	101.5%	19.5°C	HH

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	Fnsafe @ Rialto			PROJECT NUMBER	160711-HH1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Ultrameter II	6207529	07/18/16 0735	4.0 7.0 10.0 PH	4.20 7.09 10.14	4.0 7.0 10.0	19.3°C	HH
↓	↓	↓	Cond 3900	4091	3900	19.6°C	HH
YSI 550	06E2088AB	↓	D.O. 100%	139.6%	100.5%	19.2°C	HH
Ultrameter II	6207529	07/19/16 0739	4.0 7.0 10.0 PH	8.90 10.90 9.95	4.0 7.0 10.0	22.1°C	HH
↓	↓	↓	Cond 3900	4011	3900	22.3°C	HH
YSI 550	06E2088AB	↓	~~OR~~ D.O 100%	120.6%	98.5%	20.9°C	HH
Ultrameter II	6207529	07/20/16 0846	4.0 7.0 10.0 PH	4.09 6.85 9.73	4.0 7.0 10.0	22.1°C	HH
↓	↓	↓	Cond 3900	4091	3900	22.3°C	HH
YSI 550	06E2088AB	↓	D.O. 100%	125.9%	100.9%	23.1°C	HH
Ultrameter II	6207529	07/21/16 ~~620~~ 0735	4.0 7.0 10.0 PH	4.26 7.19 10.20	4.0 7.0 10.0	22.8°C	HH
↓	↓	↓	Cond 3900	4311	3900	23.1°C	HH
YSI 550	06E2088AB	↓	D.O. 100%	139.6%	101.5%	22.8°C	HH

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME	Ensafe @ UTR Rialto			PROJECT NUMBER	16072651A.1		
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI 556	06F0009A0	7/28/16 0900	pH 7, 10, 4 cond. 3900	7.22, 9.69, 3.98 3604	7.00, 10.00, 4.00 3900	28.47°C	JM
↓	↓	↓	DO 100% ORP 228.0	101.4% 209.6	95.1% 227.0	28.87°C	JM
		7/28/16 0700	pH 7, 10, 4 Cond. 3900	7.14, 9.89, 3.89 3568	7.00, 10.00, 4.00 3900	26.11°C	JM
↓	↓	↓	DO 100% ORP 228.0	156.7% 211.6	96.0% 228.0	27.24	JM

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP1
DATE: 10/05/16
LOCATION: Foothill + Acacia Behind State Bins
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear
DTW - 203.95'

PROBE TYPE Westbay
SERIAL NO. FMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang
ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.11
21.48°C 21.65°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
E	797	795	273.42	233.87	273.42	20.37	507.03	289.97	797	0852
SQL	782	782	266.93	262.57	266.93	20.62				0854
D	732	730	244.93	202.09	244.93	20.83	433.72	298.28	732	0855
LQL	747	745	251.50	215.01	251.50	20.81				0856
SQL	717	715	238.57	198.50	238.57	20.96				0900
C	562	560	171.23	128.65	171.23	20.59	264.29	297.71	562	0904
LQL	577	576	177.70	137.30	177.70	20.75				0902
SQL	547	546	164.47	127.64	164.47	20.42				0906
B	462	461	127.48	85.28	127.48	20.01	164.24	297.76	462	0910
LQL	477	476	134.08	94.13	134.08	20.17				0908
SQL	447	446	120.94	89.80	120.94	19.71				0913
A	366	365	85.79	43.82	85.79	19.35	68.59	297.41	366	0917
LQL	381	380	92.28	50.45	92.28	19.52				0915

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
WATER LEVEL MEASUREMENT LOG SHEET

WELL ID: EPA-MP1
DATE: 10/05/16
LOCATION: Foothill + Acacia Beh
ELEV. TOP OF WASTBAY CASING
WEATHER: Clear

PROBE TYPE Westbay
SERIAL NO. EMS 4700
PROJECT BF Goodrich
OPERATOR(S) T. Hoang
ATM. PRESSURE (Patm): (start) 14.09 (finish) 14.11
21.48°C 21.65°C

Port No.	Depth to Meas. Port Valve (ft)		Pressure Readings (psi)				Pressure Head Outside Port (ft) P(ft)=(P2-Patm)*2.307 ft/psi)	Depth to Water Outside Port (ft) DTW = Dp-P(ft)	True Port Depth (Dp) (ft)	Time
	From Log (Dp)	From Cable	psi Inside Casing	kg/cm² Outside Casing P2	mH²O Inside Casing	Trans. Temp. (oC)				
SGC	351	351	79.24	83.34	79.24	19.13				0918

Comments:

WESTBAY™ GROUNDWATER MONITORING WELL
FIELD DATA LOG SHEET

WELL ID: EPA-MP1
SAMPLING DATE(S) 10/05/16
LOCATION: Foothill & Acacia
WATER LEVEL INSIDE CASING: 203.95
ATM. PRESSURE (PSI): (Start) 14.09 (Finish) 14.10

PROBE TYPE Westbay
SERIAL NO. EMS 4706
PROJECT: BF Goodrich
OPERATOR(S) T. Hoang
WEATHER Clear

Port Number	Run Number	Probe to Top Collar	Surface Function Tests / Position Sampler (probe in top of collar) / (lower probe to port)				Sample Collection Checks (probe at sampling port in MP casing)							Field Parameters					Sample	
		Arm out / Land Probe	Shoe Out/ Close Valve/ Check Vacuum	Open Valve/ Apply Vacuum (5 psi)	Close Valve/ Shoe In/ Arm In	Locate Port/ Arm Out/ Land Probe	Pressure in MP Casing (psi)	Shoe Out	Port Pressure (psi)	Open Valve	Port Pressure (psi)	Close Valve/ Shoe In	Pressure in MP Casing (psi)	Sample Temp (°C)	SC (µS/cm)	pH	Turbidity (NTU)	Dissolved Oxygen (ppm) mg/L	Sample Time	Sample ID
E	1	✓	✓	✓	✓	✓	272.61	✓	233.86	✓	233.86	✓	272.61	19.6	391	6.51	2	3.61	0930	MP16797
D	1	✓	✓	✓	✓	✓	214.29	✓	202.10	✓	202.10	✓	214.29	19.7	375	6.46	1	4.05	1000	MP16732
C	1	✓	✓	✓	✓	✓	170.23	✓	128.62	✓	128.62	✓	170.23	20.1	307	7.11	1	4.51	1025	MP16562
B	1	✓	✓	✓	✓	✓	127.21	✓	85.27	✓	85.27	✓	127.21	19.9	328	7.00	2	3.89	1040	MP16462
A	1	✓	✓	✓	✓	✓	84.91	✓	43.81	✓	43.81	✓	84.91	18.9	285	7.05	1	3.99	1105	MP16366

Comments: DUP @ MP16462 = MP1H462 @ 1045
EB100516 @ 1120

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME Ensafe @ Rialto				PROJECT NUMBER 161005-HH1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
Ultrameter II	6220413	10/05/16 0730	4.0 7.0 pH 10.0	4.21 7.09 9.73	4.0 7.0 10.0	21.3°C	HH
↓	↓	↓	Cond 3900	4113	3900	21.4°C	HH

Appendix C
Laboratory Analytical Reports — Groundwater Samples

SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

United Technology Corporation

ENSTNM: UTC RFF Superfund Site - Rialto, CA

0888818881

SGS Accutest Job Number: C46495

Sampling Dates: 07/11/16 - 07/12/16

Report to:

Ensafe
5724 Summer Trees Road
Memphis, TN 38134
jteves@ensafe.com; jgable@envstd.com;
swinter@Ensafe.com
ATTN: Shaun Winter

Total number of pages in report: 92

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Elvin Kumar 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.

SGS Accutest is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.

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SGS Accutest

Sample Summary

United Technology Corporation

Job No: C46495

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 0888818881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46495-1	07/11/16	11:00	RT	07/13/16	AQ	Ground Water	PW11G750
C46495-2	07/11/16	11:32	RT	07/13/16	AQ	Ground Water	PW11G695
C46495-3	07/11/16	12:00	RT	07/13/16	AQ	Ground Water	PW11G560
C46495-4	07/11/16	12:28	RT	07/13/16	AQ	Ground Water	PW11G450
C46495-5	07/11/16	12:54	RT	07/13/16	AQ	Ground Water	PW11G355
C46495-6	07/11/16	14:45	RT	07/13/16	AQ	Ground Water	PW14G605
C46495-7	07/11/16	15:10	RT	07/13/16	AQ	Ground Water	PW14G525
C46495-8	07/11/16	15:38	RT	07/13/16	AQ	Ground Water	PW14G425
C46495-9	07/11/16	15:40	RT	07/13/16	AQ	Ground Water	PW14H425
C46495-10	07/11/16	16:05	RT	07/13/16	AQ	Ground Water	PW14G365
C46495-11	07/11/16	16:34	RT	07/13/16	AQ	Ground Water	PW14G300
C46495-12	07/11/16	16:22	RT	07/13/16	AQ	Equipment Blank	EB1071116
C46495-13	07/12/16	09:05	RT	07/13/16	AQ	Ground Water	PW13G615

SGS Accutest

Sample Summary
(continued)

United Technology Corporation

Job No: C46495

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 0888818881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46495-14	07/12/16	09:29	RT	07/13/16	AQ	Ground Water	PW13G525
C46495-15	07/12/16	09:51	RT	07/13/16	AQ	Ground Water	PW13G475
C46495-16	07/12/16	10:14	RT	07/13/16	AQ	Ground Water	PW13G395
C46495-17	07/12/16	10:35	RT	07/13/16	AQ	Ground Water	PW13G340
C46495-18	07/12/16	13:00	RT	07/13/16	AQ	Ground Water	MP5G740

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	C46495
Site:	ENSTNM: UTC RFF Superfund Site - Rialto, CA	**Report Date**	7/27/2016 7:05:50 PM

18 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected between 07/11/2016 and 07/12/2016 and were received at Accutest on 07/13/2016 properly preserved, at 4.1 Deg. C and intact. These Samples received an Accutest job number of C46495. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VW2334

- Sample(s) C46541-1MS, C46541-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Chloroethane, Trichlorofluoromethane are outside laboratory control limits. Probable cause due to matrix interference.

Matrix: AQ **Batch ID:** VW2335

- Sample(s) C46495-9MS, C46495-9MSD were used as the QC samples indicated.
- Sample(s) C46495-10, C46495-11, C46495-12, C46495-14, C46495-15, C46495-17, C46495-18, C46495-9 have for Isopropyl Alcohol a CCV outside of control limits (biased high); not detected in samples.
- Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, Carbon tetrachloride, Trichlorofluoromethane are outside laboratory control limits. Probable cause due to matrix interference.

Matrix: AQ **Batch ID:** VW2337

- Sample(s) C46541-7MS, C46541-7MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane, Carbon tetrachloride, Trichlorofluoromethane are outside laboratory control limits. Probable cause due to matrix interference.

Wet Chemistry By Method EPA 314

Matrix: AQ **Batch ID:** GP9610

- Sample(s) C46541-1MS, C46541-1MSD were used as the QC samples for Perchlorate.

Wet Chemistry By Method SM2510 B-97

Matrix: AQ **Batch ID:** GN19312

- Sample(s) C46495-10DUP were used as the QC samples for Specific Conductivity.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C46495
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/11/16 thru 07/12/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46495-1	**PW11G750**					
Toluene		0.65 J	1.0	0.20	ug/l	SW846 8260B
Perchlorate		0.87 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		247	1.0	1.0	umhos/cm	SM2510 B-97
C46495-2	**PW11G695**					
Toluene		0.21 J	1.0	0.20	ug/l	SW846 8260B
Perchlorate		0.83 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		332	1.0	1.0	umhos/cm	SM2510 B-97
C46495-3	**PW11G560**					
Toluene		0.61 J	1.0	0.20	ug/l	SW846 8260B
Perchlorate		0.94 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		268	1.0	1.0	umhos/cm	SM2510 B-97
C46495-4	**PW11G450**					
Toluene		1.1	1.0	0.20	ug/l	SW846 8260B
Perchlorate		18.2	1.0	0.65	ug/l	EPA 314
Specific Conductivity		304	1.0	1.0	umhos/cm	SM2510 B-97
C46495-5	**PW11G355**					
Trichloroethylene		0.54 J	1.0	0.20	ug/l	SW846 8260B
Perchlorate		22.3	1.0	0.65	ug/l	EPA 314
Specific Conductivity		451	1.0	1.0	umhos/cm	SM2510 B-97
C46495-6	**PW14G605**					
Perchlorate		1.3	1.0	0.65	ug/l	EPA 314
Specific Conductivity		287	1.0	1.0	umhos/cm	SM2510 B-97
C46495-7	**PW14G525**					
Perchlorate		0.96 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		270	1.0	1.0	umhos/cm	SM2510 B-97
C46495-8	**PW14G425**					
Trichloroethylene		0.62 J	1.0	0.20	ug/l	SW846 8260B
Perchlorate		45.5	1.0	0.65	ug/l	EPA 314
Specific Conductivity		406	1.0	1.0	umhos/cm	SM2510 B-97

Summary of Hits

Job Number: C46495
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/11/16 thru 07/12/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46495-9	**PW14H425**					
Trichloroethylene		0.49 J	1.0	0.20	ug/l	SW846 8260B
Perchlorate		42.7	1.0	0.65	ug/l	EPA 314
Specific Conductivity		405	1.0	1.0	umhos/cm	SM2510 B-97
C46495-10	**PW14G365**					
Perchlorate		18.5	1.0	0.65	ug/l	EPA 314
Specific Conductivity		512	1.0	1.0	umhos/cm	SM2510 B-97
C46495-11	**PW14G300**					
Perchlorate		7.0	1.0	0.65	ug/l	EPA 314
Specific Conductivity		297	1.0	1.0	umhos/cm	SM2510 B-97
C46495-12	**EB1071116**					
Specific Conductivity		1.5	1.0	1.0	umhos/cm	SM2510 B-97
C46495-13	**PW13G615**					
Isopropyl Alcohol		6.7 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		277	1.0	1.0	umhos/cm	SM2510 B-97
C46495-14	**PW13G525**					
Perchlorate		1.3	1.0	0.65	ug/l	EPA 314
Specific Conductivity		296	1.0	1.0	umhos/cm	SM2510 B-97
C46495-15	**PW13G475**					
Specific Conductivity		202	1.0	1.0	umhos/cm	SM2510 B-97
C46495-16	**PW13G395**					
Isopropyl Alcohol		13.0 J	100	5.0	ug/l	SW846 8260B
Perchlorate		6.2	1.0	0.65	ug/l	EPA 314
Specific Conductivity		299	1.0	1.0	umhos/cm	SM2510 B-97
C46495-17	**PW13G340**					
Perchlorate		8.5	1.0	0.65	ug/l	EPA 314
Specific Conductivity		424	1.0	1.0	umhos/cm	SM2510 B-97

Summary of Hits

Job Number: C46495
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/11/16 thru 07/12/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46495-18	**MP5G740**					
Specific Conductivity		248	1.0	1.0	umhos/cm	SM2510 B-97

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	PW11G750		
Lab Sample ID:	C46495-1	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61625.D	1	07/19/16	CV	n/a	n/a	VW2334
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW11G750		
Lab Sample ID:	C46495-1	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.65	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	102%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW11G750		
Lab Sample ID:	C46495-1	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.87 J	1.0	0.65	ug/l	1	07/21/16 14:51	PH	EPA 314
Specific Conductivity	247	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW11G695		
Lab Sample ID:	C46495-2	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61626.D	1	07/19/16	CV	n/a	n/a	VW2334
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW11G695		
Lab Sample ID:	C46495-2	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.21	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	100%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW11G695		
Lab Sample ID:	C46495-2	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.83 J	1.0	0.65	ug/l	1	07/21/16 15:09	PH	EPA 314
Specific Conductivity	332	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW11G560		
Lab Sample ID:	C46495-3	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61627.D	1	07/19/16	CV	n/a	n/a	VW2334
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW11G560		
Lab Sample ID:	C46495-3	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.61	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	101%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW11G560		
Lab Sample ID:	C46495-3	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.94 J	1.0	0.65	ug/l	1	07/21/16 15:26	PH	EPA 314
Specific Conductivity	268	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW11G450		
Lab Sample ID:	C46495-4	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61628.D	1	07/19/16	CV	n/a	n/a	VW2334
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW11G450		
Lab Sample ID:	C46495-4	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	1.1	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW11G450		
Lab Sample ID:	C46495-4	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	18.2	1.0	0.65	ug/l	1	07/21/16 15:44	PH	EPA 314
Specific Conductivity	304	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW11G355		
Lab Sample ID:	C46495-5	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61629.D	1	07/19/16	CV	n/a	n/a	VW2334
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW11G355		
Lab Sample ID:	C46495-5	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.54	1.0	0.20	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	100%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW11G355		
Lab Sample ID:	C46495-5	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	22.3	1.0	0.65	ug/l	1	07/21/16 16:02	PH	EPA 314
Specific Conductivity	451	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW14G605		
Lab Sample ID:	C46495-6	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61630.D	1	07/19/16	CV	n/a	n/a	VW2334
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14G605		
Lab Sample ID:	C46495-6	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	101%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14G605		
Lab Sample ID:	C46495-6	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.3	1.0	0.65	ug/l	1	07/21/16 16:56	PH	EPA 314
Specific Conductivity	287	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW14G525		
Lab Sample ID:	C46495-7	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61631.D	1	07/19/16	CV	n/a	n/a	VW2334
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14G525		
Lab Sample ID:	C46495-7	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14G525		
Lab Sample ID:	C46495-7	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.96 J	1.0	0.65	ug/l	1	07/21/16 17:14	PH	EPA 314
Specific Conductivity	270	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW14G425		
Lab Sample ID:	C46495-8	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61632.D	1	07/19/16	CV	n/a	n/a	VW2334
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14G425		
Lab Sample ID:	C46495-8	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.62	1.0	0.20	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14G425		
Lab Sample ID:	C46495-8	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	45.5	1.0	0.65	ug/l	1	07/21/16 17:31	PH	EPA 314
Specific Conductivity	406	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW14H425		
Lab Sample ID:	C46495-9	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61647.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14H425		
Lab Sample ID:	C46495-9	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.49	1.0	0.20	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	100%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14H425		
Lab Sample ID:	C46495-9	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	42.7	1.0	0.65	ug/l	1	07/21/16 17:49	PH	EPA 314
Specific Conductivity	405	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW14G365		
Lab Sample ID:	C46495-10	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61648.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14G365		
Lab Sample ID:	C46495-10	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	100%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14G365		
Lab Sample ID:	C46495-10	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	18.5	1.0	0.65	ug/l	1	07/21/16 18:07	PH	EPA 314
Specific Conductivity	512	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW14G300		
Lab Sample ID:	C46495-11	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61649.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14G300		
Lab Sample ID:	C46495-11	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW14G300		
Lab Sample ID:	C46495-11	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	7.0	1.0	0.65	ug/l	1	07/21/16 18:25	PH	EPA 314
Specific Conductivity	297	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB1071116		
Lab Sample ID:	C46495-12	**Date Sampled:**	07/11/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61650.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071116		
Lab Sample ID:	C46495-12	**Date Sampled:**	07/11/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071116		
Lab Sample ID:	C46495-12	**Date Sampled:**	07/11/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/21/16 18:43	PH	EPA 314
Specific Conductivity	1.5	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW13G615		
Lab Sample ID:	C46495-13	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61676.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	6.7	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW13G615		
Lab Sample ID:	C46495-13	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW13G615		
Lab Sample ID:	C46495-13	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/21/16 19:01	PH	EPA 314
Specific Conductivity	277	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW13G525		
Lab Sample ID:	C46495-14	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61652.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW13G525		
Lab Sample ID:	C46495-14	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	100%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW13G525		
Lab Sample ID:	C46495-14	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.3	1.0	0.65	ug/l	1	07/21/16 19:18	PH	EPA 314
Specific Conductivity	296	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW13G475		
Lab Sample ID:	C46495-15	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61653.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW13G475		
Lab Sample ID:	C46495-15	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW13G475		
Lab Sample ID:	C46495-15	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/21/16 19:36	PH	EPA 314
Specific Conductivity	202	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW13G395		
Lab Sample ID:	C46495-16	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61677.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	13.0	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW13G395		
Lab Sample ID:	C46495-16	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW13G395		
Lab Sample ID:	C46495-16	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	6.2	1.0	0.65	ug/l	1	07/21/16 20:30	PH	EPA 314
Specific Conductivity	299	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW13G340		
Lab Sample ID:	C46495-17	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61655.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW13G340		
Lab Sample ID:	C46495-17	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW13G340		
Lab Sample ID:	C46495-17	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	8.5	1.0	0.65	ug/l	1	07/21/16 20:48	PH	EPA 314
Specific Conductivity	424	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP5G740		
Lab Sample ID:	C46495-18	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61656.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5G740		
Lab Sample ID:	C46495-18	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5G740		
Lab Sample ID:	C46495-18	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/21/16 21:06	PH	EPA 314
Specific Conductivity	248	1.0	1.0	umhos/cm	1	07/17/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS ACCUTEST

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

Page 1 of 2

FEDEX Tracking # 8095 1456 0377
SGS Accutest Quote #
Bottle Order Control #
SGS Accutest NC Job #: C46495

Client / Reporting Information

Company Name: EnSafe
Address: 2151 Salvio St.
City: Concord State: CA Zip: 94520
Project Contact: Shawn Winter
Phone #: 615-252-2853
Samplers's Name: Robert Torres

Project Information

Project Name: UTC-RFF Superfund
Street:
City: Rialto State: CA
Project #: 08888 18881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MeOH	ENCORE	VOC (8260B)	Perchlorate E314	LAB USE ONLY
1	PW11G750	7-11	1100	RT	GW	4	3				1				X	X	
2	PW11G695	7-11	1132	RT	GW	4	3				1				X	X	
3	PW11G560	7-11	1200	RT	GW	4	3				1				X	X	
4	PW11G450	7-11	1228	RT	GW	4	3				1				X	X	
5	PW11G355	7-11	1254	RT	GW	4	3				1				X	X	
6	PW14G605	7-11	1445	RT	GW	4	3				1				X	X	
7	PW14G525	7-11	1510	RT	GW	4	3				1				X	X	
8	PW14G425	7-11	1538	RT	GW	4	3				1				X	X	
9	PW14H425	7-11	1540	RT	GW	4	3				1				X	X	
10	PW14G365	7-11	1605	RT	GW	4	3				1				X	X	

Turnaround Time (Business days)

Approved By / Date:

- [X] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULL1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

IRVINE

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Robert Torres	7-12-16 / 1305	1 7-12-16 1305	2	7-12-16 1400	2 FEDX
Relinquished by: 3 FEDX 7/13/16 0970	Date Time:	Received By: 3	4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # INTACT	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N	Headspace Y / N; Separate Receiving Check List used: Y / N; On Ice Y / N; Cooler Temp. 3.1/4.1 °C

AZ

SY

CHAIN OF CUSTODY

SGS ACCUTEST

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #:
Bottle Order Control #:
SGS Accutest Quote #:
SGS Accutest NC Job #: C46495

Client / Reporting Information

Company Name: EnSafe
Address: 2151 Salvio St.
City: Concord State: CA Zip: 94520
Project Contact: Shaun Winter
Phone #: 615-252-2853
Samplers's Name: Robert Torres

Project Information

Project Name: UTC-RFF Superfund
Street:
City: Rialto State: CA
Project #: 08888 18881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC (8260)	Perchlorate (E314)	LAB USE ONLY
11	PW14G300	7-11	1634	RT	GW	4	3				1				X	X	
12	EB1071116	7-11	1622	RT	WQ	4	3				1				X	X	
13	PW13G615	7-12	0905	RT	GW	4	3				1				X	X	
14	PW13G525	7-12	0929	RT	GW	4	3				1				X	X	
15	PW13G475	7-12	0951	RT	GW	4	3				1				X	X	
16	PW13G395	7-12	1014	RT	GW	4	3				1				X	X	
17	PW13G340	7-12	1035	RT	GW	4	3				1				X	X	
18	MP5G740	7-12	1300	RT	GW	4	3				1				X	X	
RT	~~MP5G630~~	~~7-12~~		~~RT~~	~~GW~~	~~4~~	~~3~~				~~1~~				~~X~~	~~X~~	
RT	~~MP5H630~~	~~7-12~~		~~RT~~	~~GW~~	~~4~~	~~3~~				~~1~~				~~X~~	~~X~~	

Turnaround Time (Business days) — Approved By / Date:

- [X] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] EULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

IRVINE

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Robert Torres	7-12-16 1305	1 7-12 1305	2	7-12-16 1400	2 FEDX
Relinquished by: 3 FEDX 7/13/16 0930	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished By: 5	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N	Headspace Y / N; On Ice Y / N; Separate Receiving Check List used: Y / N; Cooler Temp. 4.7 °C

A2

5.1 5

C46495: Chain of Custody
Page 2 of 3

SGS Accutest Sample Receipt Summary

Job Number: C46495 **Client:** ENSAFE **Project:** UTC-RFF SUPERFUND

Date / Time Received: 7/13/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 809514560377

Cooler Temps (Initial/Adjusted): #1: (3.1/4.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR3;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2334-MB	W61624.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2334-MB	W61624.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	0.27	1.0	0.26	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	80-123%
2037-26-5	Toluene-D8	100%	88-112%
460-00-4	4-Bromofluorobenzene	98%	79-114%

Method Blank Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2335-MB	W61646.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-9, C46495-10, C46495-11, C46495-12, C46495-14, C46495-15, C46495-17, C46495-18

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2335-MB	W61646.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-9, C46495-10, C46495-11, C46495-12, C46495-14, C46495-15, C46495-17, C46495-18

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	80-123%
2037-26-5	Toluene-D8	100%	88-112%
460-00-4	4-Bromofluorobenzene	98%	79-114%

Method Blank Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2337-MB	W61674.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-13, C46495-16

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2337-MB	W61674.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-13, C46495-16

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	80-123%
2037-26-5	Toluene-D8	100%	88-112%
460-00-4	4-Bromofluorobenzene	97%	79-114%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2334-BS	W61621.D	1	07/19/16	CV	n/a	n/a	VW2334
VW2334-BSD	W61622.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	20.1	101	20.5	103	2	76-120/10
108-90-7	Chlorobenzene	20	19.2	96	19.2	96	0	79-119/10
75-00-3	Chloroethane	20	22.7	114	22.3	112	2	60-115/14
67-66-3	Chloroform	20	19.5	98	19.8	99	2	75-122/10
56-23-5	Carbon tetrachloride	20	20.6	103	20.8	104	1	72-128/13
75-34-3	1,1-Dichloroethane	20	20.1	101	20.5	103	2	70-121/10
75-35-4	1,1-Dichloroethylene	20	19.6	98	19.7	99	1	62-125/13
106-93-4	1,2-Dibromoethane	20	19.7	99	20.0	100	2	81-124/10
107-06-2	1,2-Dichloroethane	20	18.9	95	19.4	97	3	74-122/10
78-87-5	1,2-Dichloropropane	20	20.2	101	20.7	104	2	75-123/10
75-71-8	Dichlorodifluoromethane	20	21.4	107	20.0	100	7	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	20.8	104	21.2	106	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.3	107	21.7	109	2	76-131/10
541-73-1	m-Dichlorobenzene	20	19.8	99	19.8	99	0	79-121/10
95-50-1	o-Dichlorobenzene	20	19.5	98	19.9	100	2	79-120/10
106-46-7	p-Dichlorobenzene	20	19.6	98	19.6	98	0	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	20.1	101	20.2	101	0	73-125/10
100-41-4	Ethylbenzene	20	19.7	99	19.9	100	1	78-123/10
76-13-1	Freon 113	20	20.6	103	21.0	105	2	59-129/18
87-68-3	Hexachlorobutadiene	20	20.4	102	20.8	104	2	70-130/12
67-63-0	Isopropyl Alcohol	400	478	120	480	120	0	49-148/17
74-83-9	Methyl bromide	20	21.2	106	21.6	108	2	65-124/13
74-87-3	Methyl chloride	20	19.5	98	18.9	95	3	47-143/20
75-09-2	Methylene chloride	20	19.5	98	20.0	100	3	65-124/15
100-42-5	Styrene	20	20.2	101	20.4	102	1	73-126/10
71-55-6	1,1,1-Trichloroethane	20	20.6	103	20.8	104	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	20.9	105	21.3	107	2	78-127/10
79-00-5	1,1,2-Trichloroethane	20	19.8	99	20.0	100	1	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	19.8	99	20.1	101	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	20.0	100	20.1	101	0	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	20.4	102	20.3	102	0	79-130/10
127-18-4	Tetrachloroethylene	20	17.9	90	17.9	90	0	72-124/13
108-88-3	Toluene	20	19.7	99	19.8	99	1	78-121/10
79-01-6	Trichloroethylene	20	20.1	101	20.3	102	1	75-119/10
75-69-4	Trichlorofluoromethane	20	19.4	97	18.3	92	6	68-130/19
75-01-4	Vinyl chloride	20	21.2	106	22.2	111	5	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2334-BS	W61621.D	1	07/19/16	CV	n/a	n/a	VW2334
VW2334-BSD	W61622.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	39.1	98	39.4	99	1	78-123/10
95-47-6	o-Xylene	20	19.1	96	19.5	98	2	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	100%	80-123%
2037-26-5	Toluene-D8	100%	100%	88-112%
460-00-4	4-Bromofluorobenzene	100%	99%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2335-BS	W61643.D	1	07/20/16	CV	n/a	n/a	VW2335
VW2335-BSD	W61644.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-9, C46495-10, C46495-11, C46495-12, C46495-14, C46495-15, C46495-17, C46495-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	19.8	99	20.4	102	3	76-120/10
108-90-7	Chlorobenzene	20	19.1	96	19.6	98	3	79-119/10
75-00-3	Chloroethane	20	21.6	108	22.3	112	3	60-115/14
67-66-3	Chloroform	20	20.0	100	20.2	101	1	75-122/10
56-23-5	Carbon tetrachloride	20	20.6	103	21.3	107	3	72-128/13
75-34-3	1,1-Dichloroethane	20	19.9	100	20.5	103	3	70-121/10
75-35-4	1,1-Dichloroethylene	20	19.2	96	20.1	101	5	62-125/13
106-93-4	1,2-Dibromoethane	20	19.9	100	20.1	101	1	81-124/10
107-06-2	1,2-Dichloroethane	20	19.9	100	20.2	101	1	74-122/10
78-87-5	1,2-Dichloropropane	20	19.8	99	20.3	102	2	75-123/10
75-71-8	Dichlorodifluoromethane	20	21.9	110	20.3	102	8	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	20.8	104	21.2	106	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.0	105	21.6	108	3	76-131/10
541-73-1	m-Dichlorobenzene	20	19.7	99	20.0	100	2	79-121/10
95-50-1	o-Dichlorobenzene	20	19.9	100	19.7	99	1	79-120/10
106-46-7	p-Dichlorobenzene	20	19.8	99	19.7	99	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	19.9	100	20.2	101	1	73-125/10
100-41-4	Ethylbenzene	20	19.6	98	20.1	101	3	78-123/10
76-13-1	Freon 113	20	19.7	99	21.0	105	6	59-129/18
87-68-3	Hexachlorobutadiene	20	20.5	103	20.3	102	1	70-130/12
67-63-0	Isopropyl Alcohol	400	486	122	519	130	7	49-148/17
74-83-9	Methyl bromide	20	20.7	104	20.5	103	1	65-124/13
74-87-3	Methyl chloride	20	18.5	93	17.9	90	3	47-143/20
75-09-2	Methylene chloride	20	19.2	96	19.6	98	2	65-124/15
100-42-5	Styrene	20	20.2	101	20.8	104	3	73-126/10
71-55-6	1,1,1-Trichloroethane	20	20.7	104	21.3	107	3	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	20.9	105	21.0	105	0	78-127/10
79-00-5	1,1,2-Trichloroethane	20	19.7	99	20.0	100	2	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	20.0	100	20.2	101	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	19.7	99	20.0	100	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	19.9	100	20.2	101	1	79-130/10
127-18-4	Tetrachloroethylene	20	17.6	88	19.8	99	12	72-124/13
108-88-3	Toluene	20	19.4	97	20.1	101	4	78-121/10
79-01-6	Trichloroethylene	20	19.9	100	20.6	103	3	75-119/10
75-69-4	Trichlorofluoromethane	20	19.7	99	19.2	96	3	68-130/19
75-01-4	Vinyl chloride	20	20.9	105	20.9	105	0	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2335-BS	W61643.D	1	07/20/16	CV	n/a	n/a	VW2335
VW2335-BSD	W61644.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-9, C46495-10, C46495-11, C46495-12, C46495-14, C46495-15, C46495-17, C46495-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	38.5	96	39.6	99	3	78-123/10
95-47-6	o-Xylene	20	19.0	95	19.7	99	4	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	102%	80-123%
2037-26-5	Toluene-D8	98%	100%	88-112%
460-00-4	4-Bromofluorobenzene	98%	100%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2337-BS	W61671.D	1	07/21/16	CV	n/a	n/a	VW2337
VW2337-BSD	W61672.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-13, C46495-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	19.6	98	19.2	96	2	76-120/10
108-90-7	Chlorobenzene	20	19.1	96	18.9	95	1	79-119/10
75-00-3	Chloroethane	20	21.5	108	21.4	107	0	60-115/14
67-66-3	Chloroform	20	19.6	98	19.9	100	2	75-122/10
56-23-5	Carbon tetrachloride	20	21.4	107	20.9	105	2	72-128/13
75-34-3	1,1-Dichloroethane	20	19.1	96	19.3	97	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	18.6	93	18.5	93	1	62-125/13
106-93-4	1,2-Dibromoethane	20	20.1	101	20.0	100	0	81-124/10
107-06-2	1,2-Dichloroethane	20	21.1	106	20.3	102	4	74-122/10
78-87-5	1,2-Dichloropropane	20	19.1	96	19.4	97	2	75-123/10
75-71-8	Dichlorodifluoromethane	20	23.8	119	22.6	113	5	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	20.1	101	20.4	102	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.3	107	20.8	104	2	76-131/10
541-73-1	m-Dichlorobenzene	20	19.5	98	19.2	96	2	79-121/10
95-50-1	o-Dichlorobenzene	20	19.5	98	19.5	98	0	79-120/10
106-46-7	p-Dichlorobenzene	20	19.2	96	18.9	95	2	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	20.0	100	19.9	100	1	73-125/10
100-41-4	Ethylbenzene	20	19.3	97	19.1	96	1	78-123/10
76-13-1	Freon 113	20	19.9	100	20.1	101	1	59-129/18
87-68-3	Hexachlorobutadiene	20	19.9	100	19.5	98	2	70-130/12
67-63-0	Isopropyl Alcohol	400	423	106	441	110	4	49-148/17
74-83-9	Methyl bromide	20	20.6	103	20.7	104	0	65-124/13
74-87-3	Methyl chloride	20	17.4	87	17.5	88	1	47-143/20
75-09-2	Methylene chloride	20	18.7	94	18.7	94	0	65-124/15
100-42-5	Styrene	20	20.2	101	20.1	101	0	73-126/10
71-55-6	1,1,1-Trichloroethane	20	20.9	105	20.7	104	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	19.8	99	20.5	103	3	78-127/10
79-00-5	1,1,2-Trichloroethane	20	19.5	98	19.5	98	0	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	20.1	101	19.7	99	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	19.3	97	19.0	95	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	19.3	97	19.2	96	1	79-130/10
127-18-4	Tetrachloroethylene	20	17.7	89	18.7	94	5	72-124/13
108-88-3	Toluene	20	19.1	96	18.9	95	1	78-121/10
79-01-6	Trichloroethylene	20	19.8	99	19.8	99	0	75-119/10
75-69-4	Trichlorofluoromethane	20	21.8	109	21.4	107	2	68-130/19
75-01-4	Vinyl chloride	20	20.6	103	20.8	104	1	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2337-BS	W61671.D	1	07/21/16	CV	n/a	n/a	VW2337
VW2337-BSD	W61672.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-13, C46495-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	38.7	97	38.1	95	2	78-123/10
95-47-6	o-Xylene	20	19.3	97	18.8	94	3	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	100%	80-123%
2037-26-5	Toluene-D8	98%	98%	88-112%
460-00-4	4-Bromofluorobenzene	100%	100%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-1MS	W61634.D	1	07/19/16	CV	n/a	n/a	VW2334
C46541-1MSD	W61635.D	1	07/19/16	CV	n/a	n/a	VW2334
C46541-1	W61633.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8

