The Boeing Company
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Via FedEx

February 26, 2018
In reply refer to SHEA-115830

Mr. Mohsen Nazemi
Project Coordinator
Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, CA 95824

Subject: Boeing Report on Annual Groundwater Monitoring, 2017
Santa Susana Field Laboratory, Ventura County, California

RE: Post-Closure Permit No. PC-94/95-3-02

Dear Mr. Mohsen:

The Boeing Company (Boeing) hereby submits the "Boeing Report on Annual Groundwater Monitoring, 2017" prepared by Stantec, and dated February 23, 2018. This report summarizes Boeing groundwater monitoring activities conducted at the Santa Susana Field Laboratory (SSFL) located in Ventura County for the period of January 1 through December 31, 2017. The National Aeronautics and Space Administration (NASA) and Department of Energy (DOE) will present their data and findings for 2017 in their own reports for their respective portions of SSFL. The fourth quarter 2017 groundwater elevation contours presented in this report were developed collaboratively between Boeing, NASA, and DOE. NASA and DOE provided their interpreted areas of impacted groundwater for their respective portions of SSFL as presented for informational purposes in the 17 constituent-of-concern extent maps in this report. Boeing has reviewed and accepts the interpreted areas of impacted groundwater provided by NASA and DOE.

In 2017 there were 162 on-site monitoring wells, 5 on-site former water supply wells, 31 off-site monitoring wells, and 1 off-site seep included in the Boeing groundwater monitoring program at SSFL. Water-producing wells in the monitoring network were sampled in accordance with the referenced Post-Closure Permit, associated regulated unit water quality sampling and analysis plan (WQSAP), the LUFT Program administered by DTSC, and the Boeing 2017 Sitewide Program Groundwater Sampling and Gauging Plan as presented in a technical memorandum prepared by MWH, now part of Stantec, dated December 13, 2016, and approved with modifications by DTSC via an email exchange with Boeing January 27-30, 2017, pursuant to the Site-Wide WQSAP.

CERTIFICATION

I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to evaluate the information submitted. I certify that the information contained in or accompanying this submittal is true, accurate, and complete. As to those identified portion(s) of this submittal for which I cannot personally verify the accuracy, I certify that this submittal and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____
Name: David W. Dassler P.E.
Title: Remediation Program Manager
Date: 2-23-18

Distribution: See Enclosed

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Boeing Report on Annual Groundwater Monitoring, 2017

Santa Susana Field Laboratory
Ventura County, California
Stantec PN: 185865105

February 23, 2018

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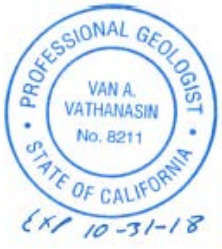
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This Boeing Report on Annual Groundwater Monitoring, 2017 has been prepared by a team of qualified professionals under the supervision of the senior staff whose seal and signature appears below.

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Executive Summary

This report summarizes The Boeing Company's (Boeing) groundwater monitoring activities conducted during 2017 at the Santa Susana Field Laboratory (SSFL) located in Ventura County, California. The National Aeronautics and Space Administration (NASA) and the United States Department of Energy (DOE) will present their groundwater sampling data and findings for 2017 in their own reports for their respective portions of SSFL. Site-wide maps showing areas of impacted groundwater at SSFL for 17 chemicals are presented in this report. NASA and DOE provided their interpreted areas of impacted groundwater for their respective portions of SSFL as presented in these figures for informational purposes. This report of Boeing's 2017 groundwater monitoring activities includes the following results and findings for Boeing's portions of SSFL:

- Water quality samples were collected under the 2010 Modification of the Boeing Post-Closure Permit (PCP) for SSFL Areas I and III (Department of Toxic Substances Control [DTSC], 2010) and its associated Regulated Unit Water Quality Sampling and Analysis Plan (WQSAP) (Haley & Aldrich, 2010b); the Boeing 2017 Sitewide Program Groundwater Sampling and Gauging Plan (MWH, 2016c) as modified and approved by DTSC (DTSC, 2017a) pursuant to the Site-Wide WQSAP (Haley & Aldrich, 2010c); the Leaking Underground Fuel Tank (LUFT) monitoring program overseen by DTSC; and per a verbal request from DTSC (DTSC, 2017b).
- Scheduled 2017 samples for each sampling event were collected, with exceptions identified in this report.
- Water level measurements were collected quarterly, and groundwater elevation contours for October 2017 were prepared and are presented in this report.
- Water quality samples were collected to support the Data Quality Objectives (DQO) Evaluations under the Master Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Data Gap Work Plan (CH2M HILL, 2013).
- Well maintenance and equipment modifications were performed.
- Exceptions to the WQSAPs are summarized in this report.
- The 2017 groundwater monitoring results and prior sampling history support the changes to the Boeing Site-Wide Program proposed in the Boeing 2018 Site-Wide Program Groundwater Sampling and Gauging Plan as modified and approved by DTSC (MWH, 2017c; DTSC, 2018). The 2017 monitoring results do not indicate a need for any other changes to Boeing's groundwater monitoring programs in order to continue providing effective monitoring of groundwater conditions in Boeing areas at SSFL.

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Abbreviations and Acronyms

APTF	Advanced Propulsion Test Facility
Boeing	The Boeing Company
CAIM	Corrective Action Interim Measures
22 CCR	Title 22 California Code of Regulations
cis-1,2-DCE	cis-1,2-dichloroethene
COC	Constituent of Concern
1,1-DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
1,1-DCE	1,1-dichloroethene
DOE	United States Department of Energy
DQO	Data Quality Objectives
DTSC	California Department of Toxic Substances Control
ECL	Engineering Chemistry Laboratory
EPA	United States Environmental Protection Agency
ESADA	Empire State Atomic Development Authority
FLUTe	Flexible Liner Underground Technologies, LLC
FSDF	Former Sodium Disposal Facility
GET	Groundwater Extraction and Treatment
GWRC	Groundwater Resources Consultants, Inc.
HGL	HydroGeoLogic, Inc.
HVS	Happy Valley South
IEL	Instrument and Equipment Laboratories
LETF/CTL-I	Laser Engineering Test Facility/Component Test Laboratory I
LUFT	leaking underground fuel tank

Abbreviations and Acronyms – continued

MCL	maximum contaminant level
MDA	minimum detectable activity
MDL	method detection limit
MEK	methyl ethyl ketone
mrem/yr	millirems per year
MSL	mean sea level
NASA	National Aeronautics and Space Administration
NCY	New Conservation Yard
NDMA	n-nitrosodimethylamine
NL	notification level
OCY	Old Conservation Yard
PCE	tetrachloroethene
PCP	Post-Closure Permit
POC	point-of-compliance
QAPP	Quality Assurance Project Plan
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SDWA	Safe Drinking Water Act
SMCL	Secondary Maximum Contaminant Level
SSFL	Santa Susana Field Laboratory
STL	Systems Test Laboratory
SWGW RBSL	site-wide groundwater risk-based screening level
SWRCB	California State Water Resources Control Board
TCE	trichloroethene

Abbreviations and Acronyms – continued

1,2,3-TCP	1,2,3-trichloropropane
TPH	total petroleum hydrocarbons
trans-1,2-DCE	trans-1,2-dichloroethene
µg/L	micrograms per liter
WQSAP	Water Quality Sampling and Analysis Plan

Introduction
February 23, 2018

1.0 INTRODUCTION

This report summarizes The Boeing Company's (Boeing) groundwater monitoring activities conducted during 2017 at the Santa Susana Field Laboratory (SSFL or site) located in Ventura County, California (Figure 1). The National Aeronautics and Space Administration (NASA) and the United States Department of Energy (DOE) will present their groundwater monitoring data and findings for 2017 in their own reports for their respective portions of SSFL.

1.1 SITE DESCRIPTION

The SSFL is located approximately 29 miles northwest of downtown Los Angeles, California, in the southeast corner of Ventura County (Figure 1). The SSFL occupies approximately 2,850 acres of hilly terrain, with approximately 1,100 feet of topographic relief near the crest of the Simi Hills. Figure 1 shows the geographic location and property boundaries of the site, as well as surrounding areas**.** The site is divided into four administrative areas (Areas I, II, III, and IV) and includes undeveloped land both to the north and south (Figure 1). Most of Area I and all of Areas III and IV are owned by Boeing. The United States Environmental Protection Agency (EPA) Identification Number for Areas I and III is CAD093365435. Area II is owned by the federal government and administered by NASA along with a portion of Area I. The EPA Identification Number for Area II is CA1800090010. Ninety acres of Area IV were leased to DOE, which also owns facilities in Area IV. The northern and southern undeveloped lands of SSFL were not used for industrial activities and are owned by Boeing.

1.2 REGULATORY BACKGROUND

This report is intended to fulfill the requirements of multiple regulatory programs being implemented at SSFL. These include requirements addressed in the Boeing Post-Closure Permit (PCP) monitoring program (Regulated Unit Program) approved by the Department of Toxic Substances Control (DTSC) for Boeing Areas I and III; the Site-Wide Groundwater Monitoring Program approved by DTSC; and the Leaking Underground Fuel Tank (LUFT) monitoring program overseen by DTSC. Specific requirements include performance of detection monitoring, evaluation monitoring, and interim corrective action monitoring as described in the Boeing PCP and per the requirements of Title 22, California Code of Regulations (22 CCR), Sections 66264.97 through 66264.99. The monitoring also complies with the Consent Order for Corrective Action issued on August 16, 2007 by DTSC (DTSC, 2007).

A Hazardous Waste Facility PCP (Permit number PC-94/95-3-02 for Areas I and III) (DTSC, 1995) was issued for Boeing Areas I and III of SSFL in 1995 for operation of hazardous waste groundwater extraction, treatment, and monitoring systems at the facility, as well as maintenance of caps at closed impoundments. A PCP modification (Permit Modification number MOD SC3-111904-A for Areas I and III) (DTSC, 2010) and its associated Regulated Unit Water Quality Sampling and Analysis Plan (WQSAP) (Haley & Aldrich, 2010b) were approved by DTSC during first quarter 2010 and were put into effect starting in second quarter 2010.

The Site-Wide Groundwater Monitoring Program is prescribed by the Site-Wide WQSAP. A Draft Site-Wide WQSAP (Haley & Aldrich, 2009b) was submitted to DTSC in December 2009 and implemented in third quarter 2010 per DTSC request. Formal implementation of the December 2010 revision to the Site-Wide WQSAP (Haley & Aldrich, 2010c) occurred in third quarter 2011 following DTSC approval on June 6, 2011 (DTSC, 2011). Certain well sponsorships,

and gauging, sampling, and analytical requirements have changed since the December 2010 Site-Wide WQSAP was written and approved. Boeing's Site-Wide Program sampling requirements for the 2017 calendar year are described in a technical memorandum titled Boeing 2017 Sitewide Program Groundwater Sampling and Gauging Plan (MWH, 2016c) that was submitted to DTSC by Boeing on December 14, 2016 (Boeing, 2016), and approved with modification per an email exchange between DTSC and Boeing (DTSC, 2017a; Boeing, 2017).

The content of this report complies with the current Boeing PCP (DTSC, 2010), Regulated Unit WQSAP (Haley & Aldrich, 2010b), and the December 2010 Site-Wide WQSAP (Haley & Aldrich, 2010c) with subsequent periodic modification of gauging, sampling and analytical requirements as approved or requested by DTSC.

1.3 OBJECTIVES

The objective of this report is to document compliance with requirements in the PCP per 22 CCR, sections 66264.97 through 66264.99; Boeing's Site-Wide Groundwater Monitoring Program requirements; and the LUFT Program. The scope of this annual report includes the following:

- Executive summary of significant findings.
- Summary of monitoring programs and activities conducted during the calendar year.
- Summary of maintenance inspections of monitored wells.
- Summary of modifications made to monitoring equipment during the calendar year, if any.
- Summary of deviations from the WQSAPs, if any.
- Water level data, hydrographs, and groundwater elevation contour maps.
- Discussion of significant events which may have influenced the occurrence and movement of groundwater.
- Summary of laboratory analytical results for water samples.
- Electronic laboratory analytical reports and sample custody documents.
- Summary of the results of statistical evaluation, if any, of water chemistry data.
- Results of quality assurance/quality control sampling and analysis, and assessment of data quality including accuracy, precision, and completeness.
- Contaminant plume maps with 2017 concentrations posted for specific regulated units.
- Plots of contaminant concentration versus time and a discussion of evident trends.
- Summary tables indicating monitoring results that lie outside of the historical range for each monitored parameter and location.

- Summary of chemical constituent concentrations at compliance wells for each regulated unit that exceed regulated unit-specific concentration limits; this element of the annual report is required by the 2010 Modified PCP and will be performed and presented in each annual report after DTSC approval of the proposed concentration limits.
- Summary of outstanding issues and needed follow-up work.

1.4 REPORT ORGANIZATION

The remainder of this report is organized as follows:

- Section 2.0 provides a description of the site geology and hydrogeology.
- Section 3.0 provides a summary of the activities performed during this reporting period.
- Section 4.0 presents the results of field work and analytical testing.
- Section 5.0 presents planned activities for 2018.
- Section 6.0 presents references cited in this report.

Site Geology and Hydrogeology
February 23, 2018

2.0 SITE GEOLOGY AND HYDROGEOLOGY

2.1 GEOLOGY

SSFL is located in the Western Transverse Ranges physiographic province of southern California. The province's geology and physiography reflect at least 70 million years of geologic history. The sedimentary rocks in the portion encompassing SSFL range from coarse-grained conglomerates and sandstones to fine-grained siltstones and shales. The geologic history of the Western Transverse Ranges is complex and involves several distinct episodes of deformation involving tectonic extension, rotation, compression, and shearing. This has caused the portion of the Western Transverse Ranges encompassing SSFL to rotate more than 90 degrees clockwise. This complex geologic history is reflected in multiple fold, fault, and fracture orientations in the vicinity of SSFL.

The Chatsworth Formation underlies much of the province and is exposed across most of SSFL (Figure 2). It is a turbidic sandstone approximately 6,000 feet thick and more than 65 million years old with interbedded shale, siltstone, and conglomerate. As a result of geologic folding, the Chatsworth Formation dips moderately (typically 25°-35°) to the northwest at SSFL, along the south limb of the Simi Valley syncline. Detailed geologic mapping in the site vicinity was performed to augment published geologic maps, resulting in the subdivision of the Chatsworth Formation into upper and lower units (MWH, 2009). The lower unit is exposed in southeastern SSFL and dips northwest beneath the remainder of the site. The upper Chatsworth Formation is exposed across much of the remainder of the site and has been subdivided further into stratigraphic packages consisting of coarse- and fine-grained members. Several steeply dipping to near-vertical faults cut through this stratigraphy. Fault gouge and ancillary fracturing are observed at some locations.

Unconsolidated deposits at SSFL include alluvium, artificial fill, and thin soils over bedrock. The alluvium generally consists of silty sand and occurs in topographic lows and along ephemeral drainages. Areas with greater than 5 feet of alluvium cover more than 300 acres of SSFL, or about 11 percent of the site.

2.2 HYDROGEOLOGY

Groundwater occurs at SSFL in alluvium, and in weathered and unweathered bedrock (Montgomery Watson, 2000; MWH, 2009). First-encountered groundwater may be observed in any of these media under water table conditions. For regulatory purposes, near-surface groundwater is defined to occur within the site's unconsolidated deposits (i.e., alluvium and fill) and shallow weathered bedrock, whereas deep groundwater occurs in unweathered bedrock and is referred to as "Chatsworth Formation groundwater." The near-surface groundwater may be perched or vertically continuous with deeper groundwater.

The boundaries of the groundwater system encompassing SSFL include the base of the Simi Hills along the edges of Simi and San Fernando valleys, and areas of groundwater discharge to seeps and phreatophytes along several surrounding canyons. The base of the active groundwater flow system occurs at the boundary between fresh and connate groundwater, assumed to occur at approximately sea level. The upper boundary of the groundwater flow system is the regional water table and localized perched water tables. Hydrogeologic boundaries internal to the

groundwater flow system include areas of groundwater discharge to seeps and phreatophytes, pumped wells, and various boundary effects along faults and geologic contacts.

Portions of the Chatsworth Formation comprise locally transmissive aquifer units. These units generally consist of the fractured sandstone members of the upper Chatsworth Formation, many of which are several hundred feet thick. Separating the major sandstone units are a series of relatively thin shale and siltstone members that typically behave as aquitards.

The arrangement and geometry of the hydrogeologic units are controlled by geologic contacts, folding, and faulting. Together, these structures result in a complex three-dimensional distribution of hydrogeologic units and anisotropic permeability that influence directions and rates of groundwater flow. A few primary faults subdivide SSFL into several large blocks, which are further subdivided by shale beds.

The SSFL water table is a subdued reflection of the topography which, relative to the surrounding valleys, presents as a large groundwater mound that is maintained by rainfall recharge. Distinct differences in groundwater head are observed across fine-grained units and some faults that impede groundwater flow. Groundwater moves from areas of recharge toward pumping wells and downward and outward toward hill slope seeps and the surrounding valleys. The direction of vertical flow is downward at most site locations.

Insight into the pattern of SSFL groundwater flow has been provided through the development and use of a representative three-dimensional groundwater flow model (MWH, 2009).

3.0 REPORTING PERIOD ACTIVITIES

The reporting period for this report covers the 2017 calendar year, January 1, 2017 to December 31, 2017. Work performed during the 2017 annual reporting period is presented in this section.

During 2017, implementation of the groundwater monitoring program at SSFL fulfilled the requirements of multiple programs prescribed by the following:

- Regulated Unit Monitoring Program
    - 2010 Permit Modification of the Boeing PCP (DTSC, 2010)
    - 2010 Regulated Unit WQSAP (Haley & Aldrich, 2010b)
- Site-Wide Groundwater Monitoring Program – Boeing 2017 Sitewide Program Groundwater Sampling and Gauging Plan (MWH, 2016c) as approved with modifications by DTSC (DTSC, 2017a; Boeing, 2017), pursuant to the December 2010 Site-Wide WQSAP (Haley & Aldrich, 2010c)
- LUFT program overseen by DTSC
- Consent Order for Corrective Action issued on 16 August 2007 by DTSC (DTSC, 2007)

The following activities are required by these programs and were conducted during the reporting period:

- Measurement of groundwater levels at all accessible program wells.
- Collection and submission of groundwater samples from select wells for laboratory analysis.

A list of wells and monitoring programs is presented in Table 1. Well, piezometer, and seep locations are shown in Figure 3. Boeing Regulated Unit Monitoring Program locations are shown in Figure 4 and Boeing Site-Wide and LUFT monitoring program locations are shown in Figure 5. Well construction details are provided in Appendix A.

Additional groundwater monitoring was performed during the year for the following programs, which are further described in Section 3.3.4:

- Groundwater samples were collected in response to a verbal request from DTSC to collect and analyze a sample from well OS-09R for perchlorate (DTSC, 2017b).
- Groundwater samples were collected in support of the Data Quality Objectives (DQO) Evaluations under the Master Resource Conservation and Recovery Act (RCRA) Facility Investigation Data Gap Work Plan (CH2M HILL, 2013).
- Seeps in the vicinity of WS-09A were inspected and pumped.

Field groundwater monitoring activities during the 2017 reporting period were performed under the direction and oversight of Stantec (formerly MWH). Field activities were conducted in general accordance with the WQSAPs for the Areas I and III Regulated Unit Program (Haley & Aldrich, 2010b) and the Site-Wide Program (Haley & Aldrich,

2010c), with the exceptions described in Section 3.4. Field personnel followed the sampling and analysis requirements described in the WQSAPs. Stantec field personnel and subcontractors followed health and safety guidelines in Stantec's SSFL Health and Safety Plan (MWH, 2015a).

3.1 MODIFICATIONS TO WELL NETWORK AND EQUIPMENT

Well installation, development, and maintenance activities, and monitoring equipment modifications performed in 2017 are summarized in Table 2. Well and piezometer construction details are provided in Appendix A. Monitored wells were inspected for maintenance needs during each monitoring event in 2017.

The concrete pad (apron) at the corehole C-3 wellhead was damaged during demolition of the surrounding asphalt and concrete pavement. A new concrete apron and steel monument with a lockable lid were installed to secure and protect the C-3 wellhead.

Well RS-35 was installed in 2010 and continued to contain insufficient water for development and sampling in 2017. Therefore, development of this well was deferred until sufficient water is present.

3.2 WATER LEVEL GAUGING

Static water levels were gauged quarterly at all accessible program wells. Depths to water were measured from the top of each well casing. Conditions of the well (e.g., loose caps, damaged casing) were recorded in field logs. Wells were gauged using an electronic water-level meter. The portions of the meter's cable and probe that contact groundwater were decontaminated before use at each well.

Water level measurements for the year are summarized below and in Table 3, which also notes the reasons why certain wells were not gauged.

Quarter	Gauging Period	Number of Wells Scheduled for Gauging	Number of Wells Not Gauged
1	1/10/2017 – 2/1/2017	198	10
2	4/3/2017 – 4/5/2017	166	4
3	7/10/2017 – 8/2/2017	169	2
4	10/2/2017 – 10/4/2017	166	1

3.3 GROUNDWATER SAMPLING AND ANALYSIS

Monitoring wells are scheduled to be sampled semi-annually or annually in accordance with the WQSAPs. Groundwater samples were collected on January 17 through February 2, 2017 for the first quarter event. Groundwater samples were collected on July 17 through August 4, 2017 for the third quarter event.

Groundwater samples were collected to satisfy the requirements of the following programs and requests during the 2017 reporting period:

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- Regulated Unit Monitoring Program
    - 2010 Modified Post-Closure Permit (DTSC, 2010)
    - Regulated Unit WQSAP (Haley & Aldrich, 2010b)
- Site-Wide Groundwater Monitoring Program - Boeing 2017 Sitewide Program Groundwater Sampling and Gauging Plan (MWH, 2016c) as modified and approved by DTSC (DTSC, 2017a; Boeing, 2017), pursuant to the December 2010 Site-Wide WQSAP (Haley & Aldrich, 2010c)
- LUFT program
- DQO Evaluations under the Master RCRA Facility Investigation (RFI) Data Gap Work Plan (CH2M HILL, 2013)
- Verbal request from DTSC (DTSC, 2017b)

Groundwater field parameters collected during purging and prior to sample collection are presented in Table 4. Groundwater samples analyzed under the WQSAPs and for other purposes are presented in Table 5. The analytical methods are presented in Table 6.

3.3.1 Post-Closure Permit Regulated Unit Groundwater Monitoring Program

The Boeing PCP regulated unit monitoring program locations are presented in Table 1. There are five Boeing regulated unit surface impoundments at SSFL: Advanced Propulsion Test Facility (APTF)-1, APTF-2, Engineering Chemistry Laboratory (ECL), Systems Test Laboratory (STL)-IV-1, and STL-IV-2. The Boeing regulated unit surface impoundments and PCP regulated unit program monitoring locations are shown in Figure 4. The Boeing PCP regulated unit monitoring program (DTSC, 2010) includes 83 wells for gauging and sampling.

The Boeing PCP regulated unit monitoring program is comprised of the Evaluation Monitoring Program, Detection Monitoring Program, and Corrective Action Interim Measures (CAIM) Program.

3.3.1.1 Detection Monitoring Program

Under the Detection Monitoring Program for each regulated unit, wells are designated as Detection, Point of Compliance (POC), and/or Background wells. Respectively, these wells monitor for indications of a release from a regulated unit; the quality of groundwater passing a designated POC; and the quality of groundwater unaffected by releases from the regulated unit.

Groundwater samples were collected for the Boeing PCP Detection Monitoring Program for analysis of the following:

- Semi-annual Regulated-Unit-specific constituents of concern (COCs) at detection and POC wells.
- Annual Regulated-Unit-specific COCs at background monitoring wells.
- Annual background parameters at detection and background monitoring wells.
- Annual Appendix IX constituents at POC monitoring wells.

- Semi-annual Regulated-Unit-specific COCs at background monitoring wells for which there was an insufficient number of results to complete the development of proposed Concentration Limits.

3.3.1.2 Evaluation Monitoring Program

Evaluation Monitoring points are selected to monitor potential changes in groundwater quality caused by releases from the regulated unit. Under the Evaluation Monitoring Program, wells are designated as Evaluation Monitoring wells or Evaluation Monitoring – Affected Media wells.

Groundwater samples were collected for the Boeing PCP Evaluation Monitoring Program for analysis of the following:

- Semi-annual Regulated-Unit-specific COCs at evaluation monitoring wells.
- Annual Appendix IX constituents at evaluation monitoring wells in affected media.

3.3.1.3 Corrective Action Interim Measures Program

The Boeing PCP CAIM Program specifies that groundwater samples are to be collected semi-annually from designated CAIM wells that are currently connected to a treatment system and analyzed for all Regulated Unit COCs. No Boeing CAIM extraction wells were connected to a treatment system or active during 2017.

3.3.2 Site-Wide Groundwater Monitoring Program

The 2017 Site-Wide Groundwater Monitoring Program included 115 Boeing-sponsored groundwater monitoring locations for water level monitoring, with sampling and analysis at 53 locations (MWH, 2016c; DTSC, 2017a; Boeing, 2017). The 2017 Boeing Site-Wide Groundwater Monitoring Program locations are presented in Table 1 and Figure 5.

3.3.3 LUFT Program

The LUFT monitoring program locations are presented in Table 1 and Figure 5. Fourteen wells are scheduled for semi-annual sampling under the LUFT monitoring program.

3.3.4 Other Monitoring

DQO Evaluations

Data gap sampling was performed at 10 locations in support of the DQO Evaluations under the Master RCRA Facility Investigation Data Gap Work Plan (CH2M HILL, 2013) during 2017.

Seeps in the Vicinity of WS-09A

Boeing and NASA continue to work collaboratively on the management of the seeps in the vicinity of WS-09A as these seeps are of relevance to both NASA Area II and Boeing Area III (as well as the southern undeveloped land). Seep locations in the vicinity of WS-09A were inspected during the year to monitor for groundwater emergence; status reports are provided in Appendix B. Groundwater extraction from WS-09A ceased in January 2013 and the

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Area I Groundwater Extraction and Treatment (GET) System was shut off in April 2013 after conclusion of the RD-10 pumping test. To help mitigate groundwater emergence at seeps during operational downtime of extraction well WS-09A, nearby seeps are routinely monitored, and accumulated water associated with groundwater seepage that can be isolated from runoff from rain events is pumped and transported off site for disposal.

3.4 DEVIATIONS FROM WATER QUALITY SAMPLING AND ANALYSIS PLANS

Exceptions to the WQSAPs are presented in Table 7. These may include exceptions such as: wells not sampled due to lack of water present; insufficient water column for sampling; well or equipment damage or malfunction; access restrictions; incomplete analyses; stabilization parameter values not collected at fixed intervals; initial purge volume not met before stabilization parameters were collected; sampling flow rate differing from purging flow rate; and unmet quality assurance project plan (QAPP) requirements. No exceptions occurred in 2017 other than those listed in Table 7.

4.0 MONITORING RESULTS

This section provides an overview of 2017 groundwater level and quality results and trends. Historical data were summarized in previous reports by Groundwater Resources Consultants (GWRC, 2000), Haley & Aldrich (2001 through 2009a, 2010a) and MWH (2011a, 2011b, 2012, 2013, 2014a, 2015b, 2016a, 2017a).

4.1 GROUNDWATER ELEVATIONS AND FLOW CONDITIONS

Water level elevations for 2017 are presented in Table 3. Notes on Table 3 provide water level readings for monitoring locations equipped with Westbay multilevel systems. Water level hydrographs are provided in Appendix C.

Factors that may influence the occurrence and movement of groundwater include recharge from precipitation, water injection, and groundwater extraction. Annual precipitation data, and status reports for periodic observation and pumping of accumulated water (if present) from seeps in the vicinity of WS-09A are presented in Appendix B.

First-encountered, non-perched groundwater elevations, as determined from water levels measured during fourth quarter (October) 2017 are contoured in Figure 6. These fourth quarter 2017 groundwater elevation contours were developed collaboratively between Boeing, NASA, and DOE. Wells and piezometers that typically monitor perched groundwater were identified in the Draft Site-Wide Groundwater Remedial Investigation Report (MWH, 2009). Additional information that helped constrain the contouring included topography, the approximate elevations of identified seeps and springs, historical water level data for wells and piezometers not gauged during fourth quarter 2017, and the understanding that groundwater level discontinuities coincide with certain fault segments and other geologic structures. In the case of well clusters and multilevel systems, non-perched water levels from the shallowest wells and ports, respectively, were used. The data represent water levels primarily within the Chatsworth Formation, but include levels in younger deposits where the zone of saturation is continuous between these and underlying formations.

Non-perched groundwater elevations measured in Boeing SSFL monitoring wells during fourth quarter 2017 ranged from approximately 1,226 feet above mean sea level (MSL) at well RD-75 to about 1,845 feet above MSL at well RD-67 (Table 3, Figure 6). Groundwater levels in Chatsworth Formation wells during fourth quarter 2017 were generally similar to those in third quarter 2017 (MWH, 2017d; Appendix C).

The groundwater elevation contour map presented in Figure 6 is provided to satisfy, in part, the requirements of 22 CCR, section 66264.97 for determining the directions and rates of groundwater flow. In relatively simple hydrogeologic settings, such maps may be used to interpret the direction of groundwater flow. However, because of the hydrogeologic complexities at SSFL described in Section 2.2, the groundwater elevation contours depicted in Figure 6 are not used to infer groundwater flow directions or rates of groundwater movement. Estimates of three-dimensional groundwater flow are presented in the Draft Site-Wide Groundwater Remedial Investigation Report (MWH, 2009).

4.2 GROUNDWATER QUALITY

Laboratory analytical results for the groundwater samples are tabulated in Tables 11 through 20. Time series plots of analytical data for COCs identified in the PCP (DTSC, 2010) and the Site-Wide Groundwater Monitoring Program (Haley & Aldrich, 2010c) are provided in Appendix D. These time series plots include results through 2017 for principle COCs identified in the PCP (DTSC, 2010) and common to all Regulated Units, and constituents monitored under the Site-Wide Groundwater Monitoring Program (Haley & Aldrich, 2010c) per Boeing's 2017 Sitewide Program Groundwater Sampling and Gauging Plan (MWH, 2016c). Plots are not presented for COCs ammonia, xylenes, and total petroleum hydrocarbons (TPH); COCs specific to particular Regulated Units; and radiochemistry, metals, and dioxin and furan constituents, which are specific to the Site-Wide Groundwater Monitoring Program. New trends in groundwater chemical concentrations during 2017 are not visually evident in these time series plots.

Constituents detected for the first time in groundwater sampled from individual locations are presented in Table 9. New maximum concentrations of constituents previously detected in groundwater sampled from a particular location are presented in Table 10. Aside from these exceptions, the analytical results were within historical ranges (GWRC, 2000; Haley & Aldrich, 2001 through 2009a, 2010a; MWH, 2003, 2011a, 2011b, 2012, 2013, 2014a, 2015b, 2016a, 2017a). Analytical results that triggered PCP-required verification sampling are presented in Table 21 and discussed in Section 4.2.4.4.

Groundwater chemical concentration data from the 2017 reporting period are posted on chemical extent maps in Figures 7 through 23. These maps delineate areas of impacted groundwater for 17 chemicals. These chemicals were selected for mapping because they are COCs in the PCP Regulated Unit Monitoring Program and/or the Site-Wide Groundwater Monitoring Program and were selected for presentation on chemical extent maps in the Draft Site-Wide Groundwater Remedial Investigation Report (MWH, 2009).

4.2.1 Quality Assurance and Quality Control

Laboratory analytical reports for the 2017 reporting period are provided in Appendix E and the quality assurance assessment is presented in Appendix F. Per the WQSAPs, the quality assurance assessment provides an assessment of data quality including accuracy, precision, and completeness. The quality assurance assessment also includes the results of the data validation process, a summary of the field sampling and analytical program, the data management review procedure, and the data verification process.

4.2.2 Groundwater Reference Values

The groundwater sampling results for individual chemicals are compared for discussion purposes to the following reference values, listed in approximate descending order of importance and/or relevance:

- Site-specific groundwater comparison concentrations for metals and selected inorganic compounds developed by DTSC (MWH, 2014b) (identified as "SSFL Comparison" in report tables).
- Isotope-specific activity limits for individual beta/photon emitters based on the effective dose equivalent of 4 millirems per year (mrem/yr) (Federal Register, 2000).

- Primary Maximum Contaminant Levels (MCLs) established by the EPA and promulgated by the Safe Drinking Water Act (SDWA); and the California State Water Resources Control Board (SWRCB) Division of Drinking Water promulgated by 22 CCR, sections 64431 through 64449 and 64672 (SWRCB, 2014; SWRCB, 2016) (identified as Primary MCL and Cal MCL in report tables).
- Notification Levels (NL)/Advisory Levels established by the California SWRCB (SWRCB, 2015a, 2015b, 2016).
- Secondary Maximum Contaminant Levels (SMCLs), which address aesthetics, such as taste and odor (SWRCB, 2006, 2016; USEPA, 2009) (identified as Secondary MCL in report tables).
- Taste and Odor Threshold (SWRCB, 2016) (identified as Taste/Odor in report tables).
- Site-specific values developed for SSFL using risk assessment procedures assuming direct ingestion of groundwater (identified as SWGW RBSL [site-wide groundwater risk-based screening level] in report tables).

For chemicals with more than one reference value, the lower value is used in order to be more conservative. For example, when EPA and California SWRCB MCL values differ, the lower value is used, and in cases where the SMCL is lower than the Primary MCL, the SMCL is used.

The methodology used to develop risk-based screening values for non-metals and chemicals without agency-published values is described in a technical memorandum included in Appendix 7-C of the Draft Site-Wide Groundwater Remedial Investigation Report (MWH, 2009). Groundwater reference values are presented in Table 8.

4.2.3 Areas of Impacted Groundwater

Chemical concentration data from the 2017 reporting period are posted on chemical extent maps in Figures 7 through 23. These maps show areas of impacted groundwater for 17 chemicals. NASA and DOE provided their interpreted areas of impacted groundwater for their respective portions of SSFL as presented in these figures for informational purposes. These chemicals were selected for mapping because they are COCs in the PCP Regulated Unit Monitoring Program or the Site-Wide Groundwater Monitoring Program; are generally more widely distributed than solitary, spatially isolated detections; and were presented on chemical extent maps in the Draft Site-Wide Groundwater Remedial Investigation Report (Draft Groundwater RI Report; MWH, 2009) based on a comprehensive site-wide evaluation of the presence and extents of chemicals in groundwater.

Maps of impacted groundwater were presented in the Draft Groundwater RI Report for chemicals that exceeded groundwater reference values at five or more locations between the third quarter of 2007 and the second quarter of 2008, and chemicals that exceeded reference values at five or more locations historically (through second quarter 2008), but for which there was little or no recent data. Chemicals were not mapped if (a) recent data indicate they are not present at concentrations above reference values, though they may have been historically (e.g., 1,1,1-trichloroethane, chloroform, and benzene); (b) they are common laboratory contaminants (e.g., methylene chloride and bis[2-ethylhexyl]phthalate]); or (c) they are naturally occurring without a known site-related anthropogenic source (e.g., sulfate), even if concentrations exceed reference values at five or more locations.

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The 2017 analytical results were evaluated to identify any additional chemicals for which a chemical extent map was warranted according to the criteria used in the Draft Groundwater RI Report. No additional chemicals were identified for presentation on a chemical extent map.

The chemical extent maps in the Draft Groundwater RI Report serve as a baseline for evaluating whether more recent monitoring results affect the interpreted areas of impacted groundwater. Adjustments to the areas of impacted groundwater are made each year as new data are collected. The chemical extent boundaries for each chemical are defined by the groundwater reference values listed in Table 8. The maximum concentrations at each location from samples collected in 2017 are posted for each chemical and the locations are color-coded to indicate whether the chemical was detected above the reference value, was detected below the reference value, or was not detected. For locations that were not sampled in 2017, the most recent historical result is posted along with the date the sample was collected.

Isoconcentration lines equal to reference values for selected chemicals in groundwater are depicted in Figures 7 through 23 based on current and historical sampling results and professional judgment, particularly for chemicals that are transformation or daughter products of biological or abiotic processes (e.g., cis-1,2-dichloroethene [cis-1,2-DCE] produced from the biological transformation of trichloroethene [TCE]). The reference-value isoconcentration lines represent the interpreted map-view extent of impacted groundwater based on all available data, not just the most recent reporting period.

The mapped areas of impacted groundwater have been adjusted in Boeing areas based on the 2017 results as follows:

Trichloroethene (Figure 7)

- The area of trichloroethene- (TCE) impacted groundwater at the Systems Test Laboratory IV (STL-IV) RFI Site was extended slightly to the south due to exceedance of the 5 µg/L reference value at seep cluster well SP-881A at a concentration of 23 µg/L (sampling and analysis performed by NASA). This area of TCE-impacted groundwater was also extended slightly to the east by NASA at the Delta RFI site to encompass the reference-value exceedance at well ND-116 at a concentration of 6 µg/L.

Tetrachloroethene (Figure 8)

- The area of tetrachloroethene- (PCE) impacted groundwater at piezometer PZ-037 at the STL-IV RFI Site was removed for reasons described in the Boeing Site-wide Groundwater RCRA Facility Investigation Report (MWH, 2017b).

cis-1,2-Dichloroethene (Figure 9)

- The area of cis-1,2-dichloroethene- (cis-1,2-DCE) impacted groundwater at the Compound A RFI Site is now shown merged with the formerly-separate area of cis-1,2-DCE-impacted groundwater at the Delta RFI site in the vicinity of well HAR-17 to be consistent with NASA's preferred extent interpretation within Area II.

trans-1,2-Dichloroethene (Figure 10)

- Areas of trans-1,2-dichloroethene- (trans-1,2-DCE) impacted groundwater were added at the Component Test Laboratory III (CTL-III) and Area I Landfill RFI Sites due to exceedance of the 10 µg/L reference value at wells RD-46A and RD-129, at concentrations of 16 µg/L and 16 J µg/L, respectively.

Vinyl Chloride (Figure 11)

- An area of vinyl chloride-impacted groundwater was added at the CTL-III RFI Site due to exceedance of the 0.5 µg/L reference value at well RD-46A at a concentration of 1.3 µg/L.

1,1-Dichloroethene (Figure 12)

- An area of 1,1-dichloroethene- (1,1-DCE) impacted groundwater was added at the CTL-III RFI Site due to exceedance of the 6 µg/L reference value at well RD-46A at a concentration of 6.5 µg/L.

1,2-Dichloroethane (Figure 13)

No adjustments to Boeing areas of 1,2-dichloroethane- (1,2-DCA) impacted groundwater were required based on 2017 sampling results.

1,1-Dichloroethane (Figure 14)

No adjustments to Boeing areas of 1,1-dichloroethane- (1,1-DCA) impacted groundwater were required based on 2017 sampling results.

1,4-Dioxane (Figure 15)

The reference value for 1,4-dioxane was lowered from 3 µg/L to 1 µg/L since the draft groundwater RFI report (MWH, 2009) was prepared. Delineated areas of groundwater impacted by 1,4-dioxane in the draft groundwater RFI report used the old reference value, whereas the adjusted chemical extent boundaries in the 2010 through 2016 and current annual reports (MWH, 2011a, 2012, 2013, 2014a, 2015b, 2016a, 2017a) use the new reference value.

No adjustments to Boeing areas of 1,4-dioxane-impacted groundwater were required based on 2017 sampling results.

Carbon Tetrachloride (Figure 16)

- The areas of carbon tetrachloride-impacted groundwater at wells HAR-16 and ES-24 at the Advanced Propulsion Test Facility (APTF) and Compound A RFI Sites, respectively, were removed for reasons described in the Boeing Site-wide Groundwater RCRA Facility Investigation Report (MWH, 2017b).

1,2,3-Trichloropropane (Figure 17)

- The area of 1,2,3-trichloropropane- (1,2,3-TCP) impacted groundwater at the RD-36 well cluster near the B-1 RFI Site was removed for reasons described in the Boeing Site-wide Groundwater RCRA Facility Investigation Report (MWH, 2017b).

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Formaldehyde (Figure 18)

No adjustments to Boeing areas of formaldehyde-impacted groundwater were required based on 2017 results. The formaldehyde reference value (100 µg/L) exceedance at well RD-48C in the Southern Undeveloped Land at a reported concentration of 110 µg/L is not shown within a bounded extent of formaldehyde-impacted groundwater because this result is believed to be unrepresentative of actual conditions at this location for reasons discussed in Section 4.2.5.1 of this report.

Total Petroleum Hydrocarbons C4-C30 (Figure 19)

- The area of total petroleum hydrocarbons- (TPH) impacted groundwater at piezometer PZ-050 at the Environmental Effects Laboratory (EEL) RFI Site was removed for reasons described in the Boeing Site-wide Groundwater RCRA Facility Investigation Report (MWH, 2017b).
- The TPH reference value (100 µg/L DRO) exceedance at well RD-45B at the Laser Engineering Test Facility/Component Test Laboratory I (LETF/CTL-I) RFI Site is not shown within a bounded extent of TPH-impacted groundwater because this result is unrepresentative of the typical conditions at this location as further discussed in Section 4.2.5.1 of this report.
- First-time and/or suspect TPH reference value exceedances at Boeing wells PZ-122 (sampled for TPH by DOE in 2017), RD-37, and RD-46A at the Process Development Unit (PDU), B-1, and CTL-III RFI Sites, respectively, are not shown within bounded extents of TPH-impacted groundwater. Bounded TPH extent areas may be added at these locations in the future if there are consistent TPH reference value exceedances in future sampling results.

n-Nitrosodimethylamine (Figure 20)

- The area of n-nitrosodimethylamine- (NDMA) impacted groundwater at off-site well OS-24 located northeast of the B-1 RFI Site was removed for reasons described in the Boeing Site-wide Groundwater RCRA Facility Investigation Report (MWH, 2017b).

Perchlorate (Figure 21)

No adjustments to Boeing areas of perchlorate-impacted groundwater were required based on 2017 sampling results.

Nitrate (Figure 22)

- The area of nitrate-impacted groundwater at well RS-03 at the LETF/CTL-I RFI Site was removed for reasons described in the Boeing Site-wide Groundwater RCRA Facility Investigation Report (MWH, 2017b).

Fluoride (Figure 23)

- The areas of fluoride-impacted groundwater at well RS-03 and the RD-36 well cluster, located at the LETF/CTL-I RFI Site and near the B-1 RFI Site, respectively, were removed for reasons described in the Boeing Site-wide Groundwater RCRA Facility Investigation Report (MWH, 2017b).

4.2.4 Regulated Unit Groundwater Monitoring Program

Proposed statistical methods and resultant proposed Concentration Limits for COCs at regulated units were developed following completion of the first year of monitoring under the 2010 Modified PCP and were presented in the first quarter 2011 groundwater monitoring progress report (MWH, 2011c). DTSC approved the process for developing Concentration Limits for COCs at SSFL regulated units in its February 17, 2012 letter to Boeing (DTSC, 2012). Proposed Concentration Limits for COCs at SSFL regulated units were re-evaluated using the dataset for the period from second quarter 2010 through 2011 and were presented in the 2011 annual report (MWH, 2012), and again using the dataset for the period from second quarter 2010 through 2013 and were presented in the 2013 annual report (MWH, 2014a). Discussion between Boeing and DTSC regarding the proposed concentration limits is ongoing.

Each of the regulated unit program areas is shown on the chemical extent maps (Figures 7 through 23).

4.2.4.1 Detection Monitoring Program

4.2.4.1.1 Background/Concentration Limits

The evaluation for development of proposed background concentrations to be used as Concentration Limits for each constituent of concern (COC) at each regulated unit is presented in Appendix G of the 2013 annual report (MWH, 2014a).

4.2.4.1.2 Statistical Evaluation

After the proposed regulated unit-specific Concentration Limits presented in Appendix G of the 2013 annual report (MWH, 2014a) are approved, subsequent results collected from regulated unit compliance monitoring locations will be compared to the concentration limits for each COC at each regulated unit to evaluate compliance.