CAS No.	Compound	C46541-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	21.4	107	20	21.5	108	0	76-120/10
108-90-7	Chlorobenzene	ND		20	21.2	106	20	21.1	106	0	79-119/10
75-00-3	Chloroethane	ND		20	23.3	117* [a]	20	21.0	105	10	60-115/14
67-66-3	Chloroform	0.41	J	20	22.1	108	20	22.1	108	0	75-122/10
56-23-5	Carbon tetrachloride	ND		20	25.2	126	20	25.1	126	0	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	21.0	105	20	21.2	106	1	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	22.1	111	20	21.7	109	2	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	21.2	106	20	21.4	107	1	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	22.4	112	20	22.6	113	1	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	20.3	102	20	20.5	103	1	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	27.2	136	20	28.1	141	3	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	22.1	111	20	22.1	111	0	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	22.1	111	20	22.2	111	0	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	20.7	104	20	21.1	106	2	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	20.7	104	20	20.9	105	1	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	20.6	103	20	20.7	104	0	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	21.2	106	20	21.3	107	0	73-125/10
100-41-4	Ethylbenzene	ND		20	22.2	111	20	21.9	110	1	78-123/10
76-13-1	Freon 113	ND		20	23.8	119	20	23.6	118	1	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	21.5	108	20	22.1	111	3	70-130/12
67-63-0	Isopropyl Alcohol	ND		400	431	108	400	475	119	10	49-148/17
74-83-9	Methyl bromide	ND		20	22.3	112	20	19.5	98	13	65-124/13
74-87-3	Methyl chloride	ND		20	18.4	92	20	19.3	97	5	47-143/20
75-09-2	Methylene chloride	ND		20	20.0	100	20	20.0	100	0	65-124/15
100-42-5	Styrene	ND		20	22.3	112	20	22.2	111	0	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	24.4	122	20	24.1	121	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	20.3	102	20	21.5	108	6	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	20.7	104	20	21.2	106	2	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	20.6	103	20	21.2	106	3	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	21.1	106	20	21.2	106	0	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	21.6	108	20	21.4	107	1	79-130/10
127-18-4	Tetrachloroethylene	0.64	J	20	21.7	105	20	21.4	104	1	72-124/13
108-88-3	Toluene	ND		20	21.6	108	20	21.5	108	0	78-121/10
79-01-6	Trichloroethylene	ND		20	22.7	114	20	22.7	114	0	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	25.5	128	20	27.2	136* [a]	6	68-130/19
75-01-4	Vinyl chloride	ND		20	22.5	113	20	20.4	102	10	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-1MS	W61634.D	1	07/19/16	CV	n/a	n/a	VW2334
C46541-1MSD	W61635.D	1	07/19/16	CV	n/a	n/a	VW2334
C46541-1	W61633.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8

CAS No.	Compound	C46541-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	44.1	110	40	43.4	109	2	78-123/10
95-47-6	o-Xylene	ND		20	21.6	108	20	21.2	106	2	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46541-1	Limits
1868-53-7	Dibromofluoromethane	100%	99%	97%	80-123%
2037-26-5	Toluene-D8	98%	98%	99%	88-112%
460-00-4	4-Bromofluorobenzene	100%	103%	96%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46495-9MS	W61662.D	1	07/20/16	CV	n/a	n/a	VW2335
C46495-9MSD	W61663.D	1	07/21/16	CV	n/a	n/a	VW2335
C46495-9	W61647.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-9, C46495-10, C46495-11, C46495-12, C46495-14, C46495-15, C46495-17, C46495-18

CAS No.	Compound	C46495-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	20.9	105	20	20.9	105	0	76-120/10
108-90-7	Chlorobenzene	ND		20	21.2	106	20	20.9	105	1	79-119/10
75-00-3	Chloroethane	ND		20	21.2	106	20	22.1	111	4	60-115/14
67-66-3	Chloroform	ND		20	22.4	112	20	21.7	109	3	75-122/10
56-23-5	Carbon tetrachloride	ND		20	26.9	135* [a]	20	25.6	128	5	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	20.6	103	20	20.6	103	0	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	21.2	106	20	21.2	106	0	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	21.4	107	20	21.0	105	2	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	23.9	120	20	23.3	117	3	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	19.8	99	20	19.8	99	0	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	27.8	139	20	27.7	139	0	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	21.8	109	20	21.6	108	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	22.0	110	20	21.8	109	1	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	20.9	105	20	20.9	105	0	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	21.0	105	20	20.8	104	1	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	21.1	106	20	20.6	103	2	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	21.1	106	20	21.1	106	0	73-125/10
100-41-4	Ethylbenzene	ND		20	22.0	110	20	21.8	109	1	78-123/10
76-13-1	Freon 113	ND		20	24.1	121	20	23.4	117	3	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	21.4	107	20	22.1	111	3	70-130/12
67-63-0	Isopropyl Alcohol	ND		400	443	111	400	460	115	4	49-148/17
74-83-9	Methyl bromide	ND		20	22.2	111	20	21.2	106	5	65-124/13
74-87-3	Methyl chloride	ND		20	17.5	88	20	18.3	92	4	47-143/20
75-09-2	Methylene chloride	ND		20	19.2	96	20	19.3	97	1	65-124/15
100-42-5	Styrene	ND		20	22.3	112	20	21.9	110	2	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	25.4	127* [a]	20	24.5	123	4	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	20.4	102	20	20.2	101	1	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	20.5	103	20	20.4	102	0	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	21.2	106	20	21.0	105	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	21.0	105	20	20.8	104	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	21.2	106	20	21.2	106	0	79-130/10
127-18-4	Tetrachloroethylene	ND		20	21.1	106	20	20.5	103	3	72-124/13
108-88-3	Toluene	ND		20	21.1	106	20	21.1	106	0	78-121/10
79-01-6	Trichloroethylene	0.49	J	20	23.3	114	20	23.1	113	1	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	26.8	134* [a]	20	25.7	129	4	68-130/19
75-01-4	Vinyl chloride	ND		20	19.7	99	20	21.8	109	10	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46495-9MS	W61662.D	1	07/20/16	CV	n/a	n/a	VW2335
C46495-9MSD	W61663.D	1	07/21/16	CV	n/a	n/a	VW2335
C46495-9	W61647.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-9, C46495-10, C46495-11, C46495-12, C46495-14, C46495-15, C46495-17, C46495-18

CAS No.	Compound	C46495-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	43.8	110	40	43.2	108	1	78-123/10
95-47-6	o-Xylene	ND		20	21.6	108	20	21.5	108	0	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46495-9	Limits
1868-53-7	Dibromofluoromethane	100%	99%	97%	80-123%
2037-26-5	Toluene-D8	96%	97%	100%	88-112%
460-00-4	4-Bromofluorobenzene	103%	104%	97%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-7MS	W61689.D	1	07/21/16	CV	n/a	n/a	VW2337
C46541-7MSD	W61690.D	1	07/21/16	CV	n/a	n/a	VW2337
C46541-7	W61678.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-13, C46495-16

CAS No.	Compound	C46541-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	21.0	105	20	20.5	103	2	76-120/10
108-90-7	Chlorobenzene	ND		20	20.9	105	20	20.2	101	3	79-119/10
75-00-3	Chloroethane	ND		20	20.8	104	20	22.2	111	7	60-115/14
67-66-3	Chloroform	ND		20	22.4	112	20	21.5	108	4	75-122/10
56-23-5	Carbon tetrachloride	ND		20	27.0	135* [a]	20	25.7	129* [a]	5	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	20.3	102	20	20.4	102	0	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	20.8	104	20	20.8	104	0	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	20.6	103	20	20.0	100	3	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	24.1	121	20	22.4	112	7	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	19.4	97	20	19.1	96	2	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	26.5	133	20	27.1	136	2	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	21.6	108	20	21.4	107	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	22.3	112	20	21.1	106	6	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	21.0	105	20	20.3	102	3	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	20.8	104	20	20.4	102	2	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	20.7	104	20	20.3	102	2	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	21.0	105	20	20.1	101	4	73-125/10
100-41-4	Ethylbenzene	ND		20	21.7	109	20	21.0	105	3	78-123/10
76-13-1	Freon 113	ND		20	23.4	117	20	23.1	116	1	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	22.1	111	20	22.4	112	1	70-130/12
67-63-0	Isopropyl Alcohol	23.4	J	400	409	96	400	407	96	0	49-148/17
74-83-9	Methyl bromide	ND		20	21.9	110	20	21.8	109	0	65-124/13
74-87-3	Methyl chloride	ND		20	17.2	86	20	18.7	94	8	47-143/20
75-09-2	Methylene chloride	ND		20	19.1	96	20	18.6	93	3	65-124/15
100-42-5	Styrene	ND		20	22.2	111	20	21.1	106	5	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	25.6	128* [a]	20	24.6	123	4	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	19.1	96	20	19.4	97	2	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	19.6	98	20	18.9	95	4	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	21.0	105	20	20.5	103	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	21.0	105	20	20.6	103	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	21.1	106	20	20.8	104	1	79-130/10
127-18-4	Tetrachloroethylene	ND		20	20.9	105	20	19.8	99	5	72-124/13
108-88-3	Toluene	ND		20	20.8	104	20	20.3	102	2	78-121/10
79-01-6	Trichloroethylene	ND		20	23.3	117	20	22.3	112	4	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	26.6	133* [a]	20	25.7	129	3	68-130/19
75-01-4	Vinyl chloride	ND		20	21.4	107	20	22.5	113	5	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46495
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-7MS	W61689.D	1	07/21/16	CV	n/a	n/a	VW2337
C46541-7MSD	W61690.D	1	07/21/16	CV	n/a	n/a	VW2337
C46541-7	W61678.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46495-13, C46495-16

CAS No.	Compound	C46541-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	43.7	109	40	41.9	105	4	78-123/10
95-47-6	o-Xylene	ND		20	21.4	107	20	20.5	103	4	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46541-7	Limits
1868-53-7	Dibromofluoromethane	101%	101%	100%	80-123%
2037-26-5	Toluene-D8	95%	96%	98%	88-112%
460-00-4	4-Bromofluorobenzene	104%	102%	98%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46495
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Perchlorate	GP9610/GN19361	3.0	0.0	ug/l	25	23.6	94.4	85-115%
Specific Conductivity	GN19312	1.0	0.0	umhos/cm				

Associated Samples:
Batch GP9610: C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8, C46495-9, C46495-10, C46495-11, C46495-12, C46495-13, C46495-14, C46495-15, C46495-16, C46495-17, C46495-18
Batch GN19312: C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8, C46495-9, C46495-10, C46495-11, C46495-12, C46495-13, C46495-14, C46495-15, C46495-16, C46495-17, C46495-18
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46495
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Perchlorate	GP9610/GN19361	ug/l	25	24.8	5.0	10%

Associated Samples:
Batch GP9610: C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8, C46495-9, C46495-10, C46495-11, C46495-12, C46495-13, C46495-14, C46495-15, C46495-16, C46495-17, C46495-18
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46495
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GN19312	C46495-10	umhos/cm	512	513	0.2	0-10%

Associated Samples:
Batch GN19312: C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8, C46495-9, C46495-10, C46495-11, C46495-12, C46495-13, C46495-14, C46495-15, C46495-16, C46495-17, C46495-18
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46495
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Perchlorate	GP9610/GN19361	C46541-1	ug/l	1.1	25	24.9	95.2	80-120%

Associated Samples:
Batch GP9610: C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8, C46495-9, C46495-10, C46495-11, C46495-12, C46495-13, C46495-14, C46495-15, C46495-16, C46495-17, C46495-18
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46495
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Perchlorate	GP9610/GN19361	C46541-1	ug/l	1.1	25	24.8	0.4	15%

Associated Samples:
Batch GP9610: C46495-1, C46495-2, C46495-3, C46495-4, C46495-5, C46495-6, C46495-7, C46495-8, C46495-9, C46495-10, C46495-11, C46495-12, C46495-13, C46495-14, C46495-15, C46495-16, C46495-17, C46495-18
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

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Automated Report

Technical Report for

United Technology Corporation

ENSTNM: UTC RFF Superfund Site - Rialto, CA

0888818881

SGS Accutest Job Number: C46541

Sampling Dates: 07/12/16 - 07/14/16

Report to:

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Total number of pages in report: **141**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Elvin Kumar 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Sample Summary

United Technology Corporation

Job No: C46541

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 0888818881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46541-1	07/12/16	14:00	RT	07/16/16	AQ	Ground Water	MP5G507
C46541-1D	07/12/16	14:00	RT	07/16/16	AQ	Water Dup/MSD	MP5G507
C46541-1S	07/12/16	14:00	RT	07/16/16	AQ	Water Matrix Spike	MP5G507
C46541-2	07/12/16	14:25	RT	07/16/16	AQ	Ground Water	MP5G412
C46541-3	07/12/16	14:45	RT	07/16/16	AQ	Ground Water	MP5G357
C46541-4	07/12/16	13:29	RT	07/16/16	AQ	Ground Water	MP5G630
C46541-5	07/12/16	13:31	RT	07/16/16	AQ	Ground Water	MP5H630
C46541-6	07/12/16	14:18	RT	07/16/16	AQ	Equipment Blank	EB1071216
C46541-7	07/13/16	09:11	RT	07/16/16	AQ	Ground Water	CPW17G712
C46541-8	07/13/16	09:37	RT	07/16/16	AQ	Ground Water	CPW17G612
C46541-9	07/13/16	10:03	RT	07/16/16	AQ	Ground Water	CPW17G563
C46541-10	07/13/16	10:31	RT	07/16/16	AQ	Ground Water	CPW17G503
C46541-11	07/13/16	10:53	RT	07/16/16	AQ	Ground Water	CPW17G413

SGS Accutest

Sample Summary
(continued)

United Technology Corporation

Job No: C46541

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 0888818881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46541-12	07/13/16	11:16	RT	07/16/16	AQ	Ground Water	CPW17G313
C46541-13	07/13/16	13:40	RT	07/16/16	AQ	Ground Water	CPW16G753
C46541-14	07/13/16	14:12	RT	07/16/16	AQ	Ground Water	CPW16G718
C46541-15	07/13/16	14:38	RT	07/16/16	AQ	Ground Water	CPW16G638
C46541-16	07/14/16	08:12	RT	07/16/16	AQ	Ground Water	CPW16G513
C46541-17	07/14/16	08:32	RT	07/16/16	AQ	Ground Water	CPW16G417
C46541-18	07/14/16	08:53	RT	07/16/16	AQ	Ground Water	CPW16G378
C46541-19	07/14/16	09:10	RT	07/16/16	AQ	Ground Water	CPW16G295
C46541-20	07/14/16	09:12	RT	07/16/16	AQ	Ground Water	CPW16H295
C46541-21	07/13/16	14:49	RT	07/16/16	AQ	Equipment Blank	EB1071316
C46541-22	07/14/16	10:52	RT	07/16/16	AQ	Ground Water	MP8G722
C46541-23	07/14/16	11:16	RT	07/16/16	AQ	Ground Water	MP8G607
C46541-24	07/14/16	11:43	RT	07/16/16	AQ	Ground Water	MP8G492

SGS Accutest

Sample Summary
(continued)

United Technology Corporation

Job No: C46541

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 0888818881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46541-24D	07/14/16	11:43	RT	07/16/16	AQ	Water Dup/MSD	MP8G492
C46541-24S	07/14/16	11:43	RT	07/16/16	AQ	Water Matrix Spike	MP8G492
C46541-25	07/14/16	12:10	RT	07/16/16	AQ	Ground Water	MP8G397
C46541-26	07/14/16	12:12	RT	07/16/16	AQ	Ground Water	MP8H397
C46541-27	07/14/16	12:30	RT	07/16/16	AQ	Ground Water	MP8G347
C46541-28	07/14/16	11:51	RT	07/16/16	AQ	Equipment Blank	EB1071416
C46541-29	07/14/16	14:33	RT	07/16/16	AQ	Ground Water	PW12G725
C46541-30	07/14/16	15:00	RT	07/16/16	AQ	Ground Water	PW12G555
C46541-31	07/12/16	00:00	RT	07/16/16	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	C46541
Site:	ENSTNM: UTC RFF Superfund Site - Rialto, CA	**Report Date**	8/1/2016 7:26:28 PM

30 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected between 07/12/2016 and 07/14/2016 and were received at Accutest on 07/16/2016 properly preserved, at 3.4 Deg. C and intact. These Samples received an Accutest job number of C46541. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VW2334

- Sample(s) C46541-1MS, C46541-1MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Chloroethane, Trichlorofluoromethane are outside laboratory control limits. Probable cause due to matrix interference.

Matrix: AQ **Batch ID:** VW2335

- Sample(s) C46495-9MS, C46495-9MSD were used as the QC samples indicated.
- Sample(s) C46541-2, C46541-3, C46541-4, C46541-5, C46541-6 have for Isopropyl Alcohol a CCV outside of control limits (biased high); not detected in samples.
- Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, Carbon tetrachloride, Trichlorofluoromethane are outside laboratory control limits. Probable cause due to matrix interference.

Matrix: AQ **Batch ID:** VW2337

- Sample(s) C46541-7MS, C46541-7MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 1,1,1-Trichloroethane, Carbon tetrachloride, Trichlorofluoromethane are outside laboratory control limits. Probable cause due to matrix interference.

Matrix: AQ **Batch ID:** VW2338

- Sample(s) C46541-24MS, C46541-24MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Carbon tetrachloride, Trichlorofluoromethane are outside laboratory control limits. Probable cause due to matrix interference.

Wet Chemistry By Method EPA 314

Matrix: AQ **Batch ID:** GP9610

- Sample(s) C46541-1MS, C46541-1MSD were used as the QC samples for Perchlorate.

Matrix: AQ **Batch ID:** GP9621

- Sample(s) C46541-3MS, C46541-3MSD were used as the QC samples for Perchlorate.

Matrix: AQ **Batch ID:** GP9633

- Sample(s) C46541-24MS, C46541-24MSD were used as the QC samples for Perchlorate.

Wet Chemistry By Method SM2510 B-97

Matrix: AQ **Batch ID:** GN19314

- Sample(s) C46541-11DUP, C46541-1DUP were used as the QC samples for Specific Conductivity.

Matrix: AQ **Batch ID:** GN19315

- Sample(s) C46541-24DUP were used as the QC samples for Specific Conductivity.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C46541
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/12/16 thru 07/14/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46541-1	**MP5G507**					
Chloroform		0.41 J	1.0	0.20	ug/l	SW846 8260B
Tetrachloroethylene		0.64 J	1.0	0.30	ug/l	SW846 8260B
Perchlorate		1.1	1.0	0.65	ug/l	EPA 314
Specific Conductivity		299	1.0	1.0	umhos/cm	SM2510 B-97
C46541-2	**MP5G412**					
Tetrachloroethylene		1.8	1.0	0.30	ug/l	SW846 8260B
Perchlorate		5.1	1.0	0.65	ug/l	EPA 314
Specific Conductivity		318	1.0	1.0	umhos/cm	SM2510 B-97
C46541-3	**MP5G357**					
Perchlorate		2.4	1.0	0.65	ug/l	EPA 314
Specific Conductivity		468	1.0	1.0	umhos/cm	SM2510 B-97
C46541-4	**MP5G630**					
Perchlorate		0.99 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		236	1.0	1.0	umhos/cm	SM2510 B-97
C46541-5	**MP5H630**					
Perchlorate		1.1	1.0	0.65	ug/l	EPA 314
Specific Conductivity		240	1.0	1.0	umhos/cm	SM2510 B-97
C46541-6	**EB1071216**					
Specific Conductivity		1.7	1.0	1.0	umhos/cm	SM2510 B-97
C46541-7	**CPW17G712**					
Isopropyl Alcohol		23.4 J	100	5.0	ug/l	SW846 8260B
Perchlorate		1.4	1.0	0.65	ug/l	EPA 314
Specific Conductivity		230	1.0	1.0	umhos/cm	SM2510 B-97
C46541-8	**CPW17G612**					
Isopropyl Alcohol		21.2 J	100	5.0	ug/l	SW846 8260B
Perchlorate		1.1	1.0	0.65	ug/l	EPA 314
Specific Conductivity		248	1.0	1.0	umhos/cm	SM2510 B-97

Summary of Hits

Job Number: C46541
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/12/16 thru 07/14/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46541-9	**CPW17G563**					
Perchlorate		0.94 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		265	1.0	1.0	umhos/cm	SM2510 B-97
C46541-10	**CPW17G503**					
Perchlorate		0.83 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		289	1.0	1.0	umhos/cm	SM2510 B-97
C46541-11	**CPW17G413**					
Perchlorate		1.7	1.0	0.65	ug/l	EPA 314
Specific Conductivity		270	1.0	1.0	umhos/cm	SM2510 B-97
C46541-12	**CPW17G313**					
Perchlorate		2.8	1.0	0.65	ug/l	EPA 314
Specific Conductivity		350	1.0	1.0	umhos/cm	SM2510 B-97
C46541-13	**CPW16G753**					
Perchlorate		1.7	1.0	0.65	ug/l	EPA 314
Specific Conductivity		239	1.0	1.0	umhos/cm	SM2510 B-97
C46541-14	**CPW16G718**					
Perchlorate		1.3	1.0	0.65	ug/l	EPA 314
Specific Conductivity		249	1.0	1.0	umhos/cm	SM2510 B-97
C46541-15	**CPW16G638**					
Specific Conductivity		319	1.0	1.0	umhos/cm	SM2510 B-97
C46541-16	**CPW16G513**					
Isopropyl Alcohol		20.8 J	100	5.0	ug/l	SW846 8260B
Perchlorate		0.77 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		217	1.0	1.0	umhos/cm	SM2510 B-97
C46541-17	**CPW16G417**					
Trichloroethylene		2.6	1.0	0.20	ug/l	SW846 8260B
Perchlorate		134	5.0	3.3	ug/l	EPA 314
Specific Conductivity		406	1.0	1.0	umhos/cm	SM2510 B-97

Summary of Hits

Job Number: C46541
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/12/16 thru 07/14/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46541-18	**CPW16G378**					
Isopropyl Alcohol		13.2 J	100	5.0	ug/l	SW846 8260B
Trichloroethylene		1.8	1.0	0.20	ug/l	SW846 8260B
Perchlorate		87.8	5.0	3.3	ug/l	EPA 314
Specific Conductivity		463	1.0	1.0	umhos/cm	SM2510 B-97
C46541-19	**CPW16G295**					
Isopropyl Alcohol		21.6 J	100	5.0	ug/l	SW846 8260B
Perchlorate		19.9	1.0	0.65	ug/l	EPA 314
Specific Conductivity		561	1.0	1.0	umhos/cm	SM2510 B-97
C46541-20	**CPW16H295**					
Isopropyl Alcohol		22.4 J	100	5.0	ug/l	SW846 8260B
Perchlorate		18.7	1.0	0.65	ug/l	EPA 314
Specific Conductivity		574	1.0	1.0	umhos/cm	SM2510 B-97
C46541-21	**EB1071316**					
Isopropyl Alcohol		16.5 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		1.4	1.0	1.0	umhos/cm	SM2510 B-97
C46541-22	**MP8G722**					
Isopropyl Alcohol		18.1 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		203	1.0	1.0	umhos/cm	SM2510 B-97
C46541-23	**MP8G607**					
Perchlorate		2.4	1.0	0.65	ug/l	EPA 314
Specific Conductivity		169	1.0	1.0	umhos/cm	SM2510 B-97
C46541-24	**MP8G492**					
Perchlorate		0.87 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		274	1.0	1.0	umhos/cm	SM2510 B-97
C46541-25	**MP8G397**					
Perchlorate		0.81 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		279	1.0	1.0	umhos/cm	SM2510 B-97

Summary of Hits

Job Number: C46541
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/12/16 thru 07/14/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46541-26	**MP8H397**					
Isopropyl Alcohol		21.9 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		275	1.0	1.0	umhos/cm	SM2510 B-97
C46541-27	**MP8G347**					
Isopropyl Alcohol		6.9 J	100	5.0	ug/l	SW846 8260B
Perchlorate		0.88 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		194	1.0	1.0	umhos/cm	SM2510 B-97
C46541-28	**EB1071416**					
Isopropyl Alcohol		13.1 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		1.5	1.0	1.0	umhos/cm	SM2510 B-97
C46541-29	**PW12G725**					
Toluene		1.5	1.0	0.20	ug/l	SW846 8260B
Perchlorate		1.0	1.0	0.65	ug/l	EPA 314
Specific Conductivity		342	1.0	1.0	umhos/cm	SM2510 B-97
C46541-30	**PW12G555**					
Toluene		0.66 J	1.0	0.20	ug/l	SW846 8260B
Specific Conductivity		300	1.0	1.0	umhos/cm	SM2510 B-97
C46541-31	**TRIP BLANK**					

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MP5G507		
Lab Sample ID:	C46541-1	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61633.D	1	07/19/16	CV	n/a	n/a	VW2334
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	0.41	1.0	0.20	ug/l	J
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	0.64	1.0	0.30	ug/l	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5G507		
Lab Sample ID:	C46541-1	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5G507		
Lab Sample ID:	C46541-1	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.1	1.0	0.65	ug/l	1	07/21/16 21:23	PH	EPA 314
Specific Conductivity	299	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP5G412		
Lab Sample ID:	C46541-2	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61657.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	1.8	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5G412		
Lab Sample ID:	C46541-2	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5G412		
Lab Sample ID:	C46541-2	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	5.1	1.0	0.65	ug/l	1	07/21/16 22:17	PH	EPA 314
Specific Conductivity	318	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP5G357		
Lab Sample ID:	C46541-3	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61658.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5G357		
Lab Sample ID:	C46541-3	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5G357		
Lab Sample ID:	C46541-3	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	2.4	1.0	0.65	ug/l	1	07/26/16 14:12	PH	EPA 314
Specific Conductivity	468	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP5G630		
Lab Sample ID:	C46541-4	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61659.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5G630		
Lab Sample ID:	C46541-4	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5G630		
Lab Sample ID:	C46541-4	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.99 J	1.0	0.65	ug/l	1	07/26/16 15:06	PH	EPA 314
Specific Conductivity	236	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP5H630		
Lab Sample ID:	C46541-5	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61660.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5H630		
Lab Sample ID:	C46541-5	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP5H630		
Lab Sample ID:	C46541-5	**Date Sampled:**	07/12/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.1	1.0	0.65	ug/l	1	07/26/16 15:23	PH	EPA 314
Specific Conductivity	240	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB1071216		
Lab Sample ID:	C46541-6	**Date Sampled:**	07/12/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61661.D	1	07/20/16	CV	n/a	n/a	VW2335
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071216		
Lab Sample ID:	C46541-6	**Date Sampled:**	07/12/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071216		
Lab Sample ID:	C46541-6	**Date Sampled:**	07/12/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/26/16 16:17	PH	EPA 314
Specific Conductivity	1.7	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW17G712		
Lab Sample ID:	C46541-7	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61678.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	23.4	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G712		
Lab Sample ID:	C46541-7	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G712		
Lab Sample ID:	C46541-7	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.4	1.0	0.65	ug/l	1	07/26/16 16:35	PH	EPA 314
Specific Conductivity	230	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW17G612		
Lab Sample ID:	C46541-8	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61679.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	21.2	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G612		
Lab Sample ID:	C46541-8	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G612		
Lab Sample ID:	C46541-8	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.1	1.0	0.65	ug/l	1	07/26/16 16:53	PH	EPA 314
Specific Conductivity	248	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW17G563		
Lab Sample ID:	C46541-9	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61680.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G563		
Lab Sample ID:	C46541-9	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G563		
Lab Sample ID:	C46541-9	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.94 J	1.0	0.65	ug/l	1	07/26/16 17:11	PH	EPA 314
Specific Conductivity	265	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW17G503		
Lab Sample ID:	C46541-10	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61681.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G503		
Lab Sample ID:	C46541-10	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G503		
Lab Sample ID:	C46541-10	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.83 J	1.0	0.65	ug/l	1	07/26/16 17:28	PH	EPA 314
Specific Conductivity	289	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW17G413		
Lab Sample ID:	C46541-11	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61682.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G413		
Lab Sample ID:	C46541-11	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G413		
Lab Sample ID:	C46541-11	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.7	1.0	0.65	ug/l	1	07/26/16 17:46	PH	EPA 314
Specific Conductivity	270	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW17G313		
Lab Sample ID:	C46541-12	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61683.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G313		
Lab Sample ID:	C46541-12	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW17G313		
Lab Sample ID:	C46541-12	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	2.8	1.0	0.65	ug/l	1	07/26/16 18:04	PH	EPA 314
Specific Conductivity	350	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW16G753		
Lab Sample ID:	C46541-13	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61684.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G753		
Lab Sample ID:	C46541-13	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G753		
Lab Sample ID:	C46541-13	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.7	1.0	0.65	ug/l	1	07/26/16 18:22	PH	EPA 314
Specific Conductivity	239	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW16G718		
Lab Sample ID:	C46541-14	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61685.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G718		
Lab Sample ID:	C46541-14	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G718		
Lab Sample ID:	C46541-14	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.3	1.0	0.65	ug/l	1	07/26/16 18:40	PH	EPA 314
Specific Conductivity	249	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW16G638		
Lab Sample ID:	C46541-15	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61686.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G638		
Lab Sample ID:	C46541-15	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G638		
Lab Sample ID:	C46541-15	**Date Sampled:**	07/13/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/26/16 18:58	PH	EPA 314
Specific Conductivity	319	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW16G513		
Lab Sample ID:	C46541-16	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61687.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	20.8	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G513		
Lab Sample ID:	C46541-16	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G513		
Lab Sample ID:	C46541-16	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.77 J	1.0	0.65	ug/l	1	07/26/16 19:51	PH	EPA 314
Specific Conductivity	217	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW16G417		
Lab Sample ID:	C46541-17	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61698.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G417		
Lab Sample ID:	C46541-17	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	2.6	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G417		
Lab Sample ID:	C46541-17	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	134	5.0	3.3	ug/l	5	07/26/16 20:09	PH	EPA 314
Specific Conductivity	406	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW16G378		
Lab Sample ID:	C46541-18	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61699.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	13.2	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G378		
Lab Sample ID:	C46541-18	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	1.8	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G378		
Lab Sample ID:	C46541-18	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	87.8	5.0	3.3	ug/l	5	07/26/16 20:27	PH	EPA 314
Specific Conductivity	463	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW16G295		
Lab Sample ID:	C46541-19	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61700.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	21.6	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G295		
Lab Sample ID:	C46541-19	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16G295		
Lab Sample ID:	C46541-19	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	19.9	1.0	0.65	ug/l	1	07/26/16 20:45	PH	EPA 314
Specific Conductivity	561	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	CPW16H295		
Lab Sample ID:	C46541-20	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61701.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	22.4	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16H295		
Lab Sample ID:	C46541-20	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CPW16H295		
Lab Sample ID:	C46541-20	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	18.7	1.0	0.65	ug/l	1	07/26/16 21:03	PH	EPA 314
Specific Conductivity	574	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB1071316		
Lab Sample ID:	C46541-21	**Date Sampled:**	07/13/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61688.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	16.5	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071316		
Lab Sample ID:	C46541-21	**Date Sampled:**	07/13/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071316		
Lab Sample ID:	C46541-21	**Date Sampled:**	07/13/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/26/16 21:20	PH	EPA 314
Specific Conductivity	1.4	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP8G722		
Lab Sample ID:	C46541-22	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61702.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	18.1	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8G722		
Lab Sample ID:	C46541-22	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	95%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8G722		
Lab Sample ID:	C46541-22	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/26/16 21:38	PH	EPA 314
Specific Conductivity	203	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP8G607		
Lab Sample ID:	C46541-23	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61703.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8G607		
Lab Sample ID:	C46541-23	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8G607		
Lab Sample ID:	C46541-23	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	2.4	1.0	0.65	ug/l	1	07/29/16 14:20	PH	EPA 314
Specific Conductivity	169	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP8G492		
Lab Sample ID:	C46541-24	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61704.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8G492		
Lab Sample ID:	C46541-24	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	100%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8G492		
Lab Sample ID:	C46541-24	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.87 J	1.0	0.65	ug/l	1	07/29/16 14:38	PH	EPA 314
Specific Conductivity	274	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP8G397		
Lab Sample ID:	C46541-25	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61705.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8G397		
Lab Sample ID:	C46541-25	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8G397		
Lab Sample ID:	C46541-25	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.81 J	1.0	0.65	ug/l	1	07/29/16 15:31	PH	EPA 314
Specific Conductivity	279	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP8H397		
Lab Sample ID:	C46541-26	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61706.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	21.9	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8H397		
Lab Sample ID:	C46541-26	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8H397		
Lab Sample ID:	C46541-26	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/29/16 16:25	PH	EPA 314
Specific Conductivity	275	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP8G347		
Lab Sample ID:	C46541-27	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61707.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	6.9	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8G347		
Lab Sample ID:	C46541-27	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP8G347		
Lab Sample ID:	C46541-27	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.88 J	1.0	0.65	ug/l	1	07/29/16 16:43	PH	EPA 314
Specific Conductivity	194	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB1071416		
Lab Sample ID:	C46541-28	**Date Sampled:**	07/14/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61708.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	13.1	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071416		
Lab Sample ID:	C46541-28	**Date Sampled:**	07/14/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	100%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071416		
Lab Sample ID:	C46541-28	**Date Sampled:**	07/14/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/29/16 17:00	PH	EPA 314
Specific Conductivity	1.5	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW12G725		
Lab Sample ID:	C46541-29	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61709.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW12G725		
Lab Sample ID:	C46541-29	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	1.5	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-123%
2037-26-5	Toluene-D8	95%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW12G725		
Lab Sample ID:	C46541-29	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.0	1.0	0.65	ug/l	1	07/29/16 17:18	PH	EPA 314
Specific Conductivity	342	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW12G555		
Lab Sample ID:	C46541-30	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61710.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW12G555		
Lab Sample ID:	C46541-30	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	0.66	1.0	0.20	ug/l	J
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-123%
2037-26-5	Toluene-D8	95%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW12G555		
Lab Sample ID:	C46541-30	**Date Sampled:**	07/14/16
Matrix:	AQ - Ground Water	**Date Received:**	07/16/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/29/16 17:36	PH	EPA 314
Specific Conductivity	300	1.0	1.0	umhos/cm	1	07/18/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C46541-31	**Date Sampled:**	07/12/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61675.D	1	07/21/16	CV	n/a	n/a	VW2337
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C46541-31	**Date Sampled:**	07/12/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/16/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