4.2.4.2 Evaluation Monitoring Program

4.2.4.2.1 Data Evaluation

Data collected from regulated unit Evaluation Monitoring Program wells are used to help assess the nature and extent of the release from each regulated unit, including the spatial distribution and concentration of each COC.

4.2.4.3 Corrective Action Interim Measure Monitoring Program

No CAIM monitoring program wells were connected to treatment systems or active during 2017.

4.2.4.4 2017 Verification Sampling

The results of 2017 verification sampling and analyses are presented in Table 21. Verification groundwater samples were collected and analyzed during the sampling event following detections in samples from Regulated Unit Program wells of Appendix IX list analytes not already on the COC list for the corresponding regulated unit to confirm if these analytes are reliably detectable in groundwater samples from these locations. Verification samples typically include

primary, field duplicate, split, and field blank samples. Equipment rinsate samples are also collected and analyzed in cases where non-dedicated sampling equipment is used.

Results of verification sampling and analysis conducted during 2017 indicated that detection of the targeted constituents was not consistently repeatable in consecutive groundwater samples.

4.2.4.5 Proposed First Quarter 2018 Verification Sampling

Table 22 presents the proposed first quarter 2018 verification sampling required based on previous results to confirm whether select constituents are reliably detectable in groundwater samples. Most of these verification sampling requirements arise from first quarter 2015 or earlier sampling results for which verification sampling has not yet been performed because the wells have not contained sufficient water for sampling since the time of the detection requiring verification.

4.2.5 Analytical Results

During the 2017 reporting period, analytes in groundwater samples collected at SSFL were not detected, or were detected at concentrations consistent with historical concentrations, with exceptions identified in Tables 9 and 10. These exceptions generally lie within the following categories:

- First-time detection and first-time analysis; results of analyses performed for the first time are indicated by an asterisk in Table 9.
- First-time detection and the concentration is less than half the reference value or is near the method detection limit (MDL) or minimum detectable activity (MDA) and: 1) there is only a recent sampling history (small total number of analyses for that constituent), 2) the constituent is a common field or laboratory contaminant, or 3) the constituent is a naturally-occurring compound.
- First-time detect and lower MDL or MDA compared to historical results.
- First-time detect at a well in an area of impacted groundwater, and the constituent is a daughter product of another constituent known to be present at that location, or is otherwise consistent with other compounds previously detected at that location.
- First-time detect or new maximum concentration is consistent with data from other nearby wells.
- New maximum concentration only slightly exceeds previous maximum, and a clear increasing trend is not apparent.
- The particular hydrocarbon chain reporting range for a first-time or new TPH detect varies from the hydrocarbon chain reporting range of previous TPH analyses.
- Detection not repeatable in consecutive sampling events, or not consistent between primary, duplicate, and split sample results.

- Combinations of the above.

The few cases for which there are insufficient historical data to provide further context for the recent results or that otherwise warrant further discussion are presented below, with on-site results (excluding radiochemical constituents) discussed in Section 4.2.5.1, off-site results (excluding radiochemical constituents) discussed in Section 4.2.5.2, radiochemistry results discussed in Section 4.2.5.3, and follow-up discussion of selected 2016 results highlighted in the 2016 annual report (MWH, 2017a) discussed in Section 4.2.5.4.

4.2.5.1 On-site Results

Constituent concentrations (except for radiochemical constituents, which are discussed separately in Section 4.2.5.3) detected in groundwater samples collected from on-site Boeing wells in 2017 that were inconsistent with historical data fell within the categories listed in Section 4.2.5 and were unremarkable, or are discussed in more detail below:

- 1,2,3-Trichloropropane (1,2,3-TCP) was detected for the first time at on site monitoring well RD-48C, located in the Southern Undeveloped Land, in the sample collected during first quarter 2017 at an estimated concentration of 0.0017 J micrograms per liter (µg/L), below the groundwater reference value (Notification Level) of 0.005 µg/L (Table 8). 1,2,3-TCP was not detected in 14 previous samples from RD-48C, and this first-time detection was reported at an estimated concentration equal to the MDL. It is unlikely that 1,2,3-TCP is actually present in groundwater at this undeveloped location where there were no historical site operations, and where there is no significant source of 1,2,3-TCP beneath former on-site operational areas in the southwest portion of Boeing Area I located hydraulically up gradient from RD-48C. 1,2,3-TCP was not detected at RD-48C in the third quarter 2017 sample, further suggesting that the reported detection in first quarter 2017 was spurious.

- Hydrazine was also detected for the first time at well RD-48C in first quarter 2017 at an estimated concentration of 2.2 J µg/L, far below the groundwater reference value (taste/odor threshold) of 160,000 µg/L (Table 8). Hydrazine was not detected in 16 previous samples from RD-48C. Hydrazine has generally been found not to be present in SSFL groundwater, having been detected at similarly low estimated concentrations only 8 times in a total of 869 groundwater samples. The analytical methods for hydrazine are challenging even with the most modern laboratory instrumentation, and these 8 reported low level detections are most likely false positives. Hydrazine was not detected at RD-48C in third quarter 2017, further supporting that the reported detection in first quarter 2017 was spurious.

- Diesel-range organics (DRO) (C21-C30 and C8-C30) were detected at well RD-45B at estimated concentrations of 0.12 J and 0.14 J milligrams per liter (mg/L), respectively. These estimated concentrations are above the groundwater reference value (taste/odor threshold) of 0.1 mg/L (Table 8). DRO has been detected at RD-45B above this reference value on two previous occasions, but has not been detected in most of the historical samples (with various detection limits below 0.1 mg/L). The current DRO detection is within the historic range of the small number of previously detected concentrations at well RD-45B, but is not representative c of the conditions more typically observed at this location with respect to DRO. In general, although there have been occasional DRO detections in excess of the groundwater reference value, DRO is most often not detected at this location. RD-45B is scheduled for continued semi-annual sampling as part of Boeing's Regulated Unit monitoring program.

- Formaldehyde was detected at well RD-48C at a concentration of 110 µg/L, exceeding the groundwater reference value (Notification Level) of 100 µg/L for the first time at this location. Previous occasional detections of formaldehyde at RD-48C were at estimated concentrations in the range of 7.7 J to 16 J µg/L, and may have been a result of naturally occurring organic processes or cross-contamination. In the case of the third quarter 2017 detection, formaldehyde was also detected in the associated laboratory method blank, but at a concentration that the data validators deemed insufficient to indicate cross-contamination as the sole source of formaldehyde in the RD-48C sample. However, the data validators did determine that the initial laboratory-estimated 50 JB µg/L formaldehyde detection in adjacent well RD-48B was caused by cross-contamination based on that same laboratory method blank detection (the "B" laboratory qualifier indicates blank contamination), hence the final reported formaldehyde result for RD-48B was a non-detect at an elevated detection limit equal to the initial estimated result value (i.e., final reported result is 50 U µg/L; see Table 10). In accordance with the data validation guidelines, the 110 µg/L formaldehyde detection in the sample from RD-48C was not similarly attributed entirely to cross-contamination because of the higher ratio of sample concentration to method blank concentration. Nevertheless, it is most likely that at least much of the formaldehyde detected in the RD-48C sample resulted from cross-contamination, and that formaldehyde present in the groundwater at this location, if any, was at a concentration far below the groundwater reference value. Formaldehyde is scheduled for continued semi-annual sampling as part of Boeing's Regulated Unit monitoring program.

4.2.5.2 Off-site Results

Constituent concentrations (except for radiochemical constituents, which are discussed separately in Section 4.2.5.3) detected in groundwater samples collected from off-site wells in 2017 that were inconsistent with historical data fell within the categories listed in Section 4.2.5 and were unremarkable. The results of off-site sample analyses performed at the request of DTSC are discussed in further detail below:

- At the verbal request of DTSC (DTSC, 2017b), samples collected from off-site well OS-09R were analyzed for perchlorate. Perchlorate was not detected in primary, field duplicate, or split samples collected from Port-01 of the Westbay multilevel system in OS-09R, with MDLs up to more than three orders of magnitude below the California Maximum Contaminant Level for Drinking Water (MCL) of 6 µg/L. Perchlorate has never been detected at OS-09R.

4.2.5.3 Radiochemistry Results

Radiochemistry analyses performed during the 2017 reporting period are presented in Table 17 and discussed further below.

Beginning in third quarter 2010, radiochemistry analyses (except for tritium) of Site-Wide Program and other groundwater samples were performed using the approach described in EPA's Area IV Radiochemistry Study QAPP (HydroGeoLogic [HGL], 2010). In short, this approach involves filtering at the laboratory followed by separate analysis of the liquid filtrate and the solid residue captured by the filter. Each of the results has its own associated error and MDA. This approach was incorporated into the 2010 Site-Wide WQSAP (Haley & Aldrich, 2010c).

Radiochemistry constituents detected for the first time in groundwater at individual locations are presented in Table 9 and those previously detected in groundwater at a particular location but reported at a new maximum concentration are presented in Table 10. Comparison of radiochemistry results obtained using the new analytical approach (with separate analysis of liquid filtrate [dissolved] and solid residue [particulate]) to historical results may not be representative, especially for the particulate results. Any new detections or new maximums may be due, at least in part, to the change in sample preparation and analysis methodology first implemented in third quarter 2010, or to the comparison with historical data obtained using other methods.

Any radiochemical constituent activity levels detected in groundwater samples in 2017 that were inconsistent with historical data fell within the categories listed in Section 4.2.5 and were unremarkable.

4.2.5.4 2016 Results Follow-up

Follow-up discussion for select results highlighted in Boeing's 2016 annual report (MWH, 2017a) is provided below. The sampling and analyses performed in 2017 provided sufficient resolution of these 2016 results and did not indicate a need for changes to the groundwater monitoring programs.

- It was noted that in 2016 a pattern of inconsistent n-nitrosodimethylamine (NDMA) detections was evident at the seep cluster wells that had been sampled and analyzed for this compound (MWH, 2017a). At that time, it was unclear whether these detections were representative of the range of conditions at those locations, or if NDMA is sometimes detected as a contaminant perhaps introduced during sampling, at the laboratory, from some material used in construction of the seep cluster wells, or from some other source. NDMA was not detected in any of the 15 seep cluster wells sampled and analyzed for NDMA in 2017 (13 of these were sampled by NASA). These 2017 non-detect results included four locations (SP-27C, SP-881G, SP-882G and SP-890G) at which NDMA was detected in at least one sample during 2016. These results further suggest that the prior inconsistent NDMA detections at seep cluster wells may have been associated with cross-contamination by NDMA introduced during sampling, at the laboratory, from well materials of construction, or from some other source.

- Acetone was detected for the first time at off-site seep cluster wells SP-737B and SP-737C in first quarter 2016 at the same estimated concentration of 3.5 J µg/L. This estimated concentration is about four orders of magnitude below the groundwater reference value (taste/odor threshold) of 20,000 µg/L (Table 8). Acetone has generally been found not to be present in SSFL groundwater, and acetone is a common laboratory contaminant. Acetone was not detected in three previous samples from each of these two seep cluster wells and was not detected in the third quarter 2017 samples collected from these wells, further suggesting that the low-level detections in 2016 were likely false positives resulting from laboratory contamination.

- Acetone was detected at seep cluster well SP-22D (Table 10), and methyl ethyl ketone (MEK) was detected for the first time at seep cluster wells SP-22C and SP-22D (Table 9) in third quarter 2016 at concentrations up to about two orders of magnitude below their respective groundwater reference values (Table 8). Both of these chemicals are common laboratory contaminants and have generally been found not to be present in SSFL groundwater. MEK was not detected in any of the samples collected from the SP-22 cluster wells in 2017, further indicating that the 2016 detections were spurious. Acetone was not detected in any of the first

quarter 2017 samples collected from the SP-22 well cluster, but was detected in all four SP-22 seep cluster wells in third quarter 2017 at concentrations from an estimated 5.9 J to 11 µg/L. Given the lack of detections in the first quarter 2017 samples, and the similarity of the low-level concentrations detected in all of the third quarter 2017 SP-22 cluster well samples, it is strongly suspected that laboratory contamination is the source of these acetone detections.

- 1,1-Dimethylhydrazine was detected for the first time at off-site well RD-43B in third quarter 2016 at an estimated concentration of 9.2 J µg/L; there is no regulatory reference concentration for this compound. 1,1-Dimethylhydrazine has generally been found not to be present in SSFL groundwater and was not detected in 16 previous samples collected from RD-43B. 1,1-Dimethylhydrazine was not detected in the first or third quarter 2017 samples collected from RD-43B, further indicating that the 2016 detection was likely a false positive.

5.0 2018 PLANNED ACTIVITIES

The next sampling event will be performed during first quarter 2018. In accordance with the Boeing PCP and WQSAPs, the monitoring frequency for Regulated Unit Program wells during 2018 will be annual for background general water quality parameters, and semi-annual for COCs except at background monitoring locations at which the monitoring frequency will be annual for COCs. Annual sampling is performed in the first calendar quarter. For Regulated Units with less than four background well results for certain COCs, semi-annual sampling and analysis for those COCs will continue until at least four background well results for each COC have been acquired. The monitoring frequency for the Site-Wide Program will be quarterly for water level monitoring, with sampling and analysis performed annually in the first calendar quarter, or semi-annually in the first and third calendar quarters in accordance with the Boeing 2018 Site-Wide Program Groundwater Sampling and Gauging Plan as modified and approved by DTSC (MWH, 2017c; DTSC, 2018).

The monitoring well networks included in the Boeing Regulated Unit and Site-Wide Programs were evaluated in compliance with the requirements of the Boeing PCP and WQSAPs. The 2017 groundwater monitoring results and prior sampling history support the changes to the Boeing Site-Wide Program proposed in the Boeing 2018 Site-Wide Program Groundwater Sampling and Gauging Plan as modified and approved by DTSC (MWH, 2017c; DTSC, 2018). The 2017 monitoring results do not indicate a need for any other changes to Boeing's groundwater monitoring programs in order to continue providing effective monitoring of groundwater conditions in Boeing areas at SSFL.

5.1 OUTSTANDING ISSUES AND FOLLOW-UP WORK

Well development at RS-35 could not be completed due to insufficient water. Development will be attempted when sufficient water is observed in the well.

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TABLES

TABLE 1
LIST OF WELLS AND MONITORING PROGRAMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Previous Well ID	Post-Closure Permit Regulated Unit Monitoring Program [1,2]									Site-Wide Monitoring Program [3]		LUFT Monitoring Program
		Permit for	Regulated Unit	POC	Bkgd	DM	EM	EM (aff)	CAIM	CAIM status	2017 Sampling Program [4,5]	2017 Water Level Monitoring Program [4,5]	
C-3											X	X	
ECL-FD		Areas I & III	Other Extraction Wells						X	not active			
ECL Sump		Areas I & III	Other Extraction Wells						X	not active			
ES-01		Areas I & III	Other Extraction Wells						X	not active	X		
ES-02												X	
ES-03		Areas I & III	Other Extraction Wells						X	not active			
ES-04		Areas I & III	Other Extraction Wells						X	not active			
ES-05		Areas I & III	Other Extraction Wells						X	not active			
ES-06		Areas I & III	Other Extraction Wells						X	not active	X		
ES-07		Areas I & III	Other Extraction Wells						X	not active			
ES-08												X	
ES-09												X	
ES-10												X	
ES-11		Areas I & III	Other Extraction Wells						X	not active			
ES-12												X	
ES-13												X	
ES-14		Areas I & III	Other Extraction Wells						X	not active	X		
ES-15												X	
ES-16												X	
ES-17		Areas I & III	STL-IV-1	X		X	X	X	X	not active			
		Areas I & III	STL-IV-2		X								
ES-23		Areas I & III	Other Extraction Wells						X	not active			
ES-24		Areas I & III	Other Extraction Wells						X	not active			
ES-25												X	
ES-26		Areas I & III	STL-IV-1		X				X	not active			
ES-27		Areas I & III	STL-IV-1				X	X	X	not active			
ES-28												X	
ES-29											X	X	
ES-30		Areas I & III	Other Extraction Wells						X	not active			
ES-31												X	
ES-32		Areas I & III	Other Extraction Wells						X	not active			

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		Permit for	Regulated Unit	POC	Bkgd	DM	EM	EM (aff)	CAIM	CAIM status	2017 Sampling Program [4,5]	2017 Water Level Monitoring Program [4,5]	
HAR-01		Areas I & III	APTF-1, APTF-2				X	X					
HAR-02		Areas I & III	APTF-1	X		X	X	X					
HAR-03		Areas I & III	APTF-1, APTF-2				X	X					
HAR-04		Areas I & III	APTF-2				X	X	X	not active			
HAR-16		Areas I & III	APTF-1, APTF-2	X		X	X	X	X	not active			
HAR-17		Areas I & III	Other Extraction Wells						X	not active			
HAR-18		Areas I & III	Other Extraction Wells						X	not active			
HAR-24												X	
HAR-25		Areas I & III	APTF-1, APTF-2				X						
HAR-26		Areas I & III	ECL				X	X					
HAR-32		Areas I & III	STL-IV-1, STL-IV-2				X						
HAR-33		Areas I & III	STL-IV-1				X	X					
HAR-34												X	
OS-09R Port-01											X	X	
OS-13											X		
OS-24												X	
OS-25											X	X	
OS-26												X	
PZ-035		Areas I & III	STL-IV-2				X	X					
PZ-074											X	X	
PZ-076											X	X	
PZ-077											X	X	
PZ-089		Areas I & III	APTF-2	X		X	X	X					
PZ-123											X	X	
RD-01		Areas I & III	Other Extraction Wells						X	not active	X		
RD-02		Areas I & III	Other Extraction Wells						X	not active	X		
RD-03		Areas I & III	APTF-1, APTF-2				X						
RD-06		Areas I & III	STL-IV-1, STL-IV-2				X						
RD-08		Areas I & III	ECL				X	X					
RD-10											X	X	
RD-11		Areas I & III	ECL				X	X					

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		Permit for	Regulated Unit	POC	Bkgd	DM	EM	EM (aff)	CAIM	CAIM status	2017 Sampling Program [4,5]	2017 Water Level Monitoring Program [4,5]	
RD-12		Areas I & III	ECL				X	X					
RD-13											X	X	
RD-15												X	
RD-16												X	
RD-18											X	X	
RD-31												X	
RD-32											X	X	X
RD-35A												X	
RD-35B												X	
RD-36A		Areas I & III	APTF-1, APTF-2				X						X
RD-36B		Areas I & III	APTF-1, APTF-2				X						X
RD-36C		Areas I & III	APTF-1, APTF-2				X						X
RD-36D		Areas I & III	APTF-1, APTF-2				X						X
RD-37		Areas I & III	APTF-1, APTF-2				X						X
RD-38A		Areas I & III	APTF-1, APTF-2				X						X
RD-38B		Areas I & III	APTF-1, APTF-2				X						X
RD-39A		Areas I & III	APTF-1, APTF-2				X						
RD-39B		Areas I & III	APTF-1, APTF-2				X						
RD-43A		Areas I & III	APTF-1, APTF-2				X						
RD-43B		Areas I & III	APTF-1, APTF-2				X						
RD-43C		Areas I & III	APTF-1, APTF-2				X						
RD-44											X	X	
RD-45A		Areas I & III	APTF-1, APTF-2				X						
RD-45B		Areas I & III	APTF-1, APTF-2				X						
RD-45C		Areas I & III	APTF-1, APTF-2				X						
RD-46A		Areas I & III	APTF-1, APTF-2				X						
RD-46B		Areas I & III	APTF-1, APTF-2				X						
RD-47												X	
RD-48A		Areas I & III	APTF-1, APTF-2				X						
RD-48B		Areas I & III	APTF-1, APTF-2				X						
RD-48C		Areas I & III	APTF-1, APTF-2				X						

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Well ID	Previous Well ID	Post-Closure Permit Regulated Unit Monitoring Program [1,2]									Site-Wide Monitoring Program [3]		LUFT Monitoring Program
		Permit for	Regulated Unit	POC	Bkgd	DM	EM	EM (aff)	CAIM	CAIM status	2017 Sampling Program [4,5]	2017 Water Level Monitoring Program [4,5]	
RD-50											X	X	
RD-51A		Areas I & III	APTF-1, APTF-2				X						
RD-51B		Areas I & III	APTF-1, APTF-2				X						
RD-51C		Areas I & III	APTF-1, APTF-2				X						
RD-52A		Areas I & III	APTF-1, APTF-2				X						
RD-52B		Areas I & III	APTF-1, APTF-2				X						
RD-52C		Areas I & III	APTF-1, APTF-2				X						
RD-53		Areas I & III	APTF-1, APTF-2				X						X
RD-55A		Areas I & III	STL-IV-1, STL-IV-2				X						
RD-55B		Areas I & III	STL-IV-1, STL-IV-2				X						
RD-58A		Areas I & III	STL-IV-1, STL-IV-2				X						
RD-58B		Areas I & III	STL-IV-1, STL-IV-2				X						
RD-58C		Areas I & III	STL-IV-1, STL-IV-2				X						
RD-61											X	X	
RD-62											X	X	
RD-66											X	X	
RD-67												X	
RD-71												X	
RD-72												X	
RD-73												X	X
RD-75											X	X	
RD-76											X	X	
RD-77		Areas I & III	APTF-1, APTF-2		X								
RD-78											X	X	
RD-84												X	
RD-85											X	X	
RD-86											X	X	
RD-92												X	
RD-99												X	
RD-100												X	
RD-103 QA-15											X	X	

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VENTURA COUNTY, CALIFORNIA

Well ID	Previous Well ID	Post-Closure Permit Regulated Unit Monitoring Program [1,2]									Site-Wide Monitoring Program [3]		LUFT Monitoring Program
		Permit for	Regulated Unit	POC	Bkgd	DM	EM	EM (aff)	CAIM	CAIM status	2017 Sampling Program [4,5]	2017 Water Level Monitoring Program [4,5]	
RD-120 QA-10											X	X	
RD-121											X	X	
RD-129											X	X	
RD-130											X	X	
RD-131											X	X	
RD-147											X	X	
RS-01												X	X
RS-02												X	
RS-03												X	
RS-04												X	
RS-05												X	
RS-06												X	
RS-07		Areas I & III	APTF-1, APTF-2				X						
RS-09												X	
RS-11												X	
RS-12												X	
RS-13		Areas I & III	STL-IV-1, STL-IV-2				X						
RS-14		Areas I & III	STL-IV-2			X	X	X					
RS-15												X	
RS-17												X	
RS-19												X	
RS-23												X	
RS-24												X	
RS-30												X	X
RS-31												X	X
RS-32												X	X
RS-33	PC-01	Areas I & III	STL-IV-2	X		X	X	X					
RS-35	PZ-003	Areas I & III	APTF-1, APTF-2		X								
RS-41											X	X	
SH-01												X	
SH-02		Areas I & III	ECL			X							

TABLE 1
LIST OF WELLS AND MONITORING PROGRAMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Previous Well ID	Post-Closure Permit Regulated Unit Monitoring Program [1,2]									Site-Wide Monitoring Program [3]		LUFT Monitoring Program
		Permit for	Regulated Unit	POC	Bkgd	DM	EM	EM (aff)	CAIM	CAIM status	2017 Sampling Program [4,5]	2017 Water Level Monitoring Program [4,5]	
SH-03		Areas I & III	ECL	X		X	X	X					
SH-04		Areas I & III	ECL				X	X					
SH-05												X	
SH-06												X	
SH-07		Areas I & III	ECL		X								
SH-08												X	
SH-09		Areas I & III	ECL			X	X	X					
SH-10												X	
SH-11		Areas I & III	ECL				X	X					
SP-12											X	X	
SP-22A											X	X	
SP-22B											X	X	
SP-22C											X	X	
SP-22D											X	X	
SP-27A											X	X	
SP-27B											X	X	
SP-27C											X	X	
SP-27D											X	X	
SP-27E											X	X	
SP-424A											X	X	
SP-424B											X	X	
SP-424C											X	X	
SP-737A											X	X	
SP-737B											X	X	
SP-737C											X	X	
SP-881A											X	X	
SP-881B											X	X	
SP-881C											X	X	
SP-881D											X	X	
SP-881G											X	X	
SP-882A											X	X	

TABLE 1
LIST OF WELLS AND MONITORING PROGRAMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Previous Well ID	Post-Closure Permit Regulated Unit Monitoring Program [1,2]									Site-Wide Monitoring Program [3]		LUFT Monitoring Program
		Permit for	Regulated Unit	POC	Bkgd	DM	EM	EM (aff)	CAIM	CAIM status	2017 Sampling Program [4,5]	2017 Water Level Monitoring Program [4,5]	
SP-882B											X	X	
SP-882C											X	X	
SP-882D											X	X	
SP-882G											X	X	
SP-890A											X	X	
SP-890B											X	X	
SP-890C											X	X	
SP-890D											X	X	
SP-890G											X	X	
WS-05		Areas I & III	Other Extraction Wells						X	not active			
WS-06		Areas I & III	Other Extraction Wells						X	not active			
WS-08												X	
WS-11												X	
WS-14												X	
TOTALS:													
199		***83***		***6***	***5***	***9***	***58***	***20***	***25***	***0***	***67***	***115***	***14***

TABLE 1
LIST OF WELLS AND MONITORING PROGRAMS
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

NOTES AND ABBREVIATIONS

POC	Point of Compliance
Bkgd	Background
DM	Detection Monitoring
EM	Evaluation Monitoring
EM (aff)	Evaluation Monitoring (affected media)
CAIM	Corrective Action Interim Measures
LUFT	Leaking Underground Fuel Tanks

[1] California Department of Toxic Substances Control (DTSC), 2010. Hazardous Waste Facility Post-Closure Permit, Regional Permit Number PC 94/95-3-02. Permit for Areas I and III, revised January 5, 2010.

[2] Haley & Aldrich, 2010. Regulated Unit Water Quality Sampling and Analysis Plan, Areas I and III, Post-Closure Permit PC-94/95-3-02, Santa Susana Field Laboratory, Ventura County, California, April.

[3] Haley & Aldrich, 2010. Site-Wide Water Quality Sampling and Analysis Plan, Santa Susana Field Laboratory, Simi Hills, Ventura County, California, Revision 1, File No. 20090-456/556/656/M489. December.

[4] MWH, 2016. Technical Memorandum. Boeing 2017 Sitewide Program Groundwater Sampling and Gauging Plan. December 13.

[5] DTSC, 2017. Email thread between Michael Bower (Boeing) and Tom Seckington (DTSC), regarding proposed Boeing 2017 Sitewide Program Groundwater Sampling and Gauging Plan, DTSC final comments January 27, Boeing final reply January 30.

TABLE 2
MODIFICATIONS TO MONITORING WELL NETWORK AND EQUIPMENT, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

WELL MAINTENANCE

Well ID	Monitoring Program	Quarter Identified	Issue Identification Date	Issue	Issue Resolution	Quarter Resolved	Issue Resolution Date
PZ-039	-- [a]	2013Q3	7/12/2013	Casing melted; cannot be gauged or sampled.	Cutting and splicing of new casing, and reconstruction of wellhead, as necessary, recommended.	Pending	Pending
PZ-072	-- [a]	2012Q1	1/9/2012	Well casing melted at surface. After wellhead demo and cutting off casing just above grade, discovered that the casing melted/collapsed below grade level.	This piezometer was recently replaced by well RS-39. Destruction/abandonment recommended.	Pending	Pending
C-3	SW	2017Q2	4/3/2017	Apron cracked/broken, no monument	New concrete apron with above ground monument was installed at C-3	Q4	11/1/2017
RD-43A	RU Area I & III	2017Q2	4/3/2017	No well ID placard	Offsite well location. Sign mounted to post were repeatedly damaged by trespassers. New sign will be installed Q1 2018.	Pending	Pending
RD-43B	RU Area I & III	2017Q2	4/3/2017	No well ID placard	Offsite well location. Sign mounted to post were repeatedly damaged by trespassers. New sign will be installed Q1 2018.	Pending	Pending
RD-43C	RU Area I & III	2017Q2	4/3/2017	No well ID placard	Offsite well location. Sign mounted to post were repeatedly damaged by trespassers. New sign will be installed Q1 2018.	Pending	Pending

EQUIPMENT MODIFICATIONS

Well ID	Monitoring Program	Quarter	Modification Date	Description			
WS-05	RU Area I & III, SW [b]	2017Q1	Ongoing	Converted to injection well for Groundwater Interim Measures. The new vault has been identified as a confined space and entry is prohibited without atmospheric monitoring; the sounding port is approximately 3 feet below grade and cannot be accessed without entering the vault in its current configuration.	Install riser pipe in the sounding port to bring measuring point closer to the surface, and gauging can be completed without entering the vault.	Pending	Pending

WELL DEVELOPMENT

Well ID	Monitoring Program	Quarter	Development Date	Description
RS-35	RU Area I & III, SW [b]	Pending	Pending	Well contained insufficient water for development
RD-146	-- [a]	2016Q2	6/8/2016	Development of well RD-146 was completed in second quarter 2016. Table 2 of Boeing's 2016 Annual Report on Groundwater Monitoring, which indicated that development of well RD-146 was pending, was in error.

NOTES AND ABBREVIATIONS

-- not applicable
RU - Regulated Unit
SW - Site-Wide

a - Well not monitored as part of Boeing Regulated Unit or Site-Wide Groundwater Monitoring Programs
b - Well monitored under Boeing Site-Wide Program for groundwater levels only

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
C-3	Chatsworth	1839.50	01/11/2017	220.06	1619.44	
			04/05/2017	217.49	1622.01	
			07/12/2017	217.37	1622.13	
			10/02/2017	217.27	1622.23	
ECL Sump	Shallow	1511.00	01/11/2017	Dry	--	
			04/03/2017	5.46	1505.54	
			07/10/2017	8.39	1502.61	
			10/03/2017	Dry	--	
ECL-FD	Shallow	1525.00	01/11/2017	8.13	1516.87	
			04/03/2017	5.42	1519.58	
			07/10/2017	9.66	1515.34	
			10/03/2017	ECW	--	
ES-01	Shallow	1782.70	01/11/2017	Dry	--	
			04/03/2017	24.19	1758.51	
			07/10/2017	ECW	--	
			10/02/2017	Dry	--	
ES-02	Shallow	1814.60	01/11/2017	Dry	--	
			04/04/2017	3.02	1811.58	
			07/10/2017	7.78	1806.82	
			10/02/2017	13.96	1800.64	
ES-03	Shallow	1783.39	01/11/2017	Dry	--	
			04/03/2017	24.69	1758.70	
			07/10/2017	Dry	--	
			10/02/2017	Dry	--	
ES-04	Shallow	1817.24	01/11/2017	Dry	--	
			04/04/2017	3.38	1813.86	
			07/10/2017	8.83	1808.41	
			10/02/2017	12.22	1805.02	
ES-05	Shallow	1818.13	01/11/2017	Dry	--	
			04/04/2017	3.72	1814.41	
			07/11/2017	9.32	1808.81	
			10/02/2017	12.68	1805.45	
ES-06	Shallow	1825.41	01/10/2017	Dry	--	
			04/04/2017	8.39	1817.02	
			07/10/2017	14.98	1810.43	
			10/02/2017	23.64	1801.77	
ES-07	Shallow	1826.53	01/10/2017	Dry	--	
			04/04/2017	13.71	1812.82	
			07/10/2017	Dry	--	
			10/04/2017	Dry	--	

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
ES-08	Shallow	1826.60	01/10/2017	Dry	--	
			04/04/2017	13.95	1812.65	
			07/10/2017	Dry	--	
			10/04/2017	Dry	--	
ES-09	Shallow	1827.80	01/10/2017	Dry	--	
			04/04/2017	7.61	1820.19	
			07/10/2017	14.48	1813.32	
			10/04/2017	Dry	--	
ES-10	Shallow	1829.46	01/10/2017	Dry	--	
			04/04/2017	8.68	1820.78	
			07/10/2017	17.81	1811.65	
			10/04/2017	Dry	--	
ES-11	Shallow	1835.07	01/10/2017	Dry	--	
			04/05/2017	18.89	1816.18	
			07/10/2017	Dry	--	
			10/04/2017	Dry	--	
ES-12	Shallow	1838.19	01/10/2017	8.97	1829.22	
			04/05/2017	12.18	1826.01	
			07/11/2017	Dry	--	
			10/04/2017	ECW	--	
ES-13	Shallow	1782.58	01/11/2017	Dry	--	
			04/05/2017	15.39	1767.19	
			07/10/2017	17.58	1765.00	
			10/02/2017	19.25	1763.33	
ES-14	Shallow	1727.85	01/10/2017	Dry	--	
			04/04/2017	Dry	--	
			07/12/2017	Dry	--	
			10/02/2017	Dry	--	
ES-15	Shallow	1730.21	01/10/2017	Dry	--	
			04/04/2017	Dry	--	
			07/12/2017	Dry	--	
			10/02/2017	Dry	--	
ES-16	Shallow	1737.90	01/10/2017	Dry	--	
			04/04/2017	Dry	--	
			07/11/2017	Dry	--	
			10/02/2017	Dry	--	
ES-17	Shallow	1739.24	01/10/2017	Dry	--	
			04/04/2017	26.91	1712.33	
			07/11/2017	ECW	--	
			10/02/2017	Dry	--	

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
ES-23	Shallow	1760.73	01/10/2017	Dry	--	
			04/03/2017	11.14	1749.59	
			07/10/2017	11.35	1749.38	
			10/04/2017	13.09	1747.64	
ES-24	Shallow	1728.67	01/10/2017	Dry	--	
			04/04/2017	Dry	--	
			07/12/2017	Dry	--	
			10/02/2017	Dry	--	
ES-25	Shallow	1737.78	01/10/2017	Dry	--	
			04/04/2017	Dry	--	
			07/12/2017	Dry	--	
			10/02/2017	Dry	--	
ES-26	Shallow	1748.04	01/10/2017	Dry	--	
			04/04/2017	Dry	--	
			07/11/2017	Dry	--	
			10/02/2017	Dry	--	
ES-27	Shallow	1740.34	01/10/2017	Dry	--	
			04/04/2017	Dry	--	
			07/11/2017	Dry	--	
			10/02/2017	Dry	--	
ES-28	Shallow	1759.15	01/10/2017	18.20	1740.95	
			04/03/2017	7.30	1751.85	
			07/10/2017	10.66	1748.49	
			10/02/2017	12.20	1746.95	
ES-29	Shallow	1761.06	01/10/2017	16.78	1744.28	
			04/03/2017	7.74	1753.32	
			07/10/2017	11.33	1749.73	
			10/02/2017	12.89	1748.17	
ES-30	Shallow	1759.51	01/10/2017	18.77	1740.74	
			04/03/2017	8.07	1751.44	
			07/10/2017	11.39	1748.12	
			10/02/2017	12.93	1746.58	
ES-31	Shallow	1787.01	01/11/2017	Dry	--	
			04/04/2017	12.38	1774.63	
			07/11/2017	18.55	1768.46	
			10/03/2017	21.49	1765.52	
ES-32	Shallow	1740.65	01/10/2017	Dry	--	
			04/04/2017	11.23	1729.42	
			07/11/2017	ECW	--	
			10/02/2017	Dry	--	

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
HAR-01	Chatsworth	1874.88	01/10/2017	75.95	1798.93	
			04/05/2017	75.81	1799.07	
			07/11/2017	74.86	1800.02	
			10/04/2017	74.80	1800.08	
HAR-02	Shallow	1886.38	01/10/2017	Dry	--	
			04/05/2017	17.96	1868.42	
			07/12/2017	29.44	1856.94	
			10/04/2017	Dry	--	
HAR-03	Shallow	1875.35	01/10/2017	Dry	--	
			04/05/2017	15.80	1859.55	
			07/11/2017	20.10	1855.25	
			10/04/2017	Dry	--	
HAR-04	Shallow	1873.75	01/10/2017	Dry	--	
			04/05/2017	16.07	1857.68	
			07/11/2017	19.48	1854.27	
			10/04/2017	21.71	1852.04	
HAR-16	Chatsworth	1872.61	01/10/2017	72.86	1799.75	
			04/05/2017	66.87	1805.74	
			07/11/2017	66.36	1806.25	
			10/04/2017	66.36	1806.25	
HAR-17	Chatsworth	1711.59	01/10/2017	44.24	1667.35	
			04/04/2017	25.54	1686.05	
			07/12/2017	30.30	1681.29	
			10/02/2017	33.98	1677.61	
HAR-18	Chatsworth	1746.64	01/10/2017	57.62	1689.02	
			04/04/2017	53.97	1692.67	
			07/11/2017	51.98	1694.66	
			10/02/2017	52.00	1694.64	
HAR-24	Chatsworth	1907.59	01/10/2017	105.62	1801.97	
			04/05/2017	102.29	1805.30	
			07/11/2017	101.80	1805.79	
			10/04/2017	102.17	1805.42	
HAR-25	Chatsworth	1890.48	01/10/2017	Dry	--	
			04/05/2017	84.19	1806.29	
			07/11/2017	83.03	1807.45	
			10/04/2017	83.33	1807.15	
HAR-26	Chatsworth	1763.46	01/11/2017	30.13	1733.33	
			04/03/2017	16.03	1747.43	
			07/12/2017	17.30	1746.16	
			10/03/2017	21.67	1741.79	

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
HAR-32	Shallow	1736.49	01/10/2017	Dry	--	
			04/04/2017	39.41	1697.08	
			07/11/2017	40.81	1695.68	
			10/02/2017	Dry	--	
HAR-33	Shallow	1744.56	01/10/2017	Dry	--	
			04/04/2017	Dry	--	
			07/11/2017	Dry	--	
			10/02/2017	Dry	--	
HAR-34	Shallow	1751.17	01/10/2017	Dry	--	
			04/04/2017	ECW	--	
			07/11/2017	Dry	--	
			10/02/2017	Dry	--	
OS-09R	Chatsworth	1018.07	Westbay			(1)
OS-24	Chatsworth	1947.30	01/12/2017	UTM	--	(A)
			04/03/2017	UTM	--	(A)
			07/12/2017	UTM	--	(A)
			10/03/2017	UTM	--	(A)
OS-25	Chatsworth	2043.58	01/12/2017	443.35	1600.23	
			04/03/2017	435.10	1608.48	
			07/12/2017	443.22	1600.36	
			10/03/2017	442.93	1600.65	
OS-26	Chatsworth	2080.58	01/12/2017	260.71	1819.87	
			04/03/2017	259.93	1820.65	
			07/12/2017	254.66	1825.92	
			10/03/2017	259.58	1821.00	
PZ-035	Shallow	1712.96	01/10/2017	Dry	--	
			04/04/2017	ECW	--	
			07/12/2017	ECW	--	
			10/02/2017	ECW	--	
PZ-074	Shallow	1772.73	01/12/2017	Dry	--	
			04/04/2017	8.41	1764.32	
			07/11/2017	Dry	--	
			10/04/2017	Dry	--	
PZ-076	Shallow	1767.09	01/12/2017	ECW	--	
			04/04/2017	ECW	--	
			07/10/2017	Dry	--	
			10/02/2017	ECW	--	
PZ-077	Shallow	1753.42	01/11/2017	ECW	--	
			04/04/2017	ECW	--	
			07/10/2017	Dry	--	
			10/02/2017	ECW	--	
PZ-089	Shallow	1876.64	01/10/2017	Dry	--	
			04/05/2017	17.16	1859.48	
			07/12/2017	Dry	--	
			10/04/2017	Dry	--	

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
PZ-123	Shallow	1610.81	01/12/2017	ECW	--	
			04/04/2017	Dry	--	
			07/11/2017	Dry	--	
			10/04/2017	Dry	--	
RD-01	Chatsworth	1933.45	01/12/2017	UTM	--	(A)
			04/04/2017	206.86	1726.59	
			07/11/2017	206.45	1727.00	
			10/04/2017	208.49	1724.96	
RD-02	Chatsworth	1873.89	01/11/2017	165.89	1708.00	
			04/04/2017	165.25	1708.64	
			07/10/2017	162.84	1711.05	
			10/02/2017	161.60	1712.29	
RD-03	Chatsworth	1743.53	01/11/2017	35.91	1707.62	
			04/04/2017	29.38	1714.15	
			07/10/2017	27.68	1715.85	
			10/02/2017	28.84	1714.69	
RD-06	Chatsworth	1617.22	01/10/2017	64.10	1553.12	
			04/04/2017	42.95	1574.27	
			07/11/2017	46.21	1571.01	
			10/02/2017	49.27	1567.95	
RD-08	Chatsworth	1763.70	01/11/2017	30.17	1733.53	
			04/03/2017	12.95	1750.75	
			07/10/2017	10.74	1752.96	
			10/03/2017	13.09	1750.61	
RD-10	Chatsworth	1904.48	01/12/2017	191.05	1713.43	
			04/04/2017	190.92	1713.56	
			07/11/2017	190.03	1714.45	
			10/04/2017	189.39	1715.09	
RD-11	Chatsworth	1762.84	01/11/2017	26.63	1736.21	
			04/03/2017	20.47	1742.37	
			07/10/2017	16.33	1746.51	
			10/03/2017	18.01	1744.83	
RD-12	Chatsworth	1763.12	01/11/2017	28.27	1734.85	
			04/03/2017	15.02	1748.10	
			07/10/2017	21.82	1741.30	
			10/03/2017	25.19	1737.93	
RD-13	Chatsworth	1840.01	01/11/2017	79.93	1760.08	
			04/05/2017	75.42	1764.59	
			07/11/2017	76.76	1763.25	
			10/03/2017	75.94	1764.07	
RD-15	Chatsworth	1817.70	01/11/2017	77.49	1740.21	
			04/05/2017	65.34	1752.36	
			07/11/2017	66.31	1751.39	
			10/03/2017	67.98	1749.72	
RD-16	Chatsworth	1808.99	01/11/2017	62.06	1746.93	
			04/04/2017	45.96	1763.03	
			07/11/2017	48.75	1760.24	
			10/03/2017	50.78	1758.21	

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
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Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
RD-18	Chatsworth	1839.51	01/11/2017	114.11	1725.40	
			04/05/2017	112.88	1726.63	
			07/11/2017	111.36	1728.15	
			10/03/2017	111.47	1728.04	
RD-31	Chatsworth	1944.55		Westbay		(1)
RD-32	Chatsworth	1808.15	01/12/2017	35.16	1772.99	
			04/03/2017	27.49	1780.66	
			07/12/2017	31.91	1776.24	
			10/04/2017	33.47	1774.68	
RD-35A	Chatsworth	1907.35	01/10/2017	102.22	1805.13	
			04/05/2017	96.13	1811.22	
			07/12/2017	96.79	1810.56	
			10/04/2017	97.67	1809.68	
RD-35B	Chatsworth	1905.49	01/10/2017	104.86	1800.63	
			04/05/2017	96.86	1808.63	
			07/12/2017	99.49	1806.00	
			10/04/2017	99.71	1805.78	
RD-36A	Chatsworth	1913.03	01/12/2017	Dry	--	
			04/03/2017	Dry	--	
			07/11/2017	Dry	--	
			10/03/2017	Dry	--	
RD-36B	Chatsworth	1915.54	01/12/2017	167.70	1747.84	
			04/03/2017	168.61	1746.93	
			07/11/2017	168.51	1747.03	
			10/03/2017	168.57	1746.97	
RD-36C	Chatsworth	1913.80	01/12/2017	207.16	1706.64	
			04/03/2017	206.16	1707.64	
			07/11/2017	205.83	1707.97	
			10/04/2017	205.79	1708.01	
RD-36D	Chatsworth	1920.23	01/12/2017	360.75	1559.48	
			04/03/2017	361.35	1558.88	
			07/11/2017	361.59	1558.64	
			10/03/2017	362.25	1557.98	
RD-37	Chatsworth	1870.44	01/12/2017	273.29	1597.15	
			04/03/2017	272.88	1597.56	
			07/12/2017	273.10	1597.34	
			10/03/2017	271.24	1599.20	
RD-38A	Chatsworth	1879.62	01/12/2017	Dry	--	
			04/03/2017	Dry	--	
			07/19/2017	Dry	--	
			10/04/2017	Dry	--	
RD-38B	Chatsworth	1880.96	01/12/2017	324.80	1556.16	
			04/03/2017	324.82	1556.14	
			07/11/2017	325.13	1555.83	
			10/04/2017	326.03	1554.93	

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SANTA SUSANA FIELD LABORATORY
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Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
RD-39A	Chatsworth	1960.53	01/12/2017	Dry	--	
			04/03/2017	151.51	1809.02	
			07/11/2017	157.25	1803.28	
			10/04/2017	Dry	--	
RD-39B	Chatsworth	1959.73	01/12/2017	297.10	1662.63	
			04/03/2017	296.87	1662.86	
			07/11/2017	295.71	1664.02	
			10/04/2017	296.07	1663.66	
RD-43A	Chatsworth	1681.04	01/12/2017	37.48	1643.56	
			04/03/2017	25.88	1655.16	
		1681.04	07/11/2017	34.63	1646.41	
			10/03/2017	36.82	1644.22	
RD-43B	Chatsworth	1680.11	01/12/2017	92.85	1587.26	
			04/03/2017	86.33	1593.78	
			07/11/2017	90.56	1589.55	
			10/03/2017	91.10	1589.01	
RD-43C	Chatsworth	1680.11	01/12/2017	98.49	1581.62	
			04/03/2017	92.20	1587.91	
			07/12/2017	96.68	1583.43	
			10/03/2017	97.79	1582.32	
RD-44	Chatsworth	2036.04	01/12/2017	397.53	1638.51	
			04/04/2017	398.38	1637.66	
			07/10/2017	396.28	1639.76	
			10/04/2017	395.13	1640.91	
RD-45A	Chatsworth	1838.12	01/10/2017	219.42	1618.70	
			04/05/2017	216.40	1621.72	
		1838.12	07/11/2017	216.35	1621.77	
			10/04/2017	216.30	1621.82	
RD-45B	Chatsworth	1840.01	01/10/2017	221.62	1618.39	
			04/05/2017	218.81	1621.20	
			07/11/2017	218.71	1621.30	
			10/04/2017	218.86	1621.15	
RD-45C	Chatsworth	1836.33	01/10/2017	217.46	1618.87	
			04/05/2017	214.62	1621.71	
			07/11/2017	214.39	1621.94	
			10/04/2017	214.59	1621.74	
RD-46A	Chatsworth	1803.59	01/12/2017	UTM	--	(A)
			04/04/2017	89.41	1714.18	
			07/10/2017	87.34	1716.25	
			10/02/2017	88.51	1715.08	
RD-46B	Chatsworth	1806.93	01/12/2017	93.89	1713.04	
			04/04/2017	93.25	1713.68	
			07/10/2017	90.98	1715.95	
			10/02/2017	90.24	1716.69	
RD-47	Chatsworth	2047.63	01/10/2017	429.28	1618.35	
			04/04/2017	426.01	1621.62	
			07/12/2017	426.11	1621.52	
			10/04/2017	425.81	1621.82	

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WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
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Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
RD-48A	Chatsworth	1736.61	01/11/2017	110.70	1625.91	
			04/04/2017	102.86	1633.75	
			07/10/2017	109.73	1626.88	
			10/02/2017	Dry	--	
RD-48B	Chatsworth	1735.73	01/11/2017	133.30	1602.43	
			04/04/2017	132.76	1602.97	
			07/10/2017	133.32	1602.41	
			10/02/2017	133.30	1602.43	
RD-48C	Chatsworth	1735.10	01/11/2017	169.76	1565.34	
			04/04/2017	169.51	1565.59	
			07/10/2017	169.56	1565.54	
			10/02/2017	169.45	1565.65	
RD-50	Chatsworth	1914.88	01/11/2017	128.98	1785.90	
			04/05/2017	128.81	1786.07	
			07/11/2017	129.01	1785.87	
			10/03/2017	129.21	1785.67	
RD-51A	Chatsworth	1832.84	01/11/2017	234.33	1598.51	
			04/03/2017	228.90	1603.94	
			07/10/2017	231.24	1601.60	
			10/02/2017	231.77	1601.07	
RD-51B	Chatsworth	1832.76	01/11/2017	233.92	1598.84	
			04/03/2017	228.42	1604.34	
			07/10/2017	230.73	1602.03	
			10/02/2017	231.21	1601.55	
RD-51C	Chatsworth	1831.56	01/11/2017	214.65	1616.91	
			04/03/2017	211.21	1620.35	
			07/10/2017	211.73	1619.83	
			10/02/2017	211.23	1620.33	
RD-52A	Chatsworth	1755.17	01/11/2017	125.97	1629.20	
			04/03/2017	108.78	1646.39	
			07/10/2017	124.35	1630.82	
			10/02/2017	125.62	1629.55	
RD-52B	Chatsworth	1712.15	01/11/2017	94.44	1617.71	
			04/03/2017	91.20	1620.95	
			07/10/2017	91.46	1620.69	
			10/02/2017	91.10	1621.05	
RD-52C	Chatsworth	1713.15	01/11/2017	95.14	1618.01	
			04/03/2017	91.90	1621.25	
			07/10/2017	92.14	1621.01	
			10/02/2017	91.96	1621.19	
RD-53	Chatsworth	1909.33	01/11/2017	158.67	1750.66	
			04/03/2017	158.10	1751.23	
			07/12/2017	Dry	--	
			10/04/2017	159.66	1749.67	
RD-55A	Chatsworth	1755.78	01/10/2017	74.11	1681.67	
			04/03/2017	18.57	1737.21	
			07/10/2017	35.10	1720.68	
			10/02/2017	54.70	1701.08	

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SANTA SUSANA FIELD LABORATORY
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Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
RD-55B	Chatsworth	1757.15	01/10/2017	78.93	1678.22	
			04/03/2017	69.36	1687.79	
			07/10/2017	68.28	1688.87	
			10/02/2017	70.40	1686.75	
RD-58A	Chatsworth	1756.02	01/10/2017	96.73	1659.29	
			04/04/2017	93.43	1662.59	
			07/10/2017	90.94	1665.08	
			10/02/2017	91.05	1664.97	
RD-58B	Chatsworth	1761.47	01/10/2017	112.76	1648.71	
			04/04/2017	107.41	1654.06	
			07/10/2017	106.67	1654.80	
			10/02/2017	107.37	1654.10	
RD-58C	Chatsworth	1759.19	01/10/2017	124.71	1634.48	
			04/04/2017	119.01	1640.18	
			07/10/2017	119.40	1639.79	
			10/02/2017	120.32	1638.87	
RD-61	Chatsworth	1845.74	01/11/2017	123.30	1722.44	
			04/04/2017	123.66	1722.08	
			07/10/2017	123.14	1722.60	
			10/02/2017	122.77	1722.97	
RD-62	Chatsworth	1837.27	01/11/2017	212.53	1624.74	
			04/04/2017	213.15	1624.12	
			07/10/2017	213.11	1624.16	
			10/02/2017	213.02	1624.25	
RD-66	Chatsworth	1731.06	01/12/2017	173.04	1558.02	
			04/03/2017	173.81	1557.25	
			07/12/2017	173.96	1557.10	
			10/04/2017	174.68	1556.38	
RD-67	Chatsworth	1901.66	01/10/2017	73.47	1828.19	
			04/04/2017	56.46	1845.20	
			07/11/2017	51.52	1850.14	
			10/02/2017	57.00	1844.66	
RD-71	Chatsworth	1740.02	01/12/2017	182.42	1557.60	
			04/03/2017	183.33	1556.69	
			07/12/2017	183.73	1556.29	
			10/04/2017	184.07	1555.95	
RD-72	Chatsworth	1903.84	01/11/2017	100.90	1802.94	
			04/05/2017	UTM	--	(A)
			07/12/2017	95.33	1808.51	
			10/04/2017	96.26	1807.58	
RD-73	Chatsworth	1901.78	01/11/2017	99.62	1802.16	
			04/05/2017	94.48	1807.30	
			07/11/2017	93.94	1807.84	
			10/04/2017	94.86	1806.92	
RD-75	Chatsworth	1613.07	01/12/2017	390.02	1223.05	
			04/04/2017	388.42	1224.65	
			07/11/2017	388.18	1224.89	
			10/04/2017	387.06	1226.01	

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Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
RD-76	Chatsworth	1772.38	01/12/2017	138.07	1634.31	
			04/04/2017	136.44	1635.94	
			07/11/2017	136.72	1635.66	
			10/04/2017	136.65	1635.73	
RD-77	Chatsworth	1918.60	01/11/2017	117.70	1800.90	
			04/05/2017	115.21	1803.39	
			07/11/2017	112.69	1805.91	
			10/04/2017	113.11	1805.49	
RD-78	Chatsworth	1819.58	01/11/2017	224.24	1595.34	
			04/04/2017	223.42	1596.16	
			07/12/2017	222.93	1596.65	
			10/03/2017	222.33	1597.25	
RD-84	Chatsworth	1902.70	01/11/2017	161.48	1741.22	
			04/05/2017	UTM	--	(A)
			07/12/2017	158.76	1743.94	
			10/03/2017	158.34	1744.36	
RD-85	Chatsworth	1849.36	01/11/2017	91.37	1757.99	
			04/05/2017	83.21	1766.15	
			07/11/2017	86.24	1763.12	
			10/03/2017	Dry	--	
RD-86	Chatsworth	1832.16	01/11/2017	ECW	--	
			04/05/2017	Dry	--	
			07/11/2017	Dry	--	
			10/03/2017	81.41	1750.75	
RD-92	Chatsworth	1833.74	01/11/2017	73.50	1760.24	
			04/05/2017	72.42	1761.32	
			07/11/2017	73.08	1760.66	
			10/03/2017	73.22	1760.52	
RD-99	Chatsworth	1896.36	01/11/2017	269.80	1626.56	
			04/04/2017	269.68	1626.68	
			07/10/2017	269.12	1627.24	
			10/02/2017	268.38	1627.98	
RD-100	Chatsworth	1767.79	01/11/2017	117.10	1650.69	
			04/04/2017	115.90	1651.89	
			07/18/2017	115.21	1652.58	
			10/02/2017	114.98	1652.81	
RD-103	Chatsworth	1934.84	Westbay			(1)
RD-120	Chatsworth	1789.12	Westbay			(1)
RD-121	Chatsworth	1960.30	01/12/2017	158.48	1801.82	
			04/03/2017	155.16	1805.14	
			07/11/2017	154.23	1806.07	
			10/02/2017	154.36	1805.94	
RD-129	Chatsworth	1891.59	01/10/2017	254.75	1636.84	
			04/05/2017	254.51	1637.08	
			07/12/2017	254.23	1637.36	
			10/04/2017	254.09	1637.50	

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Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
RD-130	Chatsworth	1881.42	01/11/2017	140.87	1740.55	
			04/03/2017	136.69	1744.73	
			07/12/2017	136.25	1745.17	
			10/03/2017	136.31	1745.11	
RD-131	Chatsworth	1980.15	01/12/2017	178.14	1802.01	
			04/04/2017	175.01	1805.14	
			07/12/2017	174.05	1806.10	
			10/04/2017	174.52	1805.63	
RD-147	Chatsworth	1793.99	01/12/2017	47.90	1746.09	
			04/03/2017	33.69	1760.30	
			07/12/2017	37.48	1756.51	
			10/04/2017	40.19	1753.80	
RS-01	Shallow	1879.68	01/11/2017	Dry	--	
			04/03/2017	Dry	--	
			07/12/2017	Dry	--	
			10/03/2017	Dry	--	
RS-02	Shallow	1901.08	01/11/2017	Dry	--	
			04/05/2017	Dry	--	
			07/11/2017	Dry	--	
			10/04/2017	Dry	--	
RS-03	Shallow	1834.22	01/10/2017	Dry	--	
			04/05/2017	17.56	1816.66	
			07/10/2017	Dry	--	
			10/04/2017	Dry	--	
RS-04	Shallow	1826.56	01/10/2017	Dry	--	
			04/04/2017	13.82	1812.74	
			07/10/2017	24.06	1802.50	
			10/04/2017	Dry	--	
RS-05	Shallow	1783.73	01/11/2017	Dry	--	
			04/03/2017	Dry	--	
			07/10/2017	Dry	--	
			10/02/2017	Dry	--	
RS-06	Shallow	1757.43	01/11/2017	Dry	--	
			04/04/2017	Dry	--	
			07/10/2017	Dry	--	
			10/02/2017	Dry	--	
RS-07	Shallow	1732.27	01/11/2017	7.27	1725.00	
			04/04/2017	5.83	1726.44	
			07/10/2017	Dry	--	
			10/02/2017	Dry	--	
RS-09	Shallow	1735.52	01/10/2017	Dry	--	
			04/04/2017	Dry	--	
			07/11/2017	Dry	--	
			10/02/2017	Dry	--	
RS-11	Shallow	1790.39	01/11/2017	Dry	--	
			04/04/2017	Dry	--	
			07/11/2017	Dry	--	
			10/03/2017	Dry	--	

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Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
RS-12	Shallow	1727.48	01/10/2017	ECW	--	
			04/04/2017	Dry	--	
			07/12/2017	Dry	--	
			10/02/2017	Dry	--	
RS-13	Shallow	1645.13	01/10/2017	Dry	--	
			04/04/2017	19.73	1625.40	
			07/11/2017	22.20	1622.93	
			10/02/2017	ECW	--	
RS-14	Shallow	1734.78	01/10/2017	Dry	--	
			04/04/2017	Dry	--	
			07/11/2017	Dry	--	
			10/02/2017	Dry	--	
RS-15	Shallow	1764.86	01/10/2017	Dry	--	
			04/03/2017	6.71	1758.15	
			07/10/2017	10.07	1754.79	
			10/02/2017	7.18	1757.68	
RS-17	Shallow	1766.52	01/11/2017	Dry	--	
			04/03/2017	8.50	1758.02	
			07/10/2017	14.06	1752.46	
			10/02/2017	15.21	1751.31	
RS-19	Shallow	1812.42	01/11/2017	Dry	--	
			04/04/2017	5.31	1807.11	
			07/10/2017	11.72	1800.70	
			10/02/2017	Dry	--	
RS-23	Shallow	1887.25	01/11/2017	Dry	--	
			04/05/2017	Dry	--	
			07/11/2017	Dry	--	
			10/03/2017	Dry	--	
RS-24	Shallow	1809.24	01/11/2017	Dry	--	
			04/04/2017	Dry	--	
			07/11/2017	Dry	--	
			10/03/2017	Dry	--	
RS-30	Shallow	1909.01	01/11/2017	ECW	--	
			04/03/2017	12.08	1896.93	
			07/12/2017	16.76	1892.25	
			10/03/2017	16.59	1892.42	
RS-31	Shallow	1909.03	01/11/2017	Dry	--	
			04/03/2017	10.60	1898.43	
			07/12/2017	15.64	1893.39	
			10/03/2017	ECW	--	
RS-32	Shallow	1908.99	01/11/2017	10.74	1898.25	
			04/03/2017	8.82	1900.17	
			07/12/2017	13.69	1895.30	
			10/03/2017	15.63	1893.36	

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VENTURA COUNTY, CALIFORNIA

Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
RS-33	Shallow	1728.89	01/10/2017	ECW	--	
			04/04/2017	34.68	1694.21	
			07/11/2017	36.86	1692.03	
			10/02/2017	ECW	--	
RS-35	Shallow	1900.07	01/10/2017	Dry	--	
			04/05/2017	Dry	--	
			07/12/2017	Dry	--	
			10/04/2017	Dry	--	
RS-41	Shallow	1751.83	01/10/2017	72.51	1679.32	
SH-01	Shallow	1772.84	01/11/2017	Dry	--	
			04/03/2017	6.15	1766.69	
			07/10/2017	Dry	--	
			10/03/2017	Dry	--	
SH-02	Shallow	1762.76	01/11/2017	Dry	--	
			04/03/2017	5.69	1757.07	
			07/10/2017	9.06	1753.70	
			10/03/2017	Dry	--	
SH-03	Shallow	1762.53	01/11/2017	Dry	--	
			04/03/2017	5.46	1757.07	
			07/10/2017	8.83	1753.70	
			10/03/2017	Dry	--	
SH-04	Shallow	1765.08	01/11/2017	Dry	--	
			04/03/2017	6.94	1758.14	
			07/10/2017	10.45	1754.63	
			10/03/2017	Dry	--	
SH-05	Shallow	1762.97	01/11/2017	ECW	--	
			04/03/2017	7.66	1755.31	
			07/10/2017	10.80	1752.17	
			10/03/2017	Dry	--	
SH-06	Shallow	1776.99	01/11/2017	Dry	--	
			04/03/2017	8.96	1768.03	
			07/10/2017	Dry	--	
			10/03/2017	Dry	--	
SH-07	Shallow	1775.11	01/11/2017	Dry	--	
			04/03/2017	9.01	1766.10	
			07/10/2017	Dry	--	
			10/03/2017	Dry	--	
SH-08	Shallow	1763.25	01/11/2017	Dry	--	
			04/03/2017	7.06	1756.19	
			07/10/2017	10.17	1753.08	
			10/03/2017	Dry	--	

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
SH-09	Shallow	1761.19	01/11/2017	Dry	--	
			04/03/2017	5.43	1755.76	
			07/10/2017	Dry	--	
			10/03/2017	Dry	--	
SH-10	Shallow	1757.69	01/11/2017	Dry	--	
			04/03/2017	5.48	1752.21	
			07/10/2017	Dry	--	
			10/03/2017	Dry	--	
SH-11	Shallow	1756.00	01/11/2017	Dry	--	
			04/03/2017	8.45	1747.55	
			07/10/2017	15.81	1740.19	
			10/03/2017	Dry	--	
SP-12	Chatsworth	1577.79	01/12/2017	Dry	--	
SP-22A	Chatsworth	1505.63	01/31/2017	3.43	1502.20	
			04/05/2017	1.48	1504.15	
			07/11/2017	2.64	1502.99	
			10/03/2017	6.06	1499.57	
SP-22B	Chatsworth	1505.94	01/31/2017	3.39	1502.55	
			04/05/2017	1.83	1504.11	
			07/11/2017	2.84	1503.10	
			10/03/2017	3.14	1502.80	
SP-22C	Chatsworth	1505.73	01/31/2017	3.54	1502.19	
			04/05/2017	1.41	1504.32	
			07/11/2017	2.46	1503.27	
			10/03/2017	3.06	1502.67	
SP-22D	Chatsworth	1505.55	01/31/2017	3.53	1502.02	
			04/05/2017	1.41	1504.14	
			07/11/2017	2.55	1503.00	
			10/03/2017	2.91	1502.64	
SP-27A	Chatsworth	1705.74	01/31/2017	Dry	--	
SP-27B	Chatsworth	1697.64	01/31/2017	10.77	1686.87	
SP-27C	Chatsworth	1705.34	01/31/2017	12.12	1693.22	
SP-27D	Chatsworth	1698.11	01/31/2017	18.87	1679.24	
SP-27E	Chatsworth	1698.22	01/31/2017	12.77	1685.45	
SP-424A	Chatsworth	1284.80	02/01/2017	32.57	1252.23	
SP-424B	Chatsworth	1284.15	02/01/2017	32.34	1251.81	
SP-424C	Chatsworth	1284.89	02/01/2017	32.57	1252.32	
SP-737A	Chatsworth	1186.90	01/12/2017	UTM	--	(A)
			08/02/2017	1.81	1185.09	
SP-737B	Chatsworth	1187.89	01/12/2017	UTM	--	(A)
			08/02/2017	3.34	1184.55	
SP-737C	Chatsworth	1188.09	01/12/2017	UTM	--	(A)
			08/02/2017	3.18	1184.91	

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Geological Unit	Measuring Point Elevation (feet above MSL)	Date of Measurement	Depth to Water (feet BTOC)	Static Water Level Elevation (feet above MSL)	Notes
SP-881A	Chatsworth	1618.67	01/31/2017	1.09	1617.58	(B)
SP-881B	Chatsworth	1618.66	01/31/2017	2.26	1616.40	(B)
SP-881C	Chatsworth	1618.77	01/31/2017	1.88	1616.89	(B)
SP-881D	Chatsworth	1618.18	01/31/2017	1.52	1616.66	(B)
SP-881G	Chatsworth	1617.67	01/31/2017	1.62	1616.05	(B)
SP-882A	Chatsworth	1611.94	01/31/2017	1.40	1610.54	(B)
SP-882B	Chatsworth	1612.28	01/31/2017	1.29	1610.99	(B)
SP-882C	Chatsworth	1611.95	01/31/2017	1.62	1610.33	(B)
SP-882D	Chatsworth	1612.01	01/31/2017	1.38	1610.63	(B)
SP-882G	Chatsworth	1612.21	01/31/2017	0.73	1611.48	(B)
SP-890A	Chatsworth	1627.51	01/31/2017	UTM	--	(A) (B)
SP-890B	Chatsworth	1627.91	01/31/2017	0.02	1627.89	(B)
SP-890C	Chatsworth	1627.31	01/31/2017	4.58	1622.73	(B)
SP-890D	Chatsworth	1627.39	01/31/2017	UTM	--	(A) (B)
SP-890G	Chatsworth	1628.12	01/31/2017	UTM	--	(A) (B)
WS-05	Chatsworth	1830.20	01/12/2017	UTM	--	(A)
			04/04/2017	UTM	--	(A)
			08/02/2017	UTM	--	(A)
			10/04/2017	204.54	1625.66	
WS-06	Chatsworth	1932.72	01/12/2017	312.12	1620.60	
			04/05/2017	310.82	1621.90	
			07/12/2017	310.58	1622.14	
			10/03/2017	310.38	1622.34	
WS-08	Chatsworth	1794.39	01/11/2017	144.77	1649.62	
			04/03/2017	141.21	1653.18	
			07/10/2017	139.79	1654.60	
			10/03/2017	139.76	1654.63	
WS-11	Chatsworth	1748.70	01/10/2017	72.90	1675.80	
			04/04/2017	57.96	1690.74	
			07/11/2017	58.06	1690.64	
			10/02/2017	61.66	1687.04	
WS-14	Chatsworth	1879.04	01/12/2017	303.31	1575.73	
			04/05/2017	303.40	1575.64	
			07/12/2017	302.97	1576.07	
			10/03/2017	302.28	1576.76	

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

NOTES AND ABBREVIATIONS

BTOC = below top of casing

ECW = end cap water

MSL = mean sea level

UTM = unable to measure

-- = no data available or not applicable

Chatsworth = Chatsworth Formation groundwater unit

Shallow = Near-surface groundwater unit

NOTES AND ABBREVIATIONS Q1

(A) = Unable to measure due to the following:
OS-24 - partially removed FLUTe system prevents water level measurements (Q1-Q4)
RD-01 - connected to GWIM system - unable to lower water level meter probe beyond pump cables (Q1)
RD-46A - connected to GWIM system - unable to lower water level meter probe beyond pump cables (Q1)
RD-72 - connected to GWIM system - unable to lower water level meter probe beyond pump cables (Q2)
RD-84 - connected to GWIM system - unable to lower water level meter probe beyond pump cables (Q2)
SP-737A - access agreement with off-site property owner expired (Q1)
SP-737B - access agreement with off-site property owner expired (Q1)
SP-737C - access agreement with off-site property owner expired (Q1)
SP-890A - artesian conditions (piezometric water level above top of well casing) (Q1)
SP-890D - artesian conditions (piezometric water level above top of well casing) (Q1)
SP-890G - artesian conditions (piezometric water level above top of well casing) (Q1)
WS-05 - inaccessible due to GWIM well head modification activities (Q1-Q3)

(B) = Measured by other party:
SP-881A, SP-881B, SP-881C, SP-881D, SP-881G - measured by NASA
SP-882A, SP-882B, SP-882C, SP-882D, SP-882G - measured by NASA
SP-890A, SP-890B, SP-890C, SP-890D, SP-890G - measured by NASA

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

(1) = Westbay multilevel system installed in well. Water levels measured by wireline pressure transducer provided for the wells listed below.

A "Port" interval is a section of the Westbay that includes a measurement port and a pumping port; a pumping port enables the interval to be purged.

A "QA" interval is a section of the Westbay that only has a measurement port; this interval can be sampl but not purged.

(a) - Measurement tool did not seat correctly in port; no measurement available.

Well	Port	Zone Length (feet BTOC)	Measuring Point Elevation (feet above MSL)	Date	Depth to Water (feet BTOC)	Piezometric Water Level Elevation (feet above MSL)
OS-09R	Port 01	30.75 - 41.88	1018.07	1/30/2017	-0.38	1018.45
	Port 02	44.88 - 53.91		1/30/2017	-0.61	1018.68
	QA-01	56.91 - 61.95		1/30/2017	-0.57	1018.64
	Port 03	64.95 - 89.97		1/30/2017	-11.55	1029.62
	QA-02	92.97 - 96.98		1/30/2017	-11.53	1029.60
	Port 04	99.98 - 129.00		1/30/2017	-11.49	1029.56
	Port 05	132.00 - 147.01		1/30/2017	-12.62	1030.69
	Port 06	150.01 - 175.03		1/30/2017	-13.25	1031.32
	Port 07	178.03 - 201.04		1/30/2017	-14.60	1032.67
	Port 08	204.04 - 218.07		1/30/2017	-14.56	1032.63
	Port 09	221.07 - 245.08		1/30/2017	-12.03	1030.10
	QA-03	248.08 - 252.09		1/30/2017	-13.93	1032.00
	Port 10	255.09 - 277.10		1/30/2017	-14.00	1032.07
	Port 11	280.10 - 292.13		1/30/2017	-15.53	1033.60
	Port 12	295.13 - 307.13		1/30/2017	-16.00	1034.07
	Port 13	310.13 - 337.17		1/30/2017	-17.27	1035.34
	Port 14	340.17 - 357.18		1/30/2017	-27.02	1045.09
	Port 15	360.18 - 377.19		1/30/2017	-27.72	1045.79
	Port 16	380.19 - 408.75		1/30/2017	-41.74	1059.81

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	Port	Zone Length (feet BTOC)	Measuring Point Elevation (feet above MSL)	Date	Depth to Water (feet BTOC)	Piezometric Water Level Elevation (feet above MSL)
RD-31	QA-01	29.5-182.5	1944.55	1/31/2017	143.28	1801.27
	Port 01	185.5-200.5		1/31/2017	143.38	1801.17
	Port 02	203.5-218.5		1/31/2017	143.43	1801.12
	QA-02	221.5-228.5		1/31/2017	143.46	1801.09
	Port 03	231.5-242.5		1/31/2017	143.48	1801.07
	QA-03	245.5-248.5		1/31/2017	143.54	1801.01
	Port 04	251.5-264.5		1/31/2017	143.52	1801.03
	QA-04	267.5-271.5		1/31/2017	143.54	1801.01
	QA-05	274.5-278.5		1/31/2017	143.57	1800.98
	Port 05	281.5-289.5		1/31/2017	143.49	1801.06
	QA-06	292.5-294.5		1/31/2017	143.64	1800.91
	QA-07	297.5-304.5		1/31/2017	143.62	1800.93
	QA-08	307.5-309.5		1/31/2017	143.51	1801.04
	QA-09	312.5-319.5		1/31/2017	143.62	1800.93
	Port 06	322.5-335.5		1/31/2017	143.68	1800.87
	QA-10	338.5-350.5		1/31/2017	143.74	1800.81
	QA-11	353.5-357.5		1/31/2017	182.06	1762.49
	QA-12	360.5-369.5		1/31/2017	182.09	1762.46
	Port 07	372.5-386.5		1/31/2017	182.10	1762.45
	QA-13	389.5-392.5		1/31/2017	182.12	1762.43
	Port 08	395.5-404.5		1/31/2017	182.22	1762.33
	QA-14	407.5-418.5		1/31/2017	181.99	1762.56
	QA-15	421.5-428.5		1/31/2017	182.31	1762.24
	QA-16	431.5-440.5		1/31/2017	182.34	1762.21
	Port 09	443.5-455.5		1/31/2017	182.40	1762.15
	QA-17	458.5-462.5		1/31/2017	208.45	1736.10
	Port 10	465.5-475.5		1/31/2017	222.27	1722.28
	QA-18	478.5-482.5		1/31/2017	222.45	1722.10
	QA-19	485.5-490.5		1/31/2017	222.53	1722.02
	QA-20	493.5-496.5		1/31/2017	222.55	1722.00
	Port 11	499.5-506.5		1/31/2017	222.66	1721.89
	QA-21	509.5-515.5		1/31/2017	222.42	1722.13
	QA-22	518.5-520.5		1/31/2017	224.73	1719.82
	Port 12	523.5-536.5		1/31/2017	225.00	1719.55

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	Port	Zone Length (feet BTOC)	Measuring Point Elevation (feet above MSL)	Date	Depth to Water (feet BTOC)	Piezometric Water Level Elevation (feet above MSL)
RD-103	QA-01	61.3-70.1	1934.84	1/27/2017	dry	dry
	QA-02	73.1-95.1		1/27/2017	dry	dry
	QA-03	98.1-114.1		1/27/2017	98.20	1836.64
	QA-04	117.1-141.1		1/27/2017	dry	dry
	QA-05	144.1-152.1		1/27/2017	dry	dry
	QA-06	155.1-158.1		1/27/2017	dry	dry
	QA-07	161.1-163.1		1/27/2017	dry	dry
	QA-08	166.1-174.1		1/27/2017	dry	dry
	QA-09	177.1-181.1		1/27/2017	dry	dry
	Port 01	184.1-190.1		1/27/2017	dry	dry
	QA-10	193.1-201.1		1/27/2017	dry	dry
	QA-11	204.1-210.1		1/27/2017	dry	dry
	QA-12	213.1-215.1		1/27/2017	213.03	1721.81
	Port 02	218.1-232.1		1/27/2017	213.12	1721.72
	QA-13	235.1-242.1		1/27/2017	213.40	1721.44
	QA-14	245.1-251.1		1/27/2017	213.43	1721.41
	Port 03	254.1-261.1		1/27/2017	213.57	1721.27
	QA-15	264.1-271.1		1/27/2017	213.58	1721.26
	Port 04	274.1-281.1		1/27/2017	213.64	1721.20
	QA-16	284.1-288.1		1/27/2017	213.58	1721.26
	QA-17	291.1-295.1		1/27/2017	213.64	1721.20
	QA-18	298.1-305.1		1/27/2017	213.70	1721.14
	Port 05	308.1-312.1		1/27/2017	(a)	(a)
	QA-19	315.1-319.1		1/27/2017	214.53	1720.31
	QA-20	322.1-329.1		1/27/2017	246.42	1688.42
	QA-21	332.1-337.1		1/27/2017	248.02	1686.82
	Port 06	340.1-344.1		1/27/2017	(a)	(a)
	QA-22	347.1-353.1		1/27/2017	280.02	1654.82
	QA-23	356.1-360.1		1/27/2017	280.44	1654.40
	Port 07	363.1-370.1		1/27/2017	280.63	1654.21
	QA-24	373.1-375.1		1/27/2017	280.51	1654.33
	QA-25	378.1-382.1		1/27/2017	280.71	1654.13
	QA-26	385.1-399.7		1/27/2017	280.63	1654.21

TABLE 3
WATER LEVEL DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well	Port	Zone Length (feet BTOC)	Measuring Point Elevation (feet above MSL)	Date	Depth to Water (feet BTOC)	Piezometric Water Level Elevation (feet above MSL)
RD-120	QA-01	50.2-62.2	1789.12	1/30/2017	dry	dry
	QA-02	65.2-87.2		1/30/2017	dry	dry
	QA-03	90.2-101.2		1/30/2017	dry	dry
	QA-04	104.2-116.2		1/30/2017	dry	dry
	QA-05	119.2-127.2		1/30/2017	dry	dry
	QA-06	130.2-137.2		1/30/2017	dry	dry
	QA-07	140.2-151.2		1/30/2017	136.21	1652.91
	QA-08	154.2-161.2		1/30/2017	136.41	1652.71
	Port-01	164.2-171.2		1/30/2017	156.31	1632.81
	QA-09	174.2-180.2		1/30/2017	156.41	1632.71
	Port-02	183.2-193.2		1/30/2017	156.48	1632.64
	QA-10	196.2-202.2		1/30/2017	156.54	1632.58
	Port-03	205.2-223.2		1/30/2017	158.76	1630.36

TABLE 4
GROUNDWATER FIELD PARAMETER DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Date	Temperature (° C)	Conductivity (mmhos)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
C-3	02/02/2017	18.5	1.17	7.18	2.19	-65	1.6
ES-29	01/30/2017	20.2	0.79	7.15	5.26	278.8	1.9
HAR-01	01/25/2017	17.5	1.01	6.63	5.36	333.7	5.6
	07/31/2017	23.9	1.04	6.58	4.11	212.3	3.9
HAR-03	07/24/2017	21.4	0.392	6.14	1.39	-61.7	7
HAR-04	07/25/2017	21.0	0.436	6.74	4.24	6.6	3
HAR-16	01/25/2017	15.8	1.016	6.34	2.77	168.8	3
	07/28/2017	20.8	0.578	6.07	3.85	179.5	2
HAR-25	07/28/2017	27.4	0.601	6.56	3.44	143.2	2
HAR-26	02/01/2017	17.0	0.83	8.04	0.26	175.4	3.3
	07/26/2017	24.2	0.885	8.13	2.04	93.2	5
OS-09R Port-01	01/30/2017	19.4	0.93	9.37	2.43	-162	2.5
OS-25	01/18/2017	16.3	1.71	6.75	4.01	28.8	24.4
RD-01	08/04/2017	20.5	0.799	6.78	0.28	-24.2	8
RD-02	02/01/2017	20.7	1.31	6.78	0.42	-22	3.1
RD-03	01/18/2017	18.8	0.953	6.62	2.18	-244.6	4.5
	07/24/2017	19.5	1.572	6.98	0.15	-211.4	6
RD-06	01/17/2017	18.1	1.383	6.55	1.42	-64.1	2.2
	08/01/2017	19.0	1.255	6.92	0.57	158.3	19
RD-08	01/26/2017	19.1	0.999	8.17	0.65	-55	5.5
	07/26/2017	22.2	0.993	7.97	0.28	-59.3	7
RD-10	01/18/2017	18.9	0.989	6.54	1.4	-30.2	32.2
RD-11	01/26/2017	12.8	1.066	8.12	0.53	-161	7.4
	07/24/2017	25.8	1.217	7.8	0.53	-93.3	8
RD-12	01/27/2017	14.6	1.15	7.29	0.7	92.5	3.6
	07/27/2017	24.5	1.265	7.3	0.42	-40.6	6
RD-13	01/31/2017	19.4	0.66	7.21	2.42	287.8	1.4
RD-18	01/30/2017	19.0	0.51	7.4	0.95	250.6	2.5
RD-32	02/01/2017	18.7	0.889	7.83	0.54	-154	6.8
	07/21/2017	20.4	965	6.96	0.18	-64	3
RD-35A	07/21/2017	23.8	2.98	7.18	8.25	570.3	396
RD-35B	07/21/2017	23.0	0.312	8.87	0.36	177.1	3
RD-36C	01/24/2017	15.5	2.226	6.39	0.58	-213.5	5
	07/31/2017	24.4	2.558	6.04	0.73	-12.6	6
RD-36D	01/24/2017	17.6	0.506	7.85	0.79	-111.4	4
	07/31/2017	20.1	0.455	8.07	0.47	-129.8	4
RD-37	02/01/2017	19.1	1.97	6.56	0.7	-46	16
	07/26/2017	19.6	2.112	6.92	0.36	-145.6	7
RD-38B	02/01/2017	20.4	0.869	7.92	0.63	-125	8.9
	07/27/2017	21.3	0.879	6.97	0.2	-166.7	4
RD-39B	01/19/2017	14.2	0.388	8.25	2.6	146.3	9.6
	07/28/2017	21.1	0.419	7.92	2.15	-180.2	2
RD-43A	01/26/2017	19.3	0.86	6.67	0.58	201.8	6.2
	08/03/2017	22.7	0.86	6.69	0.39	91.2	3.6
RD-43B	01/26/2017	20.0	0.88	7.16	0.1	-82.7	7.4
	08/01/2017	21.4	0.853	7.08	0.64	-150.4	13
RD-43C	01/26/2017	17.4	0.63	7.88	5.1	198.4	6.6
	08/01/2017	21.4	0.913	6.69	0.3	179.8	3
RD-44	01/17/2017	19.6	1.44	7.67	3.38	22	3

TABLE 4
GROUNDWATER FIELD PARAMETER DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Date	Temperature (° C)	Conductivity (mmhos)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
RD-45A	01/26/2017	19.4	1.619	6.52	0.67	-277.1	5
	08/02/2017	23.3	1.398	6.86	0.43	-27.7	1
RD-45B	01/26/2017	19.6	0.999	7.33	0.65	-165.5	7
	08/01/2017	23.4	0.918	7.25	0.48	121.8	4
RD-45C	01/26/2017	19.2	1.616	6.85	0.86	-235.1	17
	08/03/2017	22.7	1.233	7.43	0.17	-142.7	4
RD-46A	08/04/2017	20.9	0.991	6.87	0.21	-111.3	7
RD-46B	01/17/2017	21.5	0.401	8.91	0.51	-8.8	45.5
	07/28/2017	24.9	0.457	8.06	0.36	-190.1	88
RD-48B	01/24/2017	12.7	1.29	7.27	1.02	-51.7	17.4
	07/25/2017	23.7	1.401	7.28	0.63	-113.9	4
RD-48C	01/24/2017	22.4	1.11	7.31	0.01	-153.4	5.2
	07/25/2017	21.3	1.187	7.24	0.13	-145.3	9
RD-50	01/30/2017	22.2	0.961	7.12	3.06	-101.3	4
RD-51A	01/19/2017	18.2	1.54	6.94	1.05	259.4	1.01
	08/02/2017	23.1	1.798	6.98	1.59	139.7	2
RD-51B	01/19/2017	19.9	0.975	6.67	1.47	-112.2	7.8
	08/02/2017	22.4	0.983	7	0.37	168.7	2
RD-51C	01/19/2017	19.5	1.059	6.74	1.46	-12.7	16.2
	08/02/2017	21.7	1.015	7.04	0.23	-117	4
RD-52A	01/24/2017	15.2	1.133	7.63	0.84	27	15.9
	08/02/2017	28.6	1.089	6.87	0.8	30.1	2
RD-52B	01/24/2017	17.7	1.279	7.85	0.4	-130	41.2
	08/03/2017	20.2	1.268	7.02	0.24	-147.1	25
RD-52C	01/24/2017	14.2	0.922	8	0.73	-107	1.14
	08/03/2017	19.7	1.16	7.3	0.77	-122.1	4.2
RD-55A	08/01/2017	29.3	0.945	6.88	2.19	162.2	2
RD-55B	01/27/2017	18.5	0.42	7.69	0.57	-138.3	6.6
	08/01/2017	25.4	0.452	7.55	0.2	-176.2	3
RD-58A	01/27/2017	18.9	1.534	6.88	1.59	-243.9	4
	08/01/2017	28.1	1.25	6.71	1.87	137	4.2
RD-58B	01/27/2017	16.3	1.123	7.09	1.03	-117.4	9
	08/01/2017	20.3	0.92	7.15	0.54	-86.1	4.6
RD-58C	01/27/2017	17.8	0.914	7.55	0.99	-207.1	6
	08/01/2017	20.5	0.73	7.74	0.53	-116.1	3.7
RD-61	02/02/2017	17.3	1.19	6.83	2.37	22.5	10.5
RD-62	01/17/2017	18.0	0.93	7.14	2.7	264.7	1.3
RD-66	01/17/2017	18.7	0.94	7.11	1.35	57	4
RD-73	02/02/2017	17.3	1.19	6.67	0.72	390.8	2.9
	08/03/2017	22.1	1.19	6.62	0.13	104.9	3.8
RD-75	01/17/2017	20.5	1.455	6.56	1.08	25.7	23.6
RD-76	01/18/2017	17.1	1.567	6.71	3.56	22	3
RD-77	01/19/2017	18.1	0.7	7.61	2.01	112	1
RD-78	02/02/2017	16.6	1.77	6.72	0.94	-33	1.6
RD-99	07/27/2017	23.9	1.641	7.12	1.44	54.8	121
RD-103 QA-15	01/27/2017	17.3	0.871	8.16	3.13	48	1.64
RD-120 QA-10	01/30/2017	23.5	0.938	8.42	2.72	57	1.9
RD-121	01/31/2017	19.3	1.056	6.67	0.73	-248.7	5
RD-129	01/25/2017	15.9	1.27	6.9	1.81	143.3	4.6
	07/17/2017	21.9	1.123	6.98	1.14	-18.3	2
RD-130	01/19/2017	18.2	0.979	7.53	4.09	142	18
	07/21/2017	21.5	1.006	6.64	1.37	97.3	14

TABLE 4
GROUNDWATER FIELD PARAMETER DATA, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Date	Temperature (° C)	Conductivity (mmhos)	pH	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	Turbidity (NTU)
RD-131	01/18/2017	17.4	0.809	7.06	2.1	96	5
RD-147	01/18/2017	17.5	1.56	6.76	4.54	222	19.2
RS-30	07/17/2017	32.7	1.3	6.63	0.34	-101.1	3
RS-31	07/17/2017	29.2	1.218	6.03	0.32	171.3	3
RS-32	02/02/2017	17.3	0.414	6.7	1.19	-116	10.2
	07/17/2017	30.4	0.88	6.57	0.62	144.6	7
RS-41	01/30/2017	19.6	1.32	7.12	0.78	245.6	13.4
SP-22A	01/31/2017	16.0	1.38	7.93	1.15	-71	14
	07/31/2017	24.5	1.397	6.43	0.87	17.5	2
SP-22B	01/31/2017	17.9	1.57	8.33	1.45	-78	2
	07/31/2017	22.3	1.378	6.76	3.28	30.2	3
SP-22C	01/31/2017	18.3	1.62	7.88	1.59	-63	3.4
	07/31/2017	22.0	1.319	6.8	0.64	-51.7	1
SP-22D	01/31/2017	17.8	1.36	7.83	1.6	-88	177
	07/31/2017	22.0	1.363	6.8	0.8	-122.7	3
SP-27C	01/31/2017	16.4	2.084	6.75	0.68	-241.5	3
SP-27D	01/31/2017	16.5	1.802	6.57	0.46	-111.7	2
SP-27E	01/31/2017	16.6	1.733	6.7	0.37	-117	3
SP-424C	02/01/2017	15.5	0.745	7.26	8.91	-100	136
SP-737A	08/02/2017	22.3	1.29	7.02	0.28	116.7	2.2
SP-737B	08/02/2017	20.2	1.46	6.92	0.22	17.7	20.5
SP-737C	08/02/2017	20.5	1.39	7.08	0.28	-11.6	422
WS-14	07/27/2017	21.8	0.931	6.97	0.21	-172.4	35

NOTES AND ABBREVIATIONS

° C - degrees Celsius
mmhos - millimhos
mg/L - milligrams per liter
mV - millivolt
NTU - nephelometric turbidity unit

TABLE 5
SAMPLES ANALYZED, 2017
SUSANA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Event	Boeing Post-Closure Permit Regulated Unit Monitoring Programs					Boeing 2017 Site-Wide Monitoring Program	LUFT	DQO
		Point of Compliance	Background	Detection Monitoring	Evaluation Monitoring	Verification			
C-3	2017Q1						VOCs 1,4-Dioxane		
ES-29	2017Q1						VOCs Chloride, Nitrate		
HAR-01	2017Q1				COCs (APTF) Appendix IX				
	2017Q3				COCs (APTF)				
HAR-03	2017Q3				COCs (APTF)				
HAR-04	2017Q3				COCs (APTF)				
HAR-16	2017Q1	COCs (APTF) Appendix IX		Background WQ COCs (APTF)	COCs (APTF) Appendix IX				
	2017Q3	COCs (APTF)		COCs (APTF)	COCs (APTF)				
HAR-25	2017Q3				COCs (APTF)				
HAR-26	2017Q1				COCs (ECL) Appendix IX				
	2017Q3				COCs (ECL)				
OS-09R Port-01	2017Q1						VOCs Perchlorate[(1)]		
OS-25	2017Q1						VOCs 1,4-dioxane		
RD-01	2017Q3						1,2,3-TCP 1,4-Dioxane Perchlorate		
RD-02	2017Q1						VOCs 1,4-Dioxane NDMA Formaldehyde		
RD-03	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				Aldrin
RD-06	2017Q1				COCs (STL-IV)				
	2017Q3				COCs (STL-IV)				
RD-08	2017Q1				COCs (ECL) Appendix IX				
	2017Q3				COCs (ECL)				
RD-10	2017Q1						VOCs 1,4-Dioxane Perchlorate Metals GRO		
RD-11	2017Q1				COCs (ECL) Appendix IX				
	2017Q3				COCs (ECL)				