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FED-EX Tracking # 7767 6672 7491
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest NC Job #: C46541

Client / Reporting Information

Company Name: EnSafe
Address: 2151 Salvio St.
City: Concord State: CA Zip: 94520
Project Contact: Shawn Winter
Phone #: 615-252-2853
Samplers's Name: Robert Torres

Project Information

Project Name: VTC-RFF Superfund
Street:
City: Rialto State: CA
Project #: 08888 18881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC (8260)	Perchlorate (E314)									LAB USE ONLY
1	MP5G507	7-12	1400	RT	GW	12	9				3				X	X	X								MS/MSD
2	MP5G412	7-12	1425	RT	GW	4	3				1				X	X									
3	MP5G357	7-12	1445	RT	GW	4	3				1				X	X									
4	MP5G630	7-12	1329	RT	GW	4	3				1				X	X									
5	MP5H630	7-12	1331	RT	GW	4	3				1				X	X									
6	EB1071216	7-12	1418	RT	WQ	4	3				1				X	X									
7	CPW17G712	7-13	0911	RT	GW	4	3				1				X	X									
8	CPW17G612	7-13	0937	RT	GW	4	3				1				X	X									
9	CPW17G563	7-13	1003	RT	GW	4	3				1				X	X									
10	CPW17G503	7-13	1031	RT	GW	4	3				1				X	X									

Turnaround Time (Business days)

Approved By / Date:

- [X] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Extra Volume provided for MS/MSD (MP5G507)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Robert Torres	7-15-16 / 1140	1 7-15-16 1140	2	7-15-16 1400	2
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3 FedEx	7-16-16 0910	3	4		4 AZ
Relinquished by:	Date Time:	Received By:	Custody Seal #	Appropriate Bottle / Pres. Y / N	Headspace Y / N	On Ice Y / N	Cooler Temp.
5		5	INTACT	Labels match Coc? Y / N	Separate Receiving Check List used: Y / N		2.1/3.1 @ 2.4 oC

5.1 5

C46541: Chain of Custody
Page 1 of 4

CHAIN OF CUSTODY

ACCUTEST LABORATORIES
2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # 77
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C C46541

Client / Reporting Information

Company Name: EnSafe
Address: 2151 Salvio St.
City: Concord State: CA Zip: 94520
Project Contact: Shaun Winter
Phone #: 615-252-2853
Samplers's Name: Robert Torres

Project Information

Project Name: UTC-RFF Superfund
Street:
City: Rialto State: CA
Project #: 0888818881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC (8260)	Perchlorate (E314)	LAB USE ONLY
11	CPW17G413	7-13	1053	RT	GW	4	3				1				X	X	
12	CPW17G313	7-13	1116	RT	GW	4	3				1				X	X	
13	CPW16G753	7-13	1340	RT	GW	4	3				1				X	X	
14	CPW16G718	7-13	1412	RT	GW	4	3				1				X	X	
15	CPW16G638	7-13	1438	RT	GW	4	3				1				X	X	
16	CPW16G513	7-14	0882	RT	GW	4	3				1				X	X	
17	CPW16G417	7-14	0882	RT	GW	4	3				1				X	X	
18	CPW16G378	7-14	0853	RT	GW	4	3				1				X	X	
19	CPW16G295	7-14	0910	RT	GW	4	3				1				X	X	
20	CPW16H295	7-14	0912	RT	GW	4	3				1				X	X	

Turnaround Time (Business days)

Approved By:/ Date:

- [X] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Labilink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Robert Torres	7-15-16 / 1140	7-15-16 1140		7-15-16 1400	7-16-16 FEDEX
2						
3	FEDEX	7-16-16 0916				
4						AZ
5						

Custody Seal # INTACT
Appropriate Bottle / Pres. Y / N
Labels match Coc? Y / N
Headspace Y / N
On Ice Y / N
Separate Receiving Check List used: Y / N
Cooler Temp. ____ oC

5.1 5

C46541: Chain of Custody
Page 2 of 4

CHAIN OF CUSTODY

ACCUTEST LABORATORIES
2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest NC Job #: C C46541

Client / Reporting Information

Company Name: EnSafe
Address: 2151 Salvio St.
City: Concord State: CA Zip: 94520
Project Contact: Shawn Winter
Phone #: 615-252-[illegible]3
Samplers's Name: Robert Torres

Project Information

Project Name: UTC-RFF Superfund
Street:
City: Rialto State: CA
Project #: 08888188881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC (8260)	Perchlorate (E314)
21	EB1071316	7-13	1449	RT	WQ	4	3				1				X	X
22	MP8G722	7-14	1052	RT	GW	4	3				1				X	X
23	MP8G607	7-14	1116	RT	GW	4	3				1				X	X
24	MP8G492	7-14	1143	RT	GW	12	9				3				X	X
25	MP8G397	7-14	1210	RT	GW	4	3				1				X	X
26	MP8H397	7-14	1212	RT	GW	4	3				1				X	X
27	MP8G347	7-14	1230	RT	GW	4	3				1				X	X
28	EB1071416	7-14	1151	RT	WQ	4	3				1				X	X
29	PW12G725	7-14	1433	RT	GW	4	3				1				X	X
30	PW12G555	7-14	1500	RT	GW	4	3				1				X	X

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

LAB USE ONLY

Turnaround Time (Business days)

Approved By:/ Date:

- [x] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [x] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULL1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

MP8G492 extra sample volume for MS/MSD

Trip blank included in cooler Sample #31

7-16-16 T

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Robert Torres	7-15-16 / 1140	7-15-16 1140		7-15-16 1400	FedEx
2	FedEx	7-16-16 0910				AZ T
3						
4						
5						

Custody Seal #: INTACT
Appropriate Bottle / Pres. Y / N
Headspace Y / N
On Ice Y / N
Cooler Temp.
Labels match Coc? Y / N
Separate Receiving Check List used: Y / N
oC

C46541: Chain of Custody
Page 3 of 4

SGS Accutest Sample Receipt Summary

Job Number: C46541 **Client:** ENSAFE **Project:** UTC-RFF SUPERFUND

Date / Time Received: 7/16/2016 9:10:00 AM **Delivery Method:** FedEx **Airbill #'s:** 776766727506/776766727491

Cooler Temps (Initial/Adjusted): #1: (2.1/3.1); #2: (2.4/3.4);

Cooler Security	Y	or N		Y	or N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	or N
1. Temp criteria achieved:	☑	☐
2. Therm ID:	IR3;	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	2	

Quality Control Preservation	Y	or N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☑	☐

Sample Integrity - Condition	Y	or N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	or N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments
Extra Volume provided for MS/MSD (MP5G507)
COC was marked and sample logged in for MS/MSD

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2334-MB	W61624.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2334-MB	W61624.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	0.27	1.0	0.26	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	80-123%
2037-26-5	Toluene-D8	100%	88-112%
460-00-4	4-Bromofluorobenzene	98%	79-114%

Method Blank Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2335-MB	W61646.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-2, C46541-3, C46541-4, C46541-5, C46541-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2335-MB	W61646.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-2, C46541-3, C46541-4, C46541-5, C46541-6

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	80-123%
2037-26-5	Toluene-D8	100%	88-112%
460-00-4	4-Bromofluorobenzene	98%	79-114%

Method Blank Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2337-MB	W61674.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-21, C46541-31

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2337-MB	W61674.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-21, C46541-31

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	80-123%
2037-26-5	Toluene-D8	100%	88-112%
460-00-4	4-Bromofluorobenzene	97%	79-114%

Method Blank Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2338-MB	W61697.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-17, C46541-18, C46541-19, C46541-20, C46541-22, C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2338-MB	W61697.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-17, C46541-18, C46541-19, C46541-20, C46541-22, C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	80-123%
2037-26-5	Toluene-D8	98%	88-112%
460-00-4	4-Bromofluorobenzene	99%	79-114%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2334-BS	W61621.D	1	07/19/16	CV	n/a	n/a	VW2334
VW2334-BSD	W61622.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	20.1	101	20.5	103	2	76-120/10
108-90-7	Chlorobenzene	20	19.2	96	19.2	96	0	79-119/10
75-00-3	Chloroethane	20	22.7	114	22.3	112	2	60-115/14
67-66-3	Chloroform	20	19.5	98	19.8	99	2	75-122/10
56-23-5	Carbon tetrachloride	20	20.6	103	20.8	104	1	72-128/13
75-34-3	1,1-Dichloroethane	20	20.1	101	20.5	103	2	70-121/10
75-35-4	1,1-Dichloroethylene	20	19.6	98	19.7	99	1	62-125/13
106-93-4	1,2-Dibromoethane	20	19.7	99	20.0	100	2	81-124/10
107-06-2	1,2-Dichloroethane	20	18.9	95	19.4	97	3	74-122/10
78-87-5	1,2-Dichloropropane	20	20.2	101	20.7	104	2	75-123/10
75-71-8	Dichlorodifluoromethane	20	21.4	107	20.0	100	7	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	20.8	104	21.2	106	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.3	107	21.7	109	2	76-131/10
541-73-1	m-Dichlorobenzene	20	19.8	99	19.8	99	0	79-121/10
95-50-1	o-Dichlorobenzene	20	19.5	98	19.9	100	2	79-120/10
106-46-7	p-Dichlorobenzene	20	19.6	98	19.6	98	0	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	20.1	101	20.2	101	0	73-125/10
100-41-4	Ethylbenzene	20	19.7	99	19.9	100	1	78-123/10
76-13-1	Freon 113	20	20.6	103	21.0	105	2	59-129/18
87-68-3	Hexachlorobutadiene	20	20.4	102	20.8	104	2	70-130/12
67-63-0	Isopropyl Alcohol	400	478	120	480	120	0	49-148/17
74-83-9	Methyl bromide	20	21.2	106	21.6	108	2	65-124/13
74-87-3	Methyl chloride	20	19.5	98	18.9	95	3	47-143/20
75-09-2	Methylene chloride	20	19.5	98	20.0	100	3	65-124/15
100-42-5	Styrene	20	20.2	101	20.4	102	1	73-126/10
71-55-6	1,1,1-Trichloroethane	20	20.6	103	20.8	104	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	20.9	105	21.3	107	2	78-127/10
79-00-5	1,1,2-Trichloroethane	20	19.8	99	20.0	100	1	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	19.8	99	20.1	101	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	20.0	100	20.1	101	0	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	20.4	102	20.3	102	0	79-130/10
127-18-4	Tetrachloroethylene	20	17.9	90	17.9	90	0	72-124/13
108-88-3	Toluene	20	19.7	99	19.8	99	1	78-121/10
79-01-6	Trichloroethylene	20	20.1	101	20.3	102	1	75-119/10
75-69-4	Trichlorofluoromethane	20	19.4	97	18.3	92	6	68-130/19
75-01-4	Vinyl chloride	20	21.2	106	22.2	111	5	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2334-BS	W61621.D	1	07/19/16	CV	n/a	n/a	VW2334
VW2334-BSD	W61622.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	39.1	98	39.4	99	1	78-123/10
95-47-6	o-Xylene	20	19.1	96	19.5	98	2	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	100%	80-123%
2037-26-5	Toluene-D8	100%	100%	88-112%
460-00-4	4-Bromofluorobenzene	100%	99%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2335-BS	W61643.D	1	07/20/16	CV	n/a	n/a	VW2335
VW2335-BSD	W61644.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-2, C46541-3, C46541-4, C46541-5, C46541-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	19.8	99	20.4	102	3	76-120/10
108-90-7	Chlorobenzene	20	19.1	96	19.6	98	3	79-119/10
75-00-3	Chloroethane	20	21.6	108	22.3	112	3	60-115/14
67-66-3	Chloroform	20	20.0	100	20.2	101	1	75-122/10
56-23-5	Carbon tetrachloride	20	20.6	103	21.3	107	3	72-128/13
75-34-3	1,1-Dichloroethane	20	19.9	100	20.5	103	3	70-121/10
75-35-4	1,1-Dichloroethylene	20	19.2	96	20.1	101	5	62-125/13
106-93-4	1,2-Dibromoethane	20	19.9	100	20.1	101	1	81-124/10
107-06-2	1,2-Dichloroethane	20	19.9	100	20.2	101	1	74-122/10
78-87-5	1,2-Dichloropropane	20	19.8	99	20.3	102	2	75-123/10
75-71-8	Dichlorodifluoromethane	20	21.9	110	20.3	102	8	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	20.8	104	21.2	106	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.0	105	21.6	108	3	76-131/10
541-73-1	m-Dichlorobenzene	20	19.7	99	20.0	100	2	79-121/10
95-50-1	o-Dichlorobenzene	20	19.9	100	19.7	99	1	79-120/10
106-46-7	p-Dichlorobenzene	20	19.8	99	19.7	99	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	19.9	100	20.2	101	1	73-125/10
100-41-4	Ethylbenzene	20	19.6	98	20.1	101	3	78-123/10
76-13-1	Freon 113	20	19.7	99	21.0	105	6	59-129/18
87-68-3	Hexachlorobutadiene	20	20.5	103	20.3	102	1	70-130/12
67-63-0	Isopropyl Alcohol	400	486	122	519	130	7	49-148/17
74-83-9	Methyl bromide	20	20.7	104	20.5	103	1	65-124/13
74-87-3	Methyl chloride	20	18.5	93	17.9	90	3	47-143/20
75-09-2	Methylene chloride	20	19.2	96	19.6	98	2	65-124/15
100-42-5	Styrene	20	20.2	101	20.8	104	3	73-126/10
71-55-6	1,1,1-Trichloroethane	20	20.7	104	21.3	107	3	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	20.9	105	21.0	105	0	78-127/10
79-00-5	1,1,2-Trichloroethane	20	19.7	99	20.0	100	2	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	20.0	100	20.2	101	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	19.7	99	20.0	100	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	19.9	100	20.2	101	1	79-130/10
127-18-4	Tetrachloroethylene	20	17.6	88	19.8	99	12	72-124/13
108-88-3	Toluene	20	19.4	97	20.1	101	4	78-121/10
79-01-6	Trichloroethylene	20	19.9	100	20.6	103	3	75-119/10
75-69-4	Trichlorofluoromethane	20	19.7	99	19.2	96	3	68-130/19
75-01-4	Vinyl chloride	20	20.9	105	20.9	105	0	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2335-BS	W61643.D	1	07/20/16	CV	n/a	n/a	VW2335
VW2335-BSD	W61644.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-2, C46541-3, C46541-4, C46541-5, C46541-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	38.5	96	39.6	99	3	78-123/10
95-47-6	o-Xylene	20	19.0	95	19.7	99	4	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	100%	102%	80-123%
2037-26-5	Toluene-D8	98%	100%	88-112%
460-00-4	4-Bromofluorobenzene	98%	100%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2337-BS	W61671.D	1	07/21/16	CV	n/a	n/a	VW2337
VW2337-BSD	W61672.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-21, C46541-31

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	19.6	98	19.2	96	2	76-120/10
108-90-7	Chlorobenzene	20	19.1	96	18.9	95	1	79-119/10
75-00-3	Chloroethane	20	21.5	108	21.4	107	0	60-115/14
67-66-3	Chloroform	20	19.6	98	19.9	100	2	75-122/10
56-23-5	Carbon tetrachloride	20	21.4	107	20.9	105	2	72-128/13
75-34-3	1,1-Dichloroethane	20	19.1	96	19.3	97	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	18.6	93	18.5	93	1	62-125/13
106-93-4	1,2-Dibromoethane	20	20.1	101	20.0	100	0	81-124/10
107-06-2	1,2-Dichloroethane	20	21.1	106	20.3	102	4	74-122/10
78-87-5	1,2-Dichloropropane	20	19.1	96	19.4	97	2	75-123/10
75-71-8	Dichlorodifluoromethane	20	23.8	119	22.6	113	5	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	20.1	101	20.4	102	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.3	107	20.8	104	2	76-131/10
541-73-1	m-Dichlorobenzene	20	19.5	98	19.2	96	2	79-121/10
95-50-1	o-Dichlorobenzene	20	19.5	98	19.5	98	0	79-120/10
106-46-7	p-Dichlorobenzene	20	19.2	96	18.9	95	2	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	20.0	100	19.9	100	1	73-125/10
100-41-4	Ethylbenzene	20	19.3	97	19.1	96	1	78-123/10
76-13-1	Freon 113	20	19.9	100	20.1	101	1	59-129/18
87-68-3	Hexachlorobutadiene	20	19.9	100	19.5	98	2	70-130/12
67-63-0	Isopropyl Alcohol	400	423	106	441	110	4	49-148/17
74-83-9	Methyl bromide	20	20.6	103	20.7	104	0	65-124/13
74-87-3	Methyl chloride	20	17.4	87	17.5	88	1	47-143/20
75-09-2	Methylene chloride	20	18.7	94	18.7	94	0	65-124/15
100-42-5	Styrene	20	20.2	101	20.1	101	0	73-126/10
71-55-6	1,1,1-Trichloroethane	20	20.9	105	20.7	104	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	19.8	99	20.5	103	3	78-127/10
79-00-5	1,1,2-Trichloroethane	20	19.5	98	19.5	98	0	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	20.1	101	19.7	99	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	19.3	97	19.0	95	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	19.3	97	19.2	96	1	79-130/10
127-18-4	Tetrachloroethylene	20	17.7	89	18.7	94	5	72-124/13
108-88-3	Toluene	20	19.1	96	18.9	95	1	78-121/10
79-01-6	Trichloroethylene	20	19.8	99	19.8	99	0	75-119/10
75-69-4	Trichlorofluoromethane	20	21.8	109	21.4	107	2	68-130/19
75-01-4	Vinyl chloride	20	20.6	103	20.8	104	1	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2337-BS	W61671.D	1	07/21/16	CV	n/a	n/a	VW2337
VW2337-BSD	W61672.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-21, C46541-31

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	38.7	97	38.1	95	2	78-123/10
95-47-6	o-Xylene	20	19.3	97	18.8	94	3	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	100%	80-123%
2037-26-5	Toluene-D8	98%	98%	88-112%
460-00-4	4-Bromofluorobenzene	100%	100%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2338-BS	W61694.D	1	07/22/16	CV	n/a	n/a	VW2338
VW2338-BSD	W61695.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-17, C46541-18, C46541-19, C46541-20, C46541-22, C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	18.7	94	19.0	95	2	76-120/10
108-90-7	Chlorobenzene	20	18.6	93	18.5	93	1	79-119/10
75-00-3	Chloroethane	20	20.4	102	20.7	104	1	60-115/14
67-66-3	Chloroform	20	19.7	99	19.6	98	1	75-122/10
56-23-5	Carbon tetrachloride	20	20.4	102	20.9	105	2	72-128/13
75-34-3	1,1-Dichloroethane	20	18.5	93	18.8	94	2	70-121/10
75-35-4	1,1-Dichloroethylene	20	17.4	87	17.9	90	3	62-125/13
106-93-4	1,2-Dibromoethane	20	18.9	95	18.9	95	0	81-124/10
107-06-2	1,2-Dichloroethane	20	20.6	103	20.5	103	0	74-122/10
78-87-5	1,2-Dichloropropane	20	18.4	92	18.7	94	2	75-123/10
75-71-8	Dichlorodifluoromethane	20	24.0	120	21.4	107	11	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	19.8	99	19.6	98	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	20.4	102	20.5	103	0	76-131/10
541-73-1	m-Dichlorobenzene	20	18.7	94	18.7	94	0	79-121/10
95-50-1	o-Dichlorobenzene	20	18.7	94	18.6	93	1	79-120/10
106-46-7	p-Dichlorobenzene	20	18.5	93	18.4	92	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	19.5	98	19.1	96	2	73-125/10
100-41-4	Ethylbenzene	20	18.5	93	18.5	93	0	78-123/10
76-13-1	Freon 113	20	18.2	91	18.6	93	2	59-129/18
87-68-3	Hexachlorobutadiene	20	19.2	96	19.5	98	2	70-130/12
67-63-0	Isopropyl Alcohol	400	406	102	425	106	5	49-148/17
74-83-9	Methyl bromide	20	20.3	102	19.9	100	2	65-124/13
74-87-3	Methyl chloride	20	17.0	85	16.4	82	4	47-143/20
75-09-2	Methylene chloride	20	18.0	90	18.4	92	2	65-124/15
100-42-5	Styrene	20	19.5	98	19.3	97	1	73-126/10
71-55-6	1,1,1-Trichloroethane	20	20.4	102	20.4	102	0	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	18.5	93	18.7	94	1	78-127/10
79-00-5	1,1,2-Trichloroethane	20	18.4	92	18.1	91	2	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	18.9	95	19.1	96	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	18.3	92	18.5	93	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	18.3	92	18.4	92	1	79-130/10
127-18-4	Tetrachloroethylene	20	17.0	85	19.3	97	13	72-124/13
108-88-3	Toluene	20	18.3	92	18.3	92	0	78-121/10
79-01-6	Trichloroethylene	20	19.1	96	19.7	99	3	75-119/10
75-69-4	Trichlorofluoromethane	20	22.4	112	21.2	106	6	68-130/19
75-01-4	Vinyl chloride	20	19.9	100	19.8	99	1	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2338-BS	W61694.D	1	07/22/16	CV	n/a	n/a	VW2338
VW2338-BSD	W61695.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-17, C46541-18, C46541-19, C46541-20, C46541-22, C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	37.1	93	36.9	92	1	78-123/10
95-47-6	o-Xylene	20	18.5	93	18.4	92	1	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	101%	100%	80-123%
2037-26-5	Toluene-D8	97%	97%	88-112%
460-00-4	4-Bromofluorobenzene	101%	101%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-1MS	W61634.D	1	07/19/16	CV	n/a	n/a	VW2334
C46541-1MSD	W61635.D	1	07/19/16	CV	n/a	n/a	VW2334
C46541-1	W61633.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-1

CAS No.	Compound	C46541-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	21.4	107	20	21.5	108	0	76-120/10
108-90-7	Chlorobenzene	ND		20	21.2	106	20	21.1	106	0	79-119/10
75-00-3	Chloroethane	ND		20	23.3	117* [a]	20	21.0	105	10	60-115/14
67-66-3	Chloroform	0.41	J	20	22.1	108	20	22.1	108	0	75-122/10
56-23-5	Carbon tetrachloride	ND		20	25.2	126	20	25.1	126	0	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	21.0	105	20	21.2	106	1	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	22.1	111	20	21.7	109	2	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	21.2	106	20	21.4	107	1	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	22.4	112	20	22.6	113	1	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	20.3	102	20	20.5	103	1	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	27.2	136	20	28.1	141	3	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	22.1	111	20	22.1	111	0	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	22.1	111	20	22.2	111	0	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	20.7	104	20	21.1	106	2	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	20.7	104	20	20.9	105	1	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	20.6	103	20	20.7	104	0	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	21.2	106	20	21.3	107	0	73-125/10
100-41-4	Ethylbenzene	ND		20	22.2	111	20	21.9	110	1	78-123/10
76-13-1	Freon 113	ND		20	23.8	119	20	23.6	118	1	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	21.5	108	20	22.1	111	3	70-130/12
67-63-0	Isopropyl Alcohol	ND		400	431	108	400	475	119	10	49-148/17
74-83-9	Methyl bromide	ND		20	22.3	112	20	19.5	98	13	65-124/13
74-87-3	Methyl chloride	ND		20	18.4	92	20	19.3	97	5	47-143/20
75-09-2	Methylene chloride	ND		20	20.0	100	20	20.0	100	0	65-124/15
100-42-5	Styrene	ND		20	22.3	112	20	22.2	111	0	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	24.4	122	20	24.1	121	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	20.3	102	20	21.5	108	6	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	20.7	104	20	21.2	106	2	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	20.6	103	20	21.2	106	3	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	21.1	106	20	21.2	106	0	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	21.6	108	20	21.4	107	1	79-130/10
127-18-4	Tetrachloroethylene	0.64	J	20	21.7	105	20	21.4	104	1	72-124/13
108-88-3	Toluene	ND		20	21.6	108	20	21.5	108	0	78-121/10
79-01-6	Trichloroethylene	ND		20	22.7	114	20	22.7	114	0	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	25.5	128	20	27.2	136* [a]	6	68-130/19
75-01-4	Vinyl chloride	ND		20	22.5	113	20	20.4	102	10	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-1MS	W61634.D	1	07/19/16	CV	n/a	n/a	VW2334
C46541-1MSD	W61635.D	1	07/19/16	CV	n/a	n/a	VW2334
C46541-1	W61633.D	1	07/19/16	CV	n/a	n/a	VW2334

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-1

CAS No.	Compound	C46541-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	44.1	110	40	43.4	109	2	78-123/10
95-47-6	o-Xylene	ND		20	21.6	108	20	21.2	106	2	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46541-1	Limits
1868-53-7	Dibromofluoromethane	100%	99%	97%	80-123%
2037-26-5	Toluene-D8	98%	98%	99%	88-112%
460-00-4	4-Bromofluorobenzene	100%	103%	96%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46495-9MS	W61662.D	1	07/20/16	CV	n/a	n/a	VW2335
C46495-9MSD	W61663.D	1	07/21/16	CV	n/a	n/a	VW2335
C46495-9	W61647.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-2, C46541-3, C46541-4, C46541-5, C46541-6

CAS No.	Compound	C46495-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	20.9	105	20	20.9	105	0	76-120/10
108-90-7	Chlorobenzene	ND		20	21.2	106	20	20.9	105	1	79-119/10
75-00-3	Chloroethane	ND		20	21.2	106	20	22.1	111	4	60-115/14
67-66-3	Chloroform	ND		20	22.4	112	20	21.7	109	3	75-122/10
56-23-5	Carbon tetrachloride	ND		20	26.9	135* [a]	20	25.6	128	5	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	20.6	103	20	20.6	103	0	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	21.2	106	20	21.2	106	0	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	21.4	107	20	21.0	105	2	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	23.9	120	20	23.3	117	3	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	19.8	99	20	19.8	99	0	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	27.8	139	20	27.7	139	0	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	21.8	109	20	21.6	108	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	22.0	110	20	21.8	109	1	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	20.9	105	20	20.9	105	0	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	21.0	105	20	20.8	104	1	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	21.1	106	20	20.6	103	2	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	21.1	106	20	21.1	106	0	73-125/10
100-41-4	Ethylbenzene	ND		20	22.0	110	20	21.8	109	1	78-123/10
76-13-1	Freon 113	ND		20	24.1	121	20	23.4	117	3	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	21.4	107	20	22.1	111	3	70-130/12
67-63-0	Isopropyl Alcohol	ND		400	443	111	400	460	115	4	49-148/17
74-83-9	Methyl bromide	ND		20	22.2	111	20	21.2	106	5	65-124/13
74-87-3	Methyl chloride	ND		20	17.5	88	20	18.3	92	4	47-143/20
75-09-2	Methylene chloride	ND		20	19.2	96	20	19.3	97	1	65-124/15
100-42-5	Styrene	ND		20	22.3	112	20	21.9	110	2	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	25.4	127* [a]	20	24.5	123	4	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	20.4	102	20	20.2	101	1	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	20.5	103	20	20.4	102	0	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	21.2	106	20	21.0	105	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	21.0	105	20	20.8	104	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	21.2	106	20	21.2	106	0	79-130/10
127-18-4	Tetrachloroethylene	ND		20	21.1	106	20	20.5	103	3	72-124/13
108-88-3	Toluene	ND		20	21.1	106	20	21.1	106	0	78-121/10
79-01-6	Trichloroethylene	0.49	J	20	23.3	114	20	23.1	113	1	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	26.8	134* [a]	20	25.7	129	4	68-130/19
75-01-4	Vinyl chloride	ND		20	19.7	99	20	21.8	109	10	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46495-9MS	W61662.D	1	07/20/16	CV	n/a	n/a	VW2335
C46495-9MSD	W61663.D	1	07/21/16	CV	n/a	n/a	VW2335
C46495-9	W61647.D	1	07/20/16	CV	n/a	n/a	VW2335

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-2, C46541-3, C46541-4, C46541-5, C46541-6

CAS No.	Compound	C46495-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	43.8	110	40	43.2	108	1	78-123/10
95-47-6	o-Xylene	ND		20	21.6	108	20	21.5	108	0	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46495-9	Limits
1868-53-7	Dibromofluoromethane	100%	99%	97%	80-123%
2037-26-5	Toluene-D8	96%	97%	100%	88-112%
460-00-4	4-Bromofluorobenzene	103%	104%	97%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-7MS	W61689.D	1	07/21/16	CV	n/a	n/a	VW2337
C46541-7MSD	W61690.D	1	07/21/16	CV	n/a	n/a	VW2337
C46541-7	W61678.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-21, C46541-31

CAS No.	Compound	C46541-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	21.0	105	20	20.5	103	2	76-120/10
108-90-7	Chlorobenzene	ND		20	20.9	105	20	20.2	101	3	79-119/10
75-00-3	Chloroethane	ND		20	20.8	104	20	22.2	111	7	60-115/14
67-66-3	Chloroform	ND		20	22.4	112	20	21.5	108	4	75-122/10
56-23-5	Carbon tetrachloride	ND		20	27.0	135* [a]	20	25.7	129* [a]	5	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	20.3	102	20	20.4	102	0	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	20.8	104	20	20.8	104	0	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	20.6	103	20	20.0	100	3	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	24.1	121	20	22.4	112	7	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	19.4	97	20	19.1	96	2	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	26.5	133	20	27.1	136	2	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	21.6	108	20	21.4	107	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	22.3	112	20	21.1	106	6	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	21.0	105	20	20.3	102	3	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	20.8	104	20	20.4	102	2	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	20.7	104	20	20.3	102	2	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	21.0	105	20	20.1	101	4	73-125/10
100-41-4	Ethylbenzene	ND		20	21.7	109	20	21.0	105	3	78-123/10
76-13-1	Freon 113	ND		20	23.4	117	20	23.1	116	1	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	22.1	111	20	22.4	112	1	70-130/12
67-63-0	Isopropyl Alcohol	23.4	J	400	409	96	400	407	96	0	49-148/17
74-83-9	Methyl bromide	ND		20	21.9	110	20	21.8	109	0	65-124/13
74-87-3	Methyl chloride	ND		20	17.2	86	20	18.7	94	8	47-143/20
75-09-2	Methylene chloride	ND		20	19.1	96	20	18.6	93	3	65-124/15
100-42-5	Styrene	ND		20	22.2	111	20	21.1	106	5	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	25.6	128* [a]	20	24.6	123	4	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	19.1	96	20	19.4	97	2	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	19.6	98	20	18.9	95	4	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	21.0	105	20	20.5	103	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	21.0	105	20	20.6	103	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	21.1	106	20	20.8	104	1	79-130/10
127-18-4	Tetrachloroethylene	ND		20	20.9	105	20	19.8	99	5	72-124/13
108-88-3	Toluene	ND		20	20.8	104	20	20.3	102	2	78-121/10
79-01-6	Trichloroethylene	ND		20	23.3	117	20	22.3	112	4	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	26.6	133* [a]	20	25.7	129	3	68-130/19
75-01-4	Vinyl chloride	ND		20	21.4	107	20	22.5	113	5	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-7MS	W61689.D	1	07/21/16	CV	n/a	n/a	VW2337
C46541-7MSD	W61690.D	1	07/21/16	CV	n/a	n/a	VW2337
C46541-7	W61678.D	1	07/21/16	CV	n/a	n/a	VW2337

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-21, C46541-31

CAS No.	Compound	C46541-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	43.7	109	40	41.9	105	4	78-123/10
95-47-6	o-Xylene	ND		20	21.4	107	20	20.5	103	4	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46541-7	Limits
1868-53-7	Dibromofluoromethane	101%	101%	100%	80-123%
2037-26-5	Toluene-D8	95%	96%	98%	88-112%
460-00-4	4-Bromofluorobenzene	104%	102%	98%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-24MS	W61715.D	1	07/22/16	CV	n/a	n/a	VW2338
C46541-24MSD	W61716.D	1	07/22/16	CV	n/a	n/a	VW2338
C46541-24	W61704.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-17, C46541-18, C46541-19, C46541-20, C46541-22, C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30

CAS No.	Compound	C46541-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	20.1	101	20	20.6	103	2	76-120/10
108-90-7	Chlorobenzene	ND		20	19.8	99	20	20.2	101	2	79-119/10
75-00-3	Chloroethane	ND		20	19.7	99	20	21.8	109	10	60-115/14
67-66-3	Chloroform	ND		20	21.8	109	20	22.0	110	1	75-122/10
56-23-5	Carbon tetrachloride	ND		20	26.4	132* [a]	20	26.1	131* [a]	1	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	19.7	99	20	20.6	103	4	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	19.8	99	20	20.5	103	3	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	19.4	97	20	20.1	101	4	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	23.7	119	20	23.1	116	3	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	18.7	94	20	19.5	98	4	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	22.8	114	20	23.0	115	1	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	20.8	104	20	21.3	107	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	20.7	104	20	21.2	106	2	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	19.4	97	20	20.0	100	3	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	19.3	97	20	19.7	99	2	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	19.3	97	20	19.8	99	3	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	19.4	97	20	19.7	99	2	73-125/10
100-41-4	Ethylbenzene	ND		20	20.4	102	20	21.0	105	3	78-123/10
76-13-1	Freon 113	ND		20	22.1	111	20	22.7	114	3	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	20.1	101	20	21.5	108	7	70-130/12
67-63-0	Isopropyl Alcohol	ND		400	408	102	400	439	110	7	49-148/17
74-83-9	Methyl bromide	ND		20	20.7	104	20	21.3	107	3	65-124/13
74-87-3	Methyl chloride	ND		20	15.9	80	20	17.5	88	10	47-143/20
75-09-2	Methylene chloride	ND		20	18.0	90	20	18.9	95	5	65-124/15
100-42-5	Styrene	ND		20	20.6	103	20	21.1	106	2	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	25.0	125	20	24.8	124	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	17.6	88	20	18.9	95	7	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	18.7	94	20	19.3	97	3	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	19.5	98	20	20.3	102	4	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	19.4	97	20	20.1	101	4	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	19.5	98	20	20.1	101	3	79-130/10
127-18-4	Tetrachloroethylene	ND		20	19.8	99	20	20.0	100	1	72-124/13
108-88-3	Toluene	ND		20	19.4	97	20	20.1	101	4	78-121/10
79-01-6	Trichloroethylene	ND		20	22.4	112	20	22.5	113	0	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	26.1	131* [a]	20	26.2	131* [a]	0	68-130/19
75-01-4	Vinyl chloride	ND		20	19.9	100	20	22.0	110	10	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46541
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-24MS	W61715.D	1	07/22/16	CV	n/a	n/a	VW2338
C46541-24MSD	W61716.D	1	07/22/16	CV	n/a	n/a	VW2338
C46541-24	W61704.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46541-17, C46541-18, C46541-19, C46541-20, C46541-22, C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30