TABLE 5
SAMPLES ANALYZED, 2017
SUSANA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Event	Boeing Post-Closure Permit Regulated Unit Monitoring Programs					Boeing 2017 Site-Wide Monitoring Program	LUFT	DQO
		Point of Compliance	Background	Detection Monitoring	Evaluation Monitoring	Verification			
RD-12	2017Q1				COCs (ECL) Appendix IX				
	2017Q3				COCs (ECL)				
RD-13	2017Q1						VOCs Radiochemistry		
RD-18	2017Q1						VOCs 1,4-Dioxane Radiochemistry Fluoride Metals Sodium		
RD-32	2017Q1						VOCs 1,4-Dioxane NDMA 1,2,3-TCP Perchlorate	GRO VOCs	
	2017Q3							GRO VOCs	
RD-35A	2017Q3								Be (Total & Dissolved)
RD-35B	2017Q3								bis(2-Ethylhexyl) phthalate 1-Methyl naphthalene Benzo(a)pyrene PCBs Be, Hg, Ag (Total & Dissolved)
RD-36C	2017Q1				COCs (APTF)			GRO VOCs	
	2017Q3				COCs (APTF)			GRO VOCs	
RD-36D	2017Q1				COCs (APTF)			GRO VOCs	
	2017Q3				COCs (APTF)			GRO	
					COCs (APTF)			VOCs	
RD-37	2017Q1				COCs (APTF)			GRO VOCs	
	2017Q3				COCs (APTF)			GRO	Pentachlorophenol
								VOCs	MCPA, MCPP, Dieldrin
RD-38B	2017Q1				COCs (APTF)			GRO VOCs	
	2017Q3				COCs (APTF)			GRO VOCs	
RD-39B	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				

TABLE 5
SAMPLES ANALYZED, 2017
SUSANA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Event	Boeing Post-Closure Permit Regulated Unit Monitoring Programs					Boeing 2017 Site-Wide Monitoring Program	LUFT	DQO
		Point of Compliance	Background	Detection Monitoring	Evaluation Monitoring	Verification			
RD-43A	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-43B	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-43C	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-44	2017Q1						VOCs 1,4-Dioxane NDMA Formaldehyde		
RD-45A	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-45B	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-45C	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-46A	2017Q3				COCs (APTF)				
RD-46B	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-48B	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-48C	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-50	2017Q1						VOCs Perchlorate Radiochemistry Metals GRO/DRO/ORO		
RD-51A	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-51B	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-51C	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-52A	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-52B	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-52C	2017Q1				COCs (APTF)				
	2017Q3				COCs (APTF)				
RD-55A	2017Q3				COCs (STL-IV)				

TABLE 5
SAMPLES ANALYZED, 2017
SUSANA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Event	Boeing Post-Closure Permit Regulated Unit Monitoring Programs					Boeing 2017 Site-Wide Monitoring Program	LUFT	DQO
		Point of Compliance	Background	Detection Monitoring	Evaluation Monitoring	Verification			
RD-55B	2017Q1				COCs (STL-IV)				
	2017Q3				COCs (STL-IV)				
RD-58A	2017Q1				COCs (STL-IV)				
	2017Q3				COCs (STL-IV)				
RD-58B	2017Q1				COCs (STL-IV)				
	2017Q3				COCs (STL-IV)				
RD-58C	2017Q1				COCs (STL-IV)				
	2017Q3				COCs (STL-IV)				
RD-61	2017Q1						VOCs 1,4-Dioxane 1,2,3-TCP		
RD-62	2017Q1						VOCs 1,4-Dioxane 1,2,3-TCP		
RD-66	2017Q1						VOCs		
RD-73	2017Q1							GRO VOCs	
	2017Q3							GRO VOCs	1,2,3-TCP MCPA
RD-75	2017Q1						VOCs Perchlorate		
RD-76	2017Q1						VOCs Perchlorate		
RD-77	2017Q1		Background WQ COCs (APTF)						
RD-78	2017Q1						VOCs 1,4-Dioxane NDMA 1,2,3-TCP Perchlorate		
RD-99	2017Q3								bis(2-ethylhexyl) phthalate Dieldrin
RD-103 QA-15	2017Q1						VOCs 1,4-Dioxane Perchlorate Metals GRO		
RD-120 QA-10	2017Q1						VOCs 1,4-Dioxane Perchlorate Metals		

TABLE 5
SAMPLES ANALYZED, 2017
SUSANA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Event	Boeing Post-Closure Permit Regulated Unit Monitoring Programs					Boeing 2017 Site-Wide Monitoring Program	LUFT	DQO
		Point of Compliance	Background	Detection Monitoring	Evaluation Monitoring	Verification			
RD-121	2017Q1						VOCs 1,4-Dioxane Perchlorate		
RD-129	2017Q1						VOCs 1,4-Dioxane Perchlorate		
	2017Q3								bis(2-Ethylhexyl) phthalate NDMA Cd (Total & Dissolved)
RD-130	2017Q1						VOCs Perchlorate GRO		
	2017Q3								bis(2-Ethylhexyl) phthalate
RD-131	2017Q1						VOCs Perchlorate		
RD-147	2017Q1						VOCs		
RS-30	2017Q3							GRO VOCs	
RS-31	2017Q3							GRO VOCs	
RS-32	2017Q1							GRO VOCs	
	2017Q3							GRO VOCs	
RS-41	2017Q1						VOCs		
SP-22A	2017Q1						VOCs		
	2017Q3						VOCs		
SP-22B	2017Q1						VOCs 1,4-Dioxane NDMA		
	2017Q3						VOCs		
SP-22C	2017Q1						VOCs		
	2017Q3						VOCs		
SP-22D	2017Q1						VOCs		
	2017Q3						VOCs		
SP-27C	2017Q1						VOCs 1,4-Dioxane 1,2,3-TCP Perchlorate NDMA		
SP-27D	2017Q1						VOCs 1,4-Dioxane		

TABLE 5
SAMPLES ANALYZED, 2017
SUSANA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well ID	Event	Boeing Post-Closure Permit Regulated Unit Monitoring Programs					Boeing 2017 Site-Wide Monitoring Program	LUFT	DQO
		Point of Compliance	Background	Detection Monitoring	Evaluation Monitoring	Verification			
SP-27E	2017Q1						VOCs 1,4-Dioxane		
SP-424C	2017Q1						VOCs 1,4-Dioxane Fluoride Metals Sodium Perchlorate Radiochemistry		
SP-737A	2017Q3						VOCs 1,4-Dioxane Perchlorate		
SP-737B	2017Q3						VOCs		
SP-737C	2017Q3						VOCs		
WS-04A	2017Q3								1,2,3-TCP
WS-14	2017Q3								1,2,3-TCP 1,4-Dioxane

NOTES AND ABBREVIATIONS

See Table 6 for analyte lists and analysis methods.

(1) One-time analysis request from DTSC

1,2,3-TCP - 1,2,3,-Trichloropropane
APTF - Advanced Propulsion Test Facility
COCs - Constituents of Concern
DQO - Data Quality Objectives Evaluations under the Master RCRA Facility Investigation Data Gap Work Plan
DRO - Diesel Range Organics
ECL - Engineering Chemistry Laboratory
GRO - Gasoline Range Organics
LUFT - Leaking Underground Fuel Tank
MCPA -2-methyl-4-chlorophenoxyacetic acid
MCPP - 2-methyl-4-chlorophenoxypropionic acid
NDMA - n-Nitrosodimethylamine
ORO - Oil Range Organics
PCBs - Polychlorinated Biphenyls
STL - Systems Test Laboratory
TCP - Trichloropropane
VOCs - Volatile Organic Compounds
WQ - water quality
Be - Beryllium
Cd - Cadmium
Hg - Mercury
Ag - Silver

TABLE 6
MONITORING PROGRAM ANALYSES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

ANALYSES ABBREVIATIONS

1,2,3-TCP	1,2,3-Trichloropropane
Appendix IX	Appendix IX monitoring
Background WQ	Background Water Quality Parameters
COCs	Constituents of Concern
COCs (APTF)	Constituents of Concern for Regulated Units APTF-1 and APTF-2
COCs (ECL)	Constituents of Concern for Regulated Unit ECL
COCs (STL-IV)	Constituents of Concern for Regulated Units STL-IV-1 and STL-IV-2
Dioxins	Dioxins and furans (EPA 8290)
DRO	Diesel Range Organics (EPA 8015B)
GRO	Gasoline Range Organics (EPA 8015B)
Herbicides	Chlorinated herbicides (EPA 8151A)
Hex chrome	Hexavalent chromium (EPA 7196A)
Hydrazines	Hydrazine, Momomethyl hydrazine (MMH), and Unsymmetrical dimethylhydrazine (UDMH)
NDMA	n-Nitrosodimethylamine (EPA 1625C/8270D SIM)
PAHs	Polycyclic Aromatic Hydrocarbons (EPA 8270C SIM)
PCBs	Polychlorinated Biphenyls (EPA 8082)
Pesticides	Organochlorine pesticides (EPA 8081A)
Radchem	Radiochemistry
SVOCs	Semi-Volatile Organic Compounds (EPA 8270C)
VOCs	Volatile Organic Compounds (EPA 8260B)

ANALYSES	Analytical Method
1,2,3-Trichloropropane	SRL 524M
1,4-Dioxane	8260B SIM
Alkalinity as CaCO3	SM2320B
Americium-241	EiChrom Am-01
Ammonia-N	350.1
Chloride	300.0
Cyanide	9012
Diesel Range Organics (DRO)	8015B
Dioxins and Furans	8290
Energetics	8330A / 8332
Fluoride	300.0
Formaldehyde	8315A
Gamma-emitting radionuclides	901.1
Gasoline Range Organics (GRO)	8015B
Gross Alpha and Gross Beta	900.0
Herbicides	8151A
Hexavalent chromium (Cr IV)	7196A
Hydrazines	DV-WC-007 / 8315A
Metals (total and dissolved)	6010B, 6020, 6020A, 7470A
Nitrate as NO_3	300.0
Nitrite as NO_2	300.0
n-Nitrosodimethylamine (NDMA), low-level	1625C / 8270D SIM
Polycyclic aromatic hydrocarbons (PAHs)	8270C SIM
Perchlorate	314.0
Perchlorate, low-level	6860 / 6850
Pesticides	8081A / 8270C
pH	9010B / 9040C
Polychlorinated biphenyls (PCBs)	8082
Radium-228	904.0
Semi-volatile organic compounds (SVOCs)	8270C
Specific conductivity	2510B
Strontium-90 (Sr-90)	905.0

TABLE 6
MONITORING PROGRAM ANALYSES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

ANALYSES (continued)	Analytical Method
Sulfate	300.0
Total Dissolved Solids	2540C
Tritium	906.0
Turbidity	180.1 / 2320B
Uranium	908 / HASL 300
Volatile organic compounds (VOCs)	8260B

Dioxins and Furans Analyte List

1,2,3,4,6,7,8-HpCDF	=	1,2,3,4,6,7,8-Heptachlorodibenzofuran
1,2,3,4,6,7,8-HpCDD	=	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
1,2,3,4,7,8,9-HpCDF	=	1,2,3,4,7,8,9-Heptachlorodibenzofuran
1,2,3,4,7,8-HxCDF	=	1,2,3,4,7,8-Hexachlorodibenzofuran
1,2,3,4,7,8-HxCDD	=	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
1,2,3,6,7,8-HxCDF	=	1,2,3,6,7,8-Hexachlorodibenzofuran
1,2,3,6,7,8-HxCDD	=	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
1,2,3,7,8,9-HxCDF	=	1,2,3,7,8,9-Hexachlorodibenzofuran
1,2,3,7,8,9-HxCDD	=	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
1,2,3,7,8-PeCDF	=	1,2,3,7,8-Pentachlorodibenzofuran
1,2,3,7,8-PeCDD	=	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
2,3,4,6,7,8-HxCDF	=	2,3,4,6,7,8-Hexachlorodibenzofuran
2,3,4,7,8-PeCDF	=	2,3,4,7,8-Pentachlorodibenzofuran
2,3,7,8-TCDD	=	2,3,7,8-Tetrachlorodibenzo-p-dioxin
2,3,7,8-TCDD TEQ	=	2,3,7,8-Tetrachlorodibenzo-p-dioxin toxicity equivalence quotient (TEQ)
2,3,7,8-TCDF	=	2,3,7,8-Tetrachlorodibenzofuran
OCDF	=	1,2,3,4,6,7,8,9-Octachlorodibenzofuran
OCDD	=	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin

Notes:

The 2,3,7,8-TCDD TEQ includes all dioxin and furan congeners that are chlorinated in all four of the 2, 3, 7, and 8 positions.
2,3,7,8-TCDD TEQs were calculated using 2005 toxic equivalency factors (van den Berg et al., 2006) [1].
The 2,3,7,8-TCDD TEQ is the sum of the products of the dioxin/furan congener concentration multiplied by that congener's toxic equivalency factor (TEF). A concentration value of zero is used for dioxin/furan congeners that are not detected.

Polycyclic aromatic hydrocarbons (PAHs) Analyte List

1-Methyl naphthalene
2-Methylnaphthalene
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(a)pyrene toxicity equivalence quotient (TEQ)
Benzo(b)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(a,h)anthracene
Fluoranthene
Fluorene
Indeno(1,2,3-cd)pyrene
Naphthalene
Phenanthrene
Pyrene

Notes:

The Benzo(a)pyrene TEQ includes the seven generally recognized carcinogenic PAHs: Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, and Indeno(1,2,3-,cd)pyrene.
The Benzo(a)pyrene TEQ is the sum of the products of the carcinogenic PAH concentration multiplied by that PAH's toxic equivalency factor (TEF). A concentration value of zero is used for carcinogenic PAHs that are not detected.

LABORATORIES

TA-Denver	=	Test America Laboratories - Denver, Colorado
EMAX	=	EMAX Laboratories - Torrance, California

TABLE 6
MONITORING PROGRAM ANALYSES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

REGULATED UNIT MONITORING PROGRAM [2,3] ANALYSES

2010 Post-Closure Permit - Constituents of Concern (COCs)		Analytical Method
COCs (APTF)	1,2,3-Trichloropropane* *(beginning second quarter 2011)*	SRL 524M
	1,4-Dioxane, low level	8260B SIM
	Ammonia	350.1
	Diesel range organics (DRO)	8015B
	Fluoride, Nitrate as NO_3	300.0
	Formaldehyde	8315A
	Hydrazines Hydrazine, Momomethyl hydrazine (MMH), and Unsymmetrical dimethylhydrazine (UDMH)	DV-WC-007 / 8315A
	Isopropyl alcohol	8260B
	Kerosene fuel (RP-1, JP-1, JP-4)	8015B
	Nitrobenzene, 1,3-dinitrobenzene	8270C
	n-Nitrosodimethylamine (NDMA), low-level	1625C / 8270D SIM
	Perchlorate	314.0
	Perchlorate, low-level	6860
	pH	9040B
	Phthalates	8270C
	Volatile organic compounds (VOCs)	8260B
COCs (ECL)	1,2,3-Trichloropropane* *(beginning first quarter 2011)*	SRL 524M
	1,4-Dioxane, low level	8260B SIM
	Ammonia	350.1
	Anthracene* *(beginning third quarter 2010)*	8270C
	Fluoride, Nitrate as NO_3	300.0
	Formaldehyde	8315A
	Nitrobenzene, 1,3-dinitrobenzene	8270C
	n-Nitrosodimethylamine (NDMA), low-level	1625C / 8270D SIM
	Perchlorate	314.0
	Perchlorate, low-level	6860
	pH	9040B
	Phthalates* *(beginning first quarter 2013)*	8270C
	Volatile organic compounds (VOCs)	8260B
COCs (STL-IV)	1,4-Dioxane, low level	8260B SIM
	Ammonia	350.1
	Fluoride, Nitrate as NO_3	300.0
	Formaldehyde	8315A
	Hydrazines Hydrazine, Momomethyl hydrazine (MMH), and Unsymmetrical dimethylhydrazine (UDMH)	DV-WC-007 / 8315
	Isopropyl alcohol	8260B
	Nitrobenzene, 1,3-dinitrobenzene	8270C
	n-Nitrosodimethylamine (NDMA), low-level	1625C / 8270D SIM
	Perchlorate	314.0
	Perchlorate, low-level	6860
	pH	9040B
	Phthalates* *(beginning second quarter 2011)*	8270C
	Volatile organic compounds (VOCs)	8260B

* Added to COC list based on new, verified detections - was not on original COC list in Post-Closure Permit.

TABLE 6
MONITORING PROGRAM ANALYSES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

VOCs Analyte List for Post-Closure Permit COCs (EPA 8260B)	
1,1,1-Trichloroethane	Ethylbenzene
1,1,2-Trichloro-1,2,2-trifluoroethane	Methyl ethyl ketone
1,1,2-Trichloroethane	Methylene chloride
1,1-Dichloroethane	Tetrachloroethene
1,1-Dichloroethene	Toluene
1,2-Dichloroethane	trans-1,2-Dichlorethene
Acetone	Trichloroethene
Benzene	Trichlorofluoromethane
Carbon Tetrachloride	Vinyl chloride
Chloroform	Xylenes
cis-1,2-Dichloroethene	

Background Water Quality Parameters for Post-Closure Permit	Analytical Method
Alkalinity as $CaCO_3$	SM2320B
Ammonia-N	350.1
Chloride, Fluoride, Nitrate as NO_3, Sulfate	300.0
Metals: Calcium, Iron, Magnesium, Manganese, Potassium, Sodium, Strontium, Zinc	6010B
pH	9040B / 9040C
Specific conductivity	2510B
Total Dissolved Solids	2540C
Turbidity	180.1 / 2320B
Appendix IX [4]	**Analytical Method**
1,2,3-Trichloropropane	SRL 524M
1,4-Dioxane, low level	8260B SIM
1,2-Dibromo-3-chloropropane (DBCP) and 1,2-Dibromoethane (EDB)	504.1
Chlorinated herbicides	8151A
Cyanide	9012A / 9014
Dioxins and Furans	8290
Hexachlorophene	8321A / 8151A
Mercury	7470A
Metals: Barium, Cobalt, Tin, Vanadium, and Zinc	6010B / 6020A
Metals: Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Silver, and Thallium	6020 / 6020A
n-Nitrosodimethylamine (NDMA), low-level	1625C / 8270D SIM
Organochlorine pesticides	8081A
Organophosphorous compounds	8141A
Pentachlorophenol	8270C
Polychlorinated biphenyl (PCBs)	8082
Semi-volatile organic compounds (SVOCs)	8270C
Sulfide	376.2
Volatile organic compounds (VOCs)	8260B

TABLE 6
MONITORING PROGRAM ANALYSES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

SITE-WIDE MONITORING PROGRAM [5] ANALYSES

Analytes			Analytical Method
1,2,3-Trichloropropane			SRL 524M
1,4-Dioxane			8260B SIM
Chloride, Fluoride, Nitrate			300.0
Dioxins			8290
Formaldehyde			8315A
Metals: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc			6020 / 6020A
n-Nitrosodimethylamine (NDMA), low-level			1625M
Perchlorate			314.0
Radiochemistry:	Gamma-emitting radionuclides		901.1
	Gross Alpha and Gross Beta		900.0
	Strontium-90		905.0
	Tritium		906.0
	Isotopic Uranium		908.0
Sodium			6010B
VOCs:			8260B
	1,1,1-Trichloroethane	Ethylbenzene	
	1,1,2-Trichloro-1,2,2-trifluoroethane	Methyl ethyl ketone	
	1,1,2-Trichloroethane	Methylene chloride	
	1,1-Dichloroethane	Tetrachloroethene	
	1,1-Dichloroethene	Toluene	
	1,2-Dichloroethane	trans-1,2-Dichlorethene	
	Acetone	Trichloroethene	
	Benzene	Trichlorofluoromethane	
	Carbon Tetrachloride	Vinyl chloride	
	Chloroform	Xylenes	
	cis-1,2-Dichloroethene		

NOTES

1 - van den Berg, M., Birnbaum, L.S., Denison, M., De Vito, M., Farland, W., Feeley, M., Fiedler, H., Hakansson, H., Hanberg, A., Haws, L., Rose, M., Safe, S., Schrenk, D., Tohyama, C., Tritscher, A., Tuomisto, J., Tysklind, M., Walker, N., and Peterson, R.E., 2006. The 2005 World Health Organization Re-evaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds. July 7.

2 - California Department of Toxic Substances Control, 2010. Hazardous Waste Facility Post-Closure Permit, Regional Permit Number PC 94/95-3-02. Permit for Areas I and III, revised January 5, 2010.

3 - Haley & Aldrich, 2010. Regulated Unit Water Quality Sampling and Analysis Plan, Areas I and III, Post-Closure Permit PC-94/95-3-02, Santa Susana Field Laboratory, Ventura County, California, April.

4 - See California Code of Regulations, Title 22 for compound-specific list of analytes

5 - Haley & Aldrich, 2010. Site-Wide Water Quality Sampling and Analysis Plan, Santa Susana Field Laboratory, Ventura County, California, Revision 1, File No. 20080/M489. December.

TABLE 7
EXCEPTIONS TO THE WATER QUALITY SAMPLING AND ANALYSIS PLANS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

WELLS NOT SAMPLED		
Quarter	**Well Identifier**	**Notes**
1	ES-01, ES-06, ES-14, ES-17, ES-26, ES-27, HAR-02, HAR-03, HAR-04, HAR-25, HAR-32, HAR-33, PZ-035, PZ-074, PZ-076, PZ-077, PZ-089, PZ-123, RD-36A, RD-38A, RD-39A, RD-86, RS-13, RS-14, RS-33, RS-35, SH-02, SH-03, SH-04, SH-07, SH-09, SH-11, SP-12, SP-27A	Dry
1	RS-07, SP-27B	Insufficient water column
1	RD-36B, RD-48A, RD-53, RD-55A, RD-85	Water level below pump intake
1	SP-881G, SP-882A, SP-882B, SP-882C, SP-882D, SP-882G, SP-890A, SP-890B, SP-890C, SP-890D, SP-890G	Gauging and sampling performed by NASA in first quarter 2017 pursuant to the DTSC-approved Boeing 2017 Site-Wide Program Gauging and Sampling Plan.
1	RD-01, RD-46A	Groundwater Interim Measures well - cannot be sampled until system is running.
1	S-24/OS-13, SP-737A, SP-737B, SP-737C	No current access agreement with off-site property owner.
3	ES-17, ES-27, HAR-33, PZ-035, PZ-089, RD-36A, RD-38A, RD-53, RD-86, RS-01, RS-07, RS-14, SH-09	Dry
3	HAR-02, RD-39A, RD-48A, RS-13, SH-02, SH-03, SH-04, SH-11	Insufficient water column
3	HAR-32, RD-36B, RS-33	Water level below pump intake
STABILIZATION PARAMETERS NOT COLLECTED AT FIXED INTERVAL		
Quarter	**Well Identifier**	**Notes**
1	ES-29	Parameters collected every 2 to 3 minutes
1	HAR-01	Parameters collected every 2 to 3 minutes
1	RD-12	Parameters collected every 3 to 7 minutes
1	RD-13	Parameters collected every 2 to 3 minutes
1	RD-48C	Parameters collected every 2 to 3 minutes
1	RD-51A	Parameters collected every 2 to 4 minutes
1	RD-77	Parameters collected every 3 to 4 minutes
1	RD-131	Parameters collected every 3 to 5 minutes
3	RD-43C	Parameters collected every 1 to 3 minutes
3	RD-45B	Parameters collected every 2 to 3 minutes
3	RD-52A	Parameters collected every 4 to 5 minutes
3	RD-55A	Parameters collected every 3 to 4 minutes

TABLE 7
EXCEPTIONS TO THE WATER QUALITY SAMPLING AND ANALYSIS PLANS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

PURGE VOLUME REQUIREMENTS NOT MET		
Quarter	**Well Identifier**	**Notes**
1	OS-25	Initial purge volume (2660 mL) not met before stabilization parameters collected (300 mL)
1	RD-32	Initial purge volume (1706 mL) not met before stabilization parameters collected (1650 mL)
1	RD-46B	Initial purge volume (3496 mL) not met before stabilization parameters collected (450 mL)
1	RD-62	Initial purge volume (2642 mL) not met before stabilization parameters collected (450 mL)
1	RD-147	Initial purge volume (780 mL) not met before stabilization parameters collected (150 mL)
LOW-FLOW STABILIZATION CRITERIA NOT MET		
Quarter	**Well Identifier**	**Notes**
1	C-3	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 2, 1.9, and 1.6 NTU.
1	OS-25	Dissolved oxygen readings exceeded ±10%. Dissolved oxygen readings were 4.76, 4.75, 4.01 mg/L.
1	RD-06	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 3.1, 2.7, and 2.2 NTU.
1	RD-12	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 4.3, 3.6, and 3.6 NTU.
1	RD-13	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 1.9, 1.6, and 1.4 NTU.
1	RD-36C	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 6, 5, and 5 NTU.
1	RD-43A	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 7.2, 7.5, and 6.2 NTU.
1	RD-43B	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 8.8, 7.7, and 7.4 NTU.
3	HAR-01	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 4.8, 4.2, and 3.9 NTU.
3	RD-03	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 5, 5, and 6 NTU.
3	RD-11	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 9, 8, and 8 NTU.
3	RD-37	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 8, 7, and 7 NTU.
3	RD-43C	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 4, 3, and 3 NTU.

TABLE 7
EXCEPTIONS TO THE WATER QUALITY SAMPLING AND ANALYSIS PLANS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

LOW-FLOW STABILIZATION CRITERIA NOT MET (continued)		
Quarter	**Well Identifier**	**Notes**
1	RD-121	Oxidation-Reduction Potential (ORP) readings exceeded ±10%. ORP readings were -260.8, -248.9, -248.7 mV.
1	RD-131	Turbidity and dissolved oxygen readings exceeded ±10%, however, turbidity change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 6, 5, and 5 NTU. Dissolved oxygen readings were 2.91, 2.15, and 2.1 mg/L.
1	RD-44	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 4, 4, and 3 NTU.
1	RD-45B	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 8, 7, and 7 NTU.
1	RD-51A	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 1.19, 1.05, and 1.01 NTU.
1	RD-62	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 1.9, 1.6, and 1.3 NTU.
1	RD-76	Water level drawdown during purge exceeded 0.3 feet (max drawdown 0.31 feet; flow rate was 50 mL/minute).
3	RD-45B	Dissolved oxygen readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Dissolved oxygen readings were 0.04, 0.03, and 0.03 mg/L.
3	RD-45C	Dissolved oxygen readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Dissolved oxygen readings were 0.04, 0.05, and 0.05 mg/L.
3	RD-45C (resample)	Dissolved oxygen readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Dissolved oxygen readings were 0.15, 0.15, and 0.17 mg/L.
3	RD-51C	Dissolved oxygen readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Dissolved oxygen readings were 0.14, 0.12, 0.11 mg/L.
3	RD-52A	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 3, 2, and 2 NTU.
3	RD-52C	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 5, 4, and 4 NTU.
3	RD-55A	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 2, 2, and 1 NTU.
3	RD-58A	Water level drawdown during purge exceeded 0.3 feet (max drawdown 0.36 feet; flow rate was 50 mL/minute).
3	RD-58B	Turbidity readings exceeded ±10%, however change >10% is a mathematical artifact resulting from relatively small values where a small absolute change equates to a large percentage change; should be considered stable. Turbidity readings were 5, 5, and 4 NTU.

TABLE 7
EXCEPTIONS TO THE WATER QUALITY SAMPLING AND ANALYSIS PLANS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

QUALITY ASSURANCE PROJECT PLAN (QAPP) REQUIREMENTS		
Quarter	**Requirement**	**Exceptions**
1	Trip blanks submitted daily with primary and split samples analyzed for volatile organic compounds (VOCs) and gasoline range organics (GRO).	95% submitted
1	Quality control (QC) samples collected	See Appendix B Section 3.1.3 for details
1	Precision/Accuracy requirements met	**Split sample precision:** Two relative percent difference (RPD) exceeded the project acceptance criterion (Appendix B, Section 3.2.2). **Field duplicate sample precision:** None - All RPD values met the project acceptance criterion (Appendix B, Section 3.2.3). **Blank accuracy:** The project acceptance criterion for blank sample accuracy was met except for the analyses listed in Appendix B, Section 3.2.4.
3	Trip blanks submitted daily with primary and split samples analyzed for volatile organic compounds (VOCs) and gasoline range organics (GRO).	96% submitted
3	Quality control (QC) samples collected	See Appendix B Section 3.1.3 for details
3	Precision/Accuracy requirements met	**Split sample precision:** None - All RPD values met the project acceptance criterion (Appendix B, Section 3.2.2). **Field duplicate sample precision:** None - All RPD values met the project acceptance criterion (Appendix B, Section 3.2.3). **Blank accuracy:** The project acceptance criterion for blank sample accuracy was met except for the analyses listed in Appendix B, Section 3.2.4.
OTHER - includes sampling performed outside of Regulated Unit and Site-Wide Programs		
Quarter	**Issue**	
1	Wells under the Leaking Underground Fuel Tanks (LUFT) Monitoring Program that were not sampled include: RD-36A, RD-38A, RS-01, RS-30, RS-31 - Dry RD-36B, RD-53 - Water level below pump intake	
1	Appendix IX sampling has not been performed at two wells (PZ-089 and RS-14) since implementation of the 2010 Regulated Unit Post-Closure Permit Monitoring Programs because the wells were either dry or contained insufficient water for purging.	
1	Low-flow Stabilization Criteria Not Met: RD-73	Turbidity readings exceeded ±10%. Turbidity readings were 3.6, 3.3, and 2.9 NTU.

TABLE 7
EXCEPTIONS TO THE WATER QUALITY SAMPLING AND ANALYSIS PLANS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

OTHER - includes sampling performed outside of Regulated Unit and Site-Wide Programs **(continued)**	
Quarter	**Issue**
3	Wells under the Leaking Underground Fuel Tanks (LUFT) Monitoring Program that were not sampled include: RD-36A, RD-38A, RD-53, RS-01 - Dry RD-36B - Water level below pump intake
3	Appendix IX sampling has not been performed at two wells (PZ-089 and RS-14) since implementation of the 2010 Regulated Unit Post-Closure Permit Monitoring Programs because the wells were either dry or contained insufficient water for purging.
3	Low-flow Stabilization Criteria Not Met: RD-32 — Dissolved oxygen readings exceeded ±10%. Dissolved oxygen readings were 0.17 0.18, 0.18 mg/L. RD-73 — Dissolved oxygen readings exceeded ±10%. Dissolved oxygen readings were 0.15 0.13, 0.13 mg/L. RD-129 — Conductivity readings exceeded ±3%. Turbidity readings were 1.189, 1.121, and 1.123 NTU. RS-32 — Turbidity readings exceeded ±10%. Turbidity readings were 8, 7, and 7 NTU.
3	Stablilization Parameters Not Collected at Fixed Intervals RD-73 — Parameters collected every 2 to 3 minutes

ABBREVIATIONS

mg/L - milligrams per liter
mL - milliliters
NTU - nephelometric turbidity unit

TABLE 8
GROUNDWATER REFERENCE VALUES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte Group	Chemical Analyte	Reference Value	Units	Reference Type
Radiochemistry	Antimony-125	300	pCi/L	Primary MCL [a]
Radiochemistry	Barium-133	1520	pCi/L	Primary MCL [b]
Radiochemistry	Barium-137m	2150000	pCi/L	Primary MCL [b]
Radiochemistry	Carbon-14	2000	pCi/L	Primary MCL [a]
Radiochemistry	Cesium-134	80	pCi/L	Primary MCL [a]
Radiochemistry	Cesium-137	200	pCi/L	Primary MCL [a]
Radiochemistry	Cobalt-57	1000	pCi/L	Primary MCL [a]
Radiochemistry	Cobalt-60	100	pCi/L	Primary MCL [a]
Radiochemistry	Europium-152	200	pCi/L	Primary MCL [a]
Radiochemistry	Gross alpha	15	pCi/L	Primary MCL
Radiochemistry	Gross beta	50	pCi/L	Cal MCL
Radiochemistry	Gross beta	4	mrem/yr	Primary MCL
Radiochemistry	Iodine-129	1	pCi/L	Primary MCL [a]
Radiochemistry	Manganese-54	300	pCi/L	Primary MCL [a]
Radiochemistry	Neptunium-236	5960	pCi/L	Primary MCL [b]
Radiochemistry	Niobium-94	707	pCi/L	Primary MCL [b]
Radiochemistry	Radium-226/228	5	pCi/L	Primary MCL
Radiochemistry	Sodium-22	400	pCi/L	Primary MCL [a]
Radiochemistry	Strontium-90	8	pCi/L	Primary MCL
Radiochemistry	Thulium-171	1000	pCi/L	Primary MCL [a]
Radiochemistry	Tin-126	293	pCi/L	Primary MCL [b]
Radiochemistry	Tritium	20000	pCi/L	Primary MCL
Radiochemistry	Uranium-233/234	20	pCi/L	Cal MCL
Radiochemistry	Uranium-235	20	pCi/L	Cal MCL
Radiochemistry	Uranium-238	20	pCi/L	Cal MCL
Halogenated Ethenes	1,2-Dichloroethenes	130	mg/L	SWGW RBSL
Halogenated Ethenes	Tetrachloroethene	5	mg/L	Primary MCL
Halogenated Ethenes	Trichloroethene	5	mg/L	Primary MCL
Halogenated Ethenes	cis-1,2-Dichloroethene	6	mg/L	Cal MCL
Halogenated Ethenes	trans-1,2-Dichloroethene	10	mg/L	Cal MCL
Halogenated Ethenes	1,1-Dichloroethene	6	mg/L	Cal MCL
Halogenated Ethenes	Vinyl chloride	0.5	mg/L	Cal MCL
Halogenated Ethanes	1,1,2,2-Tetrachloroethane	1	mg/L	Cal MCL
Halogenated Ethanes	1,1,2-Trichloroethane	5	mg/L	Primary MCL
Halogenated Ethanes	1,1,1-Trichloroethane	200	mg/L	Primary MCL
Halogenated Ethanes	1,2-Dichloroethane	0.5	mg/L	Cal MCL
Halogenated Ethanes	1,1-Dichloroethane	5	mg/L	Cal MCL
Halogenated Ethanes	Chloroethane	16	mg/L	Taste/Odor
Halogenated Ethanes	1,2-Dibromoethane	0.05	mg/L	Primary MCL
Halogenated Ethanes	1,1,2-Trichloro-1,2,2-trifluoroethane	1200	mg/L	Cal MCL
Halogenated Ethanes	1,2-Dichloro-1,1,2-trifluoroethane	190000	mg/L	SWGW RBSL
Halogenated Ethanes	2,2-Dichloro-1,1,1-trifluoroethane	190000	mg/L	SWGW RBSL
Halogenated Methanes	Carbon Tetrachloride	0.5	mg/L	Cal MCL
Halogenated Methanes	Chloroform	80	mg/L	Primary MCL
Halogenated Methanes	Methylene chloride	5	mg/L	Primary MCL
Halogenated Methanes	Chloromethane	5.7	mg/L	SWGW RBSL
Halogenated Methanes	Trichlorofluoromethane	150	mg/L	Cal MCL
Halogenated Methanes	Dichlorodifluoromethane	1000	mg/L	Notification Level
Halogenated Methanes	Bromochloromethane	34000	mg/L	Taste/Odor
Halogenated Methanes	Bromodichloromethane	80	mg/L	Primary MCL
Halogenated Methanes	Bromoform	80	mg/L	Primary MCL
Halogenated Methanes	Bromomethane	8.8	mg/L	SWGW RBSL
Halogenated Methanes	Dibromochloromethane	80	mg/L	Primary MCL

TABLE 8
GROUNDWATER REFERENCE VALUES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte Group	Chemical Analyte	Reference Value	Units	Reference Type
Non-Halogenated VOCs	2-Heptanone	280	mg/L	Taste/Odor
Non-Halogenated VOCs	Benzyl chloride	12	mg/L	Taste/Odor
Non-Halogenated VOCs	Cumene (Isopropylbenzene)	770	mg/L	Notification Level
Non-Halogenated VOCs	Ethanol	760000	mg/L	Taste/Odor
Non-Halogenated VOCs	Ethyl acetate	2600	mg/L	Taste/Odor
Non-Halogenated VOCs	Ethyl ether	750	mg/L	Taste/Odor
Non-Halogenated VOCs	Methanol	740000	mg/L	Taste/Odor
Non-Halogenated VOCs	m-Xylene & p-Xylene	1750	mg/L	Cal MCL
Non-Halogenated VOCs	n-Hexane	6.4	mg/L	Taste/Odor
Non-Halogenated VOCs	Pentanal	17	mg/L	Taste/Odor
Non-Halogenated VOCs	sec-Butyl alcohol	19000	mg/L	Taste/Odor
Non-Halogenated VOCs	tert-Butyl alcohol	12	mg/L	Notification Level
Non-Halogenated VOCs	1,3,5-Trimethylbenzene	330	mg/L	Notification Level
Non-Halogenated VOCs	1,2,4-Trimethylbenzene	330	mg/L	Notification Level
Non-Halogenated VOCs	2-Hexanone	250	mg/L	Taste/Odor
Non-Halogenated VOCs	Acetone	20000	mg/L	Taste/Odor
Non-Halogenated VOCs	Acetonitrile	300000	mg/L	Taste/Odor
Non-Halogenated VOCs	Acrolein	110	mg/L	Taste/Odor
Non-Halogenated VOCs	Acrylonitrile	910	mg/L	Taste/Odor
Non-Halogenated VOCs	Benzene	1	mg/L	Cal MCL
Non-Halogenated VOCs	Carbon Disulfide	160	mg/L	Notification Level
Non-Halogenated VOCs	Ethane	7500	mg/L	Taste/Odor
Non-Halogenated VOCs	Ethylbenzene	300	mg/L	Cal MCL
Non-Halogenated VOCs	Ethylene	39	mg/L	Taste/Odor
Non-Halogenated VOCs	Isopropanol	160000	mg/L	Taste/Odor
Non-Halogenated VOCs	m-Xylene	1750	mg/L	Cal MCL
Non-Halogenated VOCs	Methacrylonitrile	2100	mg/L	Taste/Odor
Non-Halogenated VOCs	Methane	3100	mg/L	SWGW RBSL
Non-Halogenated VOCs	Methyl ethyl ketone	3800	mg/L	SWGW RBSL
Non-Halogenated VOCs	Methyl isobutyl ketone (MIBK)	120	mg/L	Notification Level
Non-Halogenated VOCs	Methyl methacrylate	25	mg/L	Taste/Odor
Non-Halogenated VOCs	Methyl tert-butyl ether	5	mg/L	Secondary MCL
Non-Halogenated VOCs	n-Butylbenzene	260	mg/L	Notification Level
Non-Halogenated VOCs	n-Propylbenzene	260	mg/L	Notification Level
Non-Halogenated VOCs	o + p Xylene	1750	mg/L	Cal MCL
Non-Halogenated VOCs	o-Xylene	1750	mg/L	Cal MCL
Non-Halogenated VOCs	sec-Butylbenzene	260	mg/L	Notification Level
Non-Halogenated VOCs	Styrene	100	mg/L	Primary MCL
Non-Halogenated VOCs	tert-Butylbenzene	260	mg/L	Notification Level
Non-Halogenated VOCs	Toluene	150	mg/L	Cal MCL
Non-Halogenated VOCs	Vinyl acetate	88	mg/L	Taste/Odor
Non-Halogenated VOCs	Xylenes, Total	1750	mg/L	Cal MCL
Halogenated Benzenes	1,2,3-Trichlorobenzene	2.1	mg/L	SWGW RBSL
Halogenated Benzenes	1,2,4-Trichlorobenzene	5	mg/L	Cal MCL
Halogenated Benzenes	1,2-Dichlorobenzene	600	mg/L	Primary MCL
Halogenated Benzenes	1,3-Dichlorobenzene	600	mg/L	Archived Advisory Level
Halogenated Benzenes	1,4-Dichlorobenzene	5	mg/L	Cal MCL
Halogenated Benzenes	Chlorobenzene	70	mg/L	Cal MCL
Halogenated Propene/Propanes	1,2,3-Trichloropropane	0.005	mg/L	Notification Level
Halogenated Propene/Propanes	1,2-Dibromo-3-chloropropane	0.2	mg/L	Primary MCL
Halogenated Propene/Propanes	1,2-Dichloropropane	5	mg/L	Primary MCL
Halogenated Propene/Propanes	1,3-Dichloropropane	130	mg/L	SWGW RBSL
Halogenated Propene/Propanes	1,3-Dichloropropene	0.5	mg/L	Cal MCL

TABLE 8
GROUNDWATER REFERENCE VALUES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte Group	Chemical Analyte	Reference Value	Units	Reference Type
Halogenated Propene/Propanes	Allyl chloride	8.9	mg/L	Taste/Odor
Halogenated Propene/Propanes	cis-1,3-Dichloropropene	0.5	mg/L	Cal MCL
Halogenated Propene/Propanes	trans-1,3-Dichloropropene	0.81	mg/L	SWGW RBSL
Other Halogenated VOCs	o-Chlorotoluene	140	mg/L	Notification Level
Other Halogenated VOCs	p-Chlorotoluene	140	mg/L	Notification Level
1,4-Dioxane	1,4-Dioxane	1	mg/L	Notification Level
SVOC	Diphenyl ether	630	mg/L	SWGW RBSL
SVOC	p-Cresol	63	mg/L	SWGW RBSL
SVOC	p-Dinitrobenzene	1.3	mg/L	SWGW RBSL
SVOC	Diazinon	1.2	mg/L	Notification Level
SVOC	Diethyl phthalate	10000	mg/L	SWGW RBSL
SVOC	Ethylene glycol	14000	mg/L	Notification Level
SVOC	Formaldehyde	100	mg/L	Notification Level
SVOC	Hydrazine	160000	mg/L	Taste/Odor
SVOC	m-Cresol	37	mg/L	Taste/Odor
SVOC	o-Cresol	630	mg/L	SWGW RBSL
SVOC	1,3-Dinitrobenzene	1.3	mg/L	SWGW RBSL
SVOC	2,4,6-Trichlorophenol	2.1	mg/L	SWGW RBSL
SVOC	2,4-Dimethylphenol	100	mg/L	Archived Advisory Level
SVOC	2,6-Dinitrotoluene	0.22	mg/L	SWGW RBSL
SVOC	2-Chlorophenol	63	mg/L	SWGW RBSL
SVOC	3,3'-Dichlorobenzidine	0.12	mg/L	SWGW RBSL
SVOC	4,6-Dinitro-o-cresol	1.3	mg/L	SWGW RBSL
SVOC	Aniline	65000	mg/L	Taste/Odor
SVOC	Benzidine	0.0003	mg/L	SWGW RBSL
SVOC	Benzoic acid	50000	mg/L	SWGW RBSL
SVOC	bis(2-Chloroethoxy)methane	38	mg/L	SWGW RBSL
SVOC	bis(2-Chloroethyl) ether	360	mg/L	Taste/Odor
SVOC	bis(2-Ethylhexyl) phthalate	4	mg/L	Cal MCL
SVOC	Butyl benzyl phthalate	78	mg/L	SWGW RBSL
SVOC	Di-n-butyl phthalate	1300	mg/L	SWGW RBSL
SVOC	Di-n-octyl phthalate	500	mg/L	SWGW RBSL
SVOC	Dimethyl phthalate	130000	mg/L	SWGW RBSL
SVOC	Hexachlorobenzene	1	mg/L	Primary MCL
SVOC	Hexachlorocyclopentadiene	50	mg/L	Primary MCL
SVOC	Hexachloroethane	10	mg/L	Taste/Odor
SVOC	Isophorone	5400	mg/L	Taste/Odor
SVOC	n-Nitrosodi-n-propylamine	0.01	mg/L	Notification Level
SVOC	n-Nitrosodiethylamine	0.01	mg/L	Notification Level
SVOC	n-Nitrosodiphenylamine	16	mg/L	SWGW RBSL
SVOC	Nitrobenzene	110	mg/L	Taste/Odor
SVOC	o-Toluidine	11000	mg/L	Taste/Odor
SVOC	Pentachloronitrobenzene	20	mg/L	Archived Advisory Level
SVOC	Pentachlorophenol	1	mg/L	Primary MCL
SVOC	Phenol	4200	mg/L	Archived Advisory Level
SVOC	Pyridine	950	mg/L	Taste/Odor
PAH	1-Methyl naphthalene	2.6	mg/L	SWGW RBSL
PAH	2-Methylnaphthalene	50	mg/L	SWGW RBSL
PAH	Acenaphthene	380	mg/L	SWGW RBSL
PAH	Acenaphthylene	380	mg/L	SWGW RBSL
PAH	Anthracene	3800	mg/L	SWGW RBSL
PAH	Benzo(a)pyrene	0.2	mg/L	Primary MCL
PAH	Fluoranthene	250	mg/L	SWGW RBSL