CAS No.	Compound	C46541-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	40.9	102	40	41.7	104	2	78-123/10
95-47-6	o-Xylene	ND		20	20.1	101	20	20.2	101	0	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46541-24	Limits
1868-53-7	Dibromofluoromethane	103%	101%	100%	80-123%
2037-26-5	Toluene-D8	93%	95%	97%	88-112%
460-00-4	4-Bromofluorobenzene	104%	104%	100%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46541
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Perchlorate	GP9610/GN19361	3.0	0.0	ug/l	25	23.6	94.4	85-115%
Perchlorate	GP9621/GN19375	3.0	0.0	ug/l	25	24.1	96.4	85-115%
Perchlorate	GP9633/GN19391	3.0	0.0	ug/l	25	26.1	104.4	85-115%
Specific Conductivity	GN19314	1.0	0.0	umhos/cm				
Specific Conductivity	GN19315	1.0	0.0	umhos/cm				

Associated Samples:
Batch GP9610: C46541-1, C46541-2
Batch GP9621: C46541-3, C46541-4, C46541-5, C46541-6, C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-17, C46541-18, C46541-19, C46541-20, C46541-21, C46541-22
Batch GP9633: C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30
Batch GN19314: C46541-1, C46541-2, C46541-3, C46541-4, C46541-5, C46541-6, C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-17, C46541-18, C46541-19, C46541-20
Batch GN19315: C46541-21, C46541-22, C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46541
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Perchlorate	GP9610/GN19361	ug/l	25	24.8	5.0	10%
Perchlorate	GP9621/GN19375	ug/l	25	24.9	3.3	10%
Perchlorate	GP9633/GN19391	ug/l	25	25.4	2.7	10%

Associated Samples:
Batch GP9610: C46541-1, C46541-2
Batch GP9621: C46541-3, C46541-4, C46541-5, C46541-6, C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-17, C46541-18, C46541-19, C46541-20, C46541-21, C46541-22
Batch GP9633: C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46541
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GN19314	C46541-1	umhos/cm	299	300	0.3	0-10%
Specific Conductivity	GN19314	C46541-11	umhos/cm	270	270	0.0	0-10%
Specific Conductivity	GN19315	C46541-24	umhos/cm	274	271	1.0	0-10%

Associated Samples:
Batch GN19314: C46541-1, C46541-2, C46541-3, C46541-4, C46541-5, C46541-6, C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-17, C46541-18, C46541-19, C46541-20
Batch GN19315: C46541-21, C46541-22, C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46541
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Perchlorate	GP9610/GN19361	C46541-1	ug/l	1.1	25	24.9	95.2	80-120%
Perchlorate	GP9621/GN19375	C46541-3	ug/l	2.4	25	25.3	91.6	80-120%
Perchlorate	GP9633/GN19391	C46541-24	ug/l	0.87	25	23.5	90.5	80-120%

Associated Samples:
Batch GP9610: C46541-1, C46541-2
Batch GP9621: C46541-3, C46541-4, C46541-5, C46541-6, C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-17, C46541-18, C46541-19, C46541-20, C46541-21, C46541-22
Batch GP9633: C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46541
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Perchlorate	GP9610/GN19361	C46541-1	ug/l	1.1	25	24.8	0.4	15%
Perchlorate	GP9621/GN19375	C46541-3	ug/l	2.4	25	24.9	1.6	15%
Perchlorate	GP9633/GN19391	C46541-24	ug/l	0.87	25	23.6	0.4	15%

Associated Samples:
Batch GP9610: C46541-1, C46541-2
Batch GP9621: C46541-3, C46541-4, C46541-5, C46541-6, C46541-7, C46541-8, C46541-9, C46541-10, C46541-11, C46541-12, C46541-13, C46541-14, C46541-15, C46541-16, C46541-17, C46541-18, C46541-19, C46541-20, C46541-21, C46541-22
Batch GP9633: C46541-23, C46541-24, C46541-25, C46541-26, C46541-27, C46541-28, C46541-29, C46541-30
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

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Automated Report

Technical Report for

United Technology Corporation

ENSTNM: UTC RFF Superfund Site - Rialto, CA

0888818881

SGS Accutest Job Number: C46585

Sampling Dates: 07/18/16 - 07/19/16

Report to:

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Total number of pages in report: **94**

James J. Rhudy
Lab Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Elvin Kumar 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Sample Summary

United Technology Corporation

Job No: C46585

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 0888818881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46585-1	07/18/16	08:20	RT	07/20/16	AQ	Ground Water	PW12G500
C46585-2	07/18/16	08:47	RT	07/20/16	AQ	Ground Water	PW12G395
C46585-3	07/18/16	09:12	RT	07/20/16	AQ	Ground Water	PW12G345
C46585-4	07/18/16	11:05	RT	07/20/16	AQ	Ground Water	PW10G745
C46585-5	07/18/16	11:33	RT	07/20/16	AQ	Ground Water	PW10G605
C46585-6	07/18/16	11:59	RT	07/20/16	AQ	Ground Water	PW10G545
C46585-7	07/18/16	12:24	RT	07/20/16	AQ	Ground Water	PW10G460
C46585-8	07/18/16	12:53	RT	07/20/16	AQ	Ground Water	PW10G360
C46585-9	07/18/16	14:38	RT	07/20/16	AQ	Ground Water	MP6G765
C46585-10	07/18/16	14:50	RT	07/20/16	AQ	Equipment Blank	EB1071816
C46585-11	07/19/16	09:30	RT	07/20/16	AQ	Ground Water	PW9G808
C46585-12	07/19/16	10:00	RT	07/20/16	AQ	Ground Water	PW9G718
C46585-13	07/19/16	10:24	RT	07/20/16	AQ	Ground Water	PW9G648

SGS Accutest

Sample Summary
(continued)

United Technology Corporation

Job No: C46585

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 0888818881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46585-14	07/19/16	10:47	RT	07/20/16	AQ	Ground Water	PW9G562
C46585-15	07/19/16	11:09	RT	07/20/16	AQ	Ground Water	PW9G482
C46585-16	07/19/16	11:32	RT	07/20/16	AQ	Ground Water	PW9G412
C46585-17	07/19/16	11:34	RT	07/20/16	AQ	Ground Water	PW9H412
C46585-18	07/19/16	11:45	RT	07/20/16	AQ	Equipment Blank	EB1071916
C46585-19	07/19/16	00:00	RT	07/20/16	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	C46585
Site:	ENSTNM: UTC RFF Superfund Site - Rialto, CA	**Report Date**	8/3/2016 9:53:56 PM

18 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected between 07/18/2016 and 07/19/2016 and were received at Accutest on 07/20/2016 properly preserved, at 4.1 Deg. C and intact. These Samples received an Accutest job number of C46585. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VW2338

- Sample(s) C46541-24MS, C46541-24MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Carbon tetrachloride, Trichlorofluoromethane are outside laboratory control limits. Probable cause due to matrix interference.

Matrix: AQ **Batch ID:** VW2339

- Sample(s) C46585-5MS, C46585-5MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for 1,1,1-Trichloroethane, Chloroethane, Trichlorofluoromethane are outside laboratory control limits (high bias); not detected in associated samples.
- Matrix Spike Recovery(s) for 1,1,1-Trichloroethane, Carbon tetrachloride, Trichlorofluoromethane are outside laboratory control limits.

Matrix: AQ **Batch ID:** VW2340

- Sample(s) C46642-7MS, C46642-7MSD were used as the QC samples indicated.
- Sample(s) C46585-17, C46585-18 have for Dichlorodifluoromethane a CCV outside of control limits (biased high); not detected in samples.

Wet Chemistry By Method EPA 314

Matrix: AQ **Batch ID:** GP9633

- Sample(s) C46541-24MS, C46541-24MSD were used as the QC samples for Perchlorate.

Matrix: AQ **Batch ID:** GP9638

- Sample(s) C46642-7MS, C46642-7MSD were used as the QC samples for Perchlorate.

Wet Chemistry By Method SM2510 B-97

Matrix: AQ **Batch ID:** GN19357

- Sample(s) C46600-5DUP were used as the QC samples for Specific Conductivity.

Matrix: AQ **Batch ID:** GN19358

- Sample(s) C46585-9DUP were used as the QC samples for Specific Conductivity.

Matrix: AQ **Batch ID:** GN19363

- Sample(s) C46642-3DUP were used as the QC samples for Specific Conductivity.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C46585
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/18/16 thru 07/19/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46585-1	**PW12G500**					
Isopropyl Alcohol		8.8 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		292	1.0	1.0	umhos/cm	SM2510 B-97
C46585-2	**PW12G395**					
Isopropyl Alcohol		36.2 J	100	5.0	ug/l	SW846 8260B
Perchlorate		7.3	1.0	0.65	ug/l	EPA 314
Specific Conductivity		427	1.0	1.0	umhos/cm	SM2510 B-97
C46585-3	**PW12G345**					
Perchlorate		2.9	1.0	0.65	ug/l	EPA 314
Specific Conductivity		471	1.0	1.0	umhos/cm	SM2510 B-97
C46585-4	**PW10G745**					
Isopropyl Alcohol		26.7 J	100	5.0	ug/l	SW846 8260B
Perchlorate		1.0	1.0	0.65	ug/l	EPA 314
Specific Conductivity		326	1.0	1.0	umhos/cm	SM2510 B-97
C46585-5	**PW10G605**					
Isopropyl Alcohol		32.6 J	100	5.0	ug/l	SW846 8260B
Perchlorate		1.5	1.0	0.65	ug/l	EPA 314
Specific Conductivity		261	1.0	1.0	umhos/cm	SM2510 B-97
C46585-6	**PW10G545**					
Specific Conductivity		278	1.0	1.0	umhos/cm	SM2510 B-97
C46585-7	**PW10G460**					
Trichloroethylene		13.1	1.0	0.20	ug/l	SW846 8260B
Perchlorate		339	10	6.5	ug/l	EPA 314
Specific Conductivity		402	1.0	1.0	umhos/cm	SM2510 B-97
C46585-8	**PW10G360**					
Perchlorate		9.2	1.0	0.65	ug/l	EPA 314
Specific Conductivity		464	1.0	1.0	umhos/cm	SM2510 B-97

Summary of Hits

Job Number: C46585
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/18/16 thru 07/19/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46585-9	**MP6G765**					
Specific Conductivity		246	1.0	1.0	umhos/cm	SM2510 B-97
C46585-10	**EB1071816**					
Isopropyl Alcohol		6.2 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		1.6	1.0	1.0	umhos/cm	SM2510 B-97
C46585-11	**PW9G808**					
Specific Conductivity		349	1.0	1.0	umhos/cm	SM2510 B-97
C46585-12	**PW9G718**					
Isopropyl Alcohol		12.0 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		311	1.0	1.0	umhos/cm	SM2510 B-97
C46585-13	**PW9G648**					
Isopropyl Alcohol		10.2 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		259	1.0	1.0	umhos/cm	SM2510 B-97
C46585-14	**PW9G562**					
Trichloroethylene		0.76 J	1.0	0.20	ug/l	SW846 8260B
Perchlorate		29.2	1.0	0.65	ug/l	EPA 314
Specific Conductivity		257	1.0	1.0	umhos/cm	SM2510 B-97
C46585-15	**PW9G482**					
Trichloroethylene		12.7	1.0	0.20	ug/l	SW846 8260B
Perchlorate		555	20	13	ug/l	EPA 314
Specific Conductivity		392	1.0	1.0	umhos/cm	SM2510 B-97
C46585-16	**PW9G412**					
Perchlorate		1.6	1.0	0.65	ug/l	EPA 314
Specific Conductivity		373	1.0	1.0	umhos/cm	SM2510 B-97
C46585-17	**PW9H412**					
Isopropyl Alcohol		38.8 J	100	5.0	ug/l	SW846 8260B
Perchlorate		1.7	1.0	0.65	ug/l	EPA 314
Specific Conductivity		374	1.0	1.0	umhos/cm	SM2510 B-97

Summary of Hits

Job Number: C46585
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/18/16 thru 07/19/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46585-18	**EB1071916**					
Isopropyl Alcohol		18.6 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		2.5	1.0	1.0	umhos/cm	SM2510 B-97
C46585-19	**TRIP BLANK**					
Isopropyl Alcohol		129	100	5.0	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	PW12G500		
Lab Sample ID:	C46585-1	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61711.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	8.8	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW12G500		
Lab Sample ID:	C46585-1	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-123%
2037-26-5	Toluene-D8	95%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW12G500		
Lab Sample ID:	C46585-1	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/29/16 18:30	PH	EPA 314
Specific Conductivity	292	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW12G395		
Lab Sample ID:	C46585-2	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61712.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	36.2	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW12G395		
Lab Sample ID:	C46585-2	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW12G395		
Lab Sample ID:	C46585-2	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	7.3	1.0	0.65	ug/l	1	07/29/16 18:48	PH	EPA 314
Specific Conductivity	427	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW12G345		
Lab Sample ID:	C46585-3	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61713.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW12G345		
Lab Sample ID:	C46585-3	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW12G345		
Lab Sample ID:	C46585-3	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	2.9	1.0	0.65	ug/l	1	07/29/16 19:06	PH	EPA 314
Specific Conductivity	471	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW10G745		
Lab Sample ID:	C46585-4	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61714.D	1	07/22/16	CV	n/a	n/a	VW2338
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	26.7	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10G745		
Lab Sample ID:	C46585-4	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10G745		
Lab Sample ID:	C46585-4	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.0	1.0	0.65	ug/l	1	07/29/16 19:23	PH	EPA 314
Specific Conductivity	326	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW10G605		
Lab Sample ID:	C46585-5	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61728.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	32.6	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10G605		
Lab Sample ID:	C46585-5	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	95%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10G605		
Lab Sample ID:	C46585-5	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.5	1.0	0.65	ug/l	1	07/29/16 19:41	PH	EPA 314
Specific Conductivity	261	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW10G545		
Lab Sample ID:	C46585-6	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61729.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10G545		
Lab Sample ID:	C46585-6	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	94%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10G545		
Lab Sample ID:	C46585-6	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/29/16 19:59	PH	EPA 314
Specific Conductivity	278	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW10G460		
Lab Sample ID:	C46585-7	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61730.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10G460		
Lab Sample ID:	C46585-7	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	13.1	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10G460		
Lab Sample ID:	C46585-7	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	339	10	6.5	ug/l	10	07/29/16 20:17	PH	EPA 314
Specific Conductivity	402	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW10G360		
Lab Sample ID:	C46585-8	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61731.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10G360		
Lab Sample ID:	C46585-8	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	94%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW10G360		
Lab Sample ID:	C46585-8	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	9.2	1.0	0.65	ug/l	1	07/29/16 20:35	PH	EPA 314
Specific Conductivity	464	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP6G765		
Lab Sample ID:	C46585-9	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61732.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP6G765		
Lab Sample ID:	C46585-9	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP6G765		
Lab Sample ID:	C46585-9	**Date Sampled:**	07/18/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/29/16 20:53	PH	EPA 314
Specific Conductivity	246	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB1071816		
Lab Sample ID:	C46585-10	**Date Sampled:**	07/18/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61733.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	6.2	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071816		
Lab Sample ID:	C46585-10	**Date Sampled:**	07/18/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	95%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071816		
Lab Sample ID:	C46585-10	**Date Sampled:**	07/18/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/29/16 21:11	PH	EPA 314
Specific Conductivity	1.6	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW9G808		
Lab Sample ID:	C46585-11	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61734.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G808		
Lab Sample ID:	C46585-11	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G808		
Lab Sample ID:	C46585-11	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	07/29/16 22:04	PH	EPA 314
Specific Conductivity	349	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW9G718		
Lab Sample ID:	C46585-12	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61735.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	12.0	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G718		
Lab Sample ID:	C46585-12	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G718		
Lab Sample ID:	C46585-12	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/02/16 14:29	PH	EPA 314
Specific Conductivity	311	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW9G648		
Lab Sample ID:	C46585-13	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61736.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	10.2	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G648		
Lab Sample ID:	C46585-13	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G648		
Lab Sample ID:	C46585-13	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/02/16 14:47	PH	EPA 314
Specific Conductivity	259	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW9G562		
Lab Sample ID:	C46585-14	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61737.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G562		
Lab Sample ID:	C46585-14	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	0.76	1.0	0.20	ug/l	J
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G562		
Lab Sample ID:	C46585-14	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	29.2	1.0	0.65	ug/l	1	08/02/16 15:05	PH	EPA 314
Specific Conductivity	257	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW9G482		
Lab Sample ID:	C46585-15	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61738.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G482		
Lab Sample ID:	C46585-15	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	12.7	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	95%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G482		
Lab Sample ID:	C46585-15	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	555	20	13	ug/l	20	08/02/16 15:23	PH	EPA 314
Specific Conductivity	392	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW9G412		
Lab Sample ID:	C46585-16	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61739.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G412		
Lab Sample ID:	C46585-16	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9G412		
Lab Sample ID:	C46585-16	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.6	1.0	0.65	ug/l	1	08/02/16 15:41	PH	EPA 314
Specific Conductivity	373	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	PW9H412		
Lab Sample ID:	C46585-17	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61758.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	38.8	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9H412		
Lab Sample ID:	C46585-17	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	PW9H412		
Lab Sample ID:	C46585-17	**Date Sampled:**	07/19/16
Matrix:	AQ - Ground Water	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.7	1.0	0.65	ug/l	1	08/02/16 16:34	PH	EPA 314
Specific Conductivity	374	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB1071916		
Lab Sample ID:	C46585-18	**Date Sampled:**	07/19/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61759.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	18.6	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071916		
Lab Sample ID:	C46585-18	**Date Sampled:**	07/19/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1071916		
Lab Sample ID:	C46585-18	**Date Sampled:**	07/19/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/20/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/02/16 16:52	PH	EPA 314
Specific Conductivity	2.5	1.0	1.0	umhos/cm	1	07/22/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C46585-19	**Date Sampled:**	07/19/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61727.D	1	07/25/16	CV	n/a	n/a	VW2339
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	129	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C46585-19	**Date Sampled:**	07/19/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/20/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	95%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

Page 1 of 2

ACCUTEST® LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking # 8094 5787 5411
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C 046585

Client / Reporting Information

Company Name: EnSafe
Address: 2151 Salvio St
City: Concord State: CA Zip: 94520
Project Contact: Shaun Winter
Phone #: 615-252-2853
Samplers's Name: Robert Torres

Project Information

Project Name: UTC RFF Superfund
Street:
City: Rialto State: CA
Project #: 08888 18881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC (8260)	Perchlorate (E314)	LAB USE ONLY
1	PW12G500	7-18	0820	RT	GW	4	3				1				X	X	
2	PW12G395	7-18	0847	RT	GW	4	3				1				X	X	
3	PW12G345	7-18	0913	RT	GW	4	3				1				X	X	
4	PW10G745	7-18	1105	RT	GW	4	3				1				X	X	
5	PW10G605	7-18	1133	RT	GW	4	3				1				X	X	
6	PW10G545	7-18	1159	RT	GW	4	3				1				X	X	
7	PW10G460	7-18	1224	RT	GW	4	3				1				X	X	
8	PW10G360	7-18	1253	RT	GW	4	3				1				X	X	
9	MP6G765	7-18	1438	RT	GW	4	3				1				X	X	
10	EB1071816	7-18	1450	RT	WQ	4	3				1				X	X	

Turnaround Time (Business days)

Approved By:/ Date:

- [x] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [x] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Trip blank included in coolers
WQ = Water quality matrix

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Robert Torres	7-19-16 1320	1 7-19 1320	2	7-19 1700	2 Fedex
Relinquished by: 3 Fedex	Date Time: 7/20/16 09:20	Received By: 3 Ali Zeighami	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # Intact	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N; Headspace Y / N; Separate Receiving Check List used: Y / N	On Ice Y / N; Cooler Temp. 3.1/4.1 oC

IRVINE A2

C46585: Chain of Custody
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CHAIN OF CUSTODY

ACCUTEST LABORATORIES
2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

Page 2 of 2

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest NC Job #: C C46585

Client / Reporting Information

Company Name: EnSafe
Address: 2151 Salvio St.
City: Concord State: CA Zip: 94520
Project Contact: Shawn Winter
Phone #: 615-252-2853
Samplers's Name: Robert Torres

Project Information

Project Name: UTC RFF Superfund
Street:
City: Rialto State: CA
Project #: 08888 18881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC (8260)	Perchlorate (E314)
11	PW9G808	7-19	0930	RT	GW	4	3				1				X	X
12	PW9G718	7-19	1000	RT	GW	4	3				1				X	X
13	PW9G648	7-19	1024	RT	GW	4	3				1				X	X
14	PW9G562	7-19	1047	RT	GW	4	3				1				X	X
15	PW9G482	7-19	1109	RT	GW	4	3				1				X	X
16	PW9G412	7-19	1132	RT	GW	4	3				1				X	X
17	PW9H412	7-19	1134	RT	GW	4	3				1				X	X
RT	~~PW9G352~~	~~7-19~~		~~RT~~	~~GW~~	~~4~~	~~3~~				~~1~~				~~X~~	~~X~~
18	EB1071916	7-19	1145	RT	WQ	4	3				1				X	X
19	TRIP BLANK					2										

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

LAB USE ONLY

Turnaround Time (Business days)

Approved By:/ Date:

- [X] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

19

Comments / Remarks

Trip blank included in cooler
WQ = Water quality matrix

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Robert Torres	7-19-16 1320	1 7-19 1320	2	7-19 1500	2 Fedex
Relinquished by: 3 Fedex	Date Time: 7/20/16 09:20	Received By: 3 Ali Zeighami	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N	Headspace Y / N; Separate Receiving Check List used: Y / N; On Ice Y / N; Cooler Temp

IRVINE AZ

C46585: Chain of Custody
Page 2 of 3

SGS Accutest Sample Receipt Summary

Job Number: C46585 **Client:** ENSAFE **Project:** UTC RFF SUPERFUND

Date / Time Received: 7/20/2016 9:20:00 AM **Delivery Method:** FedEx **Airbill #'s:** 809457875411

Cooler Temps (Initial/Adjusted): #1: (3.1/4.1);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Therm ID:	IR3;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

C46585: Chain of Custody
Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2338-MB	W61697.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-1, C46585-2, C46585-3, C46585-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2338-MB	W61697.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-1, C46585-2, C46585-3, C46585-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	80-123%
2037-26-5	Toluene-D8	98%	88-112%
460-00-4	4-Bromofluorobenzene	99%	79-114%

Method Blank Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2339-MB	W61726.D	1	07/25/16	CV	n/a	n/a	VW2339

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-5, C46585-6, C46585-7, C46585-8, C46585-9, C46585-10, C46585-11, C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-19

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2339-MB	W61726.D	1	07/25/16	CV	n/a	n/a	VW2339

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-5, C46585-6, C46585-7, C46585-8, C46585-9, C46585-10, C46585-11, C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-19

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	80-123%
2037-26-5	Toluene-D8	99%	88-112%
460-00-4	4-Bromofluorobenzene	95%	79-114%

Method Blank Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2340-MB	W61756.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-17, C46585-18

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2340-MB	W61756.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-17, C46585-18

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	80-123%
2037-26-5	Toluene-D8	99%	88-112%
460-00-4	4-Bromofluorobenzene	96%	79-114%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2338-BS	W61694.D	1	07/22/16	CV	n/a	n/a	VW2338
VW2338-BSD	W61695.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-1, C46585-2, C46585-3, C46585-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	18.7	94	19.0	95	2	76-120/10
108-90-7	Chlorobenzene	20	18.6	93	18.5	93	1	79-119/10
75-00-3	Chloroethane	20	20.4	102	20.7	104	1	60-115/14
67-66-3	Chloroform	20	19.7	99	19.6	98	1	75-122/10
56-23-5	Carbon tetrachloride	20	20.4	102	20.9	105	2	72-128/13
75-34-3	1,1-Dichloroethane	20	18.5	93	18.8	94	2	70-121/10
75-35-4	1,1-Dichloroethylene	20	17.4	87	17.9	90	3	62-125/13
106-93-4	1,2-Dibromoethane	20	18.9	95	18.9	95	0	81-124/10
107-06-2	1,2-Dichloroethane	20	20.6	103	20.5	103	0	74-122/10
78-87-5	1,2-Dichloropropane	20	18.4	92	18.7	94	2	75-123/10
75-71-8	Dichlorodifluoromethane	20	24.0	120	21.4	107	11	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	19.8	99	19.6	98	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	20.4	102	20.5	103	0	76-131/10
541-73-1	m-Dichlorobenzene	20	18.7	94	18.7	94	0	79-121/10
95-50-1	o-Dichlorobenzene	20	18.7	94	18.6	93	1	79-120/10
106-46-7	p-Dichlorobenzene	20	18.5	93	18.4	92	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	19.5	98	19.1	96	2	73-125/10
100-41-4	Ethylbenzene	20	18.5	93	18.5	93	0	78-123/10
76-13-1	Freon 113	20	18.2	91	18.6	93	2	59-129/18
87-68-3	Hexachlorobutadiene	20	19.2	96	19.5	98	2	70-130/12
67-63-0	Isopropyl Alcohol	400	406	102	425	106	5	49-148/17
74-83-9	Methyl bromide	20	20.3	102	19.9	100	2	65-124/13
74-87-3	Methyl chloride	20	17.0	85	16.4	82	4	47-143/20
75-09-2	Methylene chloride	20	18.0	90	18.4	92	2	65-124/15
100-42-5	Styrene	20	19.5	98	19.3	97	1	73-126/10
71-55-6	1,1,1-Trichloroethane	20	20.4	102	20.4	102	0	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	18.5	93	18.7	94	1	78-127/10
79-00-5	1,1,2-Trichloroethane	20	18.4	92	18.1	91	2	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	18.9	95	19.1	96	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	18.3	92	18.5	93	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	18.3	92	18.4	92	1	79-130/10
127-18-4	Tetrachloroethylene	20	17.0	85	19.3	97	13	72-124/13
108-88-3	Toluene	20	18.3	92	18.3	92	0	78-121/10
79-01-6	Trichloroethylene	20	19.1	96	19.7	99	3	75-119/10
75-69-4	Trichlorofluoromethane	20	22.4	112	21.2	106	6	68-130/19
75-01-4	Vinyl chloride	20	19.9	100	19.8	99	1	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2338-BS	W61694.D	1	07/22/16	CV	n/a	n/a	VW2338
VW2338-BSD	W61695.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-1, C46585-2, C46585-3, C46585-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	37.1	93	36.9	92	1	78-123/10
95-47-6	o-Xylene	20	18.5	93	18.4	92	1	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	101%	100%	80-123%
2037-26-5	Toluene-D8	97%	97%	88-112%
460-00-4	4-Bromofluorobenzene	101%	101%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2339-BS	W61720.D	1	07/25/16	CV	n/a	n/a	VW2339
VW2339-BSD	W61724.D	1	07/25/16	CV	n/a	n/a	VW2339

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-5, C46585-6, C46585-7, C46585-8, C46585-9, C46585-10, C46585-11, C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	21.8	109	21.8	109	0	76-120/10
108-90-7	Chlorobenzene	20	20.2	101	20.4	102	1	79-119/10
75-00-3	Chloroethane	20	24.2	121* [a]	25.3	127* [a]	4	60-115/14
67-66-3	Chloroform	20	23.7	119	23.7	119	0	75-122/10
56-23-5	Carbon tetrachloride	20	25.6	128	24.8	124	3	72-128/13
75-34-3	1,1-Dichloroethane	20	22.5	113	22.7	114	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	22.5	113	22.7	114	1	62-125/13
106-93-4	1,2-Dibromoethane	20	20.9	105	20.9	105	0	81-124/10
107-06-2	1,2-Dichloroethane	20	24.4	122	23.5	118	4	74-122/10
78-87-5	1,2-Dichloropropane	20	21.4	107	21.7	109	1	75-123/10
75-71-8	Dichlorodifluoromethane	20	30.5	153	29.8	149	2	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	23.5	118	24.1	121	3	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	24.2	121	24.0	120	1	76-131/10
541-73-1	m-Dichlorobenzene	20	20.0	100	20.4	102	2	79-121/10
95-50-1	o-Dichlorobenzene	20	19.7	99	20.1	101	2	79-120/10
106-46-7	p-Dichlorobenzene	20	19.7	99	19.9	100	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	21.4	107	21.2	106	1	73-125/10
100-41-4	Ethylbenzene	20	20.9	105	20.8	104	0	78-123/10
76-13-1	Freon 113	20	22.7	114	22.7	114	0	59-129/18
87-68-3	Hexachlorobutadiene	20	21.2	106	20.6	103	3	70-130/12
67-63-0	Isopropyl Alcohol	400	492	123	466	117	5	49-148/17
74-83-9	Methyl bromide	20	24.0	120	25.1	126* [a]	4	65-124/13
74-87-3	Methyl chloride	20	20.2	101	20.4	102	1	47-143/20
75-09-2	Methylene chloride	20	21.2	106	22.2	111	5	65-124/15
100-42-5	Styrene	20	21.3	107	21.4	107	0	73-126/10
71-55-6	1,1,1-Trichloroethane	20	25.6	128* [a]	25.3	127* [a]	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	19.3	97	20.1	101	4	78-127/10
79-00-5	1,1,2-Trichloroethane	20	20.2	101	20.1	101	0	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	20.1	101	20.2	101	0	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	20.0	100	20.1	101	0	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	20.1	101	20.3	102	1	79-130/10
127-18-4	Tetrachloroethylene	20	19.6	98	19.2	96	2	72-124/13
108-88-3	Toluene	20	20.2	101	20.2	101	0	78-121/10
79-01-6	Trichloroethylene	20	23.2	116	23.0	115	1	75-119/10
75-69-4	Trichlorofluoromethane	20	26.6	133* [a]	26.1	131* [a]	2	68-130/19
75-01-4	Vinyl chloride	20	25.4	127	25.1	126	1	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2339-BS	W61720.D	1	07/25/16	CV	n/a	n/a	VW2339
VW2339-BSD	W61724.D	1	07/25/16	CV	n/a	n/a	VW2339

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-5, C46585-6, C46585-7, C46585-8, C46585-9, C46585-10, C46585-11, C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	41.4	104	41.2	103	0	78-123/10
95-47-6	o-Xylene	20	20.5	103	20.2	101	1	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	104%	103%	80-123%
2037-26-5	Toluene-D8	92%	92%	88-112%
460-00-4	4-Bromofluorobenzene	105%	103%	79-114%

(a) Outside laboratory control limits (high bias); not detected in associated samples.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2340-BS	W61753.D	1	07/27/16	CV	n/a	n/a	VW2340
VW2340-BSD	W61754.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-17, C46585-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	17.1	86	17.2	86	1	76-120/10
108-90-7	Chlorobenzene	20	17.1	86	16.8	84	2	79-119/10
75-00-3	Chloroethane	20	19.0	95	19.1	96	1	60-115/14
67-66-3	Chloroform	20	17.6	88	17.2	86	2	75-122/10
56-23-5	Carbon tetrachloride	20	17.7	89	17.7	89	0	72-128/13
75-34-3	1,1-Dichloroethane	20	17.4	87	17.2	86	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	16.4	82	15.9	80	3	62-125/13
106-93-4	1,2-Dibromoethane	20	17.8	89	17.4	87	2	81-124/10
107-06-2	1,2-Dichloroethane	20	17.9	90	17.8	89	1	74-122/10
78-87-5	1,2-Dichloropropane	20	17.1	86	17.2	86	1	75-123/10
75-71-8	Dichlorodifluoromethane	20	15.1	76	13.9	70	8	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	18.0	90	17.5	88	3	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	18.5	93	18.3	92	1	76-131/10
541-73-1	m-Dichlorobenzene	20	17.2	86	17.0	85	1	79-121/10
95-50-1	o-Dichlorobenzene	20	17.0	85	17.0	85	0	79-120/10
106-46-7	p-Dichlorobenzene	20	17.0	85	16.9	85	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	18.0	90	17.5	88	3	73-125/10
100-41-4	Ethylbenzene	20	17.3	87	16.9	85	2	78-123/10
76-13-1	Freon 113	20	16.3	82	16.1	81	1	59-129/18
87-68-3	Hexachlorobutadiene	20	17.6	88	17.4	87	1	70-130/12
67-63-0	Isopropyl Alcohol	400	424	106	405	101	5	49-148/17
74-83-9	Methyl bromide	20	17.8	89	18.0	90	1	65-124/13
74-87-3	Methyl chloride	20	14.0	70	14.0	70	0	47-143/20
75-09-2	Methylene chloride	20	16.7	84	16.4	82	2	65-124/15
100-42-5	Styrene	20	17.8	89	17.4	87	2	73-126/10
71-55-6	1,1,1-Trichloroethane	20	17.9	90	17.8	89	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	18.0	90	18.0	90	0	78-127/10
79-00-5	1,1,2-Trichloroethane	20	17.5	88	17.4	87	1	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	17.1	86	17.2	86	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	17.2	86	17.0	85	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	17.3	87	17.2	86	1	79-130/10
127-18-4	Tetrachloroethylene	20	15.6	78	15.2	76	3	72-124/13
108-88-3	Toluene	20	17.1	86	16.9	85	1	78-121/10
79-01-6	Trichloroethylene	20	17.3	87	17.3	87	0	75-119/10
75-69-4	Trichlorofluoromethane	20	17.7	89	17.3	87	2	68-130/19
75-01-4	Vinyl chloride	20	18.3	92	18.2	91	1	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2340-BS	W61753.D	1	07/27/16	CV	n/a	n/a	VW2340
VW2340-BSD	W61754.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-17, C46585-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	33.9	85	33.2	83	2	78-123/10
95-47-6	o-Xylene	20	16.7	84	16.3	82	2	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	98%	80-123%
2037-26-5	Toluene-D8	98%	97%	88-112%
460-00-4	4-Bromofluorobenzene	100%	99%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-24MS	W61715.D	1	07/22/16	CV	n/a	n/a	VW2338
C46541-24MSD	W61716.D	1	07/22/16	CV	n/a	n/a	VW2338
C46541-24	W61704.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-1, C46585-2, C46585-3, C46585-4

CAS No.	Compound	C46541-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	20.1	101	20	20.6	103	2	76-120/10
108-90-7	Chlorobenzene	ND		20	19.8	99	20	20.2	101	2	79-119/10
75-00-3	Chloroethane	ND		20	19.7	99	20	21.8	109	10	60-115/14
67-66-3	Chloroform	ND		20	21.8	109	20	22.0	110	1	75-122/10
56-23-5	Carbon tetrachloride	ND		20	26.4	132* [a]	20	26.1	131* [a]	1	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	19.7	99	20	20.6	103	4	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	19.8	99	20	20.5	103	3	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	19.4	97	20	20.1	101	4	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	23.7	119	20	23.1	116	3	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	18.7	94	20	19.5	98	4	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	22.8	114	20	23.0	115	1	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	20.8	104	20	21.3	107	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	20.7	104	20	21.2	106	2	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	19.4	97	20	20.0	100	3	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	19.3	97	20	19.7	99	2	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	19.3	97	20	19.8	99	3	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	19.4	97	20	19.7	99	2	73-125/10
100-41-4	Ethylbenzene	ND		20	20.4	102	20	21.0	105	3	78-123/10
76-13-1	Freon 113	ND		20	22.1	111	20	22.7	114	3	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	20.1	101	20	21.5	108	7	70-130/12
67-63-0	Isopropyl Alcohol	ND		400	408	102	400	439	110	7	49-148/17
74-83-9	Methyl bromide	ND		20	20.7	104	20	21.3	107	3	65-124/13
74-87-3	Methyl chloride	ND		20	15.9	80	20	17.5	88	10	47-143/20
75-09-2	Methylene chloride	ND		20	18.0	90	20	18.9	95	5	65-124/15
100-42-5	Styrene	ND		20	20.6	103	20	21.1	106	2	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	25.0	125	20	24.8	124	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	17.6	88	20	18.9	95	7	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	18.7	94	20	19.3	97	3	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	19.5	98	20	20.3	102	4	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	19.4	97	20	20.1	101	4	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	19.5	98	20	20.1	101	3	79-130/10
127-18-4	Tetrachloroethylene	ND		20	19.8	99	20	20.0	100	1	72-124/13
108-88-3	Toluene	ND		20	19.4	97	20	20.1	101	4	78-121/10
79-01-6	Trichloroethylene	ND		20	22.4	112	20	22.5	113	0	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	26.1	131* [a]	20	26.2	131* [a]	0	68-130/19
75-01-4	Vinyl chloride	ND		20	19.9	100	20	22.0	110	10	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46541-24MS	W61715.D	1	07/22/16	CV	n/a	n/a	VW2338
C46541-24MSD	W61716.D	1	07/22/16	CV	n/a	n/a	VW2338
C46541-24	W61704.D	1	07/22/16	CV	n/a	n/a	VW2338

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-1, C46585-2, C46585-3, C46585-4

CAS No.	Compound	C46541-24 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	40.9	102	40	41.7	104	2	78-123/10
95-47-6	o-Xylene	ND		20	20.1	101	20	20.2	101	0	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46541-24	Limits
1868-53-7	Dibromofluoromethane	103%	101%	100%	80-123%
2037-26-5	Toluene-D8	93%	95%	97%	88-112%
460-00-4	4-Bromofluorobenzene	104%	104%	100%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46585-5MS	W61740.D	1	07/25/16	CV	n/a	n/a	VW2339
C46585-5MSD	W61741.D	1	07/25/16	CV	n/a	n/a	VW2339
C46585-5	W61728.D	1	07/25/16	CV	n/a	n/a	VW2339

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-5, C46585-6, C46585-7, C46585-8, C46585-9, C46585-10, C46585-11, C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-19

CAS No.	Compound	C46585-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	19.9	100	20	19.9	100	0	76-120/10
108-90-7	Chlorobenzene	ND		20	20.5	103	20	20.2	101	1	79-119/10
75-00-3	Chloroethane	ND		20	20.4	102	20	21.1	106	3	60-115/14
67-66-3	Chloroform	ND		20	22.1	111	20	21.2	106	4	75-122/10
56-23-5	Carbon tetrachloride	ND		20	26.8	134* [a]	20	25.6	128	5	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	19.7	99	20	19.6	98	1	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	20.2	101	20	20.0	100	1	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	20.5	103	20	20.4	102	0	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	24.2	121	20	22.9	115	6	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	18.5	93	20	18.6	93	1	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	29.7	149	20	28.4	142	4	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	20.6	103	20	20.4	102	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	21.5	108	20	21.4	107	0	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	21.2	106	20	20.6	103	3	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	21.0	105	20	20.3	102	3	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	21.0	105	20	20.4	102	3	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	21.1	106	20	20.8	104	1	73-125/10
100-41-4	Ethylbenzene	ND		20	21.6	108	20	21.2	106	2	78-123/10
76-13-1	Freon 113	ND		20	21.3	107	20	20.4	102	4	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	21.8	109	20	22.0	110	1	70-130/12
67-63-0	Isopropyl Alcohol	32.6	J	400	401	92	400	409	94	2	49-148/17
74-83-9	Methyl bromide	ND		20	20.7	104	20	21.1	106	2	65-124/13
74-87-3	Methyl chloride	ND		20	16.8	84	20	18.5	93	10	47-143/20
75-09-2	Methylene chloride	ND		20	17.9	90	20	18.2	91	2	65-124/15
100-42-5	Styrene	ND		20	21.6	108	20	21.2	106	2	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	25.2	126* [a]	20	23.9	120	5	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	19.3	97	20	19.6	98	2	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	19.5	98	20	19.5	98	0	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	20.9	105	20	20.8	104	0	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	21.1	106	20	20.7	104	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	21.2	106	20	20.9	105	1	79-130/10
127-18-4	Tetrachloroethylene	ND		20	20.6	103	20	20.2	101	2	72-124/13
108-88-3	Toluene	ND		20	20.2	101	20	20.2	101	0	78-121/10
79-01-6	Trichloroethylene	ND		20	22.2	111	20	21.8	109	2	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	26.6	133* [a]	20	24.9	125	7	68-130/19
75-01-4	Vinyl chloride	ND		20	20.7	104	20	22.3	112	7	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46585-5MS	W61740.D	1	07/25/16	CV	n/a	n/a	VW2339
C46585-5MSD	W61741.D	1	07/25/16	CV	n/a	n/a	VW2339
C46585-5	W61728.D	1	07/25/16	CV	n/a	n/a	VW2339

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-5, C46585-6, C46585-7, C46585-8, C46585-9, C46585-10, C46585-11, C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-19

CAS No.	Compound	C46585-5 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	42.7	107	40	41.7	104	2	78-123/10
95-47-6	o-Xylene	ND		20	20.8	104	20	20.4	102	2	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46585-5	Limits
1868-53-7	Dibromofluoromethane	100%	99%	97%	80-123%
2037-26-5	Toluene-D8	94%	96%	98%	88-112%
460-00-4	4-Bromofluorobenzene	103%	100%	95%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46642-7MS	W61771.D	1	07/27/16	CV	n/a	n/a	VW2340
C46642-7MSD	W61772.D	1	07/27/16	CV	n/a	n/a	VW2340
C46642-7	W61766.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-17, C46585-18

CAS No.	Compound	C46642-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	17.8	89	20	17.8	89	0	76-120/10
108-90-7	Chlorobenzene	ND		20	18.1	91	20	17.7	89	2	79-119/10
75-00-3	Chloroethane	ND		20	17.9	90	20	18.5	93	3	60-115/14
67-66-3	Chloroform	ND		20	19.6	98	20	19.3	97	2	75-122/10
56-23-5	Carbon tetrachloride	ND		20	23.8	119	20	23.2	116	3	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	17.8	89	20	17.9	90	1	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	17.6	88	20	17.3	87	2	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	18.2	91	20	17.9	90	2	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	21.6	108	20	20.8	104	4	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	16.7	84	20	17.0	85	2	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	21.0	105	20	19.3	97	8	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	18.4	92	20	18.4	92	0	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	19.1	96	20	18.8	94	2	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	17.9	90	20	17.9	90	0	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	17.8	89	20	17.9	90	1	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	17.9	90	20	17.7	89	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	18.3	92	20	18.1	91	1	73-125/10
100-41-4	Ethylbenzene	ND		20	18.9	95	20	18.7	94	1	78-123/10
76-13-1	Freon 113	ND		20	20.6	103	20	19.8	99	4	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	18.7	94	20	19.5	98	4	70-130/12
67-63-0	Isopropyl Alcohol	ND		400	335	84	400	365	91	9	49-148/17
74-83-9	Methyl bromide	ND		20	18.3	92	20	18.6	93	2	65-124/13
74-87-3	Methyl chloride	ND		20	13.9	70	20	14.9	75	7	47-143/20
75-09-2	Methylene chloride	ND		20	16.3	82	20	16.3	82	0	65-124/15
100-42-5	Styrene	ND		20	19.0	95	20	18.6	93	2	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	22.5	113	20	21.9	110	3	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	16.4	82	20	17.1	86	4	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	17.3	87	20	16.9	85	2	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	17.6	88	20	18.1	91	3	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	18.1	91	20	18.2	91	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	18.2	91	20	18.5	93	2	79-130/10
127-18-4	Tetrachloroethylene	ND		20	17.8	89	20	17.5	88	2	72-124/13
108-88-3	Toluene	ND		20	17.8	89	20	17.7	89	1	78-121/10
79-01-6	Trichloroethylene	ND		20	20.0	100	20	19.2	96	4	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	23.7	119	20	22.8	114	4	68-130/19
75-01-4	Vinyl chloride	ND		20	17.4	87	20	18.6	93	7	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46585
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46642-7MS	W61771.D	1	07/27/16	CV	n/a	n/a	VW2340
C46642-7MSD	W61772.D	1	07/27/16	CV	n/a	n/a	VW2340
C46642-7	W61766.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46585-17, C46585-18

CAS No.	Compound	C46642-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	37.2	93	40	36.2	91	3	78-123/10
95-47-6	o-Xylene	ND		20	18.3	92	20	17.9	90	2	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46642-7	Limits
1868-53-7	Dibromofluoromethane	99%	99%	97%	80-123%
2037-26-5	Toluene-D8	94%	94%	97%	88-112%
460-00-4	4-Bromofluorobenzene	105%	100%	97%	79-114%

* = Outside of Control Limits.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46585
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Perchlorate	GP9633/GN19391	3.0	0.0	ug/l	25	26.1	104.4	85-115%
Perchlorate	GP9638/GN19401	3.0	0.0	ug/l	25	26.5	106.0	85-115%
Specific Conductivity	GN19357	1.0	0.0	umhos/cm				
Specific Conductivity	GN19358	1.0	0.0	umhos/cm				
Specific Conductivity	GN19363	1.0	0.0	umhos/cm				

Associated Samples:
Batch GP9633: C46585-1, C46585-2, C46585-3, C46585-4, C46585-5, C46585-6, C46585-7, C46585-8, C46585-9, C46585-10, C46585-11
Batch GP9638: C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-17, C46585-18
Batch GN19357: C46585-1, C46585-2, C46585-3, C46585-4, C46585-5, C46585-6, C46585-7, C46585-8
Batch GN19358: C46585-9, C46585-10, C46585-11, C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-18
Batch GN19363: C46585-17
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46585
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Perchlorate	GP9633/GN19391	ug/l	25	25.4	2.7	10%
Perchlorate	GP9638/GN19401	ug/l	25	25.2	5.0	10%

Associated Samples:
Batch GP9633: C46585-1, C46585-2, C46585-3, C46585-4, C46585-5, C46585-6, C46585-7, C46585-8, C46585-9, C46585-10, C46585-11
Batch GP9638: C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-17, C46585-18
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46585
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GN19357	C46600-5	umhos/cm	2250	2260	0.5	0-10%
Specific Conductivity	GN19358	C46585-9	umhos/cm	246	246	0.2	0-10%
Specific Conductivity	GN19363	C46642-3	umhos/cm	506	506	0.0	0-10%

Associated Samples:
Batch GN19357: C46585-1, C46585-2, C46585-3, C46585-4, C46585-5, C46585-6, C46585-7, C46585-8
Batch GN19358: C46585-9, C46585-10, C46585-11, C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-18
Batch GN19363: C46585-17
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46585
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Perchlorate	GP9633/GN19391	C46541-24	ug/l	0.87	25	23.5	90.5	80-120%
Perchlorate	GP9638/GN19401	C46642-7	ug/l	2.0	25	24.5	90.0	80-120%

Associated Samples:
Batch GP9633: C46585-1, C46585-2, C46585-3, C46585-4, C46585-5, C46585-6, C46585-7, C46585-8, C46585-9, C46585-10, C46585-11
Batch GP9638: C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-17, C46585-18
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46585
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Perchlorate	GP9633/GN19391	C46541-24	ug/l	0.87	25	23.6	0.4	15%
Perchlorate	GP9638/GN19401	C46642-7	ug/l	2.0	25	24.6	0.4	15%

Associated Samples:
Batch GP9633: C46585-1, C46585-2, C46585-3, C46585-4, C46585-5, C46585-6, C46585-7, C46585-8, C46585-9, C46585-10, C46585-11
Batch GP9638: C46585-12, C46585-13, C46585-14, C46585-15, C46585-16, C46585-17, C46585-18
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

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Automated Report

Technical Report for

United Technology Corporation

ENSTNM: UTC RFF Superfund Site - Rialto, CA

0888818881

SGS Accutest Job Number: C46642

Sampling Dates: 07/20/16 - 07/21/16

Report to:

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ATTN: Shaun Winter

Total number of pages in report: **109**

NELAP ACCREDITED TNI LABORATORY

James J. Rhudy
Lab Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Elvin Kumar 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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Sample Summary

United Technology Corporation

Job No: C46642

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 0888818881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46642-1	07/20/16	08:29	RT	07/23/16	AQ	Ground Water	MP6G654
C46642-2	07/20/16	08:54	RT	07/23/16	AQ	Ground Water	MP6G573
C46642-3	07/20/16	09:19	RT	07/23/16	AQ	Ground Water	MP6G449
C46642-4	07/20/16	09:41	RT	07/23/16	AQ	Ground Water	MP6G355
C46642-5	07/20/16	11:37	RT	07/23/16	AQ	Ground Water	MP3G899
C46642-6	07/20/16	12:10	RT	07/23/16	AQ	Ground Water	MP3G814
C46642-7	07/20/16	12:45	RT	07/23/16	AQ	Ground Water	MP3G687
C46642-7D	07/20/16	12:45	RT	07/23/16	AQ	Water Dup/MSD	MP3G687
C46642-7S	07/20/16	12:45	RT	07/23/16	AQ	Water Matrix Spike	MP3G687
C46642-8	07/20/16	13:17	RT	07/23/16	AQ	Ground Water	MP3G592
C46642-9	07/20/16	13:19	RT	07/23/16	AQ	Ground Water	MP3H592
C46642-10	07/20/16	13:44	RT	07/23/16	AQ	Ground Water	MP3G457
C46642-11	07/20/16	13:30	RT	07/23/16	AQ	Equipment Blank	EB1072016

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Sample Summary
(continued)

United Technology Corporation

Job No: C46642

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 0888818881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46642-12	07/21/16	09:08	RT	07/23/16	AQ	Ground Water	MP2G764
C46642-13	07/21/16	09:35	RT	07/23/16	AQ	Ground Water	MP2G714
C46642-14	07/21/16	10:00	RT	07/23/16	AQ	Ground Water	MP2G614
C46642-15	07/21/16	10:30	RT	07/23/16	AQ	Ground Water	MP2G510
C46642-15D	07/21/16	10:30	RT	07/23/16	AQ	Water Dup/MSD	MP2G510
C46642-15S	07/21/16	10:30	RT	07/23/16	AQ	Water Matrix Spike	MP2G510
C46642-16	07/21/16	10:53	RT	07/23/16	AQ	Ground Water	MP2G410
C46642-17	07/21/16	10:55	RT	07/23/16	AQ	Ground Water	MP2H410
C46642-18	07/21/16	11:17	RT	07/23/16	AQ	Ground Water	MP2G350
C46642-19	07/21/16	13:20	RT	07/23/16	AQ	Ground Water	MP7G701
C46642-20	07/21/16	13:45	RT	07/23/16	AQ	Ground Water	MP7G588
C46642-21	07/21/16	14:06	RT	07/23/16	AQ	Ground Water	MP7G508
C46642-22	07/21/16	14:26	RT	07/23/16	AQ	Ground Water	MP7G433

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Sample Summary
(continued)

United Technology Corporation

Job No: C46642

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 0888818881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46642-23	07/21/16	14:50	RT	07/23/16	AQ	Ground Water	MP7G357
C46642-24	07/21/16	14:35	RT	07/23/16	AQ	Equipment Blank	EB1072116
C46642-25	07/20/16	00:00	RT	07/23/16	AQ	Trip Blank Water	TRIP BLANK

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	C46642
Site:	ENSTNM: UTC RFF Superfund Site - Rialto, CA	**Report Date**	8/8/2016 8:21:14 PM

24 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected between 07/20/2016 and 07/21/2016 and were received at Accutest on 07/23/2016 properly preserved, at 5.9 Deg. C and intact. These Samples received an Accutest job number of C46642. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VW2340

- Sample(s) C46642-7MS, C46642-7MSD were used as the QC samples indicated.
- Sample(s) C46642-1, C46642-10, C46642-11, C46642-2, C46642-25, C46642-3, C46642-4, C46642-5, C46642-6, C46642-7, C46642-8, C46642-9 have for Dichlorodifluoromethane a CCV outside of control limits (biased high); not detected in samples.

Matrix: AQ **Batch ID:** VW2341

- Sample(s) C46642-15MS, C46642-15MSD were used as the QC samples indicated.
- Sample(s) C46642-12, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24 have for Dichlorodifluoromethane a CCV outside of control limits (biased high); not detected in samples.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Trichlorofluoromethane are outside laboratory control limits. Probable cause due to matrix interference.

Wet Chemistry By Method EPA 314

Matrix: AQ **Batch ID:** GP9638

- Sample(s) C46642-7MS, C46642-7MSD were used as the QC samples for Perchlorate.

Matrix: AQ **Batch ID:** GP9648

- Sample(s) C46642-15MS, C46642-15MSD were used as the QC samples for Perchlorate.

Wet Chemistry By Method SM2510 B-97

Matrix: AQ **Batch ID:** GN19363

- Sample(s) C46642-3DUP were used as the QC samples for Specific Conductivity.

Matrix: AQ **Batch ID:** GN19364

- Sample(s) C46642-15DUP, C46642-7DUP were used as the QC samples for Specific Conductivity.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C46642
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/20/16 thru 07/21/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46642-1	**MP6G654**					
Specific Conductivity		270	1.0	1.0	umhos/cm	SM2510 B-97
C46642-2	**MP6G573**					
Perchlorate		4.5	1.0	0.65	ug/l	EPA 314
Specific Conductivity		223	1.0	1.0	umhos/cm	SM2510 B-97
C46642-3	**MP6G449**					
Perchlorate		3.8	1.0	0.65	ug/l	EPA 314
Specific Conductivity		506	1.0	1.0	umhos/cm	SM2510 B-97
C46642-4	**MP6G355**					
Perchlorate		27.7	1.0	0.65	ug/l	EPA 314
Specific Conductivity		597	1.0	1.0	umhos/cm	SM2510 B-97
C46642-5	**MP3G899**					
Specific Conductivity		234	1.0	1.0	umhos/cm	SM2510 B-97
C46642-6	**MP3G814**					
Specific Conductivity		240	1.0	1.0	umhos/cm	SM2510 B-97
C46642-7	**MP3G687**					
Perchlorate		2.0	1.0	0.65	ug/l	EPA 314
Specific Conductivity		402	1.0	1.0	umhos/cm	SM2510 B-97
C46642-8	**MP3G592**					
Perchlorate		2.5	1.0	0.65	ug/l	EPA 314
Specific Conductivity		480	1.0	1.0	umhos/cm	SM2510 B-97
C46642-9	**MP3H592**					
Perchlorate		2.6	1.0	0.65	ug/l	EPA 314
Specific Conductivity		481	1.0	1.0	umhos/cm	SM2510 B-97
C46642-10	**MP3G457**					
Perchlorate		12.4	1.0	0.65	ug/l	EPA 314

Summary of Hits

Job Number: C46642
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/20/16 thru 07/21/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Specific Conductivity		624	1.0	1.0	umhos/cm	SM2510 B-97
C46642-11	**EB1072016**					
Specific Conductivity		3.3	1.0	1.0	umhos/cm	SM2510 B-97
C46642-12	**MP2G764**					
Isopropyl Alcohol		23.0 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		458	1.0	1.0	umhos/cm	SM2510 B-97
C46642-13	**MP2G714**					
Isopropyl Alcohol		14.0 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		326	1.0	1.0	umhos/cm	SM2510 B-97
C46642-14	**MP2G614**					
Isopropyl Alcohol		18.4 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		253	1.0	1.0	umhos/cm	SM2510 B-97
C46642-15	**MP2G510**					
Isopropyl Alcohol		37.3 J	100	5.0	ug/l	SW846 8260B
Perchlorate		1.2	1.0	0.65	ug/l	EPA 314
Specific Conductivity		317	1.0	1.0	umhos/cm	SM2510 B-97
C46642-16	**MP2G410**					
Isopropyl Alcohol		41.3 J	100	5.0	ug/l	SW846 8260B
Tetrachloroethylene		1.0	1.0	0.30	ug/l	SW846 8260B
Perchlorate		9.2	1.0	0.65	ug/l	EPA 314
Specific Conductivity		535	1.0	1.0	umhos/cm	SM2510 B-97
C46642-17	**MP2H410**					
Isopropyl Alcohol		9.4 J	100	5.0	ug/l	SW846 8260B
Tetrachloroethylene		1.1	1.0	0.30	ug/l	SW846 8260B
Perchlorate		8.5	1.0	0.65	ug/l	EPA 314
Specific Conductivity		535	1.0	1.0	umhos/cm	SM2510 B-97
C46642-18	**MP2G350**					
Perchlorate		3.0	1.0	0.65	ug/l	EPA 314
Specific Conductivity		468	1.0	1.0	umhos/cm	SM2510 B-97

Summary of Hits

Job Number: C46642
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/20/16 thru 07/21/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46642-19	**MP7G701**					
Specific Conductivity		346	1.0	1.0	umhos/cm	SM2510 B-97
C46642-20	**MP7G588**					
Isopropyl Alcohol		8.3 J	100	5.0	ug/l	SW846 8260B
Perchlorate		0.95 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		307	1.0	1.0	umhos/cm	SM2510 B-97
C46642-21	**MP7G508**					
Isopropyl Alcohol		7.4 J	100	5.0	ug/l	SW846 8260B
Perchlorate		3.0	1.0	0.65	ug/l	EPA 314
Specific Conductivity		317	1.0	1.0	umhos/cm	SM2510 B-97
C46642-22	**MP7G433**					
Perchlorate		5.4	1.0	0.65	ug/l	EPA 314
Specific Conductivity		464	1.0	1.0	umhos/cm	SM2510 B-97
C46642-23	**MP7G357**					
Isopropyl Alcohol		5.9 J	100	5.0	ug/l	SW846 8260B
Perchlorate		6.9	1.0	0.65	ug/l	EPA 314
Specific Conductivity		582	1.0	1.0	umhos/cm	SM2510 B-97
C46642-24	**EB1072116**					
Isopropyl Alcohol		15.8 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		4.4	1.0	1.0	umhos/cm	SM2510 B-97
C46642-25	**TRIP BLANK**					
Isopropyl Alcohol		7.5 J	100	5.0	ug/l	SW846 8260B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MP6G654		
Lab Sample ID:	C46642-1	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61760.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP6G654		
Lab Sample ID:	C46642-1	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP6G654		
Lab Sample ID:	C46642-1	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/02/16 18:04	PH	EPA 314
Specific Conductivity	270	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP6G573		
Lab Sample ID:	C46642-2	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61761.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP6G573		
Lab Sample ID:	C46642-2	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP6G573		
Lab Sample ID:	C46642-2	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	4.5	1.0	0.65	ug/l	1	08/02/16 18:21	PH	EPA 314
Specific Conductivity	223	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP6G449		
Lab Sample ID:	C46642-3	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61762.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP6G449		
Lab Sample ID:	C46642-3	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP6G449		
Lab Sample ID:	C46642-3	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	3.8	1.0	0.65	ug/l	1	08/02/16 18:39	PH	EPA 314
Specific Conductivity	506	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP6G355		
Lab Sample ID:	C46642-4	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61763.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP6G355		
Lab Sample ID:	C46642-4	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	95%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP6G355		
Lab Sample ID:	C46642-4	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	27.7	1.0	0.65	ug/l	1	08/02/16 18:57	PH	EPA 314
Specific Conductivity	597	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP3G899		
Lab Sample ID:	C46642-5	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61764.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3G899		
Lab Sample ID:	C46642-5	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3G899		
Lab Sample ID:	C46642-5	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/02/16 19:15	PH	EPA 314
Specific Conductivity	234	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP3G814		
Lab Sample ID:	C46642-6	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61765.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3G814		
Lab Sample ID:	C46642-6	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3G814		
Lab Sample ID:	C46642-6	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/02/16 20:09	PH	EPA 314
Specific Conductivity	240	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP3G687		
Lab Sample ID:	C46642-7	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61766.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3G687		
Lab Sample ID:	C46642-7	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3G687		
Lab Sample ID:	C46642-7	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	2.0	1.0	0.65	ug/l	1	08/02/16 20:26	PH	EPA 314
Specific Conductivity	402	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP3G592		
Lab Sample ID:	C46642-8	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61767.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3G592		
Lab Sample ID:	C46642-8	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3G592		
Lab Sample ID:	C46642-8	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	2.5	1.0	0.65	ug/l	1	08/02/16 21:20	PH	EPA 314
Specific Conductivity	480	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP3H592		
Lab Sample ID:	C46642-9	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61768.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3H592		
Lab Sample ID:	C46642-9	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3H592		
Lab Sample ID:	C46642-9	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	2.6	1.0	0.65	ug/l	1	08/02/16 21:38	PH	EPA 314
Specific Conductivity	481	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP3G457		
Lab Sample ID:	C46642-10	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61769.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3G457		
Lab Sample ID:	C46642-10	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP3G457		
Lab Sample ID:	C46642-10	**Date Sampled:**	07/20/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	12.4	1.0	0.65	ug/l	1	08/02/16 21:56	PH	EPA 314
Specific Conductivity	624	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB1072016		
Lab Sample ID:	C46642-11	**Date Sampled:**	07/20/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61770.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1072016		
Lab Sample ID:	C46642-11	**Date Sampled:**	07/20/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1072016		
Lab Sample ID:	C46642-11	**Date Sampled:**	07/20/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/04/16 13:39	PH	EPA 314
Specific Conductivity	3.3	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP2G764		
Lab Sample ID:	C46642-12	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61780.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	23.0	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G764		
Lab Sample ID:	C46642-12	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	96%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G764		
Lab Sample ID:	C46642-12	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/04/16 13:57	PH	EPA 314
Specific Conductivity	458	1.0	1.0	umhos/cm	1	07/25/16 11:56	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP2G714		
Lab Sample ID:	C46642-13	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61781.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	14.0	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G714		
Lab Sample ID:	C46642-13	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G714		
Lab Sample ID:	C46642-13	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/04/16 14:14	PH	EPA 314
Specific Conductivity	326	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP2G614		
Lab Sample ID:	C46642-14	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61782.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	18.4	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G614		
Lab Sample ID:	C46642-14	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G614		
Lab Sample ID:	C46642-14	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/04/16 14:32	PH	EPA 314
Specific Conductivity	253	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP2G510		
Lab Sample ID:	C46642-15	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61783.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	37.3	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G510		
Lab Sample ID:	C46642-15	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G510		
Lab Sample ID:	C46642-15	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.2	1.0	0.65	ug/l	1	08/04/16 14:50	PH	EPA 314
Specific Conductivity	317	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP2G410		
Lab Sample ID:	C46642-16	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61784.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	41.3	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	1.0	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G410		
Lab Sample ID:	C46642-16	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G410		
Lab Sample ID:	C46642-16	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	9.2	1.0	0.65	ug/l	1	08/04/16 16:19	PH	EPA 314
Specific Conductivity	535	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP2H410		
Lab Sample ID:	C46642-17	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61785.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	9.4	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	1.1	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2H410		
Lab Sample ID:	C46642-17	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	98%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2H410		
Lab Sample ID:	C46642-17	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	8.5	1.0	0.65	ug/l	1	08/04/16 16:37	PH	EPA 314
Specific Conductivity	535	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP2G350		
Lab Sample ID:	C46642-18	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61786.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G350		
Lab Sample ID:	C46642-18	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP2G350		
Lab Sample ID:	C46642-18	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	3.0	1.0	0.65	ug/l	1	08/04/16 16:55	PH	EPA 314
Specific Conductivity	468	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP7G701		
Lab Sample ID:	C46642-19	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61787.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP7G701		
Lab Sample ID:	C46642-19	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP7G701		
Lab Sample ID:	C46642-19	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/04/16 17:13	PH	EPA 314
Specific Conductivity	346	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP7G588		
Lab Sample ID:	C46642-20	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61788.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	8.3	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP7G588		
Lab Sample ID:	C46642-20	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP7G588		
Lab Sample ID:	C46642-20	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.95 J	1.0	0.65	ug/l	1	08/04/16 17:31	PH	EPA 314
Specific Conductivity	307	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP7G508		
Lab Sample ID:	C46642-21	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61789.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	7.4	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP7G508		
Lab Sample ID:	C46642-21	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	95%		88-112%
460-00-4	4-Bromofluorobenzene	101%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP7G508		
Lab Sample ID:	C46642-21	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	3.0	1.0	0.65	ug/l	1	08/04/16 17:49	PH	EPA 314
Specific Conductivity	317	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP7G433		
Lab Sample ID:	C46642-22	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61790.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP7G433		
Lab Sample ID:	C46642-22	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	97%		88-112%
460-00-4	4-Bromofluorobenzene	100%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP7G433		
Lab Sample ID:	C46642-22	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	5.4	1.0	0.65	ug/l	1	08/04/16 18:06	PH	EPA 314
Specific Conductivity	464	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	MP7G357		
Lab Sample ID:	C46642-23	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61791.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	5.9	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP7G357		
Lab Sample ID:	C46642-23	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MP7G357		
Lab Sample ID:	C46642-23	**Date Sampled:**	07/21/16
Matrix:	AQ - Ground Water	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	6.9	1.0	0.65	ug/l	1	08/04/16 18:24	PH	EPA 314
Specific Conductivity	582	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	EB1072116		
Lab Sample ID:	C46642-24	**Date Sampled:**	07/21/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61792.D	1	07/28/16	CV	n/a	n/a	VW2341
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	15.8	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1072116		
Lab Sample ID:	C46642-24	**Date Sampled:**	07/21/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-123%
2037-26-5	Toluene-D8	96%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	EB1072116		
Lab Sample ID:	C46642-24	**Date Sampled:**	07/21/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/23/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/04/16 19:18	PH	EPA 314
Specific Conductivity	4.4	1.0	1.0	umhos/cm	1	07/25/16 12:42	EA	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C46642-25	**Date Sampled:**	07/20/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61757.D	1	07/27/16	CV	n/a	n/a	VW2340
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	7.5	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	C46642-25	**Date Sampled:**	07/20/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/23/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		80-123%
2037-26-5	Toluene-D8	99%		88-112%
460-00-4	4-Bromofluorobenzene	97%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

ACCUTEST LABORATORIES
2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

Page 1 of 3

FED-EX Tracking # 7856 4554 8407
Bottle Order Control #
Accutest Quote #
Accutest NC Job #: C C46642

Client / Reporting Information

Company Name: EnSafe
Address: 2151 Salvio St.
City: Concord State: CA Zip: 94520
Project Contact: Shawn Winter
Phone #: 615-252-2853
Samplers's Name: Robert Torres

Project Information

Project Name: UTC-RFF Superfund
Street:
City: Rialto State: CA
Project #: 0888818881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC (8260)	Perchlorate (E314)	LAB USE ONLY
1	MP6G654	7-20	0829	RT	GW	4	3				1				X	X	
2	MP6G573	7-20	0854	RT	GW	4	3				1				X	X	
3	MP6G449	7-20	0919	RT	GW	4	3				1				X	X	
4	MP6G355	7-20	0941	RT	GW	4	3				1				X	X	
5	MP3G899	7-20	1137	RT	GW	4	3				1				X	X	
6	MP3G814	7-20	1210	RT	GW	4	3				1				X	X	
7	MP3G687	7-20	1245	RT	GW	12	9				3				X	X	
8	MP3G592	7-20	1317	RT	GW	4	3				1				X	X	
9	MP3H597	7-20	1319	RT	GW	4	3				1				X	X	
10	MP3G457	7-20	1344	RT	GW	4	3				1				X	X	

Turnaround Time (Business days)

Approved By:/ Date:

- [X] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker: [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode

Comments / Remarks

MP3G687 has triple volume for MS/MSD
Trip Blank to Lab

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Robert Torres	7-22-16 1230	1 7-22 1230	2	7-22 1430	2 Fedex
3 Fedex	7/23/16 0830	3 Ali Zeighami	4		4 4.9.59
5		5			

Custody Seal # Intact
Appropriate Bottle / Pres. Y / N
Labels match Coc? Y / N
Headspace Y / N
Separate Receiving Check List used Y / N
Cooler Temp. ___oC

IRVINE

C46642: Chain of Custody
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CHAIN OF CUSTODY

ACCUTEST® LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

Page 2 of 3

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest NC Job #: C C46642

Client / Reporting Information

Company Name: EnSafe
Address: 2151 Salvio St
City: Concord State: CA Zip: 94520
Project Contact: Shaun Winter
Phone #: 615-252-2853
Samplers's Name: Robert Torres

Project Information

Project Name: UTC-RFF Superfund
Street:
City: Rialto State: CA
Project #: 08888188881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC (8260)	Perchlorate (E314)	LAB USE ONLY
11	EB1072016	7-20	1330	RT	WQ	4	3				1				X	X	
12	MP2G764	7-21	0908	RT	GW	4	3				1				X	X	
13	MP2G714	7-21	0935	RT	GW	4	3				1				X	X	
14	MP2G614	7-21	1000	RT	GW	4	3				1				X	X	
15	MP2G510	7-21	1030	RT	GW	12	9				1				X	X	
16	MP2G410	7-21	1053	RT	GW	4	3				1				X	X	
17	MP2H410	7-21	1055	RT	GW	4	3				1				X	X	
18	MP2G350	7-21	1117	RT	GW	4	3				1				X	X	
19	MP7G701	7-21	1320	RT	GW	4	3				1				X	X	
20	MP7G588	7-21	1345	RT	GW	4	3				1				X	X	

Turnaround Time (Business days)

Approved By:/ Date:

- [X] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Date Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

MP2G510 has triple volume for MS/MSD

WQ= Water quality matrix

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Robert Torres	7-22-16 1230	1 7-22 1230	2	7-22 1430	2 IRVINE Fedex A2
Relinquished by: 3 Fedex	Date Time: 7/23/16 0830	Received By: 3 Ali Zeighami	Relinquished By: 4	Date Time:	Received By: 4 B
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N	Headspace Y / N; On Ice Y / N; Separate Receiving Check List used: Y / N; Cooler Temp. ____oC

5.1 5

C46642: Chain of Custody
Page 2 of 5

CHAIN OF CUSTODY

Page 3 of 3

ACCUTEST LABORATORIES

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest NC Job #: C C46642

Client / Reporting Information

Company Name: EnSafe
Address: 2151 Salvio St.
City: Concord State: CA Zip: 94520
Project Contact: Shawn Winter
Phone #: 615-252-2853
Samplers's Name: Robert Torres

Project Information

Project Name: UTC-RFF Superfund
Street:
City: Rialto State: CA
Project #: 08888188881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC (8260)	Perchlorate (E314)	LAB USE ONLY
21	MP7G508	7-21	1406	RT	GW	4	3				1				X	X	
22	MP7G483	7-21	1426	RT	GW	4	3				1				X	X	
23	MP7G357	7-21	1450	RT	GW	4	3				1				X	X	
24	EB1072116	7-21	1435	RT	WQ	4	3				1				X	X	
25	Trip Blank AZ 7/23																

Turnaround Time (Business days)
Approved By:/ Date:
- [x] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information
- [ ] Commercial "A" - Results only
- [x] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for GeoTracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks: WQ= Water quality matrix

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Robert Torres	7-22-16 1230	1 7-22 1230	2	7-22 1430	2 Fedex IRVINE AZ
Relinquished by: 3 Fedex	Date Time: 7/23/16 985F	Received By: 3 Ali Zeighami	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N; Headspace Y / N; Separate Receiving Check List used: Y / N; On Ice Y / N; Cooler Temp. ___ oC	

C46642: Chain of Custody
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SGS Accutest Sample Receipt Summary

Job Number: C46642 **Client:** ENSAFE **Project:** UTC-RFF SUPERFUND

Date / Time Received: 7/23/2016 8:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 783645548407

Cooler Temps (Initial/Adjusted): #1: (4.9/5.9);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR GUN		
3. Cooler media:	Ice (Bag)		
4. No, Coolers	1		

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☐		☑

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments 1) A set of Trip Blank was received but not listed on the COC for analysis. It was added to the COC as Lab Sample ID C46642-25, Is it required to be analyzed for VOCs?