TABLE 8
GROUNDWATER REFERENCE VALUES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte Group	Chemical Analyte	Reference Value	Units	Reference Type
PAH	Fluorene	250	mg/L	SWGW RBSL
PAH	Naphthalene	17	mg/L	Notification Level
PAH	Phenanthrene	3800	mg/L	SWGW RBSL
PAH	Pyrene	380	mg/L	SWGW RBSL
NDMA	n-Nitrosodimethylamine	0.01	mg/L	Notification Level
Energetics	Perchlorate	6	mg/L	Cal MCL
Energetics	2,4,6-Trinitrotoluene	1	mg/L	Notification Level
Energetics	HMX	350	mg/L	Notification Level
Energetics	RDX	0.3	mg/L	Notification Level
TPH	Hydrocarbons	500	mg/L	SWGW RBSL
TPH	Fuel Hydrocarbons, C6-C14, as JP-4	1800	mg/L	SWGW RBSL
TPH	Fuel Hydrocarbons, C6-C15, as JP-4	1800	mg/L	SWGW RBSL
TPH	Fuel Hydrocarbons, C6-C16, as JP-4	1800	mg/L	SWGW RBSL
TPH	Fuel Hydrocarbons, C6-C16, C21-C24, as JP-4	1800	mg/L	SWGW RBSL
TPH	Fuel Hydrocarbons, C6-C7	500	mg/L	SWGW RBSL
TPH	Fuel Hydrocarbons, C7-C10, as gasoline	5	mg/L	Taste/Odor
TPH	Fuel Hydrocarbons, C7-C14, as JP-4	1800	mg/L	SWGW RBSL
TPH	Fuel Hydrocarbons, C7-C16, as JP-4	1800	mg/L	SWGW RBSL
TPH	Fuel Hydrocarbons, C8-C10, as gasoline	5	mg/L	Taste/Odor
TPH	Hydrocarbons	1800	mg/L	SWGW RBSL
TPH	Hydrocarbons	1800	mg/L	SWGW RBSL
TPH	Gasoline Range Organics (C4-C12)	5	mg/L	Taste/Odor
TPH	Gasoline Range Organics (C6-C14)	5	mg/L	Taste/Odor
TPH	Gasoline Range Organics (C7-C12)	5	mg/L	Taste/Odor
TPH	Diesel Range Organics	100	mg/L	Taste/Odor
TPH	Diesel Range Organics (C12-C14)	100	mg/L	Taste/Odor
TPH	Diesel Range Organics (C13-C22)	100	mg/L	Taste/Odor
TPH	Diesel Range Organics (C14-C20)	100	mg/L	Taste/Odor
TPH	Diesel Range Organics (C15-C20)	100	mg/L	Taste/Odor
TPH	Diesel Range Organics (C20-C30)	100	mg/L	Taste/Odor
TPH	Diesel Range Organics (C21-C24)	100	mg/L	Taste/Odor
TPH	Diesel Range Organics (C21-C30)	100	mg/L	Taste/Odor
TPH	Diesel Range Organics (C8-C11)	100	mg/L	Taste/Odor
TPH	Diesel Range Organics (C8-C30)	100	mg/L	Taste/Odor
TPH	Fuel Hydrocarbons, C6-C17, as JP-4	1800	mg/L	SWGW RBSL
TPH	Gasoline Range Organics (C8-C11)	1800	mg/L	SWGW RBSL
TPH	Jet Fuel 4 (C6-C13)	1800	mg/L	SWGW RBSL
TPH	Kerosene (C10-C12)	1800	mg/L	SWGW RBSL
TPH	Kerosene (C10-C14)	1800	mg/L	SWGW RBSL
TPH	Kerosene Range Organics (C11-C14)	1800	mg/L	SWGW RBSL
TPH	Total Petroleum Hydrocarbons (as Kerosene)	1800	mg/L	SWGW RBSL
TPH	Gasoline Range Organics	5	mg/L	Taste/Odor
TPH	Gasoline Range Organics (C6-C12)	5	mg/L	Taste/Odor
PCB	Aroclor 1016	0.5	mg/L	Primary MCL
PCB	Polychlorinated biphenyls	0.5	mg/L	Primary MCL
PCB	Aroclor 1254	0.5	mg/L	Primary MCL
PCB	Aroclor 1260	0.5	mg/L	Primary MCL
PCB	Aroclor 1221	0.5	mg/L	Primary MCL
PCB	Aroclor 1232	0.5	mg/L	Primary MCL
PCB	Aroclor 1242	0.5	mg/L	Primary MCL
PCB	Aroclor 1248	0.5	mg/L	Primary MCL
Herbicides	2,4,5-Trichlorophenoxypropionic acid (Silvex)	50	mg/L	Cal MCL
Herbicides	2,4-Dichlorophenoxyacetic Acid (2,4-D)	130	mg/L	SWGW RBSL

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GROUNDWATER REFERENCE VALUES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte Group	Chemical Analyte	Reference Value	Units	Reference Type
Herbicides	2,4,5-T	130	mg/L	SWGW RBSL
Herbicides	Dalapon	200	mg/L	Cal MCL
Herbicides	Dinoseb	7	mg/L	Primary MCL
Herbicides	Propachlor	90	mg/L	Notification Level
Pesticides	Kepone	0.0093	mg/L	SWGW RBSL
Pesticides	Endosulfan I	75	mg/L	SWGW RBSL
Pesticides	Endosulfan II	75	mg/L	SWGW RBSL
Pesticides	gamma-BHC	0.2	mg/L	Primary MCL
Pesticides	Methyl parathion	2	mg/L	Archived Advisory Level
Pesticides	p,p'-Methoxychlor	30	mg/L	Cal MCL
Pesticides	Parathion	40	mg/L	Archived Advisory Level
Pesticides	Endosulfan sulfate	75	mg/L	SWGW RBSL
Pesticides	4,4'-DDE	0.44	mg/L	SWGW RBSL
Pesticides	Aldrin	0.002	mg/L	Archived Advisory Level
Pesticides	alpha-BHC	0.015	mg/L	Archived Advisory Level
Pesticides	beta-BHC	0.025	mg/L	Archived Advisory Level
Pesticides	Chlordane	0.1	mg/L	Cal MCL
Pesticides	Dieldrin	0.002	mg/L	Archived Advisory Level
Pesticides	Dimethoate	1	mg/L	Archived Advisory Level
Pesticides	4,4'-DDD	0.62	mg/L	SWGW RBSL
Pesticides	Toxaphene	3	mg/L	Primary MCL
Pesticides	Endrin	2	mg/L	Primary MCL
Pesticides	Heptachlor	0.01	mg/L	Cal MCL
Pesticides	Heptachlor epoxide	0.01	mg/L	Cal MCL
Dioxins/Furans	2,3,7,8-TCDD	0.00003	mg/L	Primary MCL
Metals	Aluminum, Dissolved	13000	mg/L	SWGW RBSL
Metals	Boron, Dissolved	340	mg/L	SSFL Comparison
Metals	Tin, Dissolved	2.4	mg/L	SSFL Comparison
Metals	Antimony, Dissolved	2.5	mg/L	SSFL Comparison
Metals	Arsenic, Dissolved	7.7	mg/L	SSFL Comparison
Metals	Barium, Dissolved	150	mg/L	SSFL Comparison
Metals	Beryllium, Dissolved	0.14	mg/L	SSFL Comparison
Metals	Cadmium, Dissolved	0.2	mg/L	SSFL Comparison
Metals	Chromium, Dissolved	14	mg/L	SSFL Comparison
Metals	Cobalt, Dissolved	1.9	mg/L	SSFL Comparison
Metals	Copper, Dissolved	4.7	mg/L	SSFL Comparison
Metals	Hexavalent Chromium, Dissolved	10	mg/L	Cal MCL
Metals	Iron, Dissolved	4100	mg/L	SSFL Comparison
Metals	Lead, Dissolved	11	mg/L	SSFL Comparison
Metals	Magnesium, Dissolved	77000	mg/L	SSFL Comparison
Metals	Manganese, Dissolved	150	mg/L	SSFL Comparison
Metals	Mercury, Dissolved	0.063	mg/L	SSFL Comparison
Metals	Molybdenum, Dissolved	2.2	mg/L	SSFL Comparison
Metals	Nickel, Dissolved	17	mg/L	SSFL Comparison
Metals	Potassium, Dissolved	9600	mg/L	SSFL Comparison
Metals	Selenium, Dissolved	1.6	mg/L	SSFL Comparison
Metals	Silver, Dissolved	0.17	mg/L	SSFL Comparison
Metals	Sodium, Dissolved	190000	mg/L	SSFL Comparison
Metals	Strontium, Dissolved	800	mg/L	SSFL Comparison
Metals	Thallium, Dissolved	0.13	mg/L	SSFL Comparison
Metals	Vanadium, Dissolved	2.6	mg/L	SSFL Comparison
Metals	Zinc, Dissolved	6300	mg/L	SSFL Comparison
Metals	Aluminum	200	mg/L	Secondary MCL

TABLE 8
GROUNDWATER REFERENCE VALUES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte Group	Chemical Analyte	Reference Value	Units	Reference Type
Metals	Antimony	2.5	mg/L	SSFL Comparison
Metals	Arsenic	7.7	mg/L	SSFL Comparison
Metals	Barium	150	mg/L	SSFL Comparison
Metals	Beryllium	0.14	mg/L	SSFL Comparison
Metals	Boron	340	mg/L	SSFL Comparison
Metals	Cadmium	0.2	mg/L	SSFL Comparison
Metals	Chromium	14	mg/L	SSFL Comparison
Metals	Cobalt	1.9	mg/L	SSFL Comparison
Metals	Copper	4.7	mg/L	SSFL Comparison
Metals	Hexavalent Chromium	10	mg/L	Cal MCL
Metals	Iron	4100	mg/L	SSFL Comparison
Metals	Lead	11	mg/L	SSFL Comparison
Metals	Magnesium	77000	mg/L	SSFL Comparison
Metals	Manganese	150	mg/L	SSFL Comparison
Metals	Mercury	0.063	mg/L	SSFL Comparison
Metals	Molybdenum	2.2	mg/L	SSFL Comparison
Metals	Nickel	17	mg/L	SSFL Comparison
Metals	Potassium	9600	mg/L	SSFL Comparison
Metals	Selenium	1.6	mg/L	SSFL Comparison
Metals	Silver	0.17	mg/L	SSFL Comparison
Metals	Sodium	190000	mg/L	SSFL Comparison
Metals	Strontium	800	mg/L	SSFL Comparison
Metals	Thallium	0.13	mg/L	SSFL Comparison
Metals	Tin	2.4	mg/L	SSFL Comparison
Metals	Vanadium	2.6	mg/L	SSFL Comparison
Metals	Zinc	6300	mg/L	SSFL Comparison
Inorganics	Chlorine	4000	mg/L	Primary MCL
Inorganics	Nitrate-NO3	45000	mg/L	Cal MCL
Inorganics	Nitrite-NO2	3284	mg/L	Primary MCL [(c)]
Inorganics	Ammonia-N	30000	mg/L	Taste/Odor
Inorganics	Chloride	250000	mg/L	Secondary MCL
Inorganics	Chlorate	0.8	mg/L	Notification Level
Inorganics	Cyanides	150	mg/L	Cal MCL
Inorganics	Fluoride	800	mg/L	SSFL Comparison
Inorganics	Nitrate-N	10000	mg/L	Cal MCL
Inorganics	Nitrite-N	1000	mg/L	Primary MCL
Inorganics	Sulfate	376000	mg/L	SSFL Comparison
Inorganics	Total Dissolved Solids	500000	mg/L	Recommended SMCL
Inorganics	Total Dissolved Solids	1000000	mg/L	Upper SMCL
Inorganics	Total Dissolved Solids	1500000	mg/L	Short-Term SMCL
General Parameters	Formic Acid	1700000	mg/L	Taste/Odor
General Parameters	Turbidity	5	NTU	Secondary MCL
General Parameters	Specific conductivity	900	umhos/cm	Recommended SMCL
General Parameters	Specific conductivity	1600	umhos/cm	Upper SMCL
General Parameters	Specific conductivity	2200	umhos/cm	Short-Term SMCL

TABLE 8
GROUNDWATER REFERENCE VALUES
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

NOTES AND ABBREVIATIONS

These values are presented only to provide general context for reported concentrations in groundwater and are not site-specific approved values for remediation/cleanup decisions.

(a) - isotope-specific MCL for beta emitters based on Primary MCL of 4 mrem/yr critical organ dose limit for gross beta (EPA, 2000)
(b) - isotope-specific MCL for beta emitters based on the 4 mrem/yr effective dose equivalent for gross beta (EPA, 2000)
(c) - conversion from Primary MCL for Nitrite-N

VOCs - volatile organic compounds	Primary MCL - Primary Maximum Contaminant Level	mg/L - micrograms per liter
SVOC - semi volatile organic compour	Cal MCL - California Primary Maximum Contaminant Level	pCi/L - picocuries per liter
PAH - polycyclic aromatic hydrocarbor	Secondary MCL - Secondary Maximum Contaminant Level	mrem/yr - millirem per year
NDMA - n-Nitrosodimethylamine	SMCL - Secondary Maximum Contaminant Level	NTU - nephelometric turbidity units
TPH - total petroleum hydrocarbons	Taste/Odor - Taste/Odor Threshold	umhos/cm - micromhos per centimeter
PCB - polychlorinated biphenyl	SSFL Comparison - site-specific values for metals developed by DTSC	
	SWGW RBSL - Site-Wide Groundwater Risk-Based Screening Level developed using process defined in GW RI Report (M\	

TABLE 9
FIRST-TIME DETECTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte	Well Identifier	Event	Sample Type	Result	Groundwater Reference Value	Units	Reference Type	Groundwater Unit
1,1,2-Trichloro-1,2,2-trifluoroethane	RD-46A	2017Q3	Primary Sample	0.76 J	1200	ug/L	Cal MCL	Chatsworth
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	HAR-03	2017Q3	Primary Sample	1.7 J	--	pg/L	--	Shallow
1,2,3-Trichloropropane	RD-48C	2017Q1	Primary Sample	0.0017 J	0.005	ug/L	Notification Level	Chatsworth
1,2-Dichloroethane	RD-46A	2017Q3	Primary Sample	0.26 J	0.5	ug/L	Cal MCL	Chatsworth
1,4-Dioxane	RD-51A	2017Q3	Primary Sample	0.35 J	1	ug/L	Notification Level	Chatsworth
2,4-Dichlorophenoxybutyric acid	RD-73	2017Q3	Field Duplicate	1.7 J	--	ug/L	--	Chatsworth
Acetone	SP-22A	2017Q3	Primary Sample	5.9 J	20000	ug/L	Taste/Odor	Shallow
	SP-22B	2017Q3	Primary Sample	7.6 J	20000	ug/L	Taste/Odor	Shallow
Antimony, Dissolved	SP-424C	2017Q1	Primary Sample	0.00054 J	0.0025	mg/L	SSFL Comparison	Chatsworth
Arsenic, Dissolved	HAR-03	2017Q3	Primary Sample	0.00034 J	0.0077	mg/L	SSFL Comparison	Shallow
	SP-424C	2017Q1	Primary Sample	0.00059 J	0.0077	mg/L	SSFL Comparison	Chatsworth
Benzene	RD-46A	2017Q3	Primary Sample	0.2 J	1	ug/L	Cal MCL	Chatsworth
Beryllium	HAR-03	2017Q3	Primary Sample	0.00008 J	0.00014	mg/L	SSFL Comparison	Shallow
Beryllium, Dissolved	HAR-03	2017Q3	Primary Sample	0.000097 J	0.00014	mg/L	SSFL Comparison	Shallow
	SP-424C	2017Q1	Primary Sample	**0.00028 J**	0.00014	mg/L	SSFL Comparison	Chatsworth
bis(2-Ethylhexyl) phthalate	RD-99	2017Q3	Primary Sample	0.98 J	4	ug/L	Cal MCL	Chatsworth
Carbon Disulfide	HAR-16	2017Q1	Split Sample	0.27 J	160	ug/L	Notification Level	Chatsworth
Chromium, Dissolved	RD-10	2017Q1	Primary Sample	0.00052 J	0.014	mg/L	SSFL Comparison	Chatsworth
Copper, Dissolved	HAR-01	2017Q1	Primary Sample	0.0018 J	0.0047	mg/L	SSFL Comparison	Chatsworth
	HAR-03	2017Q3	Primary Sample	0.0015 J	0.0047	mg/L	SSFL Comparison	Shallow
	RD-103 QA-15	2017Q1	Primary Sample	0.0022	0.0047	mg/L	SSFL Comparison	Chatsworth
	RD-120 QA-10	2017Q1	Primary Sample	0.0012 J	0.0047	mg/L	SSFL Comparison	Chatsworth
Dalapon	RD-73	2017Q3	Field Duplicate	14 J	200	ug/L	Cal MCL	Chatsworth
Diesel Range Organics (C15-C20)	RD-37	2017Q1	Primary Sample	**0.63**	0.1	mg/L	Taste/Odor	Chatsworth
Diesel Range Organics (C21-C30)	RD-45B	2017Q3	Primary Sample	**0.12 J**	0.1	mg/L	Taste/Odor	Chatsworth
	RD-50	2017Q1	Split Sample	**0.12 J**	0.1	mg/L	Taste/Odor	Chatsworth
Diesel Range Organics (C8-C30)	RD-37	2017Q1	Primary Sample	**0.62**	0.1	mg/L	Taste/Odor	Chatsworth
Diethyl phthalate	RD-03	2017Q1	Primary Sample	0.64 J	10000	ug/L	SWGW RBSL	Chatsworth
	RD-130	2017Q3	Primary Sample	1.4 J	10000	ug/L	SWGW RBSL	Chatsworth
	RD-35B	2017Q3	Primary Sample	0.055 J	10000	ug/L	SWGW RBSL	Chatsworth
Formaldehyde	HAR-25	2017Q3	Primary Sample	21 J	100	ug/L	Notification Level	Chatsworth
	RD-43A	2017Q1	Primary Sample	11 J	100	ug/L	Notification Level	Chatsworth
	RD-45C	2017Q1	Primary Sample	13 J	100	ug/L	Notification Level	Chatsworth
	RD-77	2017Q1	Primary Sample	13 J	100	ug/L	Notification Level	Chatsworth
Gasoline Range Organics (C6-C12)	RD-103 QA-15 *	2017Q1	Primary Sample	**0.02 J**	0.005	mg/L	Taste/Odor	Chatsworth
Gross beta, Particulate	RD-18	2017Q1	Primary Sample	1.3 J ± 0.61	50	pCi/L	Cal MCL	Chatsworth
	SP-424C	2017Q1	Primary Sample	2.7 ± 0.67	50	pCi/L	Cal MCL	Chatsworth
Hydrazine	RD-48C	2017Q1	Primary Sample	2.2 J	160000	ug/L	Taste/Odor	Chatsworth

TABLE 9
FIRST-TIME DETECTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte	Well Identifier	Event	Sample Type	Result	Groundwater Reference Value	Units	Reference Type	Groundwater Unit
Isopropanol	HAR-01	2017Q1	Primary Sample	24 J	160000	ug/L	Taste/Odor	Chatsworth
	RD-37	2017Q1	Primary Sample	29 J	160000	ug/L	Taste/Odor	Chatsworth
	RD-38B	2017Q1	Primary Sample	37 J	160000	ug/L	Taste/Odor	Chatsworth
	RD-43A	2017Q3	Primary Sample	130 J	160000	ug/L	Taste/Odor	Chatsworth
Lead, Dissolved	HAR-03	2017Q3	Primary Sample	0.00019 J	11	mg/L	SSFL Comparison	Shallow
Mercury	RD-08	2017Q1	Primary Sample	0.000028 J	0.000063	mg/L	SSFL Comparison	Chatsworth
Mercury, Dissolved	RD-08	2017Q1	Primary Sample	0.000035 J	0.000063	mg/L	SSFL Comparison	Chatsworth
	RD-11	2017Q1	Primary Sample	0.000028 J	0.000063	mg/L	SSFL Comparison	Chatsworth
Naphthalene	RD-35B	2017Q3	Primary Sample	0.13 J	17	ug/L	Notification Level	Chatsworth
Nickel	RD-120 QA-10	2017Q1	Primary Sample	0.0011 J	0.017	mg/L	SSFL Comparison	Chatsworth
Nickel, Dissolved	SP-424C	2017Q1	Primary Sample	0.00033 J	0.017	mg/L	SSFL Comparison	Chatsworth
Nitrobenzene	RD-58A	2017Q1	Primary Sample	1.2 J	110	ug/L	Taste/Odor	Chatsworth
n-Nitrosodimethylamine	HAR-03	2017Q3	Primary Sample	0.0089 J	0.01	ug/L	Notification Level	Shallow
Octachlorodibenzofuran	HAR-01	2017Q1	Primary Sample	2.6 J	--	pg/L	--	Chatsworth
Perchlorate	RD-06	2017Q1	Primary Sample	0.079 J	6	ug/L	Cal MCL	Chatsworth
	RD-43A	2017Q1	Primary Sample	0.015 J	6	ug/L	Cal MCL	Chatsworth
Thallium, Dissolved	HAR-04	2017Q3	Primary Sample	0.000084 J	0.00013	mg/L	SSFL Comparison	Shallow
	RD-10	2017Q1	Primary Sample	0.00005 J	0.00013	mg/L	SSFL Comparison	Chatsworth
	SP-424C	2017Q1	Primary Sample	0.000096 J	0.00013	mg/L	SSFL Comparison	Chatsworth
Tin, Dissolved	RD-120 QA-10	2017Q1	Primary Sample	0.0012 J	0.0024	mg/L	SSFL Comparison	Chatsworth
Uranium-233/234, Dissolved	SP-424C	2017Q1	Primary Sample	1 J ± 0.37	20	pCi/L	Cal MCL	Chatsworth
Uranium-238, Dissolved	SP-424C	2017Q1	Primary Sample	0.79 J ± 0.32	20	pCi/L	Cal MCL	Chatsworth
Vinyl chloride	RD-46A	2017Q3	Primary Sample	**1.3**	0.5	ug/L	#N/A	Chatsworth

NOTES AND ABBREVIATIONS

See Table 6 for analyte lists and analysis methods
* first time analyzed for the detected analyte
bold - indicates results that exceed the reference value
J - Result is estimated
mg/L - milligrams per liter
ug/L - micrograms per liter
pCi/L - picocuries per liter
pg/L - picograms per liter

Primary MCL - Primary Maximum Contaminant Level
Cal MCL - California Primary Maximum Contaminant Level
Secondary MCL - Secondary Maximum Contaminant Level
SMCL - Secondary Maximum Contaminant Level
Taste/Odor - Taste/Odor Threshold
SSFL Comparison - site-specific values for metals developed by DTSC
SWGW RBSL - Site-Wide Groundwater Risk-Based Screening Level

Chatsworth - Chatsworth Formation groundwater unit
Shallow - Near-surface groundwater unit

TABLE 10
NEW MAXIMUM CONCENTRATIONS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte	Well Identifier	Event	Sample Type	Result	Groundwater Reference Value	Units	Reference Type	Groundwater Unit
1,1,2-Trichloroethane	RD-46A	2017Q3	Primary Sample	**9**	5	ug/L	Primary MCL	Chatsworth
1,1-Dichloroethane	RD-45A	2017Q1	Primary Sample	0.68 J	6	ug/L	Cal MCL	Chatsworth
	RD-46A	2017Q3	Primary Sample	0.51 J	5	ug/L	Cal MCL	Chatsworth
1,1-Dichloroethene	C-3	2017Q1	Primary Sample	0.41 J	6	ug/L	Cal MCL	Chatsworth
	RD-46A	2017Q3	Primary Sample	**6.5**	6	ug/L	Cal MCL	Chatsworth
	RD-121	2017Q1	Primary Sample	4.9	6	ug/L	Cal MCL	Chatsworth
1,2,3-Trichloropropane	RD-46A	2017Q3	Primary Sample	**0.042**	0.005	ug/L	Notification Level	Chatsworth
1,4-Dioxane	RD-03	2017Q3	Primary Sample	1 J	1	ug/L	Notification Level	Chatsworth
	RD-45A	2017Q1	Primary Sample	**6.8 J**	1	ug/L	Notification Level	Chatsworth
	RD-48C	2017Q3	Primary Sample	0.45 J	1	ug/L	Notification Level	Chatsworth
	RD-52A	2017Q1	Primary Sample	**7.1 J**	1	ug/L	Notification Level	Chatsworth
	RD-103 QA-15	2017Q1	Primary Sample	0.8 J	1	ug/L	Notification Level	Chatsworth
	RD-129	2017Q1	Primary Sample	**10**	1	ug/L	Notification Level	Chatsworth
Acetone	RD-06	2017Q3	Primary Sample	19 J	20000	ug/L	Taste/Odor	Chatsworth
	RD-38B	2017Q3	Primary Sample	5.6 J	20000	ug/L	Taste/Odor	Chatsworth
	RD-38B	2017Q3	Primary Sample	5.6 J	20000	ug/L	Taste/Odor	Chatsworth
	RD-43B	2017Q3	Field Duplicate	10	20000	ug/L	Taste/Odor	Chatsworth
	RD-43B	2017Q3	Primary Sample	14 J	20000	ug/L	Taste/Odor	Chatsworth
	RD-43C	2017Q3	Primary Sample	12 J	20000	ug/L	Taste/Odor	Chatsworth
Ammonia-N	HAR-25	2017Q3	Primary Sample	0.16 J	30	mg/L	Taste/Odor	Chatsworth
	RD-08	2017Q3	Field Duplicate	0.16 J	30	mg/L	Taste/Odor	Chatsworth
	RD-36D	2017Q1	Primary Sample	1.1	30	mg/L	Taste/Odor	Chatsworth
	RD-36D	2017Q3	Primary Sample	1.9	30	mg/L	Taste/Odor	Chatsworth
	RD-37	2017Q1	Primary Sample	0.14 J	30	mg/L	Taste/Odor	Chatsworth
	RD-55B	2017Q1	Primary Sample	0.5	30	mg/L	Taste/Odor	Chatsworth
Antimony	HAR-03	2017Q3	Primary Sample	0.0007 J	0.0025	mg/L	SSFL Comparison	Shallow
	RD-50	2017Q1	Primary Sample	0.0013 J	0.0025	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Split Sample	0.000931 J	0.0025	mg/L	SSFL Comparison	Chatsworth
Antimony, Dissolved	HAR-03	2017Q3	Primary Sample	0.0009 J	0.0025	mg/L	SSFL Comparison	Shallow
Arsenic	HAR-03	2017Q3	Primary Sample	0.00034 J	0.0077	mg/L	SSFL Comparison	Shallow
	RD-08	2017Q1	Primary Sample	0.00038 J	0.0077	mg/L	SSFL Comparison	Chatsworth
Barium	HAR-03	2017Q3	Primary Sample	0.037	0.15	mg/L	SSFL Comparison	Shallow
	HAR-04	2017Q3	Primary Sample	0.046	0.15	mg/L	SSFL Comparison	Shallow
	HAR-16	2017Q1	Split Sample	0.0296	0.15	mg/L	SSFL Comparison	Chatsworth
	RD-08	2017Q1	Primary Sample	0.029	0.15	mg/L	SSFL Comparison	Chatsworth
	RD-103 QA-15	2017Q1	Primary Sample	0.044	0.15	mg/L	SSFL Comparison	Chatsworth
Barium, Dissolved	HAR-03	2017Q3	Primary Sample	0.037	0.15	mg/L	SSFL Comparison	Shallow
	HAR-04	2017Q3	Primary Sample	0.048	0.15	mg/L	SSFL Comparison	Shallow
	RD-08	2017Q1	Primary Sample	0.029	0.15	mg/L	SSFL Comparison	Chatsworth
	SP-424C	2017Q1	Primary Sample	0.032	0.15	mg/L	SSFL Comparison	Chatsworth
Beryllium, Dissolved	HAR-16	2017Q1	Primary Sample	**0.00024 J**	0.00014	mg/L	SSFL Comparison	Chatsworth
Cadmium, Dissolved	RD-10	2017Q1	Primary Sample	**0.0013**	0.0002	mg/L	SSFL Comparison	Chatsworth

TABLE 10
NEW MAXIMUM CONCENTRATIONS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte	Well Identifier	Event	Sample Type	Result	Groundwater Reference Value	Units	Reference Type	Groundwater Unit
Calcium	HAR-16	2017Q1	Split Sample	90.4	--	mg/L	--	Chatsworth
Calcium, Dissolved	HAR-16	2017Q1	Split Sample	88.6	--	mg/L	--	Chatsworth
Chromium	HAR-01	2017Q1	Primary Sample	0.0028 J	0.014	mg/L	SSFL Comparison	Chatsworth
cis-1,2-Dichloroethene	C-3	2017Q1	Primary Sample	**95**	6	ug/L	Cal MCL	Chatsworth
	RD-45A	2017Q3	Primary Sample	**190 J**	6	ug/L	Cal MCL	Chatsworth
	RD-46A	2017Q3	Primary Sample	**1700**	6	ug/L	Cal MCL	Chatsworth
	RD-103 QA-15	2017Q1	Primary Sample	**49**	6	ug/L	Cal MCL	Chatsworth
	RD-121	2017Q1	Primary Sample	1.1	6	ug/L	Cal MCL	Chatsworth
	RS-41	2017Q1	Primary Sample	0.35 J	6	ug/L	Cal MCL	Chatsworth
Cobalt	HAR-03	2017Q3	Primary Sample	0.000091 J	0.0019	mg/L	SSFL Comparison	Shallow
	RD-08	2017Q1	Primary Sample	0.0003 J	0.0019	mg/L	SSFL Comparison	Chatsworth
	RD-10	2017Q1	Primary Sample	0.00013 J	0.0019	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Primary Sample	0.0018	0.0019	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Split Sample	0.00165 J	0.0019	mg/L	SSFL Comparison	Chatsworth
	RD-103 QA-15	2017Q1	Primary Sample	0.000091 J	0.0019	mg/L	SSFL Comparison	Chatsworth
Cobalt, Dissolved	RD-08	2017Q1	Primary Sample	0.00028 J	0.0019	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Primary Sample	0.0014	0.0019	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Split Sample	**0.00208 J**	0.0019	mg/L	SSFL Comparison	Chatsworth
Copper	RD-10	2017Q1	Primary Sample	**0.0088**	0.0047	mg/L	SSFL Comparison	Chatsworth
Copper, Dissolved	RD-10	2017Q1	Primary Sample	**0.01**	0.0047	mg/L	SSFL Comparison	Chatsworth
	RD-12	2017Q1	Primary Sample	0.0024	0.0047	mg/L	SSFL Comparison	Chatsworth
Fluoride	RD-36D	2017Q3	Primary Sample	**2.6 J**	0.8	mg/L	SSFL Comparison	Chatsworth
	RD-43C	2017Q1	Primary Sample	0.47 J	0.8	mg/L	SSFL Comparison	Chatsworth
	RD-45A	2017Q1	Primary Sample	0.4 J	0.8	mg/L	SSFL Comparison	Chatsworth
	RD-52A	2017Q3	Primary Sample	0.47 J	0.8	mg/L	SSFL Comparison	Chatsworth
	SP-424C	2017Q1	Primary Sample	**2.7**	0.8	mg/L	SSFL Comparison	Chatsworth
Formaldehyde	RD-36C	2017Q3	Primary Sample	39 J	100	ug/L	Notification Level	Chatsworth
	RD-39B	2017Q3	Primary Sample	32 J	100	ug/L	Notification Level	Chatsworth
	RD-43B	2017Q1	Field Duplicate	14 J	100	ug/L	Notification Level	Chatsworth
	RD-43B	2017Q1	Primary Sample	14 J	100	ug/L	Notification Level	Chatsworth
	RD-45B	2017Q1	Field Duplicate	19 J	100	ug/L	Notification Level	Chatsworth
	RD-45B	2017Q1	Primary Sample	17 J	100	ug/L	Notification Level	Chatsworth
	RD-45C	2017Q3	Primary Sample	17 J	100	ug/L	Notification Level	Chatsworth
	RD-46B	2017Q3	Primary Sample	56	100	ug/L	Notification Level	Chatsworth
	RD-48C	2017Q3	Primary Sample	**110**	100	ug/L	Notification Level	Chatsworth
	RD-58C	2017Q1	Primary Sample	14 J	100	ug/L	Notification Level	Chatsworth
Isopropanol	RD-03	2017Q3	Field Duplicate	43 J	160000	ug/L	Taste/Odor	Chatsworth
	RD-03	2017Q3	Primary Sample	81 J	160000	ug/L	Taste/Odor	Chatsworth
	RD-06	2017Q1	Primary Sample	50 J	160000	ug/L	Taste/Odor	Chatsworth
	RD-43B	2017Q3	Field Duplicate	160	160000	ug/L	Taste/Odor	Chatsworth
	RD-43B	2017Q3	Primary Sample	190 J	160000	ug/L	Taste/Odor	Chatsworth
	RD-43C	2017Q3	Primary Sample	100 J	160000	ug/L	Taste/Odor	Chatsworth
	RD-45A	2017Q3	Primary Sample	100 J	160000	ug/L	Taste/Odor	Chatsworth
	RD-45B	2017Q3	Primary Sample	110 J	160000	ug/L	Taste/Odor	Chatsworth
	RD-55A	2017Q3	Primary Sample	220	160000	ug/L	Taste/Odor	Chatsworth

TABLE 10
NEW MAXIMUM CONCENTRATIONS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte	Well Identifier	Event	Sample Type	Result	Groundwater Reference Value	Units	Reference Type	Groundwater Unit
Nickel	RD-10	2017Q1	Primary Sample	0.0014 J	0.017	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Primary Sample	0.0013 J	0.017	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Split Sample	0.00136 J	0.017	mg/L	SSFL Comparison	Chatsworth
	RD-103 QA-15	2017Q1	Primary Sample	0.00055 J	0.017	mg/L	SSFL Comparison	Chatsworth
Nickel, Dissolved	RD-10	2017Q1	Primary Sample	0.0019 J	0.017	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Primary Sample	0.0011 J	0.017	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Split Sample	0.00136 J	0.017	mg/L	SSFL Comparison	Chatsworth
	RD-45C	2017Q3	Primary Sample	0.2 J	45	mg/L	Cal MCL	Chatsworth
Nitrate-NO3	HAR-03	2017Q3	Primary Sample	**47 J**	45	mg/L	Cal MCL	Chatsworth
n-Nitrosodimethylamine	RD-45A	2017Q1	Primary Sample	**0.71**	0.01	ug/L	Notification Level	Chatsworth
Perchlorate	RD-130	2017Q1	Primary Sample	3.9 J	6	ug/L	Cal MCL	Chatsworth
	RD-131	2017Q1	Primary Sample	0.3 J	6	ug/L	Cal MCL	Chatsworth
	RD-43A	2017Q3	Primary Sample	0.11 J	6	ug/L	Cal MCL	Chatsworth
pH	HAR-03	2017Q3	Primary Sample	6.9 J	--	pH Units	--	Shallow
	HAR-04	2017Q3	Primary Sample	7.5 J	--	pH Units	--	Shallow
	HAR-04	2017Q3	Primary Sample	7.5 J	--	pH Units	--	Shallow
	HAR-16	2017Q1	Primary Sample	7.5	--	pH Units	--	Chatsworth
	RD-03	2017Q1	Field Duplicate	7.9 J	--	pH Units	--	Chatsworth
	RD-03	2017Q1	Primary Sample	8 J	--	pH Units	--	Chatsworth
	RD-06	2017Q3	Primary Sample	7.8	--	pH Units	--	Chatsworth
	RD-12	2017Q1	Primary Sample	8.2	--	pH Units	--	Chatsworth
	RD-38B	2017Q1	Primary Sample	7.9 J	--	pH Units	--	Chatsworth
	RD-43A	2017Q1	Primary Sample	7.8	--	pH Units	--	Chatsworth
	RD-43B	2017Q1	Field Duplicate	8	--	pH Units	--	Chatsworth
	RD-43B	2017Q1	Primary Sample	8	--	pH Units	--	Chatsworth
	RD-43C	2017Q1	Primary Sample	8	--	pH Units	--	Chatsworth
	RD-45A	2017Q1	Primary Sample	7.9	--	pH Units	--	Chatsworth
	RD-46A	2017Q3	Primary Sample	7.6 J	--	pH Units	--	Chatsworth
	RD-48C	2017Q1	Primary Sample	7.8 J	--	pH Units	--	Chatsworth
	RD-48C	2017Q3	Primary Sample	7.9 J	--	pH Units	--	Chatsworth
	RD-51B	2017Q3	Primary Sample	8.2 J	--	pH Units	--	Chatsworth
	RD-52A	2017Q3	Primary Sample	8 J	--	pH Units	--	Chatsworth
	RD-52B	2017Q1	Primary Sample	7.9 J	--	pH Units	--	Chatsworth
	RD-52B	2017Q3	Primary Sample	8 J	--	pH Units	--	Chatsworth
	RD-52C	2017Q3	Primary Sample	8.1 J	--	pH Units	--	Chatsworth
	RD-55A	2017Q3	Primary Sample	7.9	--	pH Units	--	Chatsworth
	RD-55B	2017Q1	Primary Sample	8.2	--	pH Units	--	Chatsworth
Potassium	HAR-16	2017Q1	Primary Sample	2.2 J	9.6	mg/L	SSFL Comparison	Chatsworth
	RD-77	2017Q1	Primary Sample	3.7 J	9.6	mg/L	SSFL Comparison	Chatsworth
Potassium, Dissolved	HAR-16	2017Q1	Primary Sample	2.1 J	9.6	mg/L	SSFL Comparison	Chatsworth
	HAR-16	2017Q1	Split Sample	1.64	9.6	mg/L	SSFL Comparison	Chatsworth

TABLE 10
NEW MAXIMUM CONCENTRATIONS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte	Well Identifier	Event	Sample Type	Result	Groundwater Reference Value	Units	Reference Type	Groundwater Unit
Selenium	RD-50	2017Q1	Primary Sample	**0.0057**	0.0016	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Split Sample	**0.00624**	0.0016	mg/L	SSFL Comparison	Chatsworth
	RD-103 QA-15	2017Q1	Primary Sample	**0.0021 J**	0.0016	mg/L	SSFL Comparison	Chatsworth
Selenium, Dissolved	RD-50	2017Q1	Primary Sample	**0.0059**	0.0016	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Split Sample	**0.00619**	0.0016	mg/L	SSFL Comparison	Chatsworth
Silver, Dissolved	HAR-03	2017Q3	Primary Sample	0.000036 J	0.00017	mg/L	SSFL Comparison	Shallow
Sodium	SP-424C	2017Q1	Primary Sample	91	190	mg/L	SSFL Comparison	Chatsworth
Specific conductivity	HAR-16	2017Q1	Split Sample	850	900	umhos/cm	Recommended SMCL	Chatsworth
Strontium	HAR-16	2017Q1	Split Sample	0.387	0.8	mg/L	SSFL Comparison	Chatsworth
Strontium, Dissolved	HAR-16	2017Q1	Primary Sample	0.38	0.8	mg/L	SSFL Comparison	Chatsworth
	HAR-16	2017Q1	Split Sample	0.392	0.8	mg/L	SSFL Comparison	Chatsworth
Tetrachloroethene	RD-46A	2017Q3	Primary Sample	2.3	5	ug/L	Primary MCL	Chatsworth
Thallium, Dissolved	HAR-01	2017Q1	Primary Sample	0.000065 J	0.00013	mg/L	SSFL Comparison	Chatsworth
	HAR-03	2017Q3	Primary Sample	**0.00015 J**	0.00013	mg/L	SSFL Comparison	Shallow
Total Dissolved Solids	HAR-16	2017Q1	Split Sample	575	500	mg/L	Recommended SMCL	Chatsworth
trans-1,2-Dichloroethene	C-3	2017Q1	Primary Sample	4.2	10	ug/L	Cal MCL	Chatsworth
	RD-103 QA-15	2017Q1	Primary Sample	1.4	10	ug/L	Cal MCL	Chatsworth
	RD-129	2017Q1	Primary Sample	**16 J**	10	ug/L	Cal MCL	Chatsworth
Trichloroethene	C-3	2017Q1	Primary Sample	**140**	5	ug/L	Primary MCL	Chatsworth
	RD-103 QA-15	2017Q1	Primary Sample	**25**	5	ug/L	Primary MCL	Chatsworth
	RD-121	2017Q1	Primary Sample	**99**	5	ug/L	Primary MCL	Chatsworth
	RD-45A	2017Q1	Primary Sample	**660**	5	ug/L	Primary MCL	Chatsworth
	RD-46A	2017Q3	Primary Sample	**43000**	5	ug/L	Primary MCL	Chatsworth
	RS-41	2017Q1	Primary Sample	1.6 J	5	ug/L	Primary MCL	Chatsworth
Turbidity	RD-77	2017Q1	Primary Sample	3.1 J	5	NTU	Secondary MCL	Chatsworth
Uranium-233/234, Dissolved	RD-18	2017Q1	Primary Sample	8.8 J ± 1.3	20	pCi/L	Cal MCL	Chatsworth
Uranium-235, Dissolved	RD-18	2017Q1	Primary Sample	0.48 J ± 0.25	20	pCi/L	Cal MCL	Chatsworth
Uranium-238, Dissolved	RD-18	2017Q1	Primary Sample	7.5 J ± 1.2	20	pCi/L	Cal MCL	Chatsworth
	RD-103 QA-15	2017Q1	Primary Sample	0.00063 J	0.0026	mg/L	SSFL Comparison	Chatsworth
Vanadium	RD-50	2017Q1	Primary Sample	**0.004 J**	0.0026	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Split Sample	**0.00396 J**	0.0026	mg/L	SSFL Comparison	Chatsworth
Vanadium, Dissolved	RD-50	2017Q1	Primary Sample	**0.0034 J**	0.0026	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Split Sample	**0.00404 J**	0.0026	mg/L	SSFL Comparison	Chatsworth
Vinyl chloride	RD-45A	2017Q1	Primary Sample	0.15 J	0.5	ug/L	Cal MCL	Chatsworth
	RD-51C	2017Q3	Primary Sample	0.39 J	0.5	ug/L	Cal MCL	Chatsworth
Zinc	RD-08	2017Q1	Primary Sample	0.015 J	6.3	mg/L	SSFL Comparison	Chatsworth
	RD-103 QA-15	2017Q1	Primary Sample	0.084	6.3	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Primary Sample	0.63	6.3	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Split Sample	0.692	6.3	mg/L	SSFL Comparison	Chatsworth