2) Sample MP3G814 (C46642-6) is labeled as MP3G899 (On the sample Bottles), Sample was identified correctly by the collection time = 12:10

Sample Receipt Summary - Problem Resolution

Accutest Job Number: C46642

CSR: Elvin Kumar **Response Date:** 7/25/2016

Response: Client confirmed to run VOCs for sample C46642-25 (Trip Blanks)
correct samples identified by the Collection time

C46642-6 MP3G814, Collection Time = 12:10
C46642-5 MP3G899, Collection Time = 11:37

C46642: Chain of Custody
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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2340-MB	W61756.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-7, C46642-8, C46642-9, C46642-10, C46642-11, C46642-25

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2340-MB	W61756.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-7, C46642-8, C46642-9, C46642-10, C46642-11, C46642-25

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	80-123%
2037-26-5	Toluene-D8	99%	88-112%
460-00-4	4-Bromofluorobenzene	96%	79-114%

Method Blank Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2341-MB	W61779.D	1	07/28/16	CV	n/a	n/a	VW2341

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-12, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2341-MB	W61779.D	1	07/28/16	CV	n/a	n/a	VW2341

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-12, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	96%	80-123%
2037-26-5	Toluene-D8	98%	88-112%
460-00-4	4-Bromofluorobenzene	98%	79-114%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2340-BS	W61753.D	1	07/27/16	CV	n/a	n/a	VW2340
VW2340-BSD	W61754.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-7, C46642-8, C46642-9, C46642-10, C46642-11, C46642-25

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	17.1	86	17.2	86	1	76-120/10
108-90-7	Chlorobenzene	20	17.1	86	16.8	84	2	79-119/10
75-00-3	Chloroethane	20	19.0	95	19.1	96	1	60-115/14
67-66-3	Chloroform	20	17.6	88	17.2	86	2	75-122/10
56-23-5	Carbon tetrachloride	20	17.7	89	17.7	89	0	72-128/13
75-34-3	1,1-Dichloroethane	20	17.4	87	17.2	86	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	16.4	82	15.9	80	3	62-125/13
106-93-4	1,2-Dibromoethane	20	17.8	89	17.4	87	2	81-124/10
107-06-2	1,2-Dichloroethane	20	17.9	90	17.8	89	1	74-122/10
78-87-5	1,2-Dichloropropane	20	17.1	86	17.2	86	1	75-123/10
75-71-8	Dichlorodifluoromethane	20	15.1	76	13.9	70	8	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	18.0	90	17.5	88	3	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	18.5	93	18.3	92	1	76-131/10
541-73-1	m-Dichlorobenzene	20	17.2	86	17.0	85	1	79-121/10
95-50-1	o-Dichlorobenzene	20	17.0	85	17.0	85	0	79-120/10
106-46-7	p-Dichlorobenzene	20	17.0	85	16.9	85	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	18.0	90	17.5	88	3	73-125/10
100-41-4	Ethylbenzene	20	17.3	87	16.9	85	2	78-123/10
76-13-1	Freon 113	20	16.3	82	16.1	81	1	59-129/18
87-68-3	Hexachlorobutadiene	20	17.6	88	17.4	87	1	70-130/12
67-63-0	Isopropyl Alcohol	400	424	106	405	101	5	49-148/17
74-83-9	Methyl bromide	20	17.8	89	18.0	90	1	65-124/13
74-87-3	Methyl chloride	20	14.0	70	14.0	70	0	47-143/20
75-09-2	Methylene chloride	20	16.7	84	16.4	82	2	65-124/15
100-42-5	Styrene	20	17.8	89	17.4	87	2	73-126/10
71-55-6	1,1,1-Trichloroethane	20	17.9	90	17.8	89	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	18.0	90	18.0	90	0	78-127/10
79-00-5	1,1,2-Trichloroethane	20	17.5	88	17.4	87	1	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	17.1	86	17.2	86	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	17.2	86	17.0	85	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	17.3	87	17.2	86	1	79-130/10
127-18-4	Tetrachloroethylene	20	15.6	78	15.2	76	3	72-124/13
108-88-3	Toluene	20	17.1	86	16.9	85	1	78-121/10
79-01-6	Trichloroethylene	20	17.3	87	17.3	87	0	75-119/10
75-69-4	Trichlorofluoromethane	20	17.7	89	17.3	87	2	68-130/19
75-01-4	Vinyl chloride	20	18.3	92	18.2	91	1	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2340-BS	W61753.D	1	07/27/16	CV	n/a	n/a	VW2340
VW2340-BSD	W61754.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-7, C46642-8, C46642-9, C46642-10, C46642-11, C46642-25

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	33.9	85	33.2	83	2	78-123/10
95-47-6	o-Xylene	20	16.7	84	16.3	82	2	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	98%	80-123%
2037-26-5	Toluene-D8	98%	97%	88-112%
460-00-4	4-Bromofluorobenzene	100%	99%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2341-BS	W61776.D	1	07/28/16	CV	n/a	n/a	VW2341
VW2341-BSD	W61777.D	1	07/28/16	CV	n/a	n/a	VW2341

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-12, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	16.3	82	16.4	82	1	76-120/10
108-90-7	Chlorobenzene	20	16.4	82	16.3	82	1	79-119/10
75-00-3	Chloroethane	20	19.2	96	20.4	102	6	60-115/14
67-66-3	Chloroform	20	17.2	86	17.3	87	1	75-122/10
56-23-5	Carbon tetrachloride	20	19.2	96	19.2	96	0	72-128/13
75-34-3	1,1-Dichloroethane	20	16.2	81	16.7	84	3	70-121/10
75-35-4	1,1-Dichloroethylene	20	15.3	77	15.4	77	1	62-125/13
106-93-4	1,2-Dibromoethane	20	16.8	84	16.8	84	0	81-124/10
107-06-2	1,2-Dichloroethane	20	18.8	94	18.5	93	2	74-122/10
78-87-5	1,2-Dichloropropane	20	16.0	80	16.1	81	1	75-123/10
75-71-8	Dichlorodifluoromethane	20	23.6	118	23.8	119	1	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	16.8	84	17.2	86	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	17.9	90	17.8	89	1	76-131/10
541-73-1	m-Dichlorobenzene	20	16.4	82	16.6	83	1	79-121/10
95-50-1	o-Dichlorobenzene	20	16.4	82	16.5	83	1	79-120/10
106-46-7	p-Dichlorobenzene	20	16.4	82	16.6	83	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	17.5	88	17.4	87	1	73-125/10
100-41-4	Ethylbenzene	20	16.9	85	16.8	84	1	78-123/10
76-13-1	Freon 113	20	16.5	83	16.6	83	1	59-129/18
87-68-3	Hexachlorobutadiene	20	17.3	87	17.7	89	2	70-130/12
67-63-0	Isopropyl Alcohol	400	382	96	388	97	2	49-148/17
74-83-9	Methyl bromide	20	18.8	94	19.5	98	4	65-124/13
74-87-3	Methyl chloride	20	15.9	80	16.2	81	2	47-143/20
75-09-2	Methylene chloride	20	15.3	77	15.5	78	1	65-124/15
100-42-5	Styrene	20	17.2	86	17.0	85	1	73-126/10
71-55-6	1,1,1-Trichloroethane	20	18.5	93	18.9	95	2	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	16.1	81	16.5	83	2	78-127/10
79-00-5	1,1,2-Trichloroethane	20	16.3	82	16.3	82	0	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	16.4	82	16.6	83	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	16.5	83	16.8	84	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	16.6	83	16.9	85	2	79-130/10
127-18-4	Tetrachloroethylene	20	15.6	78	15.5	78	1	72-124/13
108-88-3	Toluene	20	16.4	82	16.5	83	1	78-121/10
79-01-6	Trichloroethylene	20	17.1	86	17.2	86	1	75-119/10
75-69-4	Trichlorofluoromethane	20	20.9	105	21.7	109	4	68-130/19
75-01-4	Vinyl chloride	20	19.0	95	19.7	99	4	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2341-BS	W61776.D	1	07/28/16	CV	n/a	n/a	VW2341
VW2341-BSD	W61777.D	1	07/28/16	CV	n/a	n/a	VW2341

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-12, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	33.3	83	32.9	82	1	78-123/10
95-47-6	o-Xylene	20	16.4	82	16.1	81	2	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	99%	99%	80-123%
2037-26-5	Toluene-D8	97%	97%	88-112%
460-00-4	4-Bromofluorobenzene	100%	101%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46642-7MS	W61771.D	1	07/27/16	CV	n/a	n/a	VW2340
C46642-7MSD	W61772.D	1	07/27/16	CV	n/a	n/a	VW2340
C46642-7	W61766.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-7, C46642-8, C46642-9, C46642-10, C46642-11, C46642-25

CAS No.	Compound	C46642-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	17.8	89	20	17.8	89	0	76-120/10
108-90-7	Chlorobenzene	ND		20	18.1	91	20	17.7	89	2	79-119/10
75-00-3	Chloroethane	ND		20	17.9	90	20	18.5	93	3	60-115/14
67-66-3	Chloroform	ND		20	19.6	98	20	19.3	97	2	75-122/10
56-23-5	Carbon tetrachloride	ND		20	23.8	119	20	23.2	116	3	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	17.8	89	20	17.9	90	1	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	17.6	88	20	17.3	87	2	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	18.2	91	20	17.9	90	2	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	21.6	108	20	20.8	104	4	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	16.7	84	20	17.0	85	2	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	21.0	105	20	19.3	97	8	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	18.4	92	20	18.4	92	0	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	19.1	96	20	18.8	94	2	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	17.9	90	20	17.9	90	0	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	17.8	89	20	17.9	90	1	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	17.9	90	20	17.7	89	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	18.3	92	20	18.1	91	1	73-125/10
100-41-4	Ethylbenzene	ND		20	18.9	95	20	18.7	94	1	78-123/10
76-13-1	Freon 113	ND		20	20.6	103	20	19.8	99	4	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	18.7	94	20	19.5	98	4	70-130/12
67-63-0	Isopropyl Alcohol	ND		400	335	84	400	365	91	9	49-148/17
74-83-9	Methyl bromide	ND		20	18.3	92	20	18.6	93	2	65-124/13
74-87-3	Methyl chloride	ND		20	13.9	70	20	14.9	75	7	47-143/20
75-09-2	Methylene chloride	ND		20	16.3	82	20	16.3	82	0	65-124/15
100-42-5	Styrene	ND		20	19.0	95	20	18.6	93	2	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	22.5	113	20	21.9	110	3	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	16.4	82	20	17.1	86	4	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	17.3	87	20	16.9	85	2	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	17.6	88	20	18.1	91	3	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	18.1	91	20	18.2	91	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	18.2	91	20	18.5	93	2	79-130/10
127-18-4	Tetrachloroethylene	ND		20	17.8	89	20	17.5	88	2	72-124/13
108-88-3	Toluene	ND		20	17.8	89	20	17.7	89	1	78-121/10
79-01-6	Trichloroethylene	ND		20	20.0	100	20	19.2	96	4	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	23.7	119	20	22.8	114	4	68-130/19
75-01-4	Vinyl chloride	ND		20	17.4	87	20	18.6	93	7	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46642-7MS	W61771.D	1	07/27/16	CV	n/a	n/a	VW2340
C46642-7MSD	W61772.D	1	07/27/16	CV	n/a	n/a	VW2340
C46642-7	W61766.D	1	07/27/16	CV	n/a	n/a	VW2340

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-7, C46642-8, C46642-9, C46642-10, C46642-11, C46642-25

CAS No.	Compound	C46642-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	37.2	93	40	36.2	91	3	78-123/10
95-47-6	o-Xylene	ND		20	18.3	92	20	17.9	90	2	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46642-7	Limits
1868-53-7	Dibromofluoromethane	99%	99%	97%	80-123%
2037-26-5	Toluene-D8	94%	94%	97%	88-112%
460-00-4	4-Bromofluorobenzene	105%	100%	97%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46642-15MS	W61797.D	1	07/28/16	CV	n/a	n/a	VW2341
C46642-15MSD	W61798.D	1	07/28/16	CV	n/a	n/a	VW2341
C46642-15	W61783.D	1	07/28/16	CV	n/a	n/a	VW2341

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-12, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24

CAS No.	Compound	C46642-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	17.6	88	20	17.3	87	2	76-120/10
108-90-7	Chlorobenzene	ND		20	18.0	90	20	17.4	87	3	79-119/10
75-00-3	Chloroethane	ND		20	18.9	95	20	20.7	104	9	60-115/14
67-66-3	Chloroform	ND		20	20.4	102	20	19.3	97	6	75-122/10
56-23-5	Carbon tetrachloride	ND		20	25.4	127	20	23.8	119	7	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	17.7	89	20	17.5	88	1	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	17.2	86	20	16.8	84	2	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	18.2	91	20	17.4	87	4	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	23.4	117	20	21.5	108	8	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	16.6	83	20	16.2	81	2	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	29.6	148	20	31.0	155	5	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	18.1	91	20	17.9	90	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	19.2	96	20	18.5	93	4	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	18.0	90	20	17.3	87	4	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	17.9	90	20	17.3	87	3	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	17.9	90	20	17.3	87	3	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	18.8	94	20	18.0	90	4	73-125/10
100-41-4	Ethylbenzene	ND		20	19.2	96	20	18.4	92	4	78-123/10
76-13-1	Freon 113	ND		20	19.9	100	20	19.5	98	2	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	18.9	95	20	18.5	93	2	70-130/12
67-63-0	Isopropyl Alcohol	37.3	J	400	409	93	400	388	88	5	49-148/17
74-83-9	Methyl bromide	ND		20	19.8	99	20	21.1	106	6	65-124/13
74-87-3	Methyl chloride	ND		20	16.4	82	20	18.7	94	13	47-143/20
75-09-2	Methylene chloride	ND		20	16.0	80	20	15.9	80	1	65-124/15
100-42-5	Styrene	ND		20	19.1	96	20	18.0	90	6	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	23.6	118	20	22.4	112	5	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	16.1	81	20	16.2	81	1	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	17.2	86	20	16.9	85	2	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	17.5	88	20	17.3	87	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	18.3	92	20	17.9	90	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	18.3	92	20	18.0	90	2	79-130/10
127-18-4	Tetrachloroethylene	ND		20	18.2	91	20	17.2	86	6	72-124/13
108-88-3	Toluene	ND		20	17.5	88	20	17.3	87	1	78-121/10
79-01-6	Trichloroethylene	ND		20	20.3	102	20	19.5	98	4	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	26.7	134* [a]	20	26.7	134* [a]	0	68-130/19
75-01-4	Vinyl chloride	ND		20	19.7	99	20	21.4	107	8	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46642
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46642-15MS	W61797.D	1	07/28/16	CV	n/a	n/a	VW2341
C46642-15MSD	W61798.D	1	07/28/16	CV	n/a	n/a	VW2341
C46642-15	W61783.D	1	07/28/16	CV	n/a	n/a	VW2341

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46642-12, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24

CAS No.	Compound	C46642-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	37.2	93	40	35.3	88	5	78-123/10
95-47-6	o-Xylene	ND		20	18.3	92	20	17.5	88	4	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46642-15	Limits
1868-53-7	Dibromofluoromethane	102%	100%	98%	80-123%
2037-26-5	Toluene-D8	94%	96%	97%	88-112%
460-00-4	4-Bromofluorobenzene	107%	105%	98%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46642
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Perchlorate	GP9638/GN19401	3.0	0.0	ug/l	25	26.5	106.0	85-115%
Perchlorate	GP9648/GN19422	3.0	0.0	ug/l	25	23.4	93.6	85-115%
Specific Conductivity	GN19363	1.0	0.0	umhos/cm				
Specific Conductivity	GN19364	1.0	0.0	umhos/cm				

Associated Samples:
Batch GP9638: C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-7, C46642-8, C46642-9, C46642-10
Batch GP9648: C46642-11, C46642-12, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24
Batch GN19363: C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-8, C46642-9, C46642-10, C46642-11, C46642-12
Batch GN19364: C46642-7, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46642
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Perchlorate	GP9638/GN19401	ug/l	25	25.2	5.0	10%
Perchlorate	GP9648/GN19422	ug/l	25	24.2	3.4	10%

Associated Samples:
Batch GP9638: C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-7, C46642-8, C46642-9, C46642-10
Batch GP9648: C46642-11, C46642-12, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46642
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GN19363	C46642-3	umhos/cm	506	506	0.0	0-10%
Specific Conductivity	GN19364	C46642-15	umhos/cm	317	316	0.3	0-10%
Specific Conductivity	GN19364	C46642-7	umhos/cm	402	399	0.7	0-10%

Associated Samples:
Batch GN19363: C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-8, C46642-9, C46642-10, C46642-11, C46642-12
Batch GN19364: C46642-7, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46642
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Perchlorate	GP9638/GN19401	C46642-7	ug/l	2.0	25	24.5	90.0	80-120%
Perchlorate	GP9648/GN19422	C46642-15	ug/l	1.2	25	23.9	90.8	80-120%

Associated Samples:
Batch GP9638: C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-7, C46642-8, C46642-9, C46642-10
Batch GP9648: C46642-11, C46642-12, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46642
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Perchlorate	GP9638/GN19401	C46642-7	ug/l	2.0	25	24.6	0.4	15%
Perchlorate	GP9648/GN19422	C46642-15	ug/l	1.2	25	24.3	1.7	15%

Associated Samples:
Batch GP9638: C46642-1, C46642-2, C46642-3, C46642-4, C46642-5, C46642-6, C46642-7, C46642-8, C46642-9, C46642-10
Batch GP9648: C46642-11, C46642-12, C46642-13, C46642-14, C46642-15, C46642-16, C46642-17, C46642-18, C46642-19, C46642-20, C46642-21, C46642-22, C46642-23, C46642-24
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

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Automated Report

Technical Report for

United Technology Corporation

ENSTNM: UTC RFF Superfund Site - Rialto, CA

08888-18881

SGS Accutest Job Number: C46725

Sampling Dates: 07/27/16 - 07/29/16

Report to:

Ensafe
5724 Summer Trees Road
Memphis, TN 38134
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ATTN: Shaun Winter

Total number of pages in report: **95**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

James J. Rhudy
Lab Director

Client Service contact: Elvin Kumar 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925) DoD ELAP (L-A-B L2242)

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SGS Accutest

Sample Summary

United Technology Corporation

Job No: C46725

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 08888-18881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46725-1	07/27/16	12:12	RT	07/30/16	AQ	Equipment Blank	FB1072716
C46725-2	07/28/16	08:00	RT	07/30/16	AQ	Ground Water	5W11F1G940
C46725-3	07/28/16	08:18	RT	07/30/16	AQ	Ground Water	5W11F3G432
C46725-4	07/28/16	08:25	RT	07/30/16	AQ	Ground Water	5W11F4G320
C46725-5	07/28/16	09:30	RT	07/30/16	AQ	Equipment Blank	FB1072816
C46725-6	07/28/16	09:05	RT	07/30/16	AQ	Ground Water	5W3A5G670
C46725-7	07/28/16	09:14	RT	07/30/16	AQ	Ground Water	5W3A6G510
C46725-8	07/28/16	08:00	RT	07/30/16	AQ	Ground Water	5W3A7G410
C46725-9	07/29/16	08:05	RT	07/30/16	AQ	Trip Blank Water	TB1072916
C46725-10	07/27/16	10:05	RT	07/30/16	AQ	Ground Water	5W13B2G685
C46725-11	07/27/16	10:25	RT	07/30/16	AQ	Ground Water	5W13B3G550
C46725-12	07/27/16	10:27	RT	07/30/16	AQ	Ground Water	5W13B3H550
C46725-13	07/27/16	10:36	RT	07/30/16	AQ	Ground Water	5W13B4G430

SGS Accutest

Sample Summary
(continued)

United Technology Corporation

Job No: C46725

ENSTNM: UTC RFF Superfund Site - Rialto, CA
Project No: 08888-18881

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
C46725-14	07/27/16	10:50	RT	07/30/16	AQ	Ground Water	5W13B5G280
C46725-15	07/27/16	11:24	RT	07/30/16	AQ	Ground Water	4W8E1G980
C46725-16	07/27/16	11:26	RT	07/30/16	AQ	Ground Water	4W8E1H980
C46725-17	07/27/16	11:45	RT	07/30/16	AQ	Ground Water	4W8E2G760
C46725-18	07/27/16	12:00	RT	07/30/16	AQ	Ground Water	4W8E3G587
C46725-19	07/27/16	12:20	RT	07/30/16	AQ	Ground Water	4W8E4G320

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	United Technology Corporation	**Job No**	C46725
Site:	ENSTNM: UTC RFF Superfund Site - Rialto, CA	**Report Date**	8/16/2016 6:29:47 PM

18 Sample(s), 1 Trip Blank(s) and 0 Field Blank(s) were collected between 07/27/2016 and 07/29/2016 and were received at Accutest on 07/30/2016 properly preserved, at 5.1 Deg. C and intact. These Samples received an Accutest job number of C46725. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ **Batch ID:** VW2343

- Sample(s) C46725-10MS, C46725-10MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Chloroethane, Hexachlorobutadiene, Tetrachloroethylene, Vinyl chloride are outside laboratory control limits. Probable cause due to matrix interference.
- RPD for MSD for Vinyl chloride is outside laboratory control limits for sample C46725-10MSD.

Matrix: AQ **Batch ID:** VW2345

- Sample(s) C46712-10MS, C46712-10MSD were used as the QC samples indicated.
- Sample(s) C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-9 have for Dichlorodifluoromethane a CCV outside of control limits (biased high); not detected in samples.

Matrix: AQ **Batch ID:** VW2346

- Sample(s) C46704-15MS, C46704-15MSD were used as the QC samples indicated.
- Sample(s) C46725-8 have for Dichlorodifluoromethane, Isopropyl Alcohol a CCV outside of control limits (biased high); not detected in sample.
- Matrix Spike Recovery(s) for 1,2-Dichloroethane, Carbon tetrachloride, Tetrachloroethylene are outside laboratory control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Vinyl chloride exceeded laboratory acceptance limit; MS/MSD recoveries met acceptance criteria.

Wet Chemistry By Method EPA 314

Matrix: AQ **Batch ID:** GP9669

- Sample(s) C46725-12MS, C46725-12MSD were used as the QC samples for Perchlorate.

Wet Chemistry By Method SM2510 B-97

Matrix: AQ **Batch ID:** GN19387

- Sample(s) C46725-8DUP were used as the QC samples for Specific Conductivity.

Matrix: AQ **Batch ID:** GN19388

- Sample(s) C46725-19DUP were used as the QC samples for Specific Conductivity.

Accutest Laboratories Northern California (ALNCA) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALNCA and as stated on the COC. ALNCA certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALNCA Quality Manual except as noted above. This report is to be used in its entirety. ALNCA is not responsible for any assumptions of data quality if partial data packages are used

Summary of Hits

Job Number: C46725
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/27/16 thru 07/29/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46725-1	**FB1072716**					
Specific Conductivity		2.9	1.0	1.0	umhos/cm	SM2510 B-97
C46725-2	**5W11F1G940**					
Specific Conductivity		367	1.0	1.0	umhos/cm	SM2510 B-97
C46725-3	**5W11F3G432**					
Specific Conductivity		290	1.0	1.0	umhos/cm	SM2510 B-97
C46725-4	**5W11F4G320**					
Perchlorate		2.4	1.0	0.65	ug/l	EPA 314
Specific Conductivity		313	1.0	1.0	umhos/cm	SM2510 B-97
C46725-5	**FB1072816**					
Isopropyl Alcohol		5.5 J	100	5.0	ug/l	SW846 8260B
Specific Conductivity		3.9	1.0	1.0	umhos/cm	SM2510 B-97
C46725-6	**5W3A5G670**					
Perchlorate		1.3	1.0	0.65	ug/l	EPA 314
Specific Conductivity		272	1.0	1.0	umhos/cm	SM2510 B-97
C46725-7	**5W3A6G510**					
Trichloroethylene		17.6	1.0	0.20	ug/l	SW846 8260B
Perchlorate		248	10	6.5	ug/l	EPA 314
Specific Conductivity		368	1.0	1.0	umhos/cm	SM2510 B-97
C46725-8	**5W3A7G410**					
Perchlorate		3.1	1.0	0.65	ug/l	EPA 314
Specific Conductivity		211	1.0	1.0	umhos/cm	SM2510 B-97
C46725-9	**TB1072916**					
Isopropyl Alcohol		14.5 J	100	5.0	ug/l	SW846 8260B
C46725-10	**5W13B2G685**					
Isopropyl Alcohol		34.3 J	100	5.0	ug/l	SW846 8260B

Summary of Hits

Job Number: C46725
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/27/16 thru 07/29/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Perchlorate		0.89 J	1.0	0.65	ug/l	EPA 314
Specific Conductivity		318	1.0	1.0	umhos/cm	SM2510 B-97
C46725-11	**5W13B3G550**					
Perchlorate		2.0	1.0	0.65	ug/l	EPA 314
Specific Conductivity		315	1.0	1.0	umhos/cm	SM2510 B-97
C46725-12	**5W13B3H550**					
Perchlorate		1.9	1.0	0.65	ug/l	EPA 314
Specific Conductivity		314	1.0	1.0	umhos/cm	SM2510 B-97
C46725-13	**5W13B4G430**					
Perchlorate		4.4	1.0	0.65	ug/l	EPA 314
Specific Conductivity		393	1.0	1.0	umhos/cm	SM2510 B-97
C46725-14	**5W13B5G280**					
Isopropyl Alcohol		29.5 J	100	5.0	ug/l	SW846 8260B
Tetrachloroethylene		2.5	1.0	0.30	ug/l	SW846 8260B
Perchlorate		2.0	1.0	0.65	ug/l	EPA 314
Specific Conductivity		446	1.0	1.0	umhos/cm	SM2510 B-97
C46725-15	**4W8E1G980**					
Perchlorate		1.4	1.0	0.65	ug/l	EPA 314
Specific Conductivity		411	1.0	1.0	umhos/cm	SM2510 B-97
C46725-16	**4W8E1H980**					
Perchlorate		2.8	1.0	0.65	ug/l	EPA 314
Specific Conductivity		409	1.0	1.0	umhos/cm	SM2510 B-97
C46725-17	**4W8E2G760**					
1,2-Dichloroethane		0.58 J	1.0	0.20	ug/l	SW846 8260B
Specific Conductivity		296	1.0	1.0	umhos/cm	SM2510 B-97
C46725-18	**4W8E3G587**					
Specific Conductivity		358	1.0	1.0	umhos/cm	SM2510 B-97

Summary of Hits

Job Number: C46725
Account: United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA
Collected: 07/27/16 thru 07/29/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
C46725-19	**4W8E4G320**					
Isopropyl Alcohol		29.0 J	100	5.0	ug/l	SW846 8260B
Perchlorate		3.3	1.0	0.65	ug/l	EPA 314
Specific Conductivity		386	1.0	1.0	umhos/cm	SM2510 B-97

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	FB1072716		
Lab Sample ID:	C46725-1	**Date Sampled:**	07/27/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61832.D	1	08/04/16	CV	n/a	n/a	VW2343
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB1072716		
Lab Sample ID:	C46725-1	**Date Sampled:**	07/27/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-123%
2037-26-5	Toluene-D8	110%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB1072716		
Lab Sample ID:	C46725-1	**Date Sampled:**	07/27/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/10/16 15:14	PH	EPA 314
Specific Conductivity	2.9	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	5W11F1G940		
Lab Sample ID:	C46725-2	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61875.D	1	08/05/16	CV	n/a	n/a	VW2345
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W11F1G940		
Lab Sample ID:	C46725-2	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	109%		88-112%
460-00-4	4-Bromofluorobenzene	105%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W11F1G940		
Lab Sample ID:	C46725-2	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/10/16 15:32	PH	EPA 314
Specific Conductivity	367	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	5W11F3G432		
Lab Sample ID:	C46725-3	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61876.D	1	08/05/16	CV	n/a	n/a	VW2345
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W11F3G432		
Lab Sample ID:	C46725-3	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		80-123%
2037-26-5	Toluene-D8	108%		88-112%
460-00-4	4-Bromofluorobenzene	106%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W11F3G432		
Lab Sample ID:	C46725-3	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/10/16 15:49	PH	EPA 314
Specific Conductivity	290	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	5W11F4G320		
Lab Sample ID:	C46725-4	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61877.D	1	08/06/16	CV	n/a	n/a	VW2345
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W11F4G320		
Lab Sample ID:	C46725-4	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		80-123%
2037-26-5	Toluene-D8	108%		88-112%
460-00-4	4-Bromofluorobenzene	106%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W11F4G320		
Lab Sample ID:	C46725-4	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	2.4	1.0	0.65	ug/l	1	08/10/16 16:07	PH	EPA 314
Specific Conductivity	313	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	FB1072816		
Lab Sample ID:	C46725-5	**Date Sampled:**	07/28/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61878.D	1	08/06/16	CV	n/a	n/a	VW2345
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	5.5	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB1072816		
Lab Sample ID:	C46725-5	**Date Sampled:**	07/28/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		80-123%
2037-26-5	Toluene-D8	106%		88-112%
460-00-4	4-Bromofluorobenzene	106%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB1072816		
Lab Sample ID:	C46725-5	**Date Sampled:**	07/28/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/10/16 16:25	PH	EPA 314
Specific Conductivity	3.9	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	5W3A5G670		
Lab Sample ID:	C46725-6	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61879.D	1	08/06/16	CV	n/a	n/a	VW2345
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W3A5G670		
Lab Sample ID:	C46725-6	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-123%
2037-26-5	Toluene-D8	111%		88-112%
460-00-4	4-Bromofluorobenzene	108%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W3A5G670		
Lab Sample ID:	C46725-6	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.3	1.0	0.65	ug/l	1	08/10/16 17:18	PH	EPA 314
Specific Conductivity	272	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	5W3A6G510		
Lab Sample ID:	C46725-7	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61880.D	1	08/06/16	CV	n/a	n/a	VW2345
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W3A6G510		
Lab Sample ID:	C46725-7	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	17.6	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-123%
2037-26-5	Toluene-D8	108%		88-112%
460-00-4	4-Bromofluorobenzene	107%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W3A6G510		
Lab Sample ID:	C46725-7	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	248	10	6.5	ug/l	10	08/10/16 17:37	PH	EPA 314
Specific Conductivity	368	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	5W3A7G410		
Lab Sample ID:	C46725-8	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61905.D	1	08/09/16	CV	n/a	n/a	VW2346
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol [a]	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W3A7G410		
Lab Sample ID:	C46725-8	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		80-123%
2037-26-5	Toluene-D8	106%		88-112%
460-00-4	4-Bromofluorobenzene	104%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W3A7G410		
Lab Sample ID:	C46725-8	**Date Sampled:**	07/28/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	3.1	1.0	0.65	ug/l	1	08/10/16 17:55	PH	EPA 314
Specific Conductivity	211	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	TB1072916		
Lab Sample ID:	C46725-9	**Date Sampled:**	07/29/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61870.D	1	08/05/16	CV	n/a	n/a	VW2345
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	14.5	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB1072916		
Lab Sample ID:	C46725-9	**Date Sampled:**	07/29/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	108%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

(a) CCV outside of control limits (biased high); not detected in sample.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W13B2G685		
Lab Sample ID:	C46725-10	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61833.D	1	08/04/16	CV	n/a	n/a	VW2343
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	34.3	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W13B2G685		
Lab Sample ID:	C46725-10	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	108%		88-112%
460-00-4	4-Bromofluorobenzene	98%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W13B2G685		
Lab Sample ID:	C46725-10	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.89 J	1.0	0.65	ug/l	1	08/10/16 18:13	PH	EPA 314
Specific Conductivity	318	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	5W13B3G550		
Lab Sample ID:	C46725-11	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61834.D	1	08/04/16	CV	n/a	n/a	VW2343
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W13B3G550		
Lab Sample ID:	C46725-11	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-123%
2037-26-5	Toluene-D8	109%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W13B3G550		
Lab Sample ID:	C46725-11	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	2.0	1.0	0.65	ug/l	1	08/10/16 18:31	PH	EPA 314
Specific Conductivity	315	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	5W13B3H550		
Lab Sample ID:	C46725-12	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61835.D	1	08/04/16	CV	n/a	n/a	VW2343
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W13B3H550		
Lab Sample ID:	C46725-12	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-123%
2037-26-5	Toluene-D8	111%		88-112%
460-00-4	4-Bromofluorobenzene	102%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W13B3H550		
Lab Sample ID:	C46725-12	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.9	1.0	0.65	ug/l	1	08/10/16 18:49	PH	EPA 314
Specific Conductivity	314	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	5W13B4G430		
Lab Sample ID:	C46725-13	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61836.D	1	08/04/16	CV	n/a	n/a	VW2343
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W13B4G430		
Lab Sample ID:	C46725-13	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-123%
2037-26-5	Toluene-D8	108%		88-112%
460-00-4	4-Bromofluorobenzene	99%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W13B4G430		
Lab Sample ID:	C46725-13	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	4.4	1.0	0.65	ug/l	1	08/10/16 19:07	PH	EPA 314
Specific Conductivity	393	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	5W13B5G280		
Lab Sample ID:	C46725-14	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61837.D	1	08/04/16	CV	n/a	n/a	VW2343
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	29.5	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	2.5	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W13B5G280		
Lab Sample ID:	C46725-14	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-123%
2037-26-5	Toluene-D8	110%		88-112%
460-00-4	4-Bromofluorobenzene	104%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	5W13B5G280		
Lab Sample ID:	C46725-14	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	2.0	1.0	0.65	ug/l	1	08/10/16 19:24	PH	EPA 314
Specific Conductivity	446	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	4W8E1G980		
Lab Sample ID:	C46725-15	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61838.D	1	08/04/16	CV	n/a	n/a	VW2343
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	4W8E1G980		
Lab Sample ID:	C46725-15	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		80-123%
2037-26-5	Toluene-D8	109%		88-112%
460-00-4	4-Bromofluorobenzene	103%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	4W8E1G980		
Lab Sample ID:	C46725-15	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	1.4	1.0	0.65	ug/l	1	08/10/16 19:42	PH	EPA 314
Specific Conductivity	411	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	4W8E1H980		
Lab Sample ID:	C46725-16	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61839.D	1	08/04/16	CV	n/a	n/a	VW2343
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	4W8E1H980		
Lab Sample ID:	C46725-16	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		80-123%
2037-26-5	Toluene-D8	109%		88-112%
460-00-4	4-Bromofluorobenzene	103%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	4W8E1H980		
Lab Sample ID:	C46725-16	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	2.8	1.0	0.65	ug/l	1	08/10/16 20:00	PH	EPA 314
Specific Conductivity	409	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	4W8E2G760		
Lab Sample ID:	C46725-17	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61840.D	1	08/04/16	CV	n/a	n/a	VW2343
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	0.58	1.0	0.20	ug/l	J
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	4W8E2G760		
Lab Sample ID:	C46725-17	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		80-123%
2037-26-5	Toluene-D8	110%		88-112%
460-00-4	4-Bromofluorobenzene	103%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	4W8E2G760		
Lab Sample ID:	C46725-17	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/10/16 21:29	PH	EPA 314
Specific Conductivity	296	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	4W8E3G587		
Lab Sample ID:	C46725-18	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61841.D	1	08/04/16	CV	n/a	n/a	VW2343
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	4W8E3G587		
Lab Sample ID:	C46725-18	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-123%
2037-26-5	Toluene-D8	107%		88-112%
460-00-4	4-Bromofluorobenzene	103%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	4W8E3G587		
Lab Sample ID:	C46725-18	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	0.65 U	1.0	0.65	ug/l	1	08/10/16 21:47	PH	EPA 314
Specific Conductivity	358	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Report of Analysis

Client Sample ID:	4W8E4G320		
Lab Sample ID:	C46725-19	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W61842.D	1	08/04/16	CV	n/a	n/a	VW2343
Run #2							

	Purge Volume
Run #1	10.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	29.0	100	5.0	ug/l	J
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	4W8E4G320		
Lab Sample ID:	C46725-19	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		80-123%
2037-26-5	Toluene-D8	110%		88-112%
460-00-4	4-Bromofluorobenzene	106%		79-114%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	4W8E4G320		
Lab Sample ID:	C46725-19	**Date Sampled:**	07/27/16
Matrix:	AQ - Ground Water	**Date Received:**	07/30/16
		Percent Solids:	n/a
Project:	ENSTNM: UTC RFF Superfund Site - Rialto, CA		

General Chemistry

Analyte	Result	RL	MDL	Units	DF	Analyzed	By	Method
Perchlorate by IC								
Perchlorate	3.3	1.0	0.65	ug/l	1	08/10/16 22:05	PH	EPA 314
Specific Conductivity	386	1.0	1.0	umhos/cm	1	08/01/16	SM	SM2510 B-97

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
J = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

1 of 2

FED-EX Tracking # 7836 9833 3001
Bottle Order Control #
SGS Accutest Quote #
SGS Accutest NC Job #: C46725

Client / Reporting Information

Company Name: Ensafe Inc.
Address: 2151 Salvio St.
City: Concord State: CA Zip: 94520
Project Contact: Shawn Winter
Phone #: 615-252-2853
Samplers's Name: Robert Torres

Project Information

Project Name: UTC-RFF Superfund
Street:
City: Rialto State: CA
Project #: 08888 18881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NaOH	NaHSO4	MEOH	ENCORE	VOC (8260)	Perchlorate (E314)
1	FB1072716	7-27	1212	RT	WQ	4	3				1				X	X
2	SW11FIG940	7-28	0800	RT	GW	4	3				1				X	X
3	SW11F3G432	7-28	0818	RT	GW	4	3				1				X	X
4	SW11F4G320	7-28	0825	RT	GW	4	3				1				X	X
5	FB1072816	7-28	0930	RT	WQ	4	3				1				X	X
6	SW3A5G670	7-28	0905	RT	GW	4	3				1				X	X
7	SW3A6G510	7-28	0914	RT	GW	4	3				1				X	X
8	SW3A7G410	7-28	[illegible]	RT	GW	4	3				1				X	X
		RT	0800 RT													
9	TB1072916	7-29	0805	RT	GW	2	2								X	

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; OI-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

LAB USE ONLY

Turnaround Time (Business days)

Approved By:/ Date:

- [X] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

WQ = Water quality matrix

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Robert Torres	7-29-16 0907	1	7-29-16 0907 2	7-29-16 1100	2 Fedex
3	Fedex	7-30-16 9:30	3			4
5			5			

Custody Seals: Intact
Appropriate Bottle / Pres. Y / N
Labels match Coc? Y / N
Headspace Y / N
Separate Receiving Check List used Y / N
Cooler Temp. 4.1/5.0

IRVINE

A2

5.1 5

C46725: Chain of Custody
Page 1 of 4

SGS ACCUTEST

CHAIN OF CUSTODY

2105 Lundy Ave, San Jose, CA 95131
(408) 588-0200 FAX: (408) 588-0201

2 of 2

FED-EX Tracking #	Bottle Order Control #
SGS Accutest Quote #	SGS Accutest NC Job #: C46725

Client / Reporting Information

Company Name: EnSafe Inc.
Address: 2151 Salvio St.
City: Concord State: CA Zip: 94520
Project Contact: Shaun Winter
Phone #: 615-252-2853
Samplers's Name: Robert Torres

Project Information

Project Name: UTC-RFF Superfund
Street:
City: Rialto State: CA
Project #: 08888188881
EMAIL: swinter@ensafe.com
Client Purchase Order #: 21488

Requested Analysis

Matrix Codes: WW- Wastewater; GW- Ground Water; SW- Surface Water; SO- Soil; Oi-Oil; WP-Wipe; LIQ - Non-aqueous Liquid; AIR; DW- Drinking Water (Perchlorate Only)

SGS Accutest Sample ID	Sample ID / Field Point / Point of Collection	Collection Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	NaHSO4	MEOH	ENCORE	VOC (8260)	Perchlorate (E314)	LAB USE ONLY
10	5W13B2G685	7-27	1005	RT	GW	4	3				1				X	X	
11	5W13B3G550	7-27	1025	RT	GW	4	3				1				X	X	
12	5W13B3H550	7-27	1027	RT	GW	4	3				1				X	X	
13	5W13B4G450	7-27	1036	RT	GW	4	3				1				X	X	
14	5W13B5G280	7-27	1050	RT	GW	4	3				1				X	X	
15	4W8E1G980	7-27	1124	RT	GW	4	3				1				X	X	
16	4W8E1H980	7-27	1126	RT	GW	4	3				1				X	X	
17	4W8E2G760	7-27	1145	RT	GW	4	3				1				X	X	
18	4W8E3G587	7-27	1200	RT	GW	4	3				1				X	X	
19	4W8E4G320	7-27	1220	RT	GW	4	3				1				X	X	

Turnaround Time (Business days)

Approved By:/ Date:

- [X] 10 Day
- [ ] 5 Day
- [ ] 3 Day
- [ ] 2 Day
- [ ] 1 Day
- [ ] Same Day

Emergency T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" - Results only
- [X] Commercial "B" - Results with QC summaries
- [ ] Commerical "B+" - Results, QC, and chromatograms
- [ ] FULT1 - Level 4 data package
- [ ] EDF for Geotracker [ ] EDD Format
- Provide EDF Global ID
- Provide EDF Logcode:

Comments / Remarks

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Robert Torres	7-29-16 0907	1 7-29 0907	2	7-29-16 1100	2 Fedex
Relinquished by: 3 Fedex	Date Time: 7/30/16 0932	Received By: 3 Ali Zeighami	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Appropriate Bottle / Pres. Y / N; Labels match Coc? Y / N	Headspace Y / N; Separate Receiving Check List used: Y / N; On Ice Y / N; Cooler Temp. ____oC

AZ TN

IRVINE

5.1 5

C46725: Chain of Custody
Page 2 of 4

SGS Accutest Sample Receipt Summary

Job Number: C46725 **Client:** ENSAFE INC **Project:** UTC-RFF SUPERFUND

Date / Time Received: 7/30/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 783698333001

Cooler Temps (Initial/Adjusted): #1: (4.1/5.1);

Cooler Security	Y	N		Y	N
1. Custody Seals Present:	☑	☐	3. COC Present:	☑	☐
2. Custody Seals Intact:	☑	☐	4. Smpl Dates/Time OK	☑	☐

Cooler Temperature	Y	N
1. Temp criteria achieved:	☑	☐
2. Cooler temp verification:	IR GUN	
3. Cooler media:	Ice (Bag)	
4. No, Coolers	1	

Quality Control Preservation	Y	N	N/A
1. Trip Blank present / cooler:	☑	☐	☐
2. Trip Blank listed on COC:	☑	☐	☐
3. Samples preserved properly:	☑	☐	
4. VOCs headspace free:	☑	☐	☐

Sample Integrity - Documentation	Y	N
1. Sample labels present on bottles:	☑	☐
2. Container labeling complete:	☑	☐
3. Sample container label / COC agree:	☐	☑

Sample Integrity - Condition	Y	N
1. Sample recvd within HT:	☑	☐
2. All containers accounted for:	☑	☐
3. Condition of sample:	Intact	

Sample Integrity - Instructions	Y	N	N/A
1. Analysis requested is clear:	☑	☐	
2. Bottles received for unspecified tests	☐	☑	
3. Sufficient volume recvd for analysis:	☑	☐	
4. Compositing instructions clear:	☐	☐	☑
5. Filtering instructions clear:	☐	☐	☑

Comments Sample #13 Sample ID does not match up with COC. On COC: 5W13B4G450 On Bottle: 5W13B4G430

5.1

5

C46725: Chain of Custody

Page 3 of 4

Sample Receipt Summary - Problem Resolution

Accutest Job Number: C46725

CSR: Elvin Kumar **Response Date:** 8/1/2016

Response: Per client:
The sample ID for sample #13 should be 5W13B4G430 as was written on the bottles
The sample ID for sample #15 should be 4W8E1G980, not 4W8EIG980

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2343-MB	W61831.D	1	08/04/16	CV	n/a	n/a	VW2343

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-1, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18, C46725-19

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2343-MB	W61831.D	1	08/04/16	CV	n/a	n/a	VW2343

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-1, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18, C46725-19

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	94%	80-123%
2037-26-5	Toluene-D8	109%	88-112%
460-00-4	4-Bromofluorobenzene	99%	79-114%

Method Blank Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2345-MB	W61869.D	1	08/05/16	CV	n/a	n/a	VW2345

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-9

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2345-MB	W61869.D	1	08/05/16	CV	n/a	n/a	VW2345

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	80-123%
2037-26-5	Toluene-D8	110%	88-112%
460-00-4	4-Bromofluorobenzene	98%	79-114%

Method Blank Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2346-MB	W61902.D	1	08/09/16	CV	n/a	n/a	VW2346

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	1.0	0.20	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.20	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.20	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.20	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	0.20	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.20	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.20	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.20	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	1.0	0.20	ug/l	
95-50-1	o-Dichlorobenzene	ND	1.0	0.20	ug/l	
106-46-7	p-Dichlorobenzene	ND	1.0	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.20	ug/l	
76-13-1	Freon 113	ND	2.0	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.20	ug/l	
67-63-0	Isopropyl Alcohol	ND	100	5.0	ug/l	
74-83-9	Methyl bromide	ND	2.0	0.20	ug/l	
74-87-3	Methyl chloride	ND	1.0	0.30	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
100-42-5	Styrene	ND	1.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.22	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.20	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	2.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	2.0	0.20	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.20	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.20	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.20	ug/l	

Method Blank Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2346-MB	W61902.D	1	08/09/16	CV	n/a	n/a	VW2346

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	1.0	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	98%	80-123%
2037-26-5	Toluene-D8	108%	88-112%
460-00-4	4-Bromofluorobenzene	99%	79-114%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2343-BS	W61828.D	1	08/04/16	CV	n/a	n/a	VW2343
VW2343-BSD	W61829.D	1	08/04/16	CV	n/a	n/a	VW2343

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-1, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18, C46725-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	19.4	97	19.6	98	1	76-120/10
108-90-7	Chlorobenzene	20	20.9	105	20.6	103	1	79-119/10
75-00-3	Chloroethane	20	21.7	109	20.4	102	6	60-115/14
67-66-3	Chloroform	20	18.9	95	18.7	94	1	75-122/10
56-23-5	Carbon tetrachloride	20	21.5	108	20.7	104	4	72-128/13
75-34-3	1,1-Dichloroethane	20	18.6	93	18.4	92	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	18.3	92	17.8	89	3	62-125/13
106-93-4	1,2-Dibromoethane	20	21.5	108	21.5	108	0	81-124/10
107-06-2	1,2-Dichloroethane	20	20.5	103	20.7	104	1	74-122/10
78-87-5	1,2-Dichloropropane	20	20.1	101	20.2	101	0	75-123/10
75-71-8	Dichlorodifluoromethane	20	20.9	105	18.7	94	11	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	19.2	96	18.9	95	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	20.9	105	21.1	106	1	76-131/10
541-73-1	m-Dichlorobenzene	20	22.3	112	22.2	111	0	79-121/10
95-50-1	o-Dichlorobenzene	20	22.3	112	22.1	111	1	79-120/10
106-46-7	p-Dichlorobenzene	20	22.3	112	22.0	110	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	22.2	111	21.9	110	1	73-125/10
100-41-4	Ethylbenzene	20	21.8	109	21.7	109	0	78-123/10
76-13-1	Freon 113	20	16.3	82	16.2	81	1	59-129/18
87-68-3	Hexachlorobutadiene	20	23.9	120	23.4	117	2	70-130/12
67-63-0	Isopropyl Alcohol	400	396	99	394	99	1	49-148/17
74-83-9	Methyl bromide	20	19.9	100	18.8	94	6	65-124/13
74-87-3	Methyl chloride	20	19.7	99	18.3	92	7	47-143/20
75-09-2	Methylene chloride	20	17.4	87	17.2	86	1	65-124/15
100-42-5	Styrene	20	21.4	107	21.4	107	0	73-126/10
71-55-6	1,1,1-Trichloroethane	20	20.3	102	19.5	98	4	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	23.3	117	23.6	118	1	78-127/10
79-00-5	1,1,2-Trichloroethane	20	21.3	107	21.6	108	1	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	22.4	112	22.6	113	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	22.7	114	22.5	113	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	23.3	117	22.9	115	2	79-130/10
127-18-4	Tetrachloroethylene	20	22.3	112	21.8	109	2	72-124/13
108-88-3	Toluene	20	21.4	107	20.8	104	3	78-121/10
79-01-6	Trichloroethylene	20	20.2	101	19.8	99	2	75-119/10
75-69-4	Trichlorofluoromethane	20	20.8	104	19.1	96	9	68-130/19
75-01-4	Vinyl chloride	20	20.9	105	18.4	92	13	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2343-BS	W61828.D	1	08/04/16	CV	n/a	n/a	VW2343
VW2343-BSD	W61829.D	1	08/04/16	CV	n/a	n/a	VW2343

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-1, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18, C46725-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	42.9	107	42.3	106	1	78-123/10
95-47-6	o-Xylene	20	21.0	105	21.0	105	0	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	96%	96%	80-123%
2037-26-5	Toluene-D8	107%	109%	88-112%
460-00-4	4-Bromofluorobenzene	99%	98%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2345-BS	W61864.D	1	08/05/16	CV	n/a	n/a	VW2345
VW2345-BSD	W61865.D	1	08/05/16	CV	n/a	n/a	VW2345

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	19.1	96	19.0	95	1	76-120/10
108-90-7	Chlorobenzene	20	20.5	103	20.6	103	0	79-119/10
75-00-3	Chloroethane	20	19.9	100	20.1	101	1	60-115/14
67-66-3	Chloroform	20	19.4	97	19.1	96	2	75-122/10
56-23-5	Carbon tetrachloride	20	22.4	112	21.9	110	2	72-128/13
75-34-3	1,1-Dichloroethane	20	18.5	93	18.6	93	1	70-121/10
75-35-4	1,1-Dichloroethylene	20	18.0	90	17.6	88	2	62-125/13
106-93-4	1,2-Dibromoethane	20	21.4	107	21.8	109	2	81-124/10
107-06-2	1,2-Dichloroethane	20	22.5	113	21.7	109	4	74-122/10
78-87-5	1,2-Dichloropropane	20	20.0	100	19.9	100	1	75-123/10
75-71-8	Dichlorodifluoromethane	20	20.1	101	20.1	101	0	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	18.6	93	18.5	93	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.1	106	20.8	104	1	76-131/10
541-73-1	m-Dichlorobenzene	20	21.5	108	21.0	105	2	79-121/10
95-50-1	o-Dichlorobenzene	20	21.8	109	21.5	108	1	79-120/10
106-46-7	p-Dichlorobenzene	20	21.4	107	21.2	106	1	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	22.5	113	22.3	112	1	73-125/10
100-41-4	Ethylbenzene	20	21.7	109	21.9	110	1	78-123/10
76-13-1	Freon 113	20	16.4	82	15.8	79	4	59-129/18
87-68-3	Hexachlorobutadiene	20	21.7	109	21.4	107	1	70-130/12
67-63-0	Isopropyl Alcohol	400	432	108	418	105	3	49-148/17
74-83-9	Methyl bromide	20	18.4	92	18.7	94	2	65-124/13
74-87-3	Methyl chloride	20	18.8	94	19.2	96	2	47-143/20
75-09-2	Methylene chloride	20	17.3	87	17.7	89	2	65-124/15
100-42-5	Styrene	20	21.1	106	21.1	106	0	73-126/10
71-55-6	1,1,1-Trichloroethane	20	20.7	104	20.4	102	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	23.4	117	23.1	116	1	78-127/10
79-00-5	1,1,2-Trichloroethane	20	21.8	109	22.4	112	3	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	20.7	104	20.3	102	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	22.2	111	21.7	109	2	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	22.3	112	21.8	109	2	79-130/10
127-18-4	Tetrachloroethylene	20	21.8	109	21.7	109	0	72-124/13
108-88-3	Toluene	20	20.9	105	21.1	106	1	78-121/10
79-01-6	Trichloroethylene	20	20.1	101	20.1	101	0	75-119/10
75-69-4	Trichlorofluoromethane	20	19.7	99	20.3	102	3	68-130/19
75-01-4	Vinyl chloride	20	17.5	88	17.9	90	2	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2345-BS	W61864.D	1	08/05/16	CV	n/a	n/a	VW2345
VW2345-BSD	W61865.D	1	08/05/16	CV	n/a	n/a	VW2345

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	41.3	103	41.8	105	1	78-123/10
95-47-6	o-Xylene	20	20.7	104	20.7	104	0	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	98%	99%	80-123%
2037-26-5	Toluene-D8	108%	110%	88-112%
460-00-4	4-Bromofluorobenzene	101%	103%	79-114%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2346-BS	W61897.D	1	08/09/16	CV	n/a	n/a	VW2346
VW2346-BSD	W61898.D	1	08/09/16	CV	n/a	n/a	VW2346

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	20	19.8	99	18.9	95	5	76-120/10
108-90-7	Chlorobenzene	20	20.1	101	19.6	98	3	79-119/10
75-00-3	Chloroethane	20	20.5	103	19.9	100	3	60-115/14
67-66-3	Chloroform	20	20.0	100	19.2	96	4	75-122/10
56-23-5	Carbon tetrachloride	20	22.5	113	20.1	101	11	72-128/13
75-34-3	1,1-Dichloroethane	20	19.3	97	18.6	93	4	70-121/10
75-35-4	1,1-Dichloroethylene	20	18.2	91	17.0	85	7	62-125/13
106-93-4	1,2-Dibromoethane	20	21.3	107	21.4	107	0	81-124/10
107-06-2	1,2-Dichloroethane	20	22.6	113	22.1	111	2	74-122/10
78-87-5	1,2-Dichloropropane	20	20.3	102	19.9	100	2	75-123/10
75-71-8	Dichlorodifluoromethane	20	17.5	88	15.7	79	11	26-163/26
156-59-2	cis-1,2-Dichloroethylene	20	19.4	97	19.2	96	1	75-128/10
10061-01-5	cis-1,3-Dichloropropene	20	21.6	108	21.1	106	2	76-131/10
541-73-1	m-Dichlorobenzene	20	21.0	105	20.2	101	4	79-121/10
95-50-1	o-Dichlorobenzene	20	20.9	105	20.3	102	3	79-120/10
106-46-7	p-Dichlorobenzene	20	20.9	105	20.1	101	4	79-120/10
10061-02-6	trans-1,3-Dichloropropene	20	22.2	111	21.7	109	2	73-125/10
100-41-4	Ethylbenzene	20	21.4	107	20.2	101	6	78-123/10
76-13-1	Freon 113	20	16.5	83	14.3	72	14	59-129/18
87-68-3	Hexachlorobutadiene	20	21.4	107	18.9	95	12	70-130/12
67-63-0	Isopropyl Alcohol	400	424	106	407	102	4	49-148/17
74-83-9	Methyl bromide	20	18.5	93	18.0	90	3	65-124/13
74-87-3	Methyl chloride	20	17.8	89	16.4	82	8	47-143/20
75-09-2	Methylene chloride	20	17.8	89	17.2	86	3	65-124/15
100-42-5	Styrene	20	20.9	105	20.3	102	3	73-126/10
71-55-6	1,1,1-Trichloroethane	20	21.4	107	19.4	97	10	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	20	22.7	114	22.5	113	1	78-127/10
79-00-5	1,1,2-Trichloroethane	20	21.6	108	21.5	108	0	79-122/10
120-82-1	1,2,4-Trichlorobenzene	20	19.1	96	18.7	94	2	72-125/11
95-63-6	1,2,4-Trimethylbenzene	20	21.3	107	20.1	101	6	76-124/10
108-67-8	1,3,5-Trimethylbenzene	20	21.4	107	19.9	100	7	79-130/10
127-18-4	Tetrachloroethylene	20	21.5	108	19.6	98	9	72-124/13
108-88-3	Toluene	20	20.6	103	19.9	100	3	78-121/10
79-01-6	Trichloroethylene	20	20.7	104	19.6	98	5	75-119/10
75-69-4	Trichlorofluoromethane	20	21.1	106	19.8	99	6	68-130/19
75-01-4	Vinyl chloride	20	17.4	87	17.1	86	2	57-137/18

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW2346-BS	W61897.D	1	08/09/16	CV	n/a	n/a	VW2346
VW2346-BSD	W61898.D	1	08/09/16	CV	n/a	n/a	VW2346

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	m,p-Xylene	40	40.8	102	38.6	97	6	78-123/10
95-47-6	o-Xylene	20	20.4	102	19.3	97	6	76-122/10

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	97%	99%	80-123%
2037-26-5	Toluene-D8	105%	104%	88-112%
460-00-4	4-Bromofluorobenzene	101%	103%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46725-10MS	W61866.D	1	08/05/16	CV	n/a	n/a	VW2343
C46725-10MSD	W61867.D	1	08/05/16	CV	n/a	n/a	VW2343
C46725-10	W61833.D	1	08/04/16	CV	n/a	n/a	VW2343

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-1, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18, C46725-19

CAS No.	Compound	C46725-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	21.8	109	20	21.5	108	1	76-120/10
108-90-7	Chlorobenzene	ND		20	21.9	110	20	22.0	110	0	79-119/10
75-00-3	Chloroethane	ND		20	23.7	119* [a]	20	24.3	122* [a]	3	60-115/14
67-66-3	Chloroform	ND		20	21.2	106	20	21.5	108	1	75-122/10
56-23-5	Carbon tetrachloride	ND		20	25.6	128	20	25.4	127	1	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	20.8	104	20	21.2	106	2	70-121/10
75-35-4	1,1-Dichloroethylene	ND		20	21.2	106	20	21.5	108	1	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	22.8	114	20	22.9	115	0	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	23.5	118	20	23.1	116	2	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	21.8	109	20	21.7	109	0	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	25.2	126	20	24.9	125	1	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	20.7	104	20	21.7	109	5	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	22.8	114	20	22.4	112	2	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	22.8	114	20	22.6	113	1	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	22.3	112	20	22.2	111	0	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	22.7	114	20	22.3	112	2	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	23.3	117	20	23.3	117	0	73-125/10
100-41-4	Ethylbenzene	ND		20	24.0	120	20	23.9	120	0	78-123/10
76-13-1	Freon 113	ND		20	19.4	97	20	20.0	100	3	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	34.9	175* [a]	20	35.0	175* [a]	0	70-130/12
67-63-0	Isopropyl Alcohol	34.3	J	400	487	113	400	471	109	3	49-148/17
74-83-9	Methyl bromide	ND		20	21.1	106	20	21.7	109	3	65-124/13
74-87-3	Methyl chloride	ND		20	21.4	107	20	21.1	106	1	47-143/20
75-09-2	Methylene chloride	ND		20	18.6	93	20	19.2	96	3	65-124/15
100-42-5	Styrene	ND		20	22.6	113	20	22.6	113	0	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	23.6	118	20	24.0	120	2	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	24.2	121	20	25.2	126	4	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	22.7	114	20	23.0	115	1	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	20.9	105	20	20.7	104	1	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	23.7	119	20	23.4	117	1	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	24.1	121	20	24.0	120	0	79-130/10
127-18-4	Tetrachloroethylene	ND		20	24.8	124	20	24.9	125* [a]	0	72-124/13
108-88-3	Toluene	ND		20	23.2	116	20	23.2	116	0	78-121/10
79-01-6	Trichloroethylene	ND		20	23.1	116	20	23.0	115	0	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	24.8	124	20	25.1	126	1	68-130/19
75-01-4	Vinyl chloride	ND		20	21.7	109	20	28.4	142* [a]	27* [a]	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46725-10MS	W61866.D	1	08/05/16	CV	n/a	n/a	VW2343
C46725-10MSD	W61867.D	1	08/05/16	CV	n/a	n/a	VW2343
C46725-10	W61833.D	1	08/04/16	CV	n/a	n/a	VW2343

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-1, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18, C46725-19

CAS No.	Compound	C46725-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	46.1	115	40	45.6	114	1	78-123/10
95-47-6	o-Xylene	ND		20	22.4	112	20	22.2	111	1	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46725-10	Limits
1868-53-7	Dibromofluoromethane	96%	100%	97%	80-123%
2037-26-5	Toluene-D8	106%	108%	108%	88-112%
460-00-4	4-Bromofluorobenzene	101%	100%	98%	79-114%

(a) Outside laboratory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46712-10MS	W61899.D	100	08/09/16	CV	n/a	n/a	VW2345
C46712-10MSD	W61900.D	100	08/09/16	CV	n/a	n/a	VW2345
C46712-10	W61872.D	100	08/05/16	CV	n/a	n/a	VW2345

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-9

CAS No.	Compound	C46712-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	31.7	J	2000	2040	100	2000	1990	98	2	76-120/10
108-90-7	Chlorobenzene	ND		2000	2030	102	2000	2020	101	0	79-119/10
75-00-3	Chloroethane	327		2000	2370	102	2000	2400	104	1	60-115/14
67-66-3	Chloroform	ND		2000	2000	100	2000	1980	99	1	75-122/10
56-23-5	Carbon tetrachloride	ND		2000	2170	109	2000	2150	108	1	72-128/13
75-34-3	1,1-Dichloroethane	125		2000	2060	97	2000	2050	96	0	70-121/10
75-35-4	1,1-Dichloroethylene	ND		2000	1820	91	2000	1830	92	1	62-125/13
106-93-4	1,2-Dibromoethane	ND		2000	2170	109	2000	2110	106	3	81-124/10
107-06-2	1,2-Dichloroethane	ND		2000	2290	115	2000	2160	108	6	74-122/10
78-87-5	1,2-Dichloropropane	ND		2000	2050	103	2000	2020	101	1	75-123/10
75-71-8	Dichlorodifluoromethane	ND		2000	1650	83	2000	1610	81	2	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		2000	2020	101	2000	2020	101	0	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		2000	2210	111	2000	2130	107	4	76-131/10
541-73-1	m-Dichlorobenzene	ND		2000	2120	106	2000	2100	105	1	79-121/10
95-50-1	o-Dichlorobenzene	ND		2000	2130	107	2000	2100	105	1	79-120/10
106-46-7	p-Dichlorobenzene	ND		2000	2090	105	2000	2100	105	0	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		2000	2200	110	2000	2180	109	1	73-125/10
100-41-4	Ethylbenzene	674		2000	2760	104	2000	2810	107	2	78-123/10
76-13-1	Freon 113	ND		2000	1550	78	2000	1610	81	4	59-129/18
87-68-3	Hexachlorobutadiene	ND		2000	2090	105	2000	2070	104	1	70-130/12
67-63-0	Isopropyl Alcohol	ND		40000	42700	107	40000	37700	94	12	49-148/17
74-83-9	Methyl bromide	ND		2000	1910	96	2000	1890	95	1	65-124/13
74-87-3	Methyl chloride	ND		2000	1770	89	2000	1800	90	2	47-143/20
75-09-2	Methylene chloride	ND		2000	1800	90	2000	1800	90	0	65-124/15
100-42-5	Styrene	ND		2000	2120	106	2000	2130	107	0	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		2000	2090	105	2000	2110	106	1	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		2000	2350	118	2000	2250	113	4	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		2000	2150	108	2000	2100	105	2	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		2000	1950	98	2000	1880	94	4	72-125/11
95-63-6	1,2,4-Trimethylbenzene	57.2	J	2000	2190	107	2000	2190	107	0	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		2000	2170	109	2000	2200	110	1	79-130/10
127-18-4	Tetrachloroethylene	ND		2000	2070	104	2000	2090	105	1	72-124/13
108-88-3	Toluene	3150		2000	5190	102	2000	5320	109	2	78-121/10
79-01-6	Trichloroethylene	ND		2000	2070	104	2000	2040	102	1	75-119/10
75-69-4	Trichlorofluoromethane	ND		2000	2010	101	2000	2010	101	0	68-130/19
75-01-4	Vinyl chloride	ND		2000	1750	88	2000	1730	87	1	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46712-10MS	W61899.D	100	08/09/16	CV	n/a	n/a	VW2345
C46712-10MSD	W61900.D	100	08/09/16	CV	n/a	n/a	VW2345
C46712-10	W61872.D	100	08/05/16	CV	n/a	n/a	VW2345

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-9

CAS No.	Compound	C46712-10 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	2880		4000	7020	104	4000	7160	107	2	78-123/10
95-47-6	o-Xylene	756		2000	2780	101	2000	2840	104	2	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46712-10	Limits
1868-53-7	Dibromofluoromethane	100%	97%	99%	80-123%
2037-26-5	Toluene-D8	106%	105%	106%	88-112%
460-00-4	4-Bromofluorobenzene	101%	102%	105%	79-114%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46704-15MS	W61930.D	1	08/10/16	CV	n/a	n/a	VW2346
C46704-15MSD	W61931.D	1	08/10/16	CV	n/a	n/a	VW2346
C46704-15	W61906.D	1	08/09/16	CV	n/a	n/a	VW2346

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-8

CAS No.	Compound	C46704-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	21.5	108	20	21.3	107	1	76-120/10
108-90-7	Chlorobenzene	ND		20	21.7	109	20	21.6	108	0	79-119/10
75-00-3	Chloroethane	ND		20	22.5	113	20	21.9	110	3	60-115/14
67-66-3	Chloroform	ND		20	22.3	112	20	21.7	109	3	75-122/10
56-23-5	Carbon tetrachloride	ND		20	26.8	134* [a]	20	25.6	128	5	72-128/13
75-34-3	1,1-Dichloroethane	ND		20	21.3	107	20	20.6	103	3	70-121/10
75-35-4	1,1-Dichloroethylene	2.5		20	24.1	108	20	23.9	107	1	62-125/13
106-93-4	1,2-Dibromoethane	ND		20	22.8	114	20	21.9	110	4	81-124/10
107-06-2	1,2-Dichloroethane	ND		20	24.7	124* [a]	20	23.8	119	4	74-122/10
78-87-5	1,2-Dichloropropane	ND		20	21.4	107	20	21.5	108	0	75-123/10
75-71-8	Dichlorodifluoromethane	ND		20	21.6	108	20	20.3	102	6	26-163/26
156-59-2	cis-1,2-Dichloroethylene	ND		20	21.8	109	20	21.3	107	2	75-128/10
10061-01-5	cis-1,3-Dichloropropene	ND		20	22.9	115	20	22.4	112	2	76-131/10
541-73-1	m-Dichlorobenzene	ND		20	22.4	112	20	21.4	107	5	79-121/10
95-50-1	o-Dichlorobenzene	ND		20	22.3	112	20	21.5	108	4	79-120/10
106-46-7	p-Dichlorobenzene	ND		20	22.4	112	20	21.4	107	5	79-120/10
10061-02-6	trans-1,3-Dichloropropene	ND		20	23.5	118	20	22.9	115	3	73-125/10
100-41-4	Ethylbenzene	ND		20	23.6	118	20	23.3	117	1	78-123/10
76-13-1	Freon 113	ND		20	20.5	103	20	19.2	96	7	59-129/18
87-68-3	Hexachlorobutadiene	ND		20	23.3	117	20	22.8	114	2	70-130/12
67-63-0	Isopropyl Alcohol	23.9		400	494	118	400	439	104	12	49-148/17
74-83-9	Methyl bromide	ND		20	21.1	106	20	20.6	103	2	65-124/13
74-87-3	Methyl chloride	ND		20	20.1	101	20	21.1	106	5	47-143/20
75-09-2	Methylene chloride	ND		20	19.4	97	20	18.8	94	3	65-124/15
100-42-5	Styrene	ND		20	22.5	113	20	21.9	110	3	73-126/10
71-55-6	1,1,1-Trichloroethane	ND		20	24.8	124	20	24.1	121	3	73-125/11
79-34-5	1,1,2,2-Tetrachloroethane	ND		20	23.8	119	20	22.6	113	5	78-127/10
79-00-5	1,1,2-Trichloroethane	ND		20	22.8	114	20	22.3	112	2	79-122/10
120-82-1	1,2,4-Trichlorobenzene	ND		20	20.9	105	20	19.7	99	6	72-125/11
95-63-6	1,2,4-Trimethylbenzene	ND		20	22.7	114	20	21.9	110	4	76-124/10
108-67-8	1,3,5-Trimethylbenzene	ND		20	23.0	115	20	22.3	112	3	79-130/10
127-18-4	Tetrachloroethylene	ND		20	25.2	126* [a]	20	24.3	122	4	72-124/13
108-88-3	Toluene	ND		20	22.6	113	20	22.3	112	1	78-121/10
79-01-6	Trichloroethylene	17.2		20	40.1	115	20	39.2	110	2	75-119/10
75-69-4	Trichlorofluoromethane	ND		20	25.5	128	20	24.2	121	5	68-130/19
75-01-4	Vinyl chloride	ND		20	25.5	128	20	20.4	102	22* [b]	57-137/18

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C46725
Account: UTCCASJ United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C46704-15MS	W61930.D	1	08/10/16	CV	n/a	n/a	VW2346
C46704-15MSD	W61931.D	1	08/10/16	CV	n/a	n/a	VW2346
C46704-15	W61906.D	1	08/09/16	CV	n/a	n/a	VW2346

The QC reported here applies to the following samples: **Method:** SW846 8260B

C46725-8

CAS No.	Compound	C46704-15 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	m,p-Xylene	ND		40	45.3	113	40	44.5	111	2	78-123/10
95-47-6	o-Xylene	ND		20	22.0	110	20	21.6	108	2	76-122/10

CAS No.	Surrogate Recoveries	MS	MSD	C46704-15	Limits
1868-53-7	Dibromofluoromethane	101%	99%	103%	80-123%
2037-26-5	Toluene-D8	103%	104%	107%	88-112%
460-00-4	4-Bromofluorobenzene	101%	102%	107%	79-114%

(a) Outside laboratory control limits. AZ:M1
(b) RPD exceeded laboratory acceptance limit; MS/MSD recoveries met acceptance criteria. AZ:R5

* = Outside of Control Limits.