TABLE 10
NEW MAXIMUM CONCENTRATIONS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Analyte	Well Identifier	Event	Sample Type	Result	Groundwater Reference Value	Units	Reference Type	Groundwater Unit
Zinc, Dissolved	RD-10	2017Q1	Primary Sample	2.4	6.3	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Primary Sample	0.6	6.3	mg/L	SSFL Comparison	Chatsworth
	RD-50	2017Q1	Split Sample	0.707	6.3	mg/L	SSFL Comparison	Chatsworth

NOTES AND ABBREVIATIONS

See Table 6 for analyte lists and analysis methods
bold - indicates results that exceed the reference value
J - Result is estimated
mg/L - milligrams per liter
NTU - Nephelometric Turbidity Unit
ug/L - micrograms per liter
pCi/L - picocuries per liter
umhos/cm - micromhos per centimeter

Primary MCL - Primary Maximum Contaminant Level
Cal MCL - California Primary Maximum Contaminant Level
Secondary MCL - Secondary Maximum Contaminant Level
Taste/Odor - Taste/Odor Threshold
SMCL - Secondary Maximum Contaminant Level
SSFL Comparison - site-specific values for metals developed by DTSC
SWGW RBSL - Site-Wide Groundwater Risk-Based Screening Level

Chatsworth - Chatsworth Formation groundwater unit
Shallow - Near-surface groundwater unit

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	C-3	ES-29	HAR-01	HAR-01	HAR-03
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	C-3_020217_01	ES-29_013017_01	HAR-01_012517_01	HAR-01_073117_01	HAR-03_072417_01
	Groundwater Unit:	Chatsworth	Shallow	Chatsworth	Chatsworth	Shallow
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	2/2/2017	1/30/2017	1/25/2017	7/31/2017	7/24/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	0.21 U	--	0.21 U
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	0.21 U	--	0.21 U
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.24 J	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.41 J	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	--	--	0.0017 U	0.0017 U	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	0.0049 U	--	0.0047 UJ
1,2-Dibromoethane	**504.1**	--	--	0.0022 UJ	--	0.0021 UJ
1,2-Dichlorobenzene	**8260B**	--	--	0.15 U	--	0.15 U
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	0.18 U	--	0.18 U
1,3-Dichlorobenzene	**8260B**	--	--	0.13 U	--	0.13 U
1,4-Dichlorobenzene	**8260B**	--	--	0.16 U	--	0.16 U
1,4-Dioxane	**8260B SIM**	1.5 J	--	0.22 U	0.88 U	0.22 U
2-Hexanone	**8260B**	--	--	1.7 U	--	1.7 U
Acetone	**8260B**	1.9 U	1.9 U	10 U	1.9 U	10 U
Acetonitrile	**8260B**	--	--	9.6 U	--	9.6 U
Acrolein	**8260B**	--	--	2.8 U	--	2.8 U
Acrylonitrile	**8260B**	--	--	1.4 U	--	1.4 U
Allyl chloride	**8260B**	--	--	0.17 U	--	0.17 U
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	0.17 U	--	0.17 U
Bromoform	**8260B**	--	--	0.19 U	--	0.19 U
Bromomethane	**8260B**	--	--	0.21 U	--	0.21 U
Carbon Disulfide	**8260B**	--	--	0.45 U	--	0.45 U
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	0.17 U	--	0.17 U
Chloroethane	**8260B**	--	--	0.41 U	--	0.41 U
Chloroform	**8260B**	0.16 U	0.16 U	0.25 J	0.31 J	0.18 J
Chloromethane	**8260B**	--	--	0.3 U	--	0.3 U
Chloroprene	**8260B**	--	--	0.21 U	--	0.21 U
cis-1,2-Dichloroethene	**8260B**	95	0.15 U	2.5	3.4	1.3
cis-1,3-Dichloropropene	**8260B**	--	--	0.16 U	--	0.16 U
Dibromochloromethane	**8260B**	--	--	0.17 U	--	0.17 U
Dibromomethane	**8260B**	--	--	0.17 U	--	0.17 U
Dichlorodifluoromethane	**8260B**	--	--	0.31 U	--	0.31 U
Ethyl cyanide	**8260B**	--	--	3.7 U	--	3.7 U
Ethyl methacrylate	**8260B**	--	--	0.86 U	--	0.86 U
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	0.23 U	--	0.23 U
Isobutanol	**8260B**	--	--	37 U	--	37 U
Isopropanol	**8260B**	--	--	24 J	13 U	100 U
Methacrylonitrile	**8260B**	--	--	1.6 U	--	1.6 U
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	0.98 U	--	0.98 U
Methyl methacrylate	**8260B**	--	--	1.1 U	--	1.1 U
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	0.17 U	--	0.17 U
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.31 J	0.34 J	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	4.2	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	0.19 U	--	0.19 U
trans-1,4-Dichloro-2-butene	**8260B**	--	--	0.8 U	--	0.8 U
Trichloroethene	**8260B**	140	6.7	180	270	190
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	0.94 U	--	0.94 U
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-04	HAR-16	HAR-16	HAR-16	HAR-25
Sample Type:		Primary	Primary	Split	Primary	Primary
Sample Name:		HAR-04_072517_01	HAR-16_012517_01	HAR-16_012517_03A	HAR-16_072817_01	HAR-25_072817_01
Groundwater Unit:		Shallow	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	EMAX	TA- Denver	TA- Denver
Collection Date:		7/25/2017	1/25/2017	1/25/2017	7/28/2017	7/28/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	0.21 U	21 U	0.2 U	--	--
1,1,1-Trichloroethane	**8260B**	0.19 J	16 U	0.2 U	3.2 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	0.21 U	21 U	0.2 U	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	42 U	3 J	8.4 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	27 U	1.5	5.4 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	22 U	2.3	4.4 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	28 J	25	13 J	0.23 U
1,2,3-Trichloropropane	**524.2**	0.0017 U	0.0071	--	0.0044 J	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	0.01	--	--
1,2-Dibromo-3-chloropropane	**504.1**	0.0048 U	0.0049 U	0.02 U	--	--
1,2-Dibromoethane	**504.1**	0.0021 U	0.0022 U	0.02 U	--	--
1,2-Dichlorobenzene	**8260B**	0.15 U	15 U	0.2 U	--	--
1,2-Dichloroethane	**8260B**	0.13 U	13 U	0.26 J	2.6 U	0.13 U
1,2-Dichloropropane	**8260B**	0.18 U	18 U	0.2 U	--	--
1,3-Dichlorobenzene	**8260B**	0.13 U	13 U	0.2 U	--	--
1,4-Dichlorobenzene	**8260B**	0.16 U	16 U	0.2 U	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	22 U	14	44 U	0.43 J
2-Hexanone	**8260B**	1.7 U	170 U	4 U	--	--
Acetone	**8260B**	10 U	190 U	5 U	38 U	6.4 J
Acetonitrile	**8260B**	9.6 U	960 U	10 U	--	--
Acrolein	**8260B**	2.8 U	140 U	5 U	--	--
Acrylonitrile	**8260B**	1.4 U	70 U	5 U	--	--
Allyl chloride	**8260B**	0.17 U	17 U	0.5 U	--	--
Benzene	**8260B**	0.16 U	16 U	0.47 J	3.2 U	0.16 U
Bromodichloromethane	**8260B**	0.17 U	17 U	0.2 U	--	--
Bromoform	**8260B**	0.19 U	19 U	0.3 U	--	--
Bromomethane	**8260B**	0.21 U	21 U	0.3 U	--	--
Carbon Disulfide	**8260B**	0.45 U	45 U	0.27 J	--	--
Carbon Tetrachloride	**8260B**	0.19 U	19 U	0.75	3.8 U	0.19 U
Chlorobenzene	**8260B**	0.17 U	17 U	0.2 U	--	--
Chloroethane	**8260B**	0.41 U	41 U	0.3 U	--	--
Chloroform	**8260B**	0.2 J	16 U	7	3.2 U	0.22 J
Chloromethane	**8260B**	0.3 U	30 U	0.3 U	--	--
Chloroprene	**8260B**	0.21 U	21 U	0.5 U	--	--
cis-1,2-Dichloroethene	**8260B**	2.2	200 J	220	81	0.15 U
cis-1,3-Dichloropropene	**8260B**	0.16 U	16 U	0.2 U	--	--
Dibromochloromethane	**8260B**	0.17 U	17 U	0.2 U	--	--
Dibromomethane	**8260B**	0.17 U	17 U	0.2 U	--	--
Dichlorodifluoromethane	**8260B**	0.31 U	31 U	0.3 U	--	--
Ethyl cyanide	**8260B**	3.7 U	370 U	10 U	--	--
Ethyl methacrylate	**8260B**	0.86 U	86 U	0.5 U	--	--
Ethylbenzene	**8260B**	0.16 U	16 U	0.2 U	3.2 U	0.16 U
Iodomethane	**8260B**	0.23 U	23 U	0.3 U	--	--
Isobutanol	**8260B**	37 U	3700 U	20 U	--	--
Isopropanol	**8260B**	120 U	1300 U	20 U	260 U	110 U
Methacrylonitrile	**8260B**	1.6 U	160 U	10 U	--	--
Methyl ethyl ketone	**8260B**	2 U	200 U	4 U	40 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	0.98 U	98 U	4 U	--	--
Methyl methacrylate	**8260B**	1.1 U	110 U	0.5 U	--	--
Methylene chloride	**8260B**	0.32 U	32 U	0.5 U	6.4 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	34 U	0.4 U	6.8 U	0.34 U
o-Xylene	**8260B**	0.19 U	19 U	0.2 U	3.8 U	0.19 U
Styrene	**8260B**	0.17 U	17 U	0.2 U	--	--
Tetrachloroethene	**8260B**	0.2 U	20 U	16	5.4 J	1.1
Toluene	**8260B**	0.17 U	17 U	0.2 U	3.4 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	15 U	1.6	3 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	0.19 U	19 U	0.2 U	--	--
trans-1,4-Dichloro-2-butene	**8260B**	0.8 U	80 U	1 U	--	--
Trichloroethene	**8260B**	210	11000 J	11000	7000	16
Trichlorofluoromethane	**8260B**	0.29 U	34 J	29	13 J	22
Vinyl acetate	**8260B**	0.94 U	94 U	0.5 U	--	--
Vinyl chloride	**8260B**	0.1 U	10 U	0.22 J	2 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-26	HAR-26	OS-09R Port-01	OS-09R Port-01
Sample Type:		Primary	Primary	Primary	Field Duplicate
Sample Name:		HAR-26_020117_01	HAR-26_072617_01	OS-09R 1_013017_01	OS-09R 1_013017_36
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		2/1/2017	7/26/2017	1/30/2017	1/30/2017
Analyte (µg/L)	**Method**				
1,1,1,2-Tetrachloroethane	**8260B**	0.21 U	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	0.21 U	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	--	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	0.0017 U	0.0017 U	--	--
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	0.0049 U	--	--	--
1,2-Dibromoethane	**504.1**	0.0022 U	--	--	--
1,2-Dichlorobenzene	**8260B**	0.15 U	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	0.18 U	--	--	--
1,3-Dichlorobenzene	**8260B**	0.13 U	--	--	--
1,4-Dichlorobenzene	**8260B**	0.16 U	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	0.22 U	--	--
2-Hexanone	**8260B**	1.7 U	--	--	--
Acetone	**8260B**	1.9 U	1.9 U	1.9 U	1.9 U
Acetonitrile	**8260B**	9.6 U	--	--	--
Acrolein	**8260B**	2.8 U	--	--	--
Acrylonitrile	**8260B**	1.4 U	--	--	--
Allyl chloride	**8260B**	0.17 U	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	0.17 U	--	--	--
Bromoform	**8260B**	0.19 U	--	--	--
Bromomethane	**8260B**	0.21 U	--	--	--
Carbon Disulfide	**8260B**	0.45 U	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	0.17 U	--	--	--
Chloroethane	**8260B**	0.41 U	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	0.3 U	--	--	--
Chloroprene	**8260B**	0.21 U	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U
cis-1,3-Dichloropropene	**8260B**	0.16 U	--	--	--
Dibromochloromethane	**8260B**	0.17 U	--	--	--
Dibromomethane	**8260B**	0.17 U	--	--	--
Dichlorodifluoromethane	**8260B**	0.31 U	--	--	--
Ethyl cyanide	**8260B**	3.7 U	--	--	--
Ethyl methacrylate	**8260B**	0.86 U	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	0.23 U	--	--	--
Isobutanol	**8260B**	37 U	--	--	--
Isopropanol	**8260B**	--	--	--	--
Methacrylonitrile	**8260B**	1.6 U	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	0.98 U	--	--	--
Methyl methacrylate	**8260B**	1.1 U	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	0.17 U	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	0.19 U	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	0.8 U	--	--	--
Trichloroethene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	0.94 U	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		OS-09R Port-01	OS-25	RD-01	RD-02	RD-03
Sample Type:		Split	Primary	Primary	Primary	Primary
Sample Name:		OS-09R 1_013017_03	OS-25_011817_01	RD-01_080417_01	RD-02_020117_01	RD-03_011817_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		EMAX	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/30/2017	1/18/2017	8/4/2017	2/1/2017	1/18/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.2 U	0.16 U	0.16 U	0.64 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.3 U	0.42 U	0.42 U	1.7 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.2 U	0.27 U	0.27 U	1.1 U	0.27 U
1,1-Dichloroethane	**8260B**	0.2 U	0.22 U	0.22 U	0.88 U	0.22 U
1,1-Dichloroethene	**8260B**	0.2 U	0.23 U	3.1	2.1 J	0.23 U
1,2,3-Trichloropropane	**524.2**	--	--	--	--	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.2 U	0.13 U	0.13 U	0.52 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	--	0.22 U	8.8 U	2.2 U	0.22 U
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	5 U	1.9 U	10 U	7.6 U	1.9 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.2 U	0.16 U	0.16 U	0.64 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.2 U	0.19 U	0.19 U	0.76 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.2 U	0.16 U	0.16 U	0.64 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.2 U	0.15 U	750	860	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.2 U	0.16 U	0.16 U	0.64 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	--	--	--	--	13 U
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	4 U	2 U	2 U	8 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.5 U	5 UJ	0.32 U	20 U	5 UJ
m-Xylene & p-Xylene	**8260B**	0.4 U	0.34 U	0.34 U	1.4 U	0.34 U
o-Xylene	**8260B**	0.2 U	0.19 U	0.19 U	0.76 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.8 U	0.2 U
Toluene	**8260B**	0.2 U	0.17 U	0.17 U	0.68 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.2 U	0.15 U	21	34	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.2 U	0.16 U	650	410	0.16 U
Trichlorofluoromethane	**8260B**	0.3 U	0.29 U	0.29 U	1.2 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.2 U	0.1 U	2.7	0.4 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-03	RD-03	RD-03	RD-06	RD-06
Sample Type:		Field Duplicate	Primary	Field Duplicate	Primary	Primary
Sample Name:		RD-03_011817_36	RD-03_072417_01	RD-03_072417_36	RD-06_011717_01	RD-06_071817_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/18/2017	7/24/2017	7/24/2017	1/17/2017	7/18/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	0.0017 U	0.0017 U	0.0017 U	--	--
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	1 J	0.62 J	0.27 J	0.84 J
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	1.9 U	3.3 J	2.4 J	1.9 U	19 J
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	2.4	3	0.15 U	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	13 U	81 J	43 J	50 J	13 U
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	5 UJ	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.38 J	0.47 J	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.88 J	1.1	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.19 J	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-08	RD-08	RD-08	RD-10	RD-11
Sample Type:		Primary	Primary	Field Duplicate	Primary	Primary
Sample Name:		RD-08_012617_01	RD-08_072617_01	RD-08_072617_36	RD-10_011817_01	RD-11_012617_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/26/2017	7/26/2017	7/26/2017	1/18/2017	1/26/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	0.21 U	--	--	--	0.21 U
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	0.21 U	--	--	--	0.21 U
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	--	0.42 U	0.42 U	0.42 U	--
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	1.7 J	1.2	1.1	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	0.0017 U	0.0017 U	0.0017 U	--	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	0.0049 U	--	--	--	0.0049 U
1,2-Dibromoethane	**504.1**	0.0022 U	--	--	--	0.0021 U
1,2-Dichlorobenzene	**8260B**	0.15 U	--	--	--	0.15 U
1,2-Dichloroethane	**8260B**	66 J	6.5	6	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	0.18 U	--	--	--	0.18 U
1,3-Dichlorobenzene	**8260B**	0.13 U	--	--	--	0.13 U
1,4-Dichlorobenzene	**8260B**	0.16 U	--	--	--	0.16 U
1,4-Dioxane	**8260B SIM**	3.9	2.8	3.3	0.27 J	0.22 U
2-Hexanone	**8260B**	1.7 U	--	--	--	1.7 U
Acetone	**8260B**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Acetonitrile	**8260B**	9.6 U	--	--	--	9.6 U
Acrolein	**8260B**	2.8 U	--	--	--	2.8 U
Acrylonitrile	**8260B**	1.4 U	--	--	--	1.4 U
Allyl chloride	**8260B**	0.17 U	--	--	--	0.17 U
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	0.17 U	--	--	--	0.17 U
Bromoform	**8260B**	0.19 U	--	--	--	0.19 U
Bromomethane	**8260B**	0.21 U	--	--	--	0.21 U
Carbon Disulfide	**8260B**	0.45 U	--	--	--	0.45 U
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	0.17 U	--	--	--	0.17 U
Chloroethane	**8260B**	0.41 U	--	--	--	0.41 U
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	0.3 U	--	--	--	0.3 U
Chloroprene	**8260B**	0.21 U	--	--	--	0.21 U
cis-1,2-Dichloroethene	**8260B**	0.2 J	0.15 U	0.15 U	12 J	0.15 U
cis-1,3-Dichloropropene	**8260B**	0.16 U	--	--	--	0.16 U
Dibromochloromethane	**8260B**	0.17 U	--	--	--	0.17 U
Dibromomethane	**8260B**	0.17 U	--	--	--	0.17 U
Dichlorodifluoromethane	**8260B**	0.31 U	--	--	--	0.31 U
Ethyl cyanide	**8260B**	3.7 U	--	--	--	3.7 U
Ethyl methacrylate	**8260B**	0.86 U	--	--	--	0.86 U
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	0.23 U	--	--	--	0.23 U
Isobutanol	**8260B**	37 U	--	--	--	37 U
Isopropanol	**8260B**	--	--	--	--	--
Methacrylonitrile	**8260B**	1.6 U	--	--	--	1.6 U
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	0.98 U	--	--	--	0.98 U
Methyl methacrylate	**8260B**	1.1 U	--	--	--	1.1 U
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	5 UJ	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	0.17 U	--	--	--	0.17 U
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	1.2 J	0.15 U
trans-1,3-Dichloropropene	**8260B**	0.19 U	--	--	--	0.19 U
trans-1,4-Dichloro-2-butene	**8260B**	0.8 U	--	--	--	0.8 U
Trichloroethene	**8260B**	0.26 J	0.16 U	0.16 U	4.6 J	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	0.94 U	--	--	--	0.94 U
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.3 J	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-11	RD-12	RD-12	RD-13	RD-18
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-11_072417_01	RD-12_012717_01	RD-12_072717_01	RD-13_013117_01	RD-18_013017_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/24/2017	1/27/2017	7/27/2017	1/31/2017	1/30/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	0.21 U	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	0.21 U	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	--	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	0.0017 U	0.0017 U	0.0017 U	--	--
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	0.0049 U	--	--	--
1,2-Dibromoethane	**504.1**	--	0.0021 U	--	--	--
1,2-Dichlorobenzene	**8260B**	--	0.15 U	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.14 J	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	0.18 U	--	--	--
1,3-Dichlorobenzene	**8260B**	--	0.13 U	--	--	--
1,4-Dichlorobenzene	**8260B**	--	0.16 U	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	0.22 U	0.4 J	--	0.22 U
2-Hexanone	**8260B**	--	1.7 U	--	--	--
Acetone	**8260B**	3.8 J	1.9 U	1.9 U	1.9 U	1.9 U
Acetonitrile	**8260B**	--	9.6 U	--	--	--
Acrolein	**8260B**	--	2.8 U	--	--	--
Acrylonitrile	**8260B**	--	1.4 U	--	--	--
Allyl chloride	**8260B**	--	0.17 U	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	0.17 U	--	--	--
Bromoform	**8260B**	--	0.19 U	--	--	--
Bromomethane	**8260B**	--	0.21 U	--	--	--
Carbon Disulfide	**8260B**	--	0.45 U	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	0.17 U	--	--	--
Chloroethane	**8260B**	--	0.41 U	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	0.3 U	--	--	--
Chloroprene	**8260B**	--	0.21 U	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.16 J	0.15 U	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	0.16 U	--	--	--
Dibromochloromethane	**8260B**	--	0.17 U	--	--	--
Dibromomethane	**8260B**	--	0.17 U	--	--	--
Dichlorodifluoromethane	**8260B**	--	0.31 U	--	--	--
Ethyl cyanide	**8260B**	--	3.7 U	--	--	--
Ethyl methacrylate	**8260B**	--	0.86 U	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	0.23 U	--	--	--
Isobutanol	**8260B**	--	37 U	--	--	--
Isopropanol	**8260B**	--	--	--	--	--
Methacrylonitrile	**8260B**	--	1.6 U	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	0.98 U	--	--	--
Methyl methacrylate	**8260B**	--	1.1 U	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	0.17 U	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	0.19 U	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	0.8 U	--	--	--
Trichloroethene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	0.94 U	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-32	RD-32	RD-36C	RD-36C	RD-36D
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-32_020117_01	RD-32_072117_01	RD-36C_012417_01	RD-36C_073117_01	RD-36D_012417_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		2/1/2017	7/21/2017	1/24/2017	7/31/2017	1/24/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 UJ	0.16 UJ	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 UJ	0.42 UJ	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 UJ	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 UJ	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 UJ	0.23 UJ	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	0.0017 U	--	0.0017 U	0.0017 U	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	--	2.2	2.3	0.72 J
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	1.9 U	1.9 U	10 UJ	10 U	10 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 UJ	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 UJ	0.19 UJ	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 UJ	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	7.4 J	7.4	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 UJ	0.16 UJ	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	--	--	13 UJ	130 U	13 U
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 UJ	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 UJ	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 UJ	0.34 UJ	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 UJ	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 UJ	0.2 UJ	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 UJ	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.19 J	0.22 J	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.16 UJ	0.16 UJ	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 UJ	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-36D	RD-37	RD-37	RD-38B	RD-38B
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-36D_073117_01	RD-37_020117_01	RD-37_072617_01	RD-38B_020117_01	RD-38B_072717_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/31/2017	2/1/2017	7/26/2017	2/1/2017	7/27/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	0.94 J	1.1 J	0.22 U	0.33 J
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	10 U	1.9 U	1.9 U	1.9 U	5.6 J
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	100 U	29 J	13 U	37 J	100 U
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.25 J	0.17 U	0.17 J	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-39B	RD-39B	RD-43A	RD-43A	RD-43B
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-39B_011917_01	RD-39B_072817_01	RD-43A_012617_01	RD-43A_071917_01	RD-43B_012617_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/19/2017	7/28/2017	1/26/2017	7/19/2017	1/26/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 UJ
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 UJ
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 UJ
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 UJ
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 UJ
1,2,3-Trichloropropane	**524.2**	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 UJ
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	1.9 U	3.1 J	1.9 U	1.9 U	1.9 UJ
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 UJ
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 UJ
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 UJ
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 UJ
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	14 J	100 U	13 U	130 J	13 UJ
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 UJ
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	5 UJ	0.32 U	0.32 U	0.32 U	0.32 UJ
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 UJ
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 UJ
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 UJ
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 UJ
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 UJ
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-43B	RD-43B	RD-43B	RD-43C	RD-43C
Sample Type:		Field Duplicate	Primary	Field Duplicate	Primary	Primary
Sample Name:		RD-43B_012617_36	RD-43B_071917_01	RD-43B_071917_36	RD-43C_012617_01	RD-43C_071917_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/26/2017	7/19/2017	7/19/2017	1/26/2017	7/19/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	1.9 U	14 J	10	1.9 U	12 J
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	13 U	190 J	160	13 U	100 J
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-44	RD-45A	RD-45A	RD-45B	RD-45B
Sample Type:		Primary	Primary	Primary	Primary	Field Duplicate
Sample Name:		RD-44_011717_01	RD-45A_012617_01	RD-45A_071917_01	RD-45B_012617_01	RD-45B_012617_36
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/17/2017	1/26/2017	7/19/2017	1/26/2017	1/26/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.68 J	0.35 J	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	1.9	1.2 J	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	--	0.0017 U	0.0017 U	0.0017 U	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	6.8 J	1.5 J	1.1 J	0.96 J
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	1.9 U	1.9 U	7.9 J	1.9 U	4.1 J
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	130	190 J	27	31
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	--	13 U	100 J	13 U	13 U
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.19 J	0.19 J
trans-1,2-Dichloroethene	**8260B**	0.15 U	7.2	6.9 J	0.4 J	0.5 J
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	660	130 J	0.19 J	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.15 J	0.13 J	0.32 J	0.31 J

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-45B	RD-45C	RD-45C	RD-46A	RD-46B
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-45B_071917_01	RD-45C_012617_01	RD-45C_071917_01	RD-46A_080417_01	RD-46B_011717_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/19/2017	1/26/2017	7/19/2017	8/4/2017	1/17/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.32 U	0.32 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.84 U	0.42 R	0.76 J	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.54 U	0.54 U	9	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.5 J	0.44 U	0.51 J	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	1.3 J	1.6 R	6.5	0.23 U
1,2,3-Trichloropropane	**524.2**	0.0017 U	0.0017 U	0.0017 U	0.042	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.26 U	0.26 U	0.26 J	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.84 J	2.8	2.3 J	44 U	0.22 U
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	1.9 U	3.8 U	3.8 U	10 U	1.9 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.32 U	0.32 U	0.2 J	0.34 J
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.38 U	0.19 R	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.32 U	0.16 R	12	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	28 J	340	310 J	1700	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.32 U	0.16 R	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	110 J	26 U	26 U	100 U	13 U
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	4 U	2 R	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.64 U	0.32 R	5 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.68 U	0.68 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.38 U	0.19 R	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.4 U	0.2 R	2.3	0.2 U
Toluene	**8260B**	0.17 U	0.34 U	0.34 U	0.17 U	0.6 J
trans-1,2-Dichloroethene	**8260B**	0.57 J	8.3	7.2 R	16	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.32 U	0.32 U	43000	0.28 J
Trichlorofluoromethane	**8260B**	0.29 U	0.58 U	0.58 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.2 U	0.1 R	1.3	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-46B	RD-48B	RD-48B	RD-48C	RD-48C
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-46B_072817_01	RD-48B_012417_01	RD-48B_072517_01	RD-48C_012417_01	RD-48C_072517_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/28/2017	1/24/2017	7/25/2017	1/24/2017	7/25/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	0.0017 U	0.0017 U	0.0017 U	0.0017 J	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	0.22 U	0.22 U	0.22 U	0.45 J
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	5.1 J	10 U	1.9 UJ	10 U	10 UJ
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.38 J	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	100 U	13 U	100 UJ	13 U	100 UJ
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 UJ	2 U	2 UJ
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.6 J	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.21 J	0.16 U	0.16 U	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-50	RD-50	RD-51A	RD-51A	RD-51B
Sample Type:		Primary	Split	Primary	Primary	Primary
Sample Name:		RD-50_013017_01	RD-50_013017_03A	RD-51A_011917_01	RD-51A_072017_01	RD-51B_011917_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	EMAX	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/30/2017	1/30/2017	1/19/2017	7/20/2017	1/19/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.2 U	0.16 U	0.16 UJ	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.3 U	0.42 U	0.42 UJ	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.2 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.2 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.2 U	0.23 U	0.23 UJ	0.23 U
1,2,3-Trichloropropane	**524.2**	--	--	0.0017 U	0.0017 U	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.2 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	--	--	0.22 U	0.35 J	0.22 U
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	1.9 U	5 U	1.9 U	10 UJ	1.9 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.2 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.2 U	0.19 U	0.19 UJ	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.2 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.2 U	3.7 J	3.5 J	3.2 J
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.2 U	0.16 U	0.16 UJ	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	--	--	17 J	100 UJ	13 U
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	4 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.5 U	5 UJ	0.32 U	5 UJ
m-Xylene & p-Xylene	**8260B**	0.34 U	0.4 U	0.34 U	0.34 UJ	0.34 U
o-Xylene	**8260B**	0.19 U	0.2 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U
Toluene	**8260B**	0.17 U	0.2 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.2 U	0.3 J	0.22 J	0.21 J
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.2 U	3.5 J	8.6 J	1.6 J
Trichlorofluoromethane	**8260B**	0.29 U	0.3 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.2 U	0.29 J	0.44 J	1.6 J

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-51B	RD-51C	RD-51C	RD-51C	RD-52A
	Sample Type:	Primary	Primary	Field Duplicate	Primary	Primary
	Sample Name:	RD-51B_072017_01	RD-51C_011917_01	RD-51C_011917_36	RD-51C_072017_01	RD-52A_012417_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/20/2017	1/19/2017	1/19/2017	7/20/2017	1/24/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 UJ	0.16 U	0.16 U	0.16 UJ	0.64 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 UJ	0.42 U	0.42 U	0.42 UJ	1.7 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	1.1 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.89 J
1,1-Dichloroethene	**8260B**	0.23 UJ	0.23 U	0.23 U	0.23 UJ	5
1,2,3-Trichloropropane	**524.2**	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.52 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.35 J	0.22 U	0.22 U	0.22 U	7.1 J
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	10 U	1.9 U	1.9 U	1.9 U	40 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.64 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 UJ	0.19 U	0.19 U	0.19 UJ	0.76 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.64 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	3.3	0.15 U	0.15 U	0.15 U	390
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 UJ	0.16 U	0.16 U	0.16 UJ	0.64 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	100 U	17 J	13 U	110 U	52 U
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	8 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	5 UJ	5 UJ	0.32 U	1.3 U
m-Xylene & p-Xylene	**8260B**	0.34 UJ	0.34 U	0.34 U	0.34 UJ	1.4 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.76 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 UJ	0.2 U	0.2 U	0.2 UJ	0.8 U
Toluene	**8260B**	0.26 J	0.17 U	0.17 U	0.17 U	0.68 U
trans-1,2-Dichloroethene	**8260B**	0.22 J	0.15 U	0.15 U	0.15 U	72
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	1.7 J	0.16 U	0.16 U	0.16 UJ	750
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	1.2 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	2.1	0.1 U	0.1 U	0.39 J	25

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-52A	RD-52B	RD-52B	RD-52C	RD-52C
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-52A_072017_01	RD-52B_012417_01	RD-52B_072017_01	RD-52C_012417_01	RD-52C_072017_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/20/2017	1/24/2017	7/20/2017	1/24/2017	7/20/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	8260B	--	--	--	--	--
1,1,1-Trichloroethane	8260B	0.8 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ
1,1,2,2-Tetrachloroethane	8260B	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	8260B	2.1 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
1,1,2-Trichloroethane	8260B	1.4 U	0.27 UJ	0.27 U	0.27 UJ	0.27 U
1,1-Dichloroethane	8260B	2 J	0.22 UJ	0.22 U	0.22 UJ	0.22 U
1,1-Dichloroethene	8260B	6.9 J	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ
1,2,3-Trichloropropane	524.2	0.0085 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U
1,2,3-Trichloropropane	8260B SIM	--	--	--	--	--
1,2-Dibromo-3-chloropropane	504.1	--	--	--	--	--
1,2-Dibromoethane	504.1	--	--	--	--	--
1,2-Dichlorobenzene	8260B	--	--	--	--	--
1,2-Dichloroethane	8260B	0.65 U	0.13 UJ	0.13 U	0.13 UJ	0.13 U
1,2-Dichloropropane	8260B	--	--	--	--	--
1,3-Dichlorobenzene	8260B	--	--	--	--	--
1,4-Dichlorobenzene	8260B	--	--	--	--	--
1,4-Dioxane	8260B SIM	3.1 J	1.3 J	2 U	1.4 J	2 U
2-Hexanone	8260B	--	--	--	--	--
Acetone	8260B	9.5 U	10 UJ	1.9 U	10 UJ	10 UJ
Acetonitrile	8260B	--	--	--	--	--
Acrolein	8260B	--	--	--	--	--
Acrylonitrile	8260B	--	--	--	--	--
Allyl chloride	8260B	--	--	--	--	--
Benzene	8260B	0.8 U	0.16 UJ	0.16 U	0.16 UJ	0.16 U
Bromodichloromethane	8260B	--	--	--	--	--
Bromoform	8260B	--	--	--	--	--
Bromomethane	8260B	--	--	--	--	--
Carbon Disulfide	8260B	--	--	--	--	--
Carbon Tetrachloride	8260B	0.95 UJ	0.19 UJ	0.19 UJ	0.19 UJ	0.19 UJ
Chlorobenzene	8260B	--	--	--	--	--
Chloroethane	8260B	--	--	--	--	--
Chloroform	8260B	0.8 U	0.16 UJ	0.16 U	0.16 UJ	0.16 U
Chloromethane	8260B	--	--	--	--	--
Chloroprene	8260B	--	--	--	--	--
cis-1,2-Dichloroethene	8260B	370	7 J	14	0.15 UJ	0.15 U
cis-1,3-Dichloropropene	8260B	--	--	--	--	--
Dibromochloromethane	8260B	--	--	--	--	--
Dibromomethane	8260B	--	--	--	--	--
Dichlorodifluoromethane	8260B	--	--	--	--	--
Ethyl cyanide	8260B	--	--	--	--	--
Ethyl methacrylate	8260B	--	--	--	--	--
Ethylbenzene	8260B	0.8 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ
Iodomethane	8260B	--	--	--	--	--
Isobutanol	8260B	--	--	--	--	--
Isopropanol	8260B	500 U	13 UJ	100 U	13 UJ	100 UJ
Methacrylonitrile	8260B	--	--	--	--	--
Methyl ethyl ketone	8260B	10 U	2 UJ	2 U	2 UJ	2 U
Methyl isobutyl ketone (MIBK)	8260B	--	--	--	--	--
Methyl methacrylate	8260B	--	--	--	--	--
Methylene chloride	8260B	25 U	0.32 UJ	0.32 U	0.32 UJ	0.32 U
m-Xylene & p-Xylene	8260B	1.7 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ
o-Xylene	8260B	0.95 U	0.19 UJ	0.19 U	0.19 UJ	0.19 U
Styrene	8260B	--	--	--	--	--
Tetrachloroethene	8260B	1 UJ	0.2 UJ	0.2 UJ	0.2 UJ	0.2 UJ
Toluene	8260B	0.85 U	0.17 UJ	0.17 U	0.17 UJ	0.17 U
trans-1,2-Dichloroethene	8260B	87	1.7 J	2.9	0.15 UJ	0.15 U
trans-1,3-Dichloropropene	8260B	--	--	--	--	--
trans-1,4-Dichloro-2-butene	8260B	--	--	--	--	--
Trichloroethene	8260B	1200 J	0.28 J	0.28 J	0.16 UJ	0.16 UJ
Trichlorofluoromethane	8260B	1.5 U	0.29 UJ	0.29 U	0.29 UJ	0.29 U
Vinyl acetate	8260B	--	--	--	--	--
Vinyl chloride	8260B	27	0.1 UJ	0.1 U	0.1 UJ	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-55A	RD-55B	RD-55B	RD-58A	RD-58A
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-55A_071817_01	RD-55B_012717_01	RD-55B_071817_01	RD-58A_012717_01	RD-58A_071817_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/18/2017	1/27/2017	7/18/2017	1/27/2017	7/18/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	3.7 J	3 J
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	--	--	--	--	--
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	0.22 U	0.6 J	0.88 U	0.22 U
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	12	1.9 U	1.9 U	1.9 U	1.9 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.22 J	0.22 J
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	3.4	5.4	5.9 J	2.9	2.5 J
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	220	14 J	13 U	13 U	13 U
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	10	1.8	3.6 J	150	160 J
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-58B	RD-58B	RD-58C	RD-58C	RD-61
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-58B_012717_01	RD-58B_071817_01	RD-58C_012717_01	RD-58C_071817_01	RD-61_020217_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/27/2017	7/18/2017	1/27/2017	7/18/2017	2/2/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	--	--	--	--	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	0.78 J	0.22 U	0.79 J	0.22 U
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	1.9 U	1.9 U	1.9 U	4.3 J	1.9 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.38 J	0.36 J	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	13 U	13 U	13 U	13 U	--
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.18 J	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.34 J	0.48 J	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-62	RD-66	RD-73	RD-73	RD-73
Sample Type:		Primary	Primary	Primary	Field Duplicate	Primary
Sample Name:		RD-62_011717_01	RD-66_011717_01	RD-73_020217_01	RD-73_020217_36	RD-73_071717_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/17/2017	1/17/2017	2/2/2017	2/2/2017	7/17/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	1.6 U	3.2 U	1.6 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	40 J	43 J	26 J
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	2.7 U	5.4 U	2.7 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	22	22	16
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	710	670	400
1,2,3-Trichloropropane	**524.2**	0.0017 U	--	--	--	0.017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	4.4 J	6.6 J	3.7 J
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	--	--	--	--
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	1.9 U	1.9 U	19 U	38 U	19 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	3.3 J	3.2 U	3.5 J
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	1.9 U	3.8 U	1.9 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	2.8 J	3.2 U	2.7 J
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	180	170	97
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	1.6 U	3.2 U	1.6 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	--	--	--	--	--
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	20 U	40 U	20 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	3.2 U	6.4 U	3.2 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	3.4 U	6.8 U	3.4 U
o-Xylene	**8260B**	0.19 U	0.19 U	1.9 U	3.8 U	1.9 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	2 U	4 U	2 U
Toluene	**8260B**	0.17 U	0.17 U	1.7 U	3.4 U	1.7 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	1.5 U	3 U	1.5 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.16 U	3100	2700	2100
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	2.9 U	5.8 U	2.9 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	8.2 J	8.2 J	5.6 J