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46725
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Perchlorate	GP9669/GN19453	3.0	0.0	ug/l	25	25.3	101.2	85-115%
Specific Conductivity	GN19387	1.0	0.0	umhos/cm				
Specific Conductivity	GN19388	1.0	0.0	umhos/cm				

Associated Samples:
Batch GP9669: C46725-1, C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-8, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18, C46725-19
Batch GN19387: C46725-1, C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-8, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18
Batch GN19388: C46725-19
(*) Outside of QC limits

BLANK SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46725
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	Units	Spike Amount	BSD Result	RPD	QC Limit
Perchlorate	GP9669/GN19453	ug/l	25	23.4	7.8	10%

Associated Samples:
Batch GP9669: C46725-1, C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-8, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18, C46725-19
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46725
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GN19387	C46725-8	umhos/cm	211	210	0.4	0-10%
Specific Conductivity	GN19388	C46725-19	umhos/cm	386	383	0.8	0-10%

Associated Samples:
Batch GN19387: C46725-1, C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-8, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18
Batch GN19388: C46725-19
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46725
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Perchlorate	GP9669/GN19453	C46725-12	ug/l	1.9	25	26.4	98.0	80-120%

Associated Samples:
Batch GP9669: C46725-1, C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-8, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18, C46725-19
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: C46725
Account: UTCCASJ - United Technology Corporation
Project: ENSTNM: UTC RFF Superfund Site - Rialto, CA

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Perchlorate	GP9669/GN19453	C46725-12	ug/l	1.9	25	29.0	9.4	15%

Associated Samples:
Batch GP9669: C46725-1, C46725-2, C46725-3, C46725-4, C46725-5, C46725-6, C46725-7, C46725-8, C46725-10, C46725-11, C46725-12, C46725-13, C46725-14, C46725-15, C46725-16, C46725-17, C46725-18, C46725-19
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

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WORK ORDER NUMBER: 16-10-0377

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Analytical Report For

Client: EnSafe, Inc.

Client Project Name: UTC RFF 2016 GW Monitor

Attention: David Dunbar
5724 Summer Trees Lane
Memphis, TN 38134-7309

Approved for release on 10/13/2016 by:
Virendra Patel
Project Manager

ResultLink

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Work Order Number: 16-10-0377

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Work Order Narrative

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 10/06/16. They were assigned to Work Order 16-10-0377.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	EnSafe, Inc. 5724 Summer Trees Lane Memphis, TN 38134-7309	Work Order:	16-10-0377
		Project Name:	UTC RFF 2016 GW Monitor
		PO Number:	22013
		Date/Time Received:	10/06/16 13:26
		Number of Containers:	30
Attn:	David Dunbar		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
MP1G797	16-10-0377-1	10/05/16 09:30	4	Aqueous
MP1G732	16-10-0377-2	10/05/16 10:00	4	Aqueous
MP1G562	16-10-0377-3	10/05/16 10:25	4	Aqueous
MP1G462	16-10-0377-4	10/05/16 10:40	4	Aqueous
MP1H462	16-10-0377-5	10/05/16 10:45	4	Aqueous
MP1G366	16-10-0377-6	10/05/16 11:05	4	Aqueous
EB1100516	16-10-0377-7	10/05/16 11:20	4	Aqueous
TB2100616	16-10-0377-8	10/05/16 12:05	2	Aqueous

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Detections Summary

Client:	EnSafe, Inc. 5724 Summer Trees Lane Memphis, TN 38134-7309	Work Order: Project Name: Received:	16-10-0377 UTC RFF 2016 GW Monitor 10/06/16
Attn:	David Dunbar		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MP1G797 (16-10-0377-1)						
Perchlorate	59		2.0	ug/L	EPA 314.0	N/A
Isopropanol	110	J	74*	ug/L	EPA 8260B	EPA 5030C
MP1G732 (16-10-0377-2)						
Perchlorate	9.4		2.0	ug/L	EPA 314.0	N/A
MP1G562 (16-10-0377-3)						
Perchlorate	13		2.0	ug/L	EPA 314.0	N/A
MP1G462 (16-10-0377-4)						
Perchlorate	8.6		2.0	ug/L	EPA 314.0	N/A
MP1H462 (16-10-0377-5)						
Perchlorate	8.3		2.0	ug/L	EPA 314.0	N/A
MP1G366 (16-10-0377-6)						
Perchlorate	8.3		2.0	ug/L	EPA 314.0	N/A
Isopropanol	44	J	37*	ug/L	EPA 8260B	EPA 5030C

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 314.0
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MP1G797	**16-10-0377-1-D**	**10/05/16 09:30**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:01**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	59	2.0	0.71	1.00	

MP1G732	**16-10-0377-2-D**	**10/05/16 10:00**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:15**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	9.4	2.0	0.71	1.00	

MP1G562	**16-10-0377-3-D**	**10/05/16 10:25**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:29**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	13	2.0	0.71	1.00	

MP1G462	**16-10-0377-4-D**	**10/05/16 10:40**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:44**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	8.6	2.0	0.71	1.00	

MP1H462	**16-10-0377-5-D**	**10/05/16 10:45**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:58**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	8.3	2.0	0.71	1.00	

MP1G366	**16-10-0377-6-D**	**10/05/16 11:05**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 21:13**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	8.3	2.0	0.71	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 314.0
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB1100516	**16-10-0377-7-D**	**10/05/16 11:20**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 21:27**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	ND	2.0	0.71	1.00	

Method Blank	**099-16-242-518**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 12:07**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	ND	2.0	0.71	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 1 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MP1G797	**16-10-0377-1-A**	**10/05/16 09:30**	**Aqueous**	**GC/MS JJ**	**10/07/16**	**10/07/16 15:43**	**161007L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	1.0	0.28	2.00	
Bromomethane	ND	20	7.8	2.00	
Carbon Tetrachloride	ND	1.0	0.45	2.00	
Chlorobenzene	ND	2.0	0.34	2.00	
Chloroethane	ND	10	4.6	2.00	
Chloroform	ND	2.0	0.92	2.00	
Chloromethane	ND	20	3.5	2.00	
1,2-Dibromoethane	ND	2.0	0.72	2.00	
1,2-Dichlorobenzene	ND	2.0	0.91	2.00	
1,3-Dichlorobenzene	ND	2.0	0.80	2.00	
1,4-Dichlorobenzene	ND	2.0	0.86	2.00	
Dichlorodifluoromethane	ND	2.0	0.91	2.00	
1,1-Dichloroethane	ND	2.0	0.56	2.00	
1,2-Dichloroethane	ND	1.0	0.48	2.00	
1,1-Dichloroethene	ND	2.0	0.86	2.00	
c-1,2-Dichloroethene	ND	2.0	0.95	2.00	
1,2-Dichloropropane	ND	2.0	0.85	2.00	
c-1,3-Dichloropropene	ND	1.0	0.49	2.00	
t-1,3-Dichloropropene	ND	1.0	0.51	2.00	
Ethylbenzene	ND	2.0	0.28	2.00	
Methylene Chloride	ND	20	1.3	2.00	
Styrene	ND	2.0	0.34	2.00	
1,1,2,2-Tetrachloroethane	ND	2.0	0.82	2.00	
Tetrachloroethene	ND	2.0	0.77	2.00	
Toluene	ND	2.0	0.47	2.00	
1,2,4-Trichlorobenzene	ND	2.0	1.0	2.00	
1,1,1-Trichloroethane	ND	2.0	0.61	2.00	
Hexachloro-1,3-Butadiene	ND	40	0.64	2.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	20	1.6	2.00	
1,1,2-Trichloroethane	ND	2.0	0.77	2.00	
Trichloroethene	ND	2.0	0.74	2.00	
Trichlorofluoromethane	ND	20	3.3	2.00	
1,2,4-Trimethylbenzene	ND	2.0	0.72	2.00	
1,3,5-Trimethylbenzene	ND	2.0	0.57	2.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 2 of 18

Parameter	Result	RL	MDL	DF	Qualifiers
Vinyl Chloride	ND	1.0	0.60	2.00	
p/m-Xylene	ND	2.0	0.49	2.00	
o-Xylene	ND	2.0	0.46	2.00	
Isopropanol	110	200	74	2.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	80-120	
Dibromofluoromethane	97	78-126	
1,2-Dichloroethane-d4	97	75-135	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 3 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MP1G732	**16-10-0377-2-A**	**10/05/16 10:00**	**Aqueous**	**GC/MS JJ**	**10/07/16**	**10/07/16 19:29**	**161007L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Bromomethane	ND	10	3.9	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Methylene Chloride	ND	10	0.64	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
Hexachloro-1,3-Butadiene	ND	20	0.32	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 4 of 18

Parameter	Result	RL	MDL	DF	Qualifiers
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Isopropanol	ND	100	37	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	87	80-120	
Dibromofluoromethane	99	78-126	
1,2-Dichloroethane-d4	101	75-135	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 5 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MP1G562	**16-10-0377-3-A**	**10/05/16 10:25**	**Aqueous**	**GC/MS JJ**	**10/07/16**	**10/07/16 19:57**	**161007L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Bromomethane	ND	10	3.9	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Methylene Chloride	ND	10	0.64	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
Hexachloro-1,3-Butadiene	ND	20	0.32	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 6 of 18

Parameter	Result	RL	MDL	DF	Qualifiers
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Isopropanol	ND	100	37	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	100	75-135	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 7 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MP1G462	**16-10-0377-4-B**	**10/05/16 10:40**	**Aqueous**	**GC/MS JJ**	**10/07/16**	**10/07/16 19:00**	**161007L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Bromomethane	ND	10	3.9	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Methylene Chloride	ND	10	0.64	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
Hexachloro-1,3-Butadiene	ND	20	0.32	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 8 of 18

Parameter	Result	RL	MDL	DF	Qualifiers
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Isopropanol	ND	100	37	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	96	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 9 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MP1H462	**16-10-0377-5-A**	**10/05/16 10:45**	**Aqueous**	**GC/MS JJ**	**10/07/16**	**10/07/16 20:25**	**161007L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Bromomethane	ND	10	3.9	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Methylene Chloride	ND	10	0.64	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
Hexachloro-1,3-Butadiene	ND	20	0.32	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 10 of 18

Parameter	Result	RL	MDL	DF	Qualifiers
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Isopropanol	ND	100	37	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	95	78-126	
1,2-Dichloroethane-d4	101	75-135	
Toluene-d8	96	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 11 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MP1G366	**16-10-0377-6-A**	**10/05/16 11:05**	**Aqueous**	**GC/MS JJ**	**10/07/16**	**10/07/16 20:53**	**161007L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Bromomethane	ND	10	3.9	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Methylene Chloride	ND	10	0.64	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
Hexachloro-1,3-Butadiene	ND	20	0.32	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 12 of 18

Parameter	Result	RL	MDL	DF	Qualifiers
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Isopropanol	44	100	37	1.00	J

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	80-120	
Dibromofluoromethane	107	78-126	
1,2-Dichloroethane-d4	102	75-135	
Toluene-d8	97	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 13 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB1100516	**16-10-0377-7-A**	**10/05/16 11:20**	**Aqueous**	**GC/MS JJ**	**10/07/16**	**10/07/16 17:36**	**161007L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Bromomethane	ND	10	3.9	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Methylene Chloride	ND	10	0.64	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
Hexachloro-1,3-Butadiene	ND	20	0.32	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 14 of 18

Parameter	Result	RL	MDL	DF	Qualifiers
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Isopropanol	ND	100	37	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	84	78-126	
1,2-Dichloroethane-d4	103	75-135	
Toluene-d8	96	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 15 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
TB2100616	**16-10-0377-8-A**	**10/05/16 12:05**	**Aqueous**	**GC/MS JJ**	**10/07/16**	**10/07/16 18:04**	**161007L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Bromomethane	ND	10	3.9	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Methylene Chloride	ND	10	0.64	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
Hexachloro-1,3-Butadiene	ND	20	0.32	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 16 of 18

Parameter	Result	RL	MDL	DF	Qualifiers
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Isopropanol	ND	100	37	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	89	80-120	
Dibromofluoromethane	84	78-126	
1,2-Dichloroethane-d4	101	75-135	
Toluene-d8	96	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 17 of 18

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-740-6**	**N/A**	**Aqueous**	**GC/MS JJ**	**10/07/16**	**10/07/16 14:41**	**161007L045**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Benzene	ND	0.50	0.14	1.00	
Bromomethane	ND	10	3.9	1.00	
Carbon Tetrachloride	ND	0.50	0.23	1.00	
Chlorobenzene	ND	1.0	0.17	1.00	
Chloroethane	ND	5.0	2.3	1.00	
Chloroform	ND	1.0	0.46	1.00	
Chloromethane	ND	10	1.8	1.00	
1,2-Dibromoethane	ND	1.0	0.36	1.00	
1,2-Dichlorobenzene	ND	1.0	0.46	1.00	
1,3-Dichlorobenzene	ND	1.0	0.40	1.00	
1,4-Dichlorobenzene	ND	1.0	0.43	1.00	
Dichlorodifluoromethane	ND	1.0	0.46	1.00	
1,1-Dichloroethane	ND	1.0	0.28	1.00	
1,2-Dichloroethane	ND	0.50	0.24	1.00	
1,1-Dichloroethene	ND	1.0	0.43	1.00	
c-1,2-Dichloroethene	ND	1.0	0.48	1.00	
1,2-Dichloropropane	ND	1.0	0.42	1.00	
c-1,3-Dichloropropene	ND	0.50	0.25	1.00	
t-1,3-Dichloropropene	ND	0.50	0.25	1.00	
Ethylbenzene	ND	1.0	0.14	1.00	
Methylene Chloride	ND	10	0.64	1.00	
Styrene	ND	1.0	0.17	1.00	
1,1,2,2-Tetrachloroethane	ND	1.0	0.41	1.00	
Tetrachloroethene	ND	1.0	0.39	1.00	
Toluene	ND	1.0	0.24	1.00	
1,2,4-Trichlorobenzene	ND	1.0	0.50	1.00	
1,1,1-Trichloroethane	ND	1.0	0.30	1.00	
Hexachloro-1,3-Butadiene	ND	20	0.32	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	0.78	1.00	
1,1,2-Trichloroethane	ND	1.0	0.38	1.00	
Trichloroethene	ND	1.0	0.37	1.00	
Trichlorofluoromethane	ND	10	1.7	1.00	
1,2,4-Trimethylbenzene	ND	1.0	0.36	1.00	
1,3,5-Trimethylbenzene	ND	1.0	0.28	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 18 of 18

Parameter	Result	RL	MDL	DF	Qualifiers
Vinyl Chloride	ND	0.50	0.30	1.00	
p/m-Xylene	ND	1.0	0.24	1.00	
o-Xylene	ND	1.0	0.23	1.00	
Isopropanol	ND	100	37	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	90	80-120	
Dibromofluoromethane	92	78-126	
1,2-Dichloroethane-d4	97	75-135	
Toluene-d8	95	80-120	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 314.0
Project: UTC RFF 2016 GW Monitor			Page 1 of 1

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MP1G797	**Sample**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:01**	**161006S01A**
MP1G797	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 21:41**	**161006S01A**
MP1G797	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 21:56**	**161006S01A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Perchlorate	59.28	50.00	118.6	119	118.1	118	80-120	0	0-15	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 314.0
Project: UTC RFF 2016 GW Monitor			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-242-518	**LCS**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 12:21**	**1610006L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Perchlorate	25.00	24.02	96	85-115	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: UTC RFF 2016 GW Monitor			Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-16-740-6	**LCS**	**Aqueous**	**GC/MS JJ**	**10/07/16**	**10/07/16 12:58**	**161007L045**
099-16-740-6	**LCSD**	**Aqueous**	**GC/MS JJ**	**10/07/16**	**10/07/16 13:36**	**161007L045**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	50.00	48.06	96	49.94	100	80-120	73-127	4	0-20	
Bromomethane	50.00	49.42	99	51.34	103	22-160	0-183	4	0-20	
Carbon Tetrachloride	50.00	47.13	94	49.79	100	64-148	50-162	5	0-20	
Chlorobenzene	50.00	47.81	96	49.87	100	80-120	73-127	4	0-20	
Chloroethane	50.00	45.87	92	47.72	95	63-123	53-133	4	0-20	
Chloroform	50.00	45.71	91	47.17	94	79-121	72-128	3	0-20	
Chloromethane	50.00	44.35	89	46.71	93	43-133	28-148	5	0-20	
1,2-Dibromoethane	50.00	48.20	96	49.28	99	80-120	73-127	2	0-20	
1,2-Dichlorobenzene	50.00	50.56	101	51.70	103	80-120	73-127	2	0-20	
1,3-Dichlorobenzene	50.00	51.43	103	53.34	107	80-121	73-128	4	0-20	
1,4-Dichlorobenzene	50.00	50.55	101	51.80	104	80-120	73-127	2	0-20	
Dichlorodifluoromethane	50.00	46.25	93	49.66	99	25-187	0-214	7	0-20	
1,1-Dichloroethane	50.00	46.78	94	48.57	97	75-120	68-128	4	0-20	
1,2-Dichloroethane	50.00	45.41	91	46.73	93	80-123	73-130	3	0-20	
1,1-Dichloroethene	50.00	47.74	95	50.27	101	74-122	66-130	5	0-20	
c-1,2-Dichloroethene	50.00	47.37	95	49.40	99	75-123	67-131	4	0-20	
1,2-Dichloropropane	50.00	48.60	97	50.49	101	80-120	73-127	4	0-20	
c-1,3-Dichloropropene	50.00	51.42	103	52.74	105	80-124	73-131	3	0-20	
t-1,3-Dichloropropene	50.00	50.47	101	52.05	104	68-128	58-138	3	0-20	
Ethylbenzene	50.00	49.94	100	52.22	104	80-120	73-127	4	0-20	
Methylene Chloride	50.00	44.70	89	46.19	92	74-122	66-130	3	0-20	
Styrene	50.00	46.05	92	47.69	95	80-120	73-127	4	0-20	
1,1,2,2-Tetrachloroethane	50.00	45.89	92	47.53	95	78-126	70-134	4	0-20	
Tetrachloroethene	50.00	47.79	96	50.70	101	57-141	43-155	6	0-20	
Toluene	50.00	48.86	98	50.74	101	80-120	73-127	4	0-20	
1,2,4-Trichlorobenzene	50.00	49.93	100	51.22	102	57-153	41-169	3	0-20	
1,1,1-Trichloroethane	50.00	44.93	90	47.08	94	76-124	68-132	5	0-20	
Hexachloro-1,3-Butadiene	50.00	53.42	107	55.51	111	61-151	46-166	4	0-20	
1,1,2-Trichloro-1,2,2-Trifluoroethane	50.00	53.74	107	58.07	116	58-148	43-163	8	0-20	
1,1,2-Trichloroethane	50.00	45.69	91	47.49	95	80-120	73-127	4	0-20	
Trichloroethene	50.00	49.57	99	51.71	103	80-120	73-127	4	0-20	
Trichlorofluoromethane	50.00	49.37	99	52.49	105	64-136	52-148	6	0-20	
1,2,4-Trimethylbenzene	50.00	48.57	97	50.14	100	80-120	73-127	3	0-20	
1,3,5-Trimethylbenzene	50.00	45.54	91	47.34	95	80-126	72-134	4	0-20	
Vinyl Chloride	50.00	47.97	96	50.68	101	67-127	57-137	6	0-20	
p/m-Xylene	100.0	103.7	104	108.4	108	80-127	72-135	4	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	EPA 5030C
		Method:	EPA 8260B
Project: UTC RFF 2016 GW Monitor			Page 3 of 3

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	ME CL	RPD	RPD CL	Qualifiers
o-Xylene	50.00	46.34	93	48.33	97	80-127	72-135	4	0-20	
Isopropanol	250.0	196.6	79	203.4	81	48-138	33-153	3	0-20	

Total number of LCS compounds: 38
Total number of ME compounds: 0
Total number of ME compounds allowed: 2
LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 16-10-0377

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0	N/A	1065	IC 8	1
EPA 8260B	EPA 5030C	986	GC/MS JJ	2

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Glossary of Terms and Qualifiers

Work Order: 16-10-0377 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

Date 10/05/16
Page 1 of 1

WO NO. / LAB USE ONLY: **16-10-0377**

LABORATORY CLIENT: EnSafe Inc.
ADDRESS: 2151 Salvio St.
CITY: Concord STATE: CA ZIP: 94520
TEL: 925-305-2109 E-MAIL: ddunbar@ensafe.com

CLIENT PROJECT NAME / NO.: UTC RFF 2016 GW Monitor
P.O. NO.: 22013
PROJECT CONTACT: David Dunbar
LAB CONTACT OR QUOTE NO:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) D. Dunbar

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☒ OTHER → EnSafe 3-File EQUIS EDD

SPECIAL INSTRUCTIONS:
WQ = Water quality Matrix
Samples are UTC Project Samples
Report with J Flags for all Methods

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Perchlorate (314)			
1	MPIG797	10/05/16	0930	GW	4	1	3							X									X			
2	MPIG732		1000	GW	4	1	3							X									X			
3	MPIG562		1025	GW	4	1	3							X									X			
4	MPIG462		1040	GW	4	1	3							X									X			
5	MPIH462		1045	GW	4	1	3							X									X			
6	MPIG366		1105	GW	4	1	3							X									X			
7	EB1100~~8~~16 05		1120	WQ	4	1	3							X									X			
8	TB2100616		1205	WQ	2		2							X												

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Robert Torres (EnSafe)	10-5-16	1500
Robert Torres [signature]	[signature] ECI	10/6/16	1040
[signature]	[signature] ECI	100616	1326

2016-04-01-Revision

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WORK ORDER NUMBER: 16-10- 0377

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: ENSAFE

DATE: 10 / 6 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC3B (CF: 0.0°C); Temperature (w/o CF): 3.8 °C (w/ CF): 3.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter

Checked by: 678

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 678
Sample(s)	☑ Present and Intact (-8)	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1053

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: **(Trip Blank Lot Number: _____)**

Aqueous: ☐ VOA ☑ VOA**h** 3 ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☑ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na₂** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1053

Reviewed by: 826

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Supplemental Report 1

Additional requested analyses have been added to the original report.

WORK ORDER NUMBER: 16-10-0377

The difference is service

AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: EnSafe, Inc.

Client Project Name: UTC RFF 2016 GW Monitor

Attention: David Dunbar
5724 Summer Trees Lane
Memphis, TN 38134-7309

Approved for release on 10/21/2016 by:
Virendra Patel
Project Manager

ResultLink

Email your PM

Eurofins Calscience, Inc. (Calscience) certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The original report of subcontracted analyses, if any, is attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.

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Work Order Number: 16-10-0377

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Work Order Narrative

Work Order: 16-10-0377 Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 10/06/16. They were assigned to Work Order 16-10-0377.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

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Sample Summary

Client:	EnSafe, Inc. 5724 Summer Trees Lane Memphis, TN 38134-7309	Work Order:	16-10-0377
		Project Name:	UTC RFF 2016 GW Monitor
		PO Number:	22013
		Date/Time Received:	10/06/16 13:26
		Number of Containers:	30
Attn:	David Dunbar		

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
MP1G797	16-10-0377-1	10/05/16 09:30	4	Aqueous
MP1G732	16-10-0377-2	10/05/16 10:00	4	Aqueous
MP1G562	16-10-0377-3	10/05/16 10:25	4	Aqueous
MP1G462	16-10-0377-4	10/05/16 10:40	4	Aqueous
MP1H462	16-10-0377-5	10/05/16 10:45	4	Aqueous
MP1G366	16-10-0377-6	10/05/16 11:05	4	Aqueous
EB1100516	16-10-0377-7	10/05/16 11:20	4	Aqueous
TB2100616	16-10-0377-8	10/05/16 12:05	2	Aqueous

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Detections Summary

Client:	EnSafe, Inc. 5724 Summer Trees Lane Memphis, TN 38134-7309	Work Order: Project Name: Received:	16-10-0377 UTC RFF 2016 GW Monitor 10/06/16
Attn:	David Dunbar		

Client SampleID Analyte	Result	Qualifiers	RL	Units	Method	Extraction
MP1G797 (16-10-0377-1)						
Perchlorate	59		2.0	ug/L	EPA 314.0	N/A
Perchlorate	0.044	J	0.025*	ug/L	EPA 6850	N/A
MP1G732 (16-10-0377-2)						
Perchlorate	9.4		2.0	ug/L	EPA 314.0	N/A
Perchlorate	0.22	J	0.025*	ug/L	EPA 6850	N/A
MP1G562 (16-10-0377-3)						
Perchlorate	13		2.0	ug/L	EPA 314.0	N/A
Perchlorate	1.1		1.0	ug/L	EPA 6850	N/A
MP1G462 (16-10-0377-4)						
Perchlorate	8.6		2.0	ug/L	EPA 314.0	N/A
Perchlorate	8.7		1.0	ug/L	EPA 6850	N/A
MP1H462 (16-10-0377-5)						
Perchlorate	8.3		2.0	ug/L	EPA 314.0	N/A
Perchlorate	8.5		1.0	ug/L	EPA 6850	N/A
MP1G366 (16-10-0377-6)						
Perchlorate	8.3		2.0	ug/L	EPA 314.0	N/A
Perchlorate	7.7		1.0	ug/L	EPA 6850	N/A

Subcontracted analyses, if any, are not included in this summary.

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* MDL is shown

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 314.0
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MP1G797	**16-10-0377-1-D**	**10/05/16 09:30**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:01**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	59	2.0	0.71	1.00	

MP1G732	**16-10-0377-2-D**	**10/05/16 10:00**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:15**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	9.4	2.0	0.71	1.00	

MP1G562	**16-10-0377-3-D**	**10/05/16 10:25**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:29**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	13	2.0	0.71	1.00	

MP1G462	**16-10-0377-4-D**	**10/05/16 10:40**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:44**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	8.6	2.0	0.71	1.00	

MP1H462	**16-10-0377-5-D**	**10/05/16 10:45**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:58**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	8.3	2.0	0.71	1.00	

MP1G366	**16-10-0377-6-D**	**10/05/16 11:05**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 21:13**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	8.3	2.0	0.71	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 314.0
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
EB1100516	**16-10-0377-7-D**	**10/05/16 11:20**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 21:27**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	ND	2.0	0.71	1.00	

Method Blank	**099-16-242-518**	**N/A**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 12:07**	**1610006L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	ND	2.0	0.71	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 6850
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MP1G797	**16-10-0377-1-D**	**10/05/16 09:30**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 18:03**	**161007L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	0.044	1.0	0.025	1.00	J

MP1G732	**16-10-0377-2-D**	**10/05/16 10:00**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 18:37**	**161007L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	0.22	1.0	0.025	1.00	J

MP1G562	**16-10-0377-3-D**	**10/05/16 10:25**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 18:48**	**161007L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	1.1	1.0	0.025	1.00	

MP1G462	**16-10-0377-4-D**	**10/05/16 10:40**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 19:00**	**161007L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	8.7	1.0	0.025	1.00	

MP1H462	**16-10-0377-5-D**	**10/05/16 10:45**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 19:11**	**161007L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	8.5	1.0	0.025	1.00	

MP1G366	**16-10-0377-6-D**	**10/05/16 11:05**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 19:46**	**161007L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	7.7	1.0	0.025	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 6850
		Units:	ug/L
Project: UTC RFF 2016 GW Monitor			Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-760-2**	**N/A**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 17:28**	**161007L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Perchlorate	ND	1.0	0.025	1.00	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 314.0
Project: UTC RFF 2016 GW Monitor			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MP1G797	**Sample**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 20:01**	**161006S01A**
MP1G797	**Matrix Spike**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 21:41**	**161006S01A**
MP1G797	**Matrix Spike Duplicate**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 21:56**	**161006S01A**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Perchlorate	59.28	50.00	118.6	119	118.1	118	80-120	0	0-15	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 6850
Project: UTC RFF 2016 GW Monitor			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MP1G797	**Sample**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 18:03**	**161007S01**
MP1G797	**Matrix Spike**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 18:14**	**161007S01**
MP1G797	**Matrix Spike Duplicate**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 18:26**	**161007S01**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Perchlorate	ND	10.00	9.687	97	9.946	99	80-120	3	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 314.0
Project: UTC RFF 2016 GW Monitor			Page 1 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-242-518	**LCS**	**Aqueous**	**IC 8**	**N/A**	**10/06/16 12:21**	**1610006L01**

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Perchlorate	25.00	24.02	96	85-115	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

EnSafe, Inc.		Date Received:	10/06/16
5724 Summer Trees Lane		Work Order:	16-10-0377
Memphis, TN 38134-7309		Preparation:	N/A
		Method:	EPA 6850
Project: UTC RFF 2016 GW Monitor			Page 2 of 2

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-16-760-2	**LCS**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 17:40**	**161007L01**
099-16-760-2	**LCSD**	**Aqueous**	**LC/MS 1**	**N/A**	**10/07/16 17:51**	**161007L01**

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Perchlorate	10.00	10.14	101	9.902	99	80-120	2	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 16-10-0377

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 314.0	N/A	1065	IC 8	1
EPA 6850	N/A	110	LC/MS 1	1

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Glossary of Terms and Qualifiers

Work Order: 16-10-0377

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
CI	See case narrative.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.
	Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.
	A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

Date 10/05/16
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WO NO. / LAB USE ONLY: **16-10-0377**

LABORATORY CLIENT: EnSafe Inc.
ADDRESS: 2151 Salvio St.
CITY: Concord STATE: CA ZIP: 94520
TEL: 925-305-2109 E-MAIL: ddunbar@ensafe.com

CLIENT PROJECT NAME / NO.: UTC RFF 2016 GW Monitor
P.O. NO.: 22013
PROJECT CONTACT: David Dunbar
LAB CONTACT OR QUOTE NO:
GLOBAL ID:
LOG CODE:
SAMPLER(S): (PRINT) D. Dunbar

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ STANDARD

EDD
☐ COELT EDF ☒ OTHER → EnSafe 3-File EQUIS EDD

SPECIAL INSTRUCTIONS:
WQ = Water quality Matrix
Samples are UTC Project Samples
Report with J Flags for all Methods

REQUESTED ANALYSES
Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☐ GRO	☐ TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH ___	BTEX / MTBE ☐ 8260 ☐ ___	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6	Perchlorate (314)			
1	MPIG797	10/05/16	0930	GW	4	1	3							X									X			
2	MPIG732	↓	1000	GW	4	1	3							X									X			
3	MPIG562		1025	GW	4	1	3							X									X			
4	MPIG462		1040	GW	4	1	3							X									X			
5	MPIH462		1045	GW	4	1	3							X									X			
6	MPIG366		1105	GW	4	1	3							X									X			
7	EB110~~8~~05~~16~~		1120	WQ	4	1	3							X									X			
8	TB2100616		1205	WQ	2		2							X												

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
[signature]	Robert Torres (EnSafe)	10-5-16	1500
Robert Torres [signature]	[signature] ECI	10/6/16	1040
[signature]	[signature] ECI	100616	1326

2016-04-01-Revision

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WORK ORDER NUMBER: 16-10- 0377

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 1

CLIENT: ENSAFE

DATE: 10 / 6 / 2016

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Thermometer ID: SC3B (CF: 0.0°C); Temperature (w/o CF): 3.8 °C (w/ CF): 3.8 °C; ☑ Blank ☐ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling

☐ Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: ☐ Air ☐ Filter Checked by: 678

CUSTODY SEAL:

Cooler	☐ Present and Intact	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 678
Sample(s)	☑ Present and Intact (-8)	☐ Present but Not Intact	☑ Not Present	☐ N/A	Checked by: 1053

SAMPLE CONDITION:

	Yes	No	N/A
Chain-of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Sampling date ☐ Sampling time ☐ Matrix ☐ Number of containers			
☐ No analysis requested ☐ Not relinquished ☐ No relinquished date ☐ No relinquished time			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☑	☐	☐
Sample container(s) intact and in good condition	☑	☐	☐
Proper containers for analyses requested	☑	☐	☐
Sufficient volume/mass for analyses requested	☑	☐	☐
Samples received within holding time	☑	☐	☐
Aqueous samples for certain analyses received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfide ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation chemical(s) noted on COC and/or sample container	☑	☐	☐
Unpreserved aqueous sample(s) received for certain analyses			
☐ Volatile Organics ☐ Total Metals ☐ Dissolved Metals			
Container(s) for certain analysis free of headspace	☑	☐	☐
☑ Volatile Organics ☐ Dissolved Gases (RSK-175) ☐ Dissolved Oxygen (SM 4500)			
☐ Carbon Dioxide (SM 4500) ☐ Ferrous Iron (SM 3500) ☐ Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE: **(Trip Blank Lot Number: _____)**

Aqueous: ☐ VOA ☑ VOA**h** (3) ☐ VOA**na₂** ☐ 100PJ ☐ 100PJ**na₂** ☐ 125AGB ☐ 125AGB**h** ☐ 125AGB**p** ☑ 125PB

☐ 125PB**znna** ☐ 250AGB ☐ 250CGB ☐ 250CGB**s** ☐ 250PB ☐ 250PB**n** ☐ 500AGB ☐ 500AGJ ☐ 500AGJ**s**

☐ 500PB ☐ 1AGB ☐ 1AGB**na₂** ☐ 1AGB**s** ☐ 1PB ☐ 1PB**na** ☐ _____ ☐ _____ ☐ _____ ☐ _____

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve (_____) ☐ EnCores® (_____) ☐ TerraCores® (_____) ☐ _____

Air: ☐ Tedlar™ ☐ Canister ☐ Sorbent Tube ☐ PUF ☐ _____ **Other Matrix** (_____): ☐ _____ ☐ _____

Container: **A** = Amber, **B** = Bottle, **C** = Clear, **E** = Envelope, **G** = Glass, **J** = Jar, **P** = Plastic, and **Z** = Ziploc/Resealable Bag

Preservative: **b** = buffered, **f** = filtered, **h** = HCl, **n** = HNO_3, **na** = NaOH, **na₂** = $Na_2S_2O_3$, **p** = H_3PO_4, **s** = H_2SO_4, **u** = ultra-pure, **x** = Na_2SO_3+$NaHSO_4.H_2O$, **znna** = Zn $(CH_3CO_2)_2$ + NaOH

Labeled/Checked by: 1053

Reviewed by: 826

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