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-73	RD-75	RD-76	RD-77	RD-78
Sample Type:		Field Duplicate	Primary	Primary	Primary	Primary
Sample Name:		RD-73_071717_36	RD-75_011717_01	RD-76_011817_01	RD-77_011917_01	RD-78_020217_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/17/2017	1/17/2017	1/18/2017	1/19/2017	2/2/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	1.6 U	0.16 U	0.16 U	1.6 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	30 J	0.42 U	0.42 U	5 J	0.42 U
1,1,2-Trichloroethane	**8260B**	2.7 U	0.27 U	0.27 U	2.7 U	0.27 U
1,1-Dichloroethane	**8260B**	18	0.22 U	0.22 U	5.2 J	0.22 U
1,1-Dichloroethene	**8260B**	480	0.23 U	0.23 U	56 J	0.23 U
1,2,3-Trichloropropane	**524.2**	0.017 U	--	--	0.0017 U	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	1.3 U	0.13 U	0.13 U	1.3 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	--	--	--	16 J	8.6
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	19 U	1.9 U	1.9 U	19 U	1.9 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	3.8 J	0.16 U	0.16 U	1.6 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	1.9 U	0.19 U	0.19 U	1.9 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	2.4 J	0.16 U	0.16 U	1.9 J	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	110	0.15 U	0.15 U	130 J	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	1.6 U	0.16 U	0.16 U	1.6 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	--	--	--	130 U	--
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	20 U	2 U	2 U	20 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	3.2 U	0.32 U	5 UJ	50 UJ	0.32 U
m-Xylene & p-Xylene	**8260B**	3.4 U	0.34 U	0.34 U	3.4 U	0.34 U
o-Xylene	**8260B**	1.9 U	0.19 U	0.19 U	1.9 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	2 U	0.2 U	0.2 U	2 U	0.2 U
Toluene	**8260B**	1.7 U	0.17 U	0.17 U	1.7 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	1.5 U	0.15 U	0.15 U	1.5 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	2200	0.16 U	0.16 U	2700	0.16 U
Trichlorofluoromethane	**8260B**	2.9 U	0.29 U	0.29 U	2.9 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	6.4 J	0.1 U	0.1 U	1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-103 QA-15	RD-120 QA-10	RD-121	RD-129
Sample Type:		Primary	Primary	Primary	Primary
Sample Name:		RD-103 QA-15_012717_01	RD-120 QA-10_013017_01	RD-121_013117_01	RD-129_012517_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/27/2017	1/30/2017	1/31/2017	1/25/2017
Analyte (µg/L)	**Method**				
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.32 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.84 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.54 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.44 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	4.9	4.3 J
1,2,3-Trichloropropane	**524.2**	--	--	--	--
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.26 U
1,2-Dichloropropane	**8260B**	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.8 J	0.22 U	0.22 U	10
2-Hexanone	**8260B**	--	--	--	--
Acetone	**8260B**	1.9 U	1.9 U	1.9 U	3.8 U
Acetonitrile	**8260B**	--	--	--	--
Acrolein	**8260B**	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.37 J
Bromodichloromethane	**8260B**	--	--	--	--
Bromoform	**8260B**	--	--	--	--
Bromomethane	**8260B**	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.38 U
Chlorobenzene	**8260B**	--	--	--	--
Chloroethane	**8260B**	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.32 U
Chloromethane	**8260B**	--	--	--	--
Chloroprene	**8260B**	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	49	0.15 U	1.1	240 J
cis-1,3-Dichloropropene	**8260B**	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.32 U
Iodomethane	**8260B**	--	--	--	--
Isobutanol	**8260B**	--	--	--	--
Isopropanol	**8260B**	--	--	--	--
Methacrylonitrile	**8260B**	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	4 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.64 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.68 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.38 U
Styrene	**8260B**	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.4 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.34 U
trans-1,2-Dichloroethene	**8260B**	1.4	0.15 U	0.15 U	16 J
trans-1,3-Dichloropropene	**8260B**	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--
Trichloroethene	**8260B**	25	0.16 U	99	350 J
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.58 U
Vinyl acetate	**8260B**	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.2 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-130	RD-131	RD-147	RS-30	RS-31
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-130_011917_01	RD-131_011817_01	RD-147_011817_01	RS-30_071717_01A	RS-31_071717_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Shallow	Shallow
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/19/2017	1/18/2017	1/18/2017	7/17/2017	7/17/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.64 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	1.7 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	1.1 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	2.7 J	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	15 J	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	--	--	--	--	--
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.52 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	--	--	--	--	--
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	7.6 U	1.9 U	1.9 U	1.9 U	1.9 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.64 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.64 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	30 J	0.15 U	0.15 U	0.15 U	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.64 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	--	--	--	--	--
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	8 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	20 UJ	5 UJ	5 UJ	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	1.4 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.76 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.8 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.68 U	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	1.2 J	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	510	0.16 U	0.16 U	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	1.2 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.4 U	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RS-32	RS-32	RS-41	SP-22A	SP-22A
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		RS-32_020217_01	RS-32_071717_01	RS-41_013017_01	SP-22A_013117_01	SP-22A_073117_01
Groundwater Unit:		Shallow	Shallow	Chatsworth	Shallow	Shallow
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		2/2/2017	7/17/2017	1/30/2017	1/31/2017	7/31/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	--	--	--	--	--
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	--	--	--	--	--
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	1.9 U	1.9 U	1.9 U	10 U	5.9 J
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.35 J	0.15 U	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	--	--	--	--	--
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.2 J	1.6 J	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		SP-22B	SP-22B	SP-22C	SP-22C	SP-22D
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		SP-22B_013117_01	SP-22B_073117_01	SP-22C_013117_01	SP-22C_073117_01	SP-22D_013117_01
Groundwater Unit:		Shallow	Shallow	Shallow	Shallow	Shallow
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/31/2017	7/31/2017	1/31/2017	7/31/2017	1/31/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	--	--	--	--	--
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	--	--	--	--
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	1.9 U	7.6 J	1.9 U	7.1 J	1.9 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	--	--	--	--	--
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		SP-22D	SP-27C	SP-27D	SP-27E	SP-424C
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		SP-22D_073117_01	SP-27C_013117_01	SP-27D_013117_01	SP-27E_013117_01	SP-424C_020117_01
Groundwater Unit:		Shallow	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/31/2017	1/31/2017	1/31/2017	1/31/2017	2/1/2017
Analyte (µg/L)	**Method**					
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,2,3-Trichloropropane	**524.2**	--	0.0017 U	--	--	--
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-Dichloropropane	**8260B**	--	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--	--
1,4-Dioxane	**8260B SIM**	--	0.22 U	0.22 U	0.22 U	0.22 U
2-Hexanone	**8260B**	--	--	--	--	--
Acetone	**8260B**	11	1.9 U	1.9 U	1.9 U	1.9 U
Acetonitrile	**8260B**	--	--	--	--	--
Acrolein	**8260B**	--	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	**8260B**	--	--	--	--	--
Bromoform	**8260B**	--	--	--	--	--
Bromomethane	**8260B**	--	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Chlorobenzene	**8260B**	--	--	--	--	--
Chloroethane	**8260B**	--	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Chloromethane	**8260B**	--	--	--	--	--
Chloroprene	**8260B**	--	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
cis-1,3-Dichloropropene	**8260B**	--	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Iodomethane	**8260B**	--	--	--	--	--
Isobutanol	**8260B**	--	--	--	--	--
Isopropanol	**8260B**	--	--	--	--	--
Methacrylonitrile	**8260B**	--	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	2 U	2 U
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Styrene	**8260B**	--	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
trans-1,3-Dichloropropene	**8260B**	--	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Vinyl acetate	**8260B**	--	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		SP-737A	SP-737B	SP-737C	WS-04A
Sample Type:		Primary	Primary	Primary	Primary
Sample Name:		SP-737A_080217_01	SP-737B_080217_01	SP-737C_080217_01	WS-04A_072717_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		8/2/2017	8/2/2017	8/2/2017	7/27/2017
Analyte (µg/L)	**Method**				
1,1,1,2-Tetrachloroethane	**8260B**	--	--	--	--
1,1,1-Trichloroethane	**8260B**	0.16 U	0.16 U	0.16 U	--
1,1,2,2-Tetrachloroethane	**8260B**	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	0.42 U	0.42 U	0.42 U	--
1,1,2-Trichloroethane	**8260B**	0.27 U	0.27 U	0.27 U	--
1,1-Dichloroethane	**8260B**	0.22 U	0.22 U	0.22 U	--
1,1-Dichloroethene	**8260B**	0.23 U	0.23 U	0.23 U	--
1,2,3-Trichloropropane	**524.2**	--	--	--	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--	--	--	--
1,2-Dibromo-3-chloropropane	**504.1**	--	--	--	--
1,2-Dibromoethane	**504.1**	--	--	--	--
1,2-Dichlorobenzene	**8260B**	--	--	--	--
1,2-Dichloroethane	**8260B**	0.13 U	0.13 U	0.13 U	--
1,2-Dichloropropane	**8260B**	--	--	--	--
1,3-Dichlorobenzene	**8260B**	--	--	--	--
1,4-Dichlorobenzene	**8260B**	--	--	--	--
1,4-Dioxane	**8260B SIM**	0.22 U	--	--	--
2-Hexanone	**8260B**	--	--	--	--
Acetone	**8260B**	1.9 U	1.9 U	1.9 U	--
Acetonitrile	**8260B**	--	--	--	--
Acrolein	**8260B**	--	--	--	--
Acrylonitrile	**8260B**	--	--	--	--
Allyl chloride	**8260B**	--	--	--	--
Benzene	**8260B**	0.16 U	0.16 U	0.16 U	--
Bromodichloromethane	**8260B**	--	--	--	--
Bromoform	**8260B**	--	--	--	--
Bromomethane	**8260B**	--	--	--	--
Carbon Disulfide	**8260B**	--	--	--	--
Carbon Tetrachloride	**8260B**	0.19 U	0.19 U	0.19 U	--
Chlorobenzene	**8260B**	--	--	--	--
Chloroethane	**8260B**	--	--	--	--
Chloroform	**8260B**	0.16 U	0.16 U	0.16 U	--
Chloromethane	**8260B**	--	--	--	--
Chloroprene	**8260B**	--	--	--	--
cis-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	--
cis-1,3-Dichloropropene	**8260B**	--	--	--	--
Dibromochloromethane	**8260B**	--	--	--	--
Dibromomethane	**8260B**	--	--	--	--
Dichlorodifluoromethane	**8260B**	--	--	--	--
Ethyl cyanide	**8260B**	--	--	--	--
Ethyl methacrylate	**8260B**	--	--	--	--
Ethylbenzene	**8260B**	0.16 U	0.16 U	0.16 U	--
Iodomethane	**8260B**	--	--	--	--
Isobutanol	**8260B**	--	--	--	--
Isopropanol	**8260B**	--	--	--	--
Methacrylonitrile	**8260B**	--	--	--	--
Methyl ethyl ketone	**8260B**	2 U	2 U	2 U	--
Methyl isobutyl ketone (MIBK)	**8260B**	--	--	--	--
Methyl methacrylate	**8260B**	--	--	--	--
Methylene chloride	**8260B**	0.32 U	0.32 U	0.32 U	--
m-Xylene & p-Xylene	**8260B**	0.34 U	0.34 U	0.34 U	--
o-Xylene	**8260B**	0.19 U	0.19 U	0.19 U	--
Styrene	**8260B**	--	--	--	--
Tetrachloroethene	**8260B**	0.2 U	0.2 U	0.2 U	--
Toluene	**8260B**	0.17 U	0.17 U	0.17 U	--
trans-1,2-Dichloroethene	**8260B**	0.15 U	0.15 U	0.15 U	--
trans-1,3-Dichloropropene	**8260B**	--	--	--	--
trans-1,4-Dichloro-2-butene	**8260B**	--	--	--	--
Trichloroethene	**8260B**	0.16 U	0.16 U	0.16 U	--
Trichlorofluoromethane	**8260B**	0.29 U	0.29 U	0.29 U	--
Vinyl acetate	**8260B**	--	--	--	--
Vinyl chloride	**8260B**	0.1 U	0.1 U	0.1 U	--

TABLE 11
VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	WS-14
	Sample Type:	Primary
	Sample Name:	WS-14_072717_01
	Groundwater Unit:	Chatsworth
	Lab Name:	TA- Denver
	Collection Date:	7/27/2017
Analyte (µg/L)	**Method**	
1,1,1,2-Tetrachloroethane	**8260B**	--
1,1,1-Trichloroethane	**8260B**	--
1,1,2,2-Tetrachloroethane	**8260B**	--
1,1,2-Trichloro-1,2,2-trifluoroethane	**8260B**	--
1,1,2-Trichloroethane	**8260B**	--
1,1-Dichloroethane	**8260B**	--
1,1-Dichloroethene	**8260B**	--
1,2,3-Trichloropropane	**524.2**	0.0017 U
1,2,3-Trichloropropane	**8260B SIM**	--
1,2-Dibromo-3-chloropropane	**504.1**	--
1,2-Dibromoethane	**504.1**	--
1,2-Dichlorobenzene	**8260B**	--
1,2-Dichloroethane	**8260B**	--
1,2-Dichloropropane	**8260B**	--
1,3-Dichlorobenzene	**8260B**	--
1,4-Dichlorobenzene	**8260B**	--
1,4-Dioxane	**8260B SIM**	0.79 J
2-Hexanone	**8260B**	--
Acetone	**8260B**	--
Acetonitrile	**8260B**	--
Acrolein	**8260B**	--
Acrylonitrile	**8260B**	--
Allyl chloride	**8260B**	--
Benzene	**8260B**	--
Bromodichloromethane	**8260B**	--
Bromoform	**8260B**	--
Bromomethane	**8260B**	--
Carbon Disulfide	**8260B**	--
Carbon Tetrachloride	**8260B**	--
Chlorobenzene	**8260B**	--
Chloroethane	**8260B**	--
Chloroform	**8260B**	--
Chloromethane	**8260B**	--
Chloroprene	**8260B**	--
cis-1,2-Dichloroethene	**8260B**	--
cis-1,3-Dichloropropene	**8260B**	--
Dibromochloromethane	**8260B**	--
Dibromomethane	**8260B**	--
Dichlorodifluoromethane	**8260B**	--
Ethyl cyanide	**8260B**	--
Ethyl methacrylate	**8260B**	--
Ethylbenzene	**8260B**	--
Iodomethane	**8260B**	--
Isobutanol	**8260B**	--
Isopropanol	**8260B**	--
Methacrylonitrile	**8260B**	--
Methyl ethyl ketone	**8260B**	--
Methyl isobutyl ketone (MIBK)	**8260B**	--
Methyl methacrylate	**8260B**	--
Methylene chloride	**8260B**	--
m-Xylene & p-Xylene	**8260B**	--
o-Xylene	**8260B**	--
Styrene	**8260B**	--
Tetrachloroethene	**8260B**	--
Toluene	**8260B**	--
trans-1,2-Dichloroethene	**8260B**	--
trans-1,3-Dichloropropene	**8260B**	--
trans-1,4-Dichloro-2-butene	**8260B**	--
Trichloroethene	**8260B**	--
Trichlorofluoromethane	**8260B**	--
Vinyl acetate	**8260B**	--
Vinyl chloride	**8260B**	--

NOTES AND ABBREVIATIONS

Chatsworth - Chatsworth Formation groundwater unit
Shallow - Near-surface groundwater unit
µg/L - micrograms per liter

-- Not analyzed
MDL - method detection limit
RL - reporting limit
TA - TestAmerica

J - Estimated value. Result may receive a J flag for the following reasons:
- Routinely indicates that the analyte was detected at a level less than the RL and greater than or equal to the MDL.
- In some instances may indicate that minor quality control deficiencies may hav slightly compromised result accuracy.

U - Not detected above the MDL or RL
UJ - The result is not detected; however, the RL/MDL is estimated.

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	HAR-01	HAR-01	HAR-03	HAR-04	HAR-16	HAR-16
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Split
	Sample Name:	HAR-01_012517_01	HAR-01_073117_01	HAR-03_072417_01	HAR-04_072517_01	HAR-16_012517_01	HAR-16_012517_03A
	Groundwater Unit:	Chatsworth	Chatsworth	Shallow	Shallow	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	EMAX
	Collection Date:	1/25/2017	7/31/2017	7/24/2017	7/25/2017	1/25/2017	1/25/2017
Analyte (µg/L)	**Method**						
1,2,4,5-Tetrachlorobenzene	**8270C**	1.7 U	--	1.7 U	1.6 U	1.6 U	4.8 U
1,2,4-Trichlorobenzene	**8270C**	0.27 U	--	0.27 U	0.27 U	0.27 U	4.8 U
1,3-Dichlorobenzene	**8270C**	0.29 U	--	0.29 U	0.29 U	0.29 U	4.8 U
1,3-Dinitrobenzene	**8270C**	2 U	1.9 U	1.9 U	1.9 U	1.9 U	4.8 U
1,4-Naphthoquinone	**8270C**	14 U	--	13 U	13 U	13 U	4.8 U
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
2,4,5-Trichlorophenol	**8270C**	0.44 U	--	0.43 U	0.43 U	0.43 U	4.8 U
2,4,6-Trichlorophenol	**8270C**	0.28 U	--	0.28 U	0.28 U	0.28 U	4.8 U
2,4-Dichlorophenol	**8270C**	0.63 U	--	0.61 U	0.61 U	0.61 U	4.8 U
2,4-Dimethylphenol	**8270C**	0.57 U	--	0.55 U	0.55 U	0.55 U	4.8 U
2,4-Dinitrophenol	**8270C**	9.8 U	--	9.5 U	9.5 U	9.5 U	4.8 U
2,4-Dinitrotoluene	**8270C**	1.6 U	--	1.6 U	1.6 U	1.6 U	4.8 U
2,6-Dichlorophenol	**8270C**	1.3 U	--	1.3 U	1.3 U	1.3 U	4.8 U
2,6-Dinitrotoluene	**8270C**	1.9 U	--	1.8 U	1.8 U	1.8 U	4.8 U
2-Chloronaphthalene	**8270C**	0.25 U	--	0.25 U	0.25 U	0.25 U	4.8 U
2-Chlorophenol	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
2-Methylnaphthalene	**8270C**	0.28 U	--	0.28 U	0.28 U	0.28 U	4.8 U
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--	--
2-Nitroaniline	**8270C**	1.7 U	--	1.7 U	1.6 U	1.6 U	4.8 U
2-Nitrophenol	**8270C**	0.38 U	--	0.37 U	0.37 U	0.37 U	4.8 U
3,3'-Dichlorobenzidine	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
3-Methylcholanthrene	**8270C**	1.7 U	--	1.6 U	1.6 U	1.6 U	4.8 U
3-Nitroaniline	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
4,6-Dinitro-o-cresol	**8270C**	3.9 U	--	3.8 U	3.8 U	3.8 U	4.8 U
4-Aminobiphenyl	**8270C**	4.4 U	--	4.3 U	4.3 U	4.3 U	4.8 U
4-Bromophenyl phenyl ether	**8270C**	0.42 U	--	0.41 U	0.41 U	0.41 U	4.8 U
4-Chlorophenylphenyl ether	**8270C**	1.6 U	--	1.6 U	1.6 U	1.6 U	4.8 U
4-Nitrophenol	**8270C**	1.2 U	--	1.2 U	1.2 U	1.2 U	4.8 U
4-Nitroquinoline-1-oxide	**8270C**	20 U	--	19 UJ	19 U	19 U	9.6 U
5-Nitro-o-toluidine	**8270C**	1.4 U	--	1.3 U	1.3 U	1.3 U	4.8 U
7,12-Dimethylbenz(a)anthracene	**8270C**	1.5 U	--	1.5 U	1.5 U	1.5 U	4.8 U
Acenaphthene	**8270C**	0.27 U	--	0.27 U	0.27 U	0.27 U	4.8 U
Acenaphthene	**8270C SIM**	--	--	--	--	--	--
Acenaphthylene	**8270C**	0.48 U	--	0.47 U	0.47 U	0.47 U	4.8 U
Acenaphthylene	**8270C SIM**	--	--	--	--	--	--
Acetamidofluorene	**8270C**	6.8 U	--	6.7 U	6.7 U	6.7 U	4.8 U
Acetophenone	**8270C**	0.23 U	--	0.23 U	0.23 U	0.23 U	4.8 U
alpha, alpha-Dimethylphenethylamine	**8270C**	20 U	--	19 U	19 U	19 U	19 U
alpha-Naphthylamine	**8270C**	3 U	--	3 U	3 U	3 U	4.8 U
alpha-Picoline	**8270C**	1.2 U	--	1.1 U	1.1 U	1.1 U	4.8 U
Aniline	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	9.6 U
Anthracene	**8270C**	0.41 U	--	0.4 U	0.4 U	0.4 U	4.8 U
Anthracene	**8270C SIM**	--	--	--	--	--	--
Aramite	**8270C**	9 U	--	8.8 U	8.8 U	8.8 U	4.8 U
Benzo(a)anthracene	**8270C**	0.34 U	--	0.33 U	0.33 U	0.33 U	4.8 U
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C**	0.3 U	--	0.3 U	0.3 U	0.3 U	4.8 U
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	0	--	0	0	0	0
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	0.52 U	--	0.51 U	0.51 U	0.51 U	4.8 U
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	0.49 U	--	0.48 U	0.48 U	0.48 U	4.8 U
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	0.45 U	--	0.44 U	0.44 U	0.44 U	4.8 U
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzyl alcohol	**8270C**	0.23 U	--	9.5 U	0.22 U	0.22 U	4.8 U
beta-Naphthylamine	**8270C**	3 U	--	2.9 U	2.9 U	2.9 U	9.6 U
bis(2-Chloroethoxy)methane	**8270C**	0.95 U	--	0.93 U	0.92 U	0.92 U	4.8 U
bis(2-Chloroethyl) ether	**8270C**	0.4 U	--	0.39 U	0.39 U	0.39 U	4.8 U
bis(2-Chloroisopropyl) ether	**8270C**	0.27 U	--	0.27 U	0.27 U	0.27 U	4.8 U
bis(2-Ethylhexyl) phthalate	**8270C**	0.55 U	0.53 U	0.53 U	0.53 U	0.53 U	4.8 UJ
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	0.98 U	0.95 U	0.95 U	0.95 U	0.95 U	4.8 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--	4.8 U
Chrysene	**8270C**	0.53 U	--	0.52 U	0.51 U	0.51 U	4.8 U
Chrysene	**8270C SIM**	--	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--	4.8 U
Dibenzo(a,h)anthracene	**8270C**	0.5 U	--	0.49 U	0.49 U	0.49 U	4.8 U
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	HAR-01	HAR-01	HAR-03	HAR-04	HAR-16	HAR-16
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Split
	Sample Name:	HAR-01_012517_01	HAR-01_073117_01	HAR-03_072417_01	HAR-04_072517_01	HAR-16_012517_01	HAR-16_012517_03A
	Groundwater Unit:	Chatsworth	Chatsworth	Shallow	Shallow	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	EMAX
	Collection Date:	1/25/2017	7/31/2017	7/24/2017	7/25/2017	1/25/2017	1/25/2017
Analyte (µg/L)	**Method**						
Dibenzofuran	**8270C**	0.28 U	--	0.28 U	0.28 U	0.28 U	4.8 U
Diethyl phthalate	**8270C**	0.37 U	0.36 U	0.36 U	0.36 U	0.36 U	4.8 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	4.8 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	4.8 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	4.8 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--	--
Diphenylamine	**8270C**	1 U	--	1 U	1 U	1 U	--
Ethyl methanesulfonate	**8270C**	0.92 U	--	0.9 U	0.9 U	0.9 U	4.8 U
Fluoranthene	**8270C**	0.2 U	--	0.19 U	0.19 U	0.19 U	4.8 U
Fluoranthene	**8270C SIM**	--	--	--	--	--	--
Fluorene	**8270C**	0.3 U	--	0.3 U	0.3 U	0.3 U	4.8 U
Fluorene	**8270C SIM**	--	--	--	--	--	--
Formaldehyde	**8315A**	10 UJ	13 U	13 U	13 U	10 U	20 U
Hexachlorobenzene	**8270C**	0.65 U	--	0.63 U	0.63 U	0.63 U	4.8 U
Hexachlorobutadiene	**8270C**	3.2 U	--	3.1 U	3.1 U	3.1 U	4.8 U
Hexachlorocyclopentadiene	**8270C**	9.8 U	--	9.5 UJ	9.5 U	9.5 U	4.8 U
Hexachloroethane	**8270C**	2.1 U	--	2 U	2 U	2 U	4.8 U
Hexachlorophene	**8151A**	--	--	--	--	--	0.066 U
Hexachlorophene	**8321A**	0.49 U	--	0.49 U	0.049 U	0.49 U	--
Hexachloropropene	**8270C**	2 U	--	1.9 UJ	1.9 U	1.9 U	4.8 U
Indeno(1,2,3-cd)pyrene	**8270C**	0.64 UJ	--	0.62 U	0.62 U	0.62 UJ	4.8 U
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--	--
Isodrin	**8270C**	1.7 U	--	1.7 U	1.7 U	1.7 U	4.8 U
Isophorone	**8270C**	0.21 U	--	0.2 U	0.2 U	0.2 U	4.8 U
Isosafrole	**8270C**	0.98 U	--	0.95 U	0.95 U	0.95 U	4.8 U
Kepone	**8270C**	--	--	--	--	--	19 U
m-Cresol	**8270C**	0.24 U	--	0.24 U	0.24 U	0.24 U	--
Methapyrilene	**8270C**	20 U	--	19 U	19 U	19 U	19 U
Methyl methanesulfonate	**8270C**	0.98 U	--	0.95 U	0.95 U	0.95 U	4.8 U
Naphthalene	**8270C**	0.28 U	--	0.28 U	0.28 U	0.28 U	4.8 U
Naphthalene	**8270C SIM**	--	--	--	--	--	--
Nitrobenzene	**8270C**	0.79 U	0.77 U	0.77 U	0.77 U	0.77 U	4.8 U
n-Nitrosodiethylamine	**8270C**	1.7 U	--	1.7 U	1.6 U	1.6 U	4.8 U
n-Nitrosodimethylamine	**1625**	0.005 U	0.016	0.0089 J	0.005 U	39 J	--
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--	21.4 J
n-Nitrosodimethylamine	**8270C**	0.28 U	--	0.28 U	0.28 U	18	14 J
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	1.2 U	--	1.2 U	1.2 U	1.2 U	4.8 U
n-Nitrosodi-n-propylamine	**8270C**	0.34 U	--	0.33 U	0.33 U	0.33 U	4.8 U
n-Nitrosodiphenylamine	**8270C**	0.43 U	--	0.42 U	0.42 U	0.42 U	4.8 U
n-Nitrosomethylethylamine	**8270C**	1.7 U	--	1.7 U	1.7 U	1.7 U	4.8 U
n-Nitrosomorpholine	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
n-Nitrosopiperidine	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
n-Nitrosopyrrolidine	**8270C**	0.79 U	--	0.77 U	0.77 U	0.77 U	4.8 U
o,o,o-Triethylphosphorothioate	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
o-Cresol	**8270C**	0.96 U	--	0.93 U	0.93 U	0.93 U	4.8 U
o-Tolidine	**8270C**	3.9 U	--	3.8 UJ	3.8 U	3.8 U	9.6 U
o-Toluidine	**8270C**	1.4 U	--	1.3 U	1.3 U	1.3 U	4.8 U
p-Chloroaniline	**8270C**	2.1 U	--	2 U	2 U	2 U	4.8 U
p-Chloro-m-cresol	**8270C**	2.4 U	--	2.3 U	2.3 U	2.3 U	4.8 U
p-Cresol	**8270C**	0.24 U	--	0.24 U	0.24 U	0.24 U	4.8 U
p-Dimethylaminoazobenzene	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
Pentachlorobenzene	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
Pentachloroethane	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
Pentachloronitrobenzene	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
Pentachlorophenol	**8270C**	0.81 U	--	0.79 U	0.76 U	0.79 U	4.8 U
Phenacetin	**8270C**	1.1 U	--	1 U	1 U	1 U	4.8 U
Phenanthrene	**8270C**	0.25 U	--	0.25 U	0.25 U	0.25 U	4.8 U
Phenanthrene	**8270C SIM**	--	--	--	--	--	--
Phenol	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
p-Nitroaniline	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
p-Phenylenediamine	**8270C**	4.9 U	--	4.8 UJ	4.8 U	4.8 U	19 U
Pronamide	**8270C**	2 U	--	1.9 U	1.9 U	1.9 U	4.8 U
Pyrene	**8270C**	0.36 U	--	0.35 U	0.35 U	0.35 U	4.8 U
Pyrene	**8270C SIM**	--	--	--	--	--	--
Pyridine	**8270C**	1.7 U	--	1.6 U	1.6 U	1.6 U	19 U
Safrole	**8270C**	1.1 U	--	1.1 U	1.1 U	1.1 U	4.8 U
sym-Trinitrobenzene	**8270C**	3.9 U	--	3.8 U	3.8 U	3.8 U	9.6 U

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	HAR-16	HAR-25	HAR-26	HAR-26	RD-02	RD-03
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
	Sample Name:	HAR-16_072817_01	HAR-25_072817_01	HAR-26_020117_01	HAR-26_072617_01	RD-02_020117_01	RD-03_011817_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/28/2017	7/28/2017	2/1/2017	7/26/2017	2/1/2017	1/18/2017
Analyte (µg/L)	**Method**						
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	1.7 U	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	0.28 U	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	0.3 U	--	--	--
1,3-Dinitrobenzene	**8270C**	1.9 U	2 U	2 U	1.9 U	--	1.9 U
1,4-Naphthoquinone	**8270C**	--	--	14 U	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	2 U	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	0.45 U	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	0.29 U	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	0.64 U	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	0.58 U	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	9.9 U	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	1.6 U	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	1.3 U	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	1.9 U	--	--	--
2-Chloronaphthalene	**8270C**	--	--	0.26 U	--	--	--
2-Chlorophenol	**8270C**	--	--	2 U	--	--	--
2-Methylnaphthalene	**8270C**	--	--	0.29 U	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	1.7 U	--	--	--
2-Nitrophenol	**8270C**	--	--	0.39 U	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	2 U	--	--	--
3-Methylcholanthrene	**8270C**	--	--	1.7 U	--	--	--
3-Nitroaniline	**8270C**	--	--	2 U	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	4 U	--	--	--
4-Aminobiphenyl	**8270C**	--	--	4.5 U	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	0.43 U	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	1.6 U	--	--	--
4-Nitrophenol	**8270C**	--	--	1.2 U	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	20 U	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	1.4 U	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	1.6 U	--	--	--
Acenaphthene	**8270C**	--	--	0.28 U	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	0.49 U	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	6.9 U	--	--	--
Acetophenone	**8270C**	--	--	0.24 U	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	20 U	--	--	--
alpha-Naphthylamine	**8270C**	--	--	3.1 U	--	--	--
alpha-Picoline	**8270C**	--	--	1.2 U	--	--	--
Aniline	**8270C**	--	--	2 U	--	--	--
Anthracene	**8270C**	--	--	0.42 U	0.4 U	--	--
Anthracene	**8270C SIM**	--	--	--	--	--	--
Aramite	**8270C**	--	--	9.1 U	--	--	--
Benzo(a)anthracene	**8270C**	--	--	0.35 U	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	0.31 U	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	0	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	0.53 U	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	0.5 U	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	0.46 U	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	0.23 U	--	--	--
beta-Naphthylamine	**8270C**	--	--	3.1 U	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	0.96 U	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	0.41 U	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	0.28 U	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.54 U	0.56 U	0.56 U	0.53 U	--	0.53 U
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	0.97 U	0.99 U	0.99 U	0.95 U	--	0.94 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--	--
Chrysene	**8270C**	--	--	0.54 U	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	0.51 U	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	HAR-16	HAR-25	HAR-26	HAR-26	RD-02	RD-03
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
	Sample Name:	HAR-16_072817_01	HAR-25_072817_01	HAR-26_020117_01	HAR-26_072617_01	RD-02_020117_01	RD-03_011817_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/28/2017	7/28/2017	2/1/2017	7/26/2017	2/1/2017	1/18/2017
Analyte (µg/L)	**Method**						
Dibenzofuran	**8270C**	--	--	0.29 U	--	--	--
Diethyl phthalate	**8270C**	0.37 U	0.38 U	0.38 U	0.36 U	--	0.64 J
Diethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.2 U	0.21 U	0.21 U	0.2 U	--	0.2 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	1.2 U	1.2 U	1.1 U	--	1.1 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.34 U	0.35 U	0.35 U	0.33 U	--	0.33 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--	--
Diphenylamine	**8270C**	--	--	1.1 U	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	0.94 U	--	--	--
Fluoranthene	**8270C**	--	--	0.2 U	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--	--
Fluorene	**8270C**	--	--	0.31 U	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--	--
Formaldehyde	**8315A**	14 J	21 J	10 U	50 U	50 UJ	10 U
Hexachlorobenzene	**8270C**	--	--	0.66 U	--	--	--
Hexachlorobutadiene	**8270C**	--	--	3.3 U	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	9.9 R	--	--	--
Hexachloroethane	**8270C**	--	--	2.1 U	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	0.49 UJ	--	--	--
Hexachloropropene	**8270C**	--	--	2 U	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	0.65 U	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--	--
Isodrin	**8270C**	--	--	1.8 U	--	--	--
Isophorone	**8270C**	--	--	0.21 U	--	--	--
Isosafrole	**8270C**	--	--	0.99 U	--	--	--
Kepone	**8270C**	--	--	--	--	--	--
m-Cresol	**8270C**	--	--	0.25 U	--	--	--
Methapyrilene	**8270C**	--	--	20 U	--	--	--
Methyl methanesulfonate	**8270C**	--	--	0.99 U	--	--	--
Naphthalene	**8270C**	--	--	0.29 U	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--	--
Nitrobenzene	**8270C**	0.78 U	0.8 U	0.8 U	0.77 U	--	0.76 U
n-Nitrosodiethylamine	**8270C**	--	--	1.7 U	--	--	--
n-Nitrosodimethylamine	**1625**	11	0.005 U	0.005 U	0.005 U	0.0059	0.005 U
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	0.29 U	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	1.2 U	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	0.35 U	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	0.44 U	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	1.7 U	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	2 U	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	2 U	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	0.8 U	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	2 U	--	--	--
o-Cresol	**8270C**	--	--	0.97 U	--	--	--
o-Tolidine	**8270C**	--	--	4 U	--	--	--
o-Toluidine	**8270C**	--	--	1.4 U	--	--	--
p-Chloroaniline	**8270C**	--	--	2.1 U	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	2.4 U	--	--	--
p-Cresol	**8270C**	--	--	0.25 U	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	2 U	--	--	--
Pentachlorobenzene	**8270C**	--	--	2 U	--	--	--
Pentachloroethane	**8270C**	--	--	2 U	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	2 U	--	--	--
Pentachlorophenol	**8270C**	--	--	0.76 U	--	--	--
Phenacetin	**8270C**	--	--	1.1 U	--	--	--
Phenanthrene	**8270C**	--	--	0.26 U	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--	--
Phenol	**8270C**	--	--	2 U	--	--	--
p-Nitroaniline	**8270C**	--	--	2 U	--	--	--
p-Phenylenediamine	**8270C**	--	--	5 U	--	--	--
Pronamide	**8270C**	--	--	2 U	--	--	--
Pyrene	**8270C**	--	--	0.37 U	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--	--
Pyridine	**8270C**	--	--	1.7 U	--	--	--
Safrole	**8270C**	--	--	1.1 U	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	4 U	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-03	RD-03	RD-03	RD-06	RD-06	RD-06
	Sample Type:	Field Duplicate	Primary	Field Duplicate	Primary	Primary	Primary
	Sample Name:	RD-03_011817_36	RD-03_072417_01	RD-03_072417_36	RD-06_011717_01	RD-06_071817_01	RD-06_080117_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/18/2017	7/24/2017	7/24/2017	1/17/2017	7/18/2017	8/1/2017
Analyte (µg/L)	**Method**						
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	--
1,4-Naphthoquinone	**8270C**	--	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--	--
Anthracene	**8270C**	--	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.53 U	0.54 U	0.53 U	0.53 U	0.53 U	--
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	0.94 U	0.96 U	0.95 U	0.94 U	0.95 U	--
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-03	RD-03	RD-03	RD-06	RD-06	RD-06
	Sample Type:	Field Duplicate	Primary	Field Duplicate	Primary	Primary	Primary
	Sample Name:	RD-03_011817_36	RD-03_072417_01	RD-03_072417_36	RD-06_011717_01	RD-06_071817_01	RD-06_080117_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/18/2017	7/24/2017	7/24/2017	1/17/2017	7/18/2017	8/1/2017
Analyte (µg/L)	**Method**						
Dibenzofuran	**8270C**	--	--	--	--	--	--
Diethyl phthalate	**8270C**	0.36 U	0.37 U	0.36 U	0.36 U	0.36 U	--
Diethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	--
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	--
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.33 U	0.34 U	0.33 U	0.33 U	0.33 U	--
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--	--
Formaldehyde	**8315A**	50 U	50 U	50 U	50 U	--	21 J
Hexachlorobenzene	**8270C**	--	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--	--
Nitrobenzene	**8270C**	0.76 U	0.78 U	0.77 U	0.76 U	0.77 U	--
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	--
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-08	RD-08	RD-08	RD-11	RD-11	RD-12
	Sample Type:	Primary	Primary	Field Duplicate	Primary	Primary	Primary
	Sample Name:	RD-08_012617_01	RD-08_072617_01	RD-08_072617_36	RD-11_012617_01	RD-11_072417_01	RD-12_012717_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/26/2017	7/26/2017	7/26/2017	1/26/2017	7/24/2017	1/27/2017
Analyte (µg/L)	**Method**						
1,2,4,5-Tetrachlorobenzene	**8270C**	1.7 U	--	--	1.7 U	--	1.7 U
1,2,4-Trichlorobenzene	**8270C**	0.28 UJ	--	--	0.28 UJ	--	0.27 U
1,3-Dichlorobenzene	**8270C**	0.3 U	--	--	0.3 U	--	0.29 U
1,3-Dinitrobenzene	**8270C**	2 U	2 U	1.9 U	2 U	2 U	1.9 U
1,4-Naphthoquinone	**8270C**	14 U	--	--	14 U	--	13 U
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	2 U	--	--	2 U	--	1.9 U
2,4,5-Trichlorophenol	**8270C**	0.45 U	--	--	0.45 U	--	0.44 U
2,4,6-Trichlorophenol	**8270C**	0.29 U	--	--	0.29 U	--	0.28 U
2,4-Dichlorophenol	**8270C**	0.65 U	--	--	0.64 U	--	0.62 U
2,4-Dimethylphenol	**8270C**	0.59 U	--	--	0.58 U	--	0.56 U
2,4-Dinitrophenol	**8270C**	10 U	--	--	10 U	--	9.7 U
2,4-Dinitrotoluene	**8270C**	1.7 U	--	--	1.7 U	--	1.6 U
2,6-Dichlorophenol	**8270C**	1.4 U	--	--	1.4 U	--	1.3 U
2,6-Dinitrotoluene	**8270C**	1.9 U	--	--	1.9 U	--	1.8 U
2-Chloronaphthalene	**8270C**	0.26 UJ	--	--	0.26 UJ	--	0.25 U
2-Chlorophenol	**8270C**	2 U	--	--	2 U	--	1.9 U
2-Methylnaphthalene	**8270C**	0.29 UJ	--	--	0.29 UJ	--	0.28 U
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--	--
2-Nitroaniline	**8270C**	1.7 U	--	--	1.7 U	--	1.7 U
2-Nitrophenol	**8270C**	0.39 U	--	--	0.39 U	--	0.38 U
3,3'-Dichlorobenzidine	**8270C**	2 U	--	--	2 U	--	1.9 U
3-Methylcholanthrene	**8270C**	1.7 U	--	--	1.7 U	--	1.6 U
3-Nitroaniline	**8270C**	2 U	--	--	2 U	--	1.9 U
4,6-Dinitro-o-cresol	**8270C**	4 U	--	--	4 U	--	3.9 U
4-Aminobiphenyl	**8270C**	4.5 U	--	--	4.5 U	--	4.4 U
4-Bromophenyl phenyl ether	**8270C**	0.43 U	--	--	0.43 U	--	0.42 U
4-Chlorophenylphenyl ether	**8270C**	1.7 U	--	--	1.7 U	--	1.6 U
4-Nitrophenol	**8270C**	1.2 U	--	--	1.2 U	--	1.2 U
4-Nitroquinoline-1-oxide	**8270C**	20 U	--	--	20 U	--	19 U
5-Nitro-o-toluidine	**8270C**	1.4 U	--	--	1.4 U	--	1.4 U
7,12-Dimethylbenz(a)anthracene	**8270C**	1.6 U	--	--	1.6 U	--	1.5 U
Acenaphthene	**8270C**	0.28 U	--	--	0.28 U	--	0.27 U
Acenaphthene	**8270C SIM**	--	--	--	--	--	--
Acenaphthylene	**8270C**	0.49 U	--	--	0.49 U	--	0.47 U
Acenaphthylene	**8270C SIM**	--	--	--	--	--	--
Acetamidofluorene	**8270C**	7.1 U	--	--	7 U	--	6.8 U
Acetophenone	**8270C**	0.24 U	--	--	0.24 U	--	0.23 U
alpha, alpha-Dimethylphenethylamine	**8270C**	20 U	--	--	20 U	--	19 U
alpha-Naphthylamine	**8270C**	3.1 U	--	--	3.1 U	--	3 U
alpha-Picoline	**8270C**	1.2 U	--	--	1.2 U	--	1.2 U
Aniline	**8270C**	2 U	--	--	2 U	--	1.9 U
Anthracene	**8270C**	0.42 U	0.41 U	0.41 U	0.42 U	0.42 U	0.41 U
Anthracene	**8270C SIM**	--	--	--	--	--	--
Aramite	**8270C**	9.3 U	--	--	9.2 U	--	8.9 U
Benzo(a)anthracene	**8270C**	0.35 U	--	--	0.35 U	--	0.34 U
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C**	0.31 U	--	--	0.31 U	--	0.3 U
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	0	--	--	0	--	0
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	0.54 U	--	--	0.53 U	--	0.51 U
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	0.5 U	--	--	0.5 U	--	0.48 U
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	0.46 U	--	--	0.46 U	--	0.45 U
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzyl alcohol	**8270C**	0.23 U	--	--	0.23 U	--	0.22 U
beta-Naphthylamine	**8270C**	3.1 U	--	--	3.1 U	--	3 U
bis(2-Chloroethoxy)methane	**8270C**	0.98 U	--	--	0.97 U	--	0.94 U
bis(2-Chloroethyl) ether	**8270C**	0.41 U	--	--	0.41 U	--	0.4 U
bis(2-Chloroisopropyl) ether	**8270C**	0.28 U	--	--	0.28 U	--	0.27 U
bis(2-Ethylhexyl) phthalate	**8270C**	0.57 U	0.55 U	0.54 U	0.56 U	0.56 U	0.54 U
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	1 U	0.98 U	0.97 U	1 U	0.99 U	0.97 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--	--
Chrysene	**8270C**	0.54 U	--	--	0.54 U	--	0.52 U
Chrysene	**8270C SIM**	--	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	0.51 U	--	--	0.51 U	--	0.49 U
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-08	RD-08	RD-08	RD-11	RD-11	RD-12
	Sample Type:	Primary	Primary	Field Duplicate	Primary	Primary	Primary
	Sample Name:	RD-08_012617_01	RD-08_072617_01	RD-08_072617_36	RD-11_012617_01	RD-11_072417_01	RD-12_012717_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/26/2017	7/26/2017	7/26/2017	1/26/2017	7/24/2017	1/27/2017
Analyte (µg/L)	**Method**						
Dibenzofuran	**8270C**	0.29 U	--	--	0.29 U	--	0.28 U
Diethyl phthalate	**8270C**	0.38 U	0.37 U	0.37 U	0.38 U	0.38 U	0.37 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.21 U	0.21 U	0.2 U	0.21 U	0.21 U	0.2 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.2 U	1.1 U	1.1 U	1.2 U	1.2 U	1.1 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.35 U	0.34 U	0.34 U	0.35 U	0.35 U	0.34 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--	--
Diphenylamine	**8270C**	1.1 U	--	--	1.1 U	--	1 U
Ethyl methanesulfonate	**8270C**	0.95 U	--	--	0.94 U	--	0.91 U
Fluoranthene	**8270C**	0.2 U	--	--	0.2 U	--	0.19 U
Fluoranthene	**8270C SIM**	--	--	--	--	--	--
Fluorene	**8270C**	0.31 U	--	--	0.31 U	--	0.3 U
Fluorene	**8270C SIM**	--	--	--	--	--	--
Formaldehyde	**8315A**	10 U	50 U	50 U	11 J	50 U	10 U
Hexachlorobenzene	**8270C**	0.67 U	--	--	0.66 U	--	0.64 U
Hexachlorobutadiene	**8270C**	3.3 U	--	--	3.3 U	--	3.2 U
Hexachlorocyclopentadiene	**8270C**	10 R	--	--	10 R	--	9.7 U
Hexachloroethane	**8270C**	2.1 U	--	--	2.1 U	--	2 U
Hexachlorophene	**8151A**	--	--	--	--	--	--
Hexachlorophene	**8321A**	0.49 U	--	--	0.49 U	--	0.49 UJ
Hexachloropropene	**8270C**	2 U	--	--	2 U	--	1.9 U
Indeno(1,2,3-cd)pyrene	**8270C**	0.66 U	--	--	0.65 U	--	0.63 UJ
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--	--
Isodrin	**8270C**	1.8 U	--	--	1.8 U	--	1.7 U
Isophorone	**8270C**	0.21 U	--	--	0.21 U	--	0.2 U
Isosafrole	**8270C**	1 U	--	--	1 U	--	0.97 U
Kepone	**8270C**	--	--	--	--	--	--
m-Cresol	**8270C**	0.25 U	--	--	0.25 U	--	0.24 U
Methapyrilene	**8270C**	20 U	--	--	20 U	--	19 U
Methyl methanesulfonate	**8270C**	1 U	--	--	1 U	--	0.97 U
Naphthalene	**8270C**	0.29 UJ	--	--	0.29 UJ	--	0.28 U
Naphthalene	**8270C SIM**	--	--	--	--	--	--
Nitrobenzene	**8270C**	0.82 U	0.8 U	0.79 U	0.81 U	0.8 U	0.78 U
n-Nitrosodiethylamine	**8270C**	1.7 U	--	--	1.7 U	--	1.7 U
n-Nitrosodimethylamine	**1625**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	0.29 U	--	--	0.29 U	--	0.28 U
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	1.2 U	--	--	1.2 U	--	1.2 U
n-Nitrosodi-n-propylamine	**8270C**	0.35 U	--	--	0.35 U	--	0.34 U
n-Nitrosodiphenylamine	**8270C**	0.44 U	--	--	0.44 U	--	0.43 U
n-Nitrosomethylethylamine	**8270C**	1.8 U	--	--	1.8 U	--	1.7 U
n-Nitrosomorpholine	**8270C**	2 U	--	--	2 U	--	1.9 U
n-Nitrosopiperidine	**8270C**	2 U	--	--	2 U	--	1.9 U
n-Nitrosopyrrolidine	**8270C**	0.81 U	--	--	0.8 U	--	0.78 U
o,o,o-Triethylphosphorothioate	**8270C**	2 U	--	--	2 U	--	1.9 U
o-Cresol	**8270C**	0.99 U	--	--	0.98 U	--	0.95 U
o-Tolidine	**8270C**	4 U	--	--	4 U	--	3.9 U
o-Toluidine	**8270C**	1.4 U	--	--	1.4 U	--	1.4 U
p-Chloroaniline	**8270C**	2.2 U	--	--	2.1 U	--	2.1 U
p-Chloro-m-cresol	**8270C**	2.4 U	--	--	2.4 U	--	2.3 U
p-Cresol	**8270C**	0.25 U	--	--	0.25 U	--	0.24 U
p-Dimethylaminoazobenzene	**8270C**	2 U	--	--	2 U	--	1.9 U
Pentachlorobenzene	**8270C**	2 U	--	--	2 U	--	1.9 U
Pentachloroethane	**8270C**	2 U	--	--	2 U	--	1.9 U
Pentachloronitrobenzene	**8270C**	2 U	--	--	2 U	--	1.9 U
Pentachlorophenol	**8270C**	0.8 U	--	--	0.86 U	--	0.78 U
Phenacetin	**8270C**	1.1 U	--	--	1.1 U	--	1 U
Phenanthrene	**8270C**	0.26 U	--	--	0.26 U	--	0.25 U
Phenanthrene	**8270C SIM**	--	--	--	--	--	--
Phenol	**8270C**	2 U	--	--	2 U	--	1.9 U
p-Nitroaniline	**8270C**	2 U	--	--	2 U	--	1.9 U
p-Phenylenediamine	**8270C**	5 U	--	--	5 U	--	4.8 U
Pronamide	**8270C**	2 U	--	--	2 U	--	1.9 U
Pyrene	**8270C**	0.37 U	--	--	0.37 U	--	0.36 U
Pyrene	**8270C SIM**	--	--	--	--	--	--
Pyridine	**8270C**	1.7 U	--	--	1.7 U	--	1.6 U
Safrole	**8270C**	1.1 U	--	--	1.1 U	--	1.1 U
sym-Trinitrobenzene	**8270C**	4 U	--	--	4 U	--	3.9 U

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-12	RD-32	RD-35B	RD-36C	RD-36C	RD-36D
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-12_072717_01	RD-32_020117_01	RD-35B_072117_01	RD-36C_012417_01	RD-36C_073117_01	RD-36D_012417_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/27/2017	2/1/2017	7/21/2017	1/24/2017	7/31/2017	1/24/2017
Analyte (µg/L)	**Method**						
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	1.9 U	--	--	2 U	2 U	1.9 U
1,4-Naphthoquinone	**8270C**	--	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	0.0054 U	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	0.0049 U	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	0.01 U	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	0.0095 U	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--	--
Anthracene	**8270C**	0.4 U	--	--	--	0.42 U	--
Anthracene	**8270C SIM**	--	--	0.014 U	--	--	--
Aramite	**8270C**	--	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	0.0031 U	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	0.0049 U	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	0	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	0.0033 U	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	0.0034 U	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	0.0048 U	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.53 U	--	--	0.55 U	3 J	0.53 U
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	0.12 UJ	--	--	--
Butyl benzyl phthalate	**8270C**	0.95 U	--	--	0.99 U	1 U	0.95 U
Butyl benzyl phthalate	**8270C SIM**	--	--	0.013 UJ	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	0.003 U	--	--	--
Diallate	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	0.0046 U	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-12	RD-32	RD-35B	RD-36C	RD-36C	RD-36D
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-12_072717_01	RD-32_020117_01	RD-35B_072117_01	RD-36C_012417_01	RD-36C_073117_01	RD-36D_012417_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/27/2017	2/1/2017	7/21/2017	1/24/2017	7/31/2017	1/24/2017
Analyte (µg/L)	**Method**						
Dibenzofuran	**8270C**	--	--	--	--	--	--
Diethyl phthalate	**8270C**	0.36 U	--	--	0.38 U	0.38 U	0.36 U
Diethyl phthalate	**8270C SIM**	--	--	0.055 J	--	--	--
Dimethyl phthalate	**8270C**	0.2 U	--	--	0.21 U	0.21 U	0.2 U
Dimethyl phthalate	**8270C SIM**	--	--	0.017 U	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	--	--	1.1 U	1.2 U	1.1 U
Di-n-butyl phthalate	**8270C SIM**	--	--	9.5 U	--	--	--
Di-n-octyl phthalate	**8270C**	0.33 U	--	--	0.35 U	0.35 U	0.33 U
Di-n-octyl phthalate	**8270C SIM**	--	--	0.0084 UJ	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	0.0043 U	--	--	--
Fluorene	**8270C**	--	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	0.018 U	--	--	--
Formaldehyde	**8315A**	13 UJ	--	--	10 U	39 J	10 U
Hexachlorobenzene	**8270C**	--	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	0.014 U	--	--	--
Isodrin	**8270C**	--	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	0.13 J	--	--	--
Nitrobenzene	**8270C**	0.77 U	--	--	0.8 U	0.81 U	0.77 U
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	0.005 U	--	0.005 U	0.005 U	0.005 U
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	0.12 U	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	0.0093 U	--	--	--
Phenol	**8270C**	--	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	0.0077 U	--	--	--
Pyridine	**8270C**	--	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-36D	RD-37	RD-37	RD-38B	RD-38B	RD-39B
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-36D_073117_01	RD-37_020117_01	RD-37_072617_01	RD-38B_020117_01	RD-38B_072717_01	RD-39B_011917_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/31/2017	2/1/2017	7/26/2017	2/1/2017	7/27/2017	1/19/2017
Analyte (µg/L)	**Method**						
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	2 U	2 U	1.9 U	1.9 U	1.9 U	2.1 U
1,4-Naphthoquinone	**8270C**	--	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--	--
Anthracene	**8270C**	0.41 U	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.55 U	0.57 U	0.53 U	1.1 J	0.54 J	0.58 U
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	0.99 U	1 U	0.95 U	0.96 U	0.95 U	1 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-36D	RD-37	RD-37	RD-38B	RD-38B	RD-39B
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-36D_073117_01	RD-37_020117_01	RD-37_072617_01	RD-38B_020117_01	RD-38B_072717_01	RD-39B_011917_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/31/2017	2/1/2017	7/26/2017	2/1/2017	7/27/2017	1/19/2017
Analyte (µg/L)	**Method**						
Dibenzofuran	**8270C**	--	--	--	--	--	--
Diethyl phthalate	**8270C**	0.37 U	0.39 U	0.36 U	0.37 U	0.36 U	0.39 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.21 U	0.21 U	0.2 U	0.2 U	0.2 U	0.22 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	1.2 U	1.1 U	1.1 U	1.1 U	1.2 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.35 U	0.36 U	0.33 U	0.34 U	0.33 U	0.36 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--	--
Formaldehyde	**8315A**	13 U	10 J	70 U	10 U	13 UJ	13 J
Hexachlorobenzene	**8270C**	--	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--	--
Nitrobenzene	**8270C**	0.8 U	0.82 U	0.77 U	0.78 U	0.77 U	0.84 U
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	0.76 U	--	--	--
Phenacetin	**8270C**	--	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-39B	RD-43A	RD-43A	RD-43A	RD-43B
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-39B_072817_01	RD-43A_012617_01	RD-43A_071917_01	RD-43A_080317_01	RD-43B_012617_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/28/2017	1/26/2017	7/19/2017	8/3/2017	1/26/2017
Analyte (µg/L)	**Method**					
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	1.9 U	2.1 U	1.9 U	--	1.9 U
1,4-Naphthoquinone	**8270C**	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--
Anthracene	**8270C**	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.53 U	0.58 U	0.53 U	--	1.2 J
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	0.95 U	1 U	0.95 U	--	0.95 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-39B	RD-43A	RD-43A	RD-43A	RD-43B
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-39B_072817_01	RD-43A_012617_01	RD-43A_071917_01	RD-43A_080317_01	RD-43B_012617_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/28/2017	1/26/2017	7/19/2017	8/3/2017	1/26/2017
Analyte (µg/L)	**Method**					
Dibenzofuran	**8270C**	--	--	--	--	--
Diethyl phthalate	**8270C**	0.42 J	0.39 U	0.36 U	--	0.36 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.2 U	0.22 U	0.2 U	--	0.2 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	1.2 U	1.1 U	--	1.1 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.33 U	0.36 U	0.33 U	--	0.33 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--
Formaldehyde	**8315A**	32 J	11 J	--	13 U	14 J
Hexachlorobenzene	**8270C**	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--
Nitrobenzene	**8270C**	0.77 U	0.84 U	0.77 U	--	0.77 U
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	0.005 U	0.005 U	--	0.005 U
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-43B	RD-43B	RD-43B	RD-43B	RD-43B
	Sample Type:	Field Duplicate	Primary	Field Duplicate	Primary	Field Duplicate
	Sample Name:	RD-43B_012617_36	RD-43B_071917_01	RD-43B_071917_36	RD-43B_080117_01	RD-43B_080117_36
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/26/2017	7/19/2017	7/19/2017	8/1/2017	8/1/2017
Analyte (µg/L)	**Method**					
1,2,4,5-Tetrachlorobenzene	8270C	--	--	--	--	--
1,2,4-Trichlorobenzene	8270C	--	--	--	--	--
1,3-Dichlorobenzene	8270C	--	--	--	--	--
1,3-Dinitrobenzene	8270C	1.9 U	1.9 U	1.9 U	--	--
1,4-Naphthoquinone	8270C	--	--	--	--	--
1-Methyl naphthalene	8270C SIM	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	8270C	--	--	--	--	--
2,4,5-Trichlorophenol	8270C	--	--	--	--	--
2,4,6-Trichlorophenol	8270C	--	--	--	--	--
2,4-Dichlorophenol	8270C	--	--	--	--	--
2,4-Dimethylphenol	8270C	--	--	--	--	--
2,4-Dinitrophenol	8270C	--	--	--	--	--
2,4-Dinitrotoluene	8270C	--	--	--	--	--
2,6-Dichlorophenol	8270C	--	--	--	--	--
2,6-Dinitrotoluene	8270C	--	--	--	--	--
2-Chloronaphthalene	8270C	--	--	--	--	--
2-Chlorophenol	8270C	--	--	--	--	--
2-Methylnaphthalene	8270C	--	--	--	--	--
2-Methylnaphthalene	8270C SIM	--	--	--	--	--
2-Nitroaniline	8270C	--	--	--	--	--
2-Nitrophenol	8270C	--	--	--	--	--
3,3'-Dichlorobenzidine	8270C	--	--	--	--	--
3-Methylcholanthrene	8270C	--	--	--	--	--
3-Nitroaniline	8270C	--	--	--	--	--
4,6-Dinitro-o-cresol	8270C	--	--	--	--	--
4-Aminobiphenyl	8270C	--	--	--	--	--
4-Bromophenyl phenyl ether	8270C	--	--	--	--	--
4-Chlorophenylphenyl ether	8270C	--	--	--	--	--
4-Nitrophenol	8270C	--	--	--	--	--
4-Nitroquinoline-1-oxide	8270C	--	--	--	--	--
5-Nitro-o-toluidine	8270C	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	8270C	--	--	--	--	--
Acenaphthene	8270C	--	--	--	--	--
Acenaphthene	8270C SIM	--	--	--	--	--
Acenaphthylene	8270C	--	--	--	--	--
Acenaphthylene	8270C SIM	--	--	--	--	--
Acetamidofluorene	8270C	--	--	--	--	--
Acetophenone	8270C	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	8270C	--	--	--	--	--
alpha-Naphthylamine	8270C	--	--	--	--	--
alpha-Picoline	8270C	--	--	--	--	--
Aniline	8270C	--	--	--	--	--
Anthracene	8270C	--	--	--	--	--
Anthracene	8270C SIM	--	--	--	--	--
Aramite	8270C	--	--	--	--	--
Benzo(a)anthracene	8270C	--	--	--	--	--
Benzo(a)anthracene	8270C SIM	--	--	--	--	--
Benzo(a)pyrene	8270C	--	--	--	--	--
Benzo(a)pyrene	8270C SIM	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	8270C	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	8270C SIM	--	--	--	--	--
Benzo(b)fluoranthene	8270C	--	--	--	--	--
Benzo(b)fluoranthene	8270C SIM	--	--	--	--	--
Benzo(ghi)perylene	8270C	--	--	--	--	--
Benzo(ghi)perylene	8270C SIM	--	--	--	--	--
Benzo(k)fluoranthene	8270C	--	--	--	--	--
Benzo(k)fluoranthene	8270C SIM	--	--	--	--	--
Benzyl alcohol	8270C	--	--	--	--	--
beta-Naphthylamine	8270C	--	--	--	--	--
bis(2-Chloroethoxy)methane	8270C	--	--	--	--	--
bis(2-Chloroethyl) ether	8270C	--	--	--	--	--
bis(2-Chloroisopropyl) ether	8270C	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	8270C	0.53 U	0.54 U	0.53 U	--	--
bis(2-Ethylhexyl) phthalate	8270C SIM	--	--	--	--	--
Butyl benzyl phthalate	8270C	0.95 U	0.96 U	0.95 U	--	--
Butyl benzyl phthalate	8270C SIM	--	--	--	--	--
Chlorobenzilate	8270C	--	--	--	--	--
Chrysene	8270C	--	--	--	--	--
Chrysene	8270C SIM	--	--	--	--	--
Diallate	8270C	--	--	--	--	--
Dibenzo(a,h)anthracene	8270C	--	--	--	--	--
Dibenzo(a,h)anthracene	8270C SIM	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-43B	RD-43B	RD-43B	RD-43B	RD-43B
	Sample Type:	Field Duplicate	Primary	Field Duplicate	Primary	Field Duplicate
	Sample Name:	RD-43B_012617_36	RD-43B_071917_01	RD-43B_071917_36	RD-43B_080117_01	RD-43B_080117_36
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/26/2017	7/19/2017	7/19/2017	8/1/2017	8/1/2017
Analyte (µg/L)	**Method**					
Dibenzofuran	**8270C**	--	--	--	--	--
Diethyl phthalate	**8270C**	0.36 U	0.36 U	0.36 U	--	--
Diethyl phthalate	**8270C SIM**	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.2 U	0.2 U	0.2 U	--	--
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	1.1 U	1.1 U	--	--
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.33 U	0.33 U	0.33 U	--	--
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--
Formaldehyde	**8315A**	14 J	--	--	13 U	13 U
Hexachlorobenzene	**8270C**	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--
Nitrobenzene	**8270C**	0.77 U	0.77 U	0.77 U	--	--
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	0.005 U	0.005 U	--	--
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-43C	RD-43C	RD-43C	RD-44	RD-45A	RD-45A
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-43C_012617_01	RD-43C_071917_01	RD-43C_080117_01	RD-44_011717_01	RD-45A_012617_01	RD-45A_071917_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/26/2017	7/19/2017	8/1/2017	1/17/2017	1/26/2017	7/19/2017
Analyte (µg/L)	**Method**						
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	1.9 U	1.9 U	--	--	1.9 U	1.9 U
1,4-Naphthoquinone	**8270C**	--	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--	--
Anthracene	**8270C**	--	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.53 U	0.53 U	--	--	0.53 U	0.54 U
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	0.95 U	0.95 U	--	--	0.95 U	0.97 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-43C	RD-43C	RD-43C	RD-44	RD-45A	RD-45A
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-43C_012617_01	RD-43C_071917_01	RD-43C_080117_01	RD-44_011717_01	RD-45A_012617_01	RD-45A_071917_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/26/2017	7/19/2017	8/1/2017	1/17/2017	1/26/2017	7/19/2017
Analyte (µg/L)	**Method**						
Dibenzofuran	**8270C**	--	--	--	--	--	--
Diethyl phthalate	**8270C**	0.36 U	0.36 U	--	--	0.36 U	0.37 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.2 U	0.2 U	--	--	0.2 U	0.2 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	1.1 U	--	--	1.1 U	1.1 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.33 U	0.33 U	--	--	0.33 U	0.34 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--	--
Formaldehyde	**8315A**	10 U	--	13 U	10 U	10 U	--
Hexachlorobenzene	**8270C**	--	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--	--
Nitrobenzene	**8270C**	0.77 U	0.77 U	--	--	0.77 U	0.79 U
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	0.005 U	--	0.005 U	0.71	0.14
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-45A	RD-45B	RD-45B	RD-45B	RD-45B	RD-45C
	Sample Type:	Primary	Primary	Field Duplicate	Primary	Primary	Primary
	Sample Name:	RD-45A_080217_01	RD-45B_012617_01	RD-45B_012617_36	RD-45B_071917_01	RD-45B_080117_01	RD-45C_012617_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	8/2/2017	1/26/2017	1/26/2017	7/19/2017	8/1/2017	1/26/2017
Analyte (µg/L)	**Method**						
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	--	1.9 U	1.9 U	1.9 U	--	1.9 U
1,4-Naphthoquinone	**8270C**	--	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--	--
Anthracene	**8270C**	--	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	--	1.2 J	1.6 J	9.5 U	--	1.8 J
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	--	0.96 U	0.95 U	0.95 U	--	0.95 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-45A	RD-45B	RD-45B	RD-45B	RD-45B	RD-45C
	Sample Type:	Primary	Primary	Field Duplicate	Primary	Primary	Primary
	Sample Name:	RD-45A_080217_01	RD-45B_012617_01	RD-45B_012617_36	RD-45B_071917_01	RD-45B_080117_01	RD-45C_012617_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	8/2/2017	1/26/2017	1/26/2017	7/19/2017	8/1/2017	1/26/2017
Analyte (µg/L)	**Method**						
Dibenzofuran	**8270C**	--	--	--	--	--	--
Diethyl phthalate	**8270C**	--	0.36 U	0.36 U	0.36 U	--	0.36 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Dimethyl phthalate	**8270C**	--	0.2 U	0.2 U	0.2 U	--	0.2 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	--	1.1 U	1.1 U	1.1 U	--	1.1 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	--	0.33 U	0.33 U	0.33 U	--	0.33 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--	--
Formaldehyde	**8315A**	13 U	17 J	19 J	--	13 U	13 J
Hexachlorobenzene	**8270C**	--	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--	--
Nitrobenzene	**8270C**	--	0.77 U	0.77 U	0.77 U	--	0.77 UJ
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	--	0.005 U	0.005 U	0.005 U	--	0.2
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-45C	RD-45C	RD-46A	RD-46B	RD-46B
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-45C_071917_01	RD-45C_080317_01	RD-46A_080417_01	RD-46B_011717_01	RD-46B_072817_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/19/2017	8/3/2017	8/4/2017	1/17/2017	7/28/2017
Analyte (µg/L)	**Method**					
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	1.9 U	--	1.9 U	2 U	1.9 U
1,4-Naphthoquinone	**8270C**	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--
Anthracene	**8270C**	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.53 U	--	0.53 U	0.56 U	0.53 U
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	0.95 U	--	0.95 U	0.99 U	0.95 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-45C	RD-45C	RD-46A	RD-46B	RD-46B
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-45C_071917_01	RD-45C_080317_01	RD-46A_080417_01	RD-46B_011717_01	RD-46B_072817_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/19/2017	8/3/2017	8/4/2017	1/17/2017	7/28/2017
Analyte (µg/L)	**Method**					
Dibenzofuran	**8270C**	--	--	--	--	--
Diethyl phthalate	**8270C**	0.36 U	--	0.36 U	0.38 U	0.36 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.2 U	--	0.2 U	0.21 U	0.2 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	--	1.1 U	1.2 U	1.1 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.33 U	--	0.33 U	0.35 U	0.33 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--
Formaldehyde	**8315A**	--	17 J	13 U	10 U	56
Hexachlorobenzene	**8270C**	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--
Nitrobenzene	**8270C**	0.77 U	--	0.77 U	0.81 U	0.77 U
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.11	--	0.005 U	0.005 U	0.005 U
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-48B	RD-48B	RD-48C	RD-48C	RD-51A
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-48B_012417_01	RD-48B_072517_01	RD-48C_012417_01	RD-48C_072517_01	RD-51A_011917_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/24/2017	7/25/2017	1/24/2017	7/25/2017	1/19/2017
Analyte (µg/L)	**Method**					
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	2 U	2 U	1.9 U	1.9 U	2 U
1,4-Naphthoquinone	**8270C**	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--
Anthracene	**8270C**	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.55 U	0.55 U	1.1 J	0.53 U	0.57 U
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	0.98 U	0.99 U	0.96 U	0.95 U	1 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-48B	RD-48B	RD-48C	RD-48C	RD-51A
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-48B_012417_01	RD-48B_072517_01	RD-48C_012417_01	RD-48C_072517_01	RD-51A_011917_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/24/2017	7/25/2017	1/24/2017	7/25/2017	1/19/2017
Analyte (µg/L)	**Method**					
Dibenzofuran	**8270C**	--	--	--	--	--
Diethyl phthalate	**8270C**	0.37 U	0.38 U	0.36 U	0.36 U	0.38 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.21 U	0.21 U	0.2 U	0.2 U	0.21 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	1.1 U	1.1 U	1.1 U	1.2 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.34 U	0.35 U	0.33 U	0.33 U	0.35 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--
Formaldehyde	**8315A**	50 U	50 U	50 U	110	10 U
Hexachlorobenzene	**8270C**	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--
Nitrobenzene	**8270C**	0.8 U	0.8 U	0.78 U	0.77 U	0.82 U
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-51A	RD-51A	RD-51B	RD-51B	RD-51B
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-51A_072017_01	RD-51A_080217_01	RD-51B_011917_01	RD-51B_072017_01	RD-51B_080217_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/20/2017	8/2/2017	1/19/2017	7/20/2017	8/2/2017
Analyte (µg/L)	**Method**					
1,2,4,5-Tetrachlorobenzene	8270C	--	--	--	--	--
1,2,4-Trichlorobenzene	8270C	--	--	--	--	--
1,3-Dichlorobenzene	8270C	--	--	--	--	--
1,3-Dinitrobenzene	8270C	1.9 U	--	1.9 U	1.9 U	--
1,4-Naphthoquinone	8270C	--	--	--	--	--
1-Methyl naphthalene	8270C SIM	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	8270C	--	--	--	--	--
2,4,5-Trichlorophenol	8270C	--	--	--	--	--
2,4,6-Trichlorophenol	8270C	--	--	--	--	--
2,4-Dichlorophenol	8270C	--	--	--	--	--
2,4-Dimethylphenol	8270C	--	--	--	--	--
2,4-Dinitrophenol	8270C	--	--	--	--	--
2,4-Dinitrotoluene	8270C	--	--	--	--	--
2,6-Dichlorophenol	8270C	--	--	--	--	--
2,6-Dinitrotoluene	8270C	--	--	--	--	--
2-Chloronaphthalene	8270C	--	--	--	--	--
2-Chlorophenol	8270C	--	--	--	--	--
2-Methylnaphthalene	8270C	--	--	--	--	--
2-Methylnaphthalene	8270C SIM	--	--	--	--	--
2-Nitroaniline	8270C	--	--	--	--	--
2-Nitrophenol	8270C	--	--	--	--	--
3,3'-Dichlorobenzidine	8270C	--	--	--	--	--
3-Methylcholanthrene	8270C	--	--	--	--	--
3-Nitroaniline	8270C	--	--	--	--	--
4,6-Dinitro-o-cresol	8270C	--	--	--	--	--
4-Aminobiphenyl	8270C	--	--	--	--	--
4-Bromophenyl phenyl ether	8270C	--	--	--	--	--
4-Chlorophenylphenyl ether	8270C	--	--	--	--	--
4-Nitrophenol	8270C	--	--	--	--	--
4-Nitroquinoline-1-oxide	8270C	--	--	--	--	--
5-Nitro-o-toluidine	8270C	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	8270C	--	--	--	--	--
Acenaphthene	8270C	--	--	--	--	--
Acenaphthene	8270C SIM	--	--	--	--	--
Acenaphthylene	8270C	--	--	--	--	--
Acenaphthylene	8270C SIM	--	--	--	--	--
Acetamidofluorene	8270C	--	--	--	--	--
Acetophenone	8270C	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	8270C	--	--	--	--	--
alpha-Naphthylamine	8270C	--	--	--	--	--
alpha-Picoline	8270C	--	--	--	--	--
Aniline	8270C	--	--	--	--	--
Anthracene	8270C	--	--	--	--	--
Anthracene	8270C SIM	--	--	--	--	--
Aramite	8270C	--	--	--	--	--
Benzo(a)anthracene	8270C	--	--	--	--	--
Benzo(a)anthracene	8270C SIM	--	--	--	--	--
Benzo(a)pyrene	8270C	--	--	--	--	--
Benzo(a)pyrene	8270C SIM	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	8270C	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	8270C SIM	--	--	--	--	--
Benzo(b)fluoranthene	8270C	--	--	--	--	--
Benzo(b)fluoranthene	8270C SIM	--	--	--	--	--
Benzo(ghi)perylene	8270C	--	--	--	--	--
Benzo(ghi)perylene	8270C SIM	--	--	--	--	--
Benzo(k)fluoranthene	8270C	--	--	--	--	--
Benzo(k)fluoranthene	8270C SIM	--	--	--	--	--
Benzyl alcohol	8270C	--	--	--	--	--
beta-Naphthylamine	8270C	--	--	--	--	--
bis(2-Chloroethoxy)methane	8270C	--	--	--	--	--
bis(2-Chloroethyl) ether	8270C	--	--	--	--	--
bis(2-Chloroisopropyl) ether	8270C	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	8270C	0.53 U	--	0.53 U	0.53 U	--
bis(2-Ethylhexyl) phthalate	8270C SIM	--	--	--	--	--
Butyl benzyl phthalate	8270C	0.95 U	--	0.96 U	0.95 U	--
Butyl benzyl phthalate	8270C SIM	--	--	--	--	--
Chlorobenzilate	8270C	--	--	--	--	--
Chrysene	8270C	--	--	--	--	--
Chrysene	8270C SIM	--	--	--	--	--
Diallate	8270C	--	--	--	--	--
Dibenzo(a,h)anthracene	8270C	--	--	--	--	--
Dibenzo(a,h)anthracene	8270C SIM	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-51A	RD-51A	RD-51B	RD-51B	RD-51B
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-51A_072017_01	RD-51A_080217_01	RD-51B_011917_01	RD-51B_072017_01	RD-51B_080217_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/20/2017	8/2/2017	1/19/2017	7/20/2017	8/2/2017
Analyte (µg/L)	**Method**					
Dibenzofuran	**8270C**	--	--	--	--	--
Diethyl phthalate	**8270C**	0.36 U	--	0.36 U	0.36 U	--
Diethyl phthalate	**8270C SIM**	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.2 U	--	0.2 U	0.2 U	--
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	--	1.1 U	1.1 U	--
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.33 U	--	0.33 U	0.33 U	--
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--
Formaldehyde	**8315A**	--	13 U	11 J	--	18 J
Hexachlorobenzene	**8270C**	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--
Nitrobenzene	**8270C**	0.77 U	--	0.77 U	0.77 U	--
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	--	0.005 U	0.005 U	--
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-51C	RD-51C	RD-51C	RD-51C	RD-52A
	Sample Type:	Primary	Field Duplicate	Primary	Primary	Primary
	Sample Name:	RD-51C_011917_01	RD-51C_011917_36	RD-51C_072017_01	RD-51C_080217_01	RD-52A_012417_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/19/2017	1/19/2017	7/20/2017	8/2/2017	1/24/2017
Analyte (µg/L)	**Method**					
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	1.9 U	1.9 U	1.9 U	--	2 U
1,4-Naphthoquinone	**8270C**	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--
Anthracene	**8270C**	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	1.4 J	1.1 J	6.7 J	--	0.57 U
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	0.96 U	0.95 U	0.95 U	--	1 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-51C	RD-51C	RD-51C	RD-51C	RD-52A
	Sample Type:	Primary	Field Duplicate	Primary	Primary	Primary
	Sample Name:	RD-51C_011917_01	RD-51C_011917_36	RD-51C_072017_01	RD-51C_080217_01	RD-52A_012417_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/19/2017	1/19/2017	7/20/2017	8/2/2017	1/24/2017
Analyte (µg/L)	**Method**					
Dibenzofuran	**8270C**	--	--	--	--	--
Diethyl phthalate	**8270C**	0.36 U	0.36 U	0.36 U	--	0.38 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.2 U	0.2 U	0.2 U	--	0.21 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	1.1 U	1.1 U	--	1.2 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.33 U	0.33 U	0.33 U	--	0.35 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--
Formaldehyde	**8315A**	16 J	18 J	--	13 U	10 U
Hexachlorobenzene	**8270C**	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--
Nitrobenzene	**8270C**	0.77 U	0.77 U	0.77 U	--	0.82 U
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	0.005 U	0.005 U	--	0.005 U
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-52A	RD-52A	RD-52B	RD-52B	RD-52B
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-52A_072017_01	RD-52A_080217_01	RD-52B_012417_01	RD-52B_072017_01	RD-52B_080317_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/20/2017	8/2/2017	1/24/2017	7/20/2017	8/3/2017
Analyte (µg/L)	**Method**					
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	2 U	--	2 U	1.9 U	--
1,4-Naphthoquinone	**8270C**	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--
Anthracene	**8270C**	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.55 U	--	0.55 U	0.54 U	--
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	0.98 U	--	0.98 U	0.96 U	--
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-52A	RD-52A	RD-52B	RD-52B	RD-52B
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-52A_072017_01	RD-52A_080217_01	RD-52B_012417_01	RD-52B_072017_01	RD-52B_080317_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/20/2017	8/2/2017	1/24/2017	7/20/2017	8/3/2017
Analyte (µg/L)	**Method**					
Dibenzofuran	**8270C**	--	--	--	--	--
Diethyl phthalate	**8270C**	0.37 U	--	0.37 U	0.36 U	--
Diethyl phthalate	**8270C SIM**	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.21 U	--	0.21 U	0.2 U	--
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	--	1.1 U	1.1 U	--
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.34 U	--	0.34 U	0.34 U	--
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--
Formaldehyde	**8315A**	--	13 U	50 U	--	22 J
Hexachlorobenzene	**8270C**	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--
Nitrobenzene	**8270C**	0.79 U	--	0.8 U	0.78 U	--
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	--	0.005 U	0.005 U	--
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-52C	RD-52C	RD-52C	RD-55A	RD-55A
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-52C_012417_01	RD-52C_072017_01	RD-52C_080317_01	RD-55A_071817_01	RD-55A_080117_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/24/2017	7/20/2017	8/3/2017	7/18/2017	8/1/2017
Analyte (µg/L)	**Method**					
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	2.1 U	1.9 U	--	1.9 U	--
1,4-Naphthoquinone	**8270C**	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--
Anthracene	**8270C**	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.58 U	0.54 U	--	0.54 U	--
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	1 U	0.96 U	--	0.96 U	--
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-52C	RD-52C	RD-52C	RD-55A	RD-55A
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-52C_012417_01	RD-52C_072017_01	RD-52C_080317_01	RD-55A_071817_01	RD-55A_080117_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/24/2017	7/20/2017	8/3/2017	7/18/2017	8/1/2017
Analyte (µg/L)	**Method**					
Dibenzofuran	**8270C**	--	--	--	--	--
Diethyl phthalate	**8270C**	0.39 U	0.36 U	--	0.36 U	--
Diethyl phthalate	**8270C SIM**	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.22 U	0.2 U	--	0.2 U	--
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.2 U	1.1 U	--	1.1 U	--
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.36 U	0.33 U	--	0.34 U	--
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--
Formaldehyde	**8315A**	50 U	--	13 U	--	13 U
Hexachlorobenzene	**8270C**	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--
Nitrobenzene	**8270C**	0.84 U	0.77 U	--	0.78 U	--
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	0.005 U	--	0.005 U	--
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-55B	RD-55B	RD-55B	RD-58A	RD-58A
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-55B_012717_01	RD-55B_071817_01	RD-55B_080117_01	RD-58A_012717_01	RD-58A_071817_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/27/2017	7/18/2017	8/1/2017	1/27/2017	7/18/2017
Analyte (µg/L)	**Method**					
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	1.9 U	1.9 U	--	1.9 U	2 U
1,4-Naphthoquinone	**8270C**	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--
Anthracene	**8270C**	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.54 U	0.53 U	--	0.54 U	0.55 U
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	0.96 U	0.95 U	--	0.97 U	0.98 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-55B	RD-55B	RD-55B	RD-58A	RD-58A
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-55B_012717_01	RD-55B_071817_01	RD-55B_080117_01	RD-58A_012717_01	RD-58A_071817_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	1/27/2017	7/18/2017	8/1/2017	1/27/2017	7/18/2017
Analyte (µg/L)	**Method**					
Dibenzofuran	**8270C**	--	--	--	--	--
Diethyl phthalate	**8270C**	0.37 U	0.36 U	--	0.37 U	0.37 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.2 U	0.2 U	--	0.2 U	0.21 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.1 U	1.1 U	--	1.1 U	1.1 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.34 U	0.33 U	--	0.34 U	0.34 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--
Formaldehyde	**8315A**	11 J	--	13 U	10 U	--
Hexachlorobenzene	**8270C**	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--
Nitrobenzene	**8270C**	0.78 U	0.77 U	--	1.2 J	0.79 U
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	0.005 U	--	0.005 U	0.005 U
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-58A	RD-58B	RD-58B	RD-58B	RD-58C
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-58A_080117_01	RD-58B_012717_01	RD-58B_071817_01	RD-58B_080117_01	RD-58C_012717_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	8/1/2017	1/27/2017	7/18/2017	8/1/2017	1/27/2017
Analyte (µg/L)	**Method**					
1,2,4,5-Tetrachlorobenzene	8270C	--	--	--	--	--
1,2,4-Trichlorobenzene	8270C	--	--	--	--	--
1,3-Dichlorobenzene	8270C	--	--	--	--	--
1,3-Dinitrobenzene	8270C	--	1.9 U	2 U	--	1.9 U
1,4-Naphthoquinone	8270C	--	--	--	--	--
1-Methyl naphthalene	8270C SIM	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	8270C	--	--	--	--	--
2,4,5-Trichlorophenol	8270C	--	--	--	--	--
2,4,6-Trichlorophenol	8270C	--	--	--	--	--
2,4-Dichlorophenol	8270C	--	--	--	--	--
2,4-Dimethylphenol	8270C	--	--	--	--	--
2,4-Dinitrophenol	8270C	--	--	--	--	--
2,4-Dinitrotoluene	8270C	--	--	--	--	--
2,6-Dichlorophenol	8270C	--	--	--	--	--
2,6-Dinitrotoluene	8270C	--	--	--	--	--
2-Chloronaphthalene	8270C	--	--	--	--	--
2-Chlorophenol	8270C	--	--	--	--	--
2-Methylnaphthalene	8270C	--	--	--	--	--
2-Methylnaphthalene	8270C SIM	--	--	--	--	--
2-Nitroaniline	8270C	--	--	--	--	--
2-Nitrophenol	8270C	--	--	--	--	--
3,3'-Dichlorobenzidine	8270C	--	--	--	--	--
3-Methylcholanthrene	8270C	--	--	--	--	--
3-Nitroaniline	8270C	--	--	--	--	--
4,6-Dinitro-o-cresol	8270C	--	--	--	--	--
4-Aminobiphenyl	8270C	--	--	--	--	--
4-Bromophenyl phenyl ether	8270C	--	--	--	--	--
4-Chlorophenylphenyl ether	8270C	--	--	--	--	--
4-Nitrophenol	8270C	--	--	--	--	--
4-Nitroquinoline-1-oxide	8270C	--	--	--	--	--
5-Nitro-o-toluidine	8270C	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	8270C	--	--	--	--	--
Acenaphthene	8270C	--	--	--	--	--
Acenaphthene	8270C SIM	--	--	--	--	--
Acenaphthylene	8270C	--	--	--	--	--
Acenaphthylene	8270C SIM	--	--	--	--	--
Acetamidofluorene	8270C	--	--	--	--	--
Acetophenone	8270C	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	8270C	--	--	--	--	--
alpha-Naphthylamine	8270C	--	--	--	--	--
alpha-Picoline	8270C	--	--	--	--	--
Aniline	8270C	--	--	--	--	--
Anthracene	8270C	--	--	--	--	--
Anthracene	8270C SIM	--	--	--	--	--
Aramite	8270C	--	--	--	--	--
Benzo(a)anthracene	8270C	--	--	--	--	--
Benzo(a)anthracene	8270C SIM	--	--	--	--	--
Benzo(a)pyrene	8270C	--	--	--	--	--
Benzo(a)pyrene	8270C SIM	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	8270C	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	8270C SIM	--	--	--	--	--
Benzo(b)fluoranthene	8270C	--	--	--	--	--
Benzo(b)fluoranthene	8270C SIM	--	--	--	--	--
Benzo(ghi)perylene	8270C	--	--	--	--	--
Benzo(ghi)perylene	8270C SIM	--	--	--	--	--
Benzo(k)fluoranthene	8270C	--	--	--	--	--
Benzo(k)fluoranthene	8270C SIM	--	--	--	--	--
Benzyl alcohol	8270C	--	--	--	--	--
beta-Naphthylamine	8270C	--	--	--	--	--
bis(2-Chloroethoxy)methane	8270C	--	--	--	--	--
bis(2-Chloroethyl) ether	8270C	--	--	--	--	--
bis(2-Chloroisopropyl) ether	8270C	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	8270C	--	0.54 U	0.55 U	--	0.54 U
bis(2-Ethylhexyl) phthalate	8270C SIM	--	--	--	--	--
Butyl benzyl phthalate	8270C	--	0.97 U	0.99 U	--	0.97 U
Butyl benzyl phthalate	8270C SIM	--	--	--	--	--
Chlorobenzilate	8270C	--	--	--	--	--
Chrysene	8270C	--	--	--	--	--
Chrysene	8270C SIM	--	--	--	--	--
Diallate	8270C	--	--	--	--	--
Dibenzo(a,h)anthracene	8270C	--	--	--	--	--
Dibenzo(a,h)anthracene	8270C SIM	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-58A	RD-58B	RD-58B	RD-58B	RD-58C
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-58A_080117_01	RD-58B_012717_01	RD-58B_071817_01	RD-58B_080117_01	RD-58C_012717_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	8/1/2017	1/27/2017	7/18/2017	8/1/2017	1/27/2017
Analyte (µg/L)	**Method**					
Dibenzofuran	**8270C**	--	--	--	--	--
Diethyl phthalate	**8270C**	--	0.37 U	0.37 U	--	0.37 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--
Dimethyl phthalate	**8270C**	--	0.2 U	0.21 U	--	0.2 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	--	1.1 U	1.1 U	--	1.1 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	--	0.34 U	0.35 U	--	0.34 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--
Formaldehyde	**8315A**	13 U	10 U	--	13 U	14 J
Hexachlorobenzene	**8270C**	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--
Nitrobenzene	**8270C**	--	0.79 U	0.8 U	--	0.79 U
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	--	0.005 U	0.005 U	--	0.005 U
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-58C	RD-58C	RD-77	RD-78	RD-99
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-58C_071817_01	RD-58C_080117_01	RD-77_011917_01	RD-78_020217_01	RD-99_072717_01A
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/18/2017	8/1/2017	1/19/2017	2/2/2017	7/27/2017
Analyte (µg/L)	**Method**					
1,2,4,5-Tetrachlorobenzene	**8270C**	--	--	--	--	--
1,2,4-Trichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dichlorobenzene	**8270C**	--	--	--	--	--
1,3-Dinitrobenzene	**8270C**	2.1 U	--	1.9 U	--	--
1,4-Naphthoquinone	**8270C**	--	--	--	--	--
1-Methyl naphthalene	**8270C SIM**	--	--	--	--	--
2,3,4,6-Tetrachlorophenol	**8270C**	--	--	--	--	--
2,4,5-Trichlorophenol	**8270C**	--	--	--	--	--
2,4,6-Trichlorophenol	**8270C**	--	--	--	--	--
2,4-Dichlorophenol	**8270C**	--	--	--	--	--
2,4-Dimethylphenol	**8270C**	--	--	--	--	--
2,4-Dinitrophenol	**8270C**	--	--	--	--	--
2,4-Dinitrotoluene	**8270C**	--	--	--	--	--
2,6-Dichlorophenol	**8270C**	--	--	--	--	--
2,6-Dinitrotoluene	**8270C**	--	--	--	--	--
2-Chloronaphthalene	**8270C**	--	--	--	--	--
2-Chlorophenol	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C**	--	--	--	--	--
2-Methylnaphthalene	**8270C SIM**	--	--	--	--	--
2-Nitroaniline	**8270C**	--	--	--	--	--
2-Nitrophenol	**8270C**	--	--	--	--	--
3,3'-Dichlorobenzidine	**8270C**	--	--	--	--	--
3-Methylcholanthrene	**8270C**	--	--	--	--	--
3-Nitroaniline	**8270C**	--	--	--	--	--
4,6-Dinitro-o-cresol	**8270C**	--	--	--	--	--
4-Aminobiphenyl	**8270C**	--	--	--	--	--
4-Bromophenyl phenyl ether	**8270C**	--	--	--	--	--
4-Chlorophenylphenyl ether	**8270C**	--	--	--	--	--
4-Nitrophenol	**8270C**	--	--	--	--	--
4-Nitroquinoline-1-oxide	**8270C**	--	--	--	--	--
5-Nitro-o-toluidine	**8270C**	--	--	--	--	--
7,12-Dimethylbenz(a)anthracene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C**	--	--	--	--	--
Acenaphthene	**8270C SIM**	--	--	--	--	--
Acenaphthylene	**8270C**	--	--	--	--	--
Acenaphthylene	**8270C SIM**	--	--	--	--	--
Acetamidofluorene	**8270C**	--	--	--	--	--
Acetophenone	**8270C**	--	--	--	--	--
alpha, alpha-Dimethylphenethylamine	**8270C**	--	--	--	--	--
alpha-Naphthylamine	**8270C**	--	--	--	--	--
alpha-Picoline	**8270C**	--	--	--	--	--
Aniline	**8270C**	--	--	--	--	--
Anthracene	**8270C**	--	--	--	--	--
Anthracene	**8270C SIM**	--	--	--	--	--
Aramite	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C**	--	--	--	--	--
Benzo(a)anthracene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene	**8270C**	--	--	--	--	--
Benzo(a)pyrene	**8270C SIM**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C**	--	--	--	--	--
Benzo(a)pyrene TEQ[(a)]	**8270C SIM**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C**	--	--	--	--	--
Benzo(b)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzo(ghi)perylene	**8270C**	--	--	--	--	--
Benzo(ghi)perylene	**8270C SIM**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C**	--	--	--	--	--
Benzo(k)fluoranthene	**8270C SIM**	--	--	--	--	--
Benzyl alcohol	**8270C**	--	--	--	--	--
beta-Naphthylamine	**8270C**	--	--	--	--	--
bis(2-Chloroethoxy)methane	**8270C**	--	--	--	--	--
bis(2-Chloroethyl) ether	**8270C**	--	--	--	--	--
bis(2-Chloroisopropyl) ether	**8270C**	--	--	--	--	--
bis(2-Ethylhexyl) phthalate	**8270C**	0.57 U	--	0.55 U	--	0.98 J
bis(2-Ethylhexyl) phthalate	**8270C SIM**	--	--	--	--	--
Butyl benzyl phthalate	**8270C**	1 U	--	0.97 U	--	1.1 U
Butyl benzyl phthalate	**8270C SIM**	--	--	--	--	--
Chlorobenzilate	**8270C**	--	--	--	--	--
Chrysene	**8270C**	--	--	--	--	--
Chrysene	**8270C SIM**	--	--	--	--	--
Diallate	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C**	--	--	--	--	--
Dibenzo(a,h)anthracene	**8270C SIM**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-58C	RD-58C	RD-77	RD-78	RD-99
	Sample Type:	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-58C_071817_01	RD-58C_080117_01	RD-77_011917_01	RD-78_020217_01	RD-99_072717_01A
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/18/2017	8/1/2017	1/19/2017	2/2/2017	7/27/2017
Analyte (µg/L)	**Method**					
Dibenzofuran	**8270C**	--	--	--	--	--
Diethyl phthalate	**8270C**	0.39 U	--	0.37 U	--	0.4 U
Diethyl phthalate	**8270C SIM**	--	--	--	--	--
Dimethyl phthalate	**8270C**	0.22 U	--	0.2 U	--	0.22 U
Dimethyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-butyl phthalate	**8270C**	1.2 U	--	1.1 U	--	1.2 U
Di-n-butyl phthalate	**8270C SIM**	--	--	--	--	--
Di-n-octyl phthalate	**8270C**	0.36 U	--	0.34 U	--	0.37 U
Di-n-octyl phthalate	**8270C SIM**	--	--	--	--	--
Diphenylamine	**8270C**	--	--	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--	--	--
Fluoranthene	**8270C**	--	--	--	--	--
Fluoranthene	**8270C SIM**	--	--	--	--	--
Fluorene	**8270C**	--	--	--	--	--
Fluorene	**8270C SIM**	--	--	--	--	--
Formaldehyde	**8315A**	--	13 U	13 J	--	--
Hexachlorobenzene	**8270C**	--	--	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--	--	--
Hexachloroethane	**8270C**	--	--	--	--	--
Hexachlorophene	**8151A**	--	--	--	--	--
Hexachlorophene	**8321A**	--	--	--	--	--
Hexachloropropene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--	--	--
Isodrin	**8270C**	--	--	--	--	--
Isophorone	**8270C**	--	--	--	--	--
Isosafrole	**8270C**	--	--	--	--	--
Kepone	**8270C**	--	--	--	--	--
m-Cresol	**8270C**	--	--	--	--	--
Methapyrilene	**8270C**	--	--	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--	--	--
Naphthalene	**8270C**	--	--	--	--	--
Naphthalene	**8270C SIM**	--	--	--	--	--
Nitrobenzene	**8270C**	0.83 U	--	0.79 U	--	--
n-Nitrosodiethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	--	0.005 U	0.005 U	--
n-Nitrosodimethylamine	**1625C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--	--	--
o-Cresol	**8270C**	--	--	--	--	--
o-Tolidine	**8270C**	--	--	--	--	--
o-Toluidine	**8270C**	--	--	--	--	--
p-Chloroaniline	**8270C**	--	--	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--	--	--
p-Cresol	**8270C**	--	--	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--	--	--
Pentachlorobenzene	**8270C**	--	--	--	--	--
Pentachloroethane	**8270C**	--	--	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--	--	--
Pentachlorophenol	**8270C**	--	--	--	--	--
Phenacetin	**8270C**	--	--	--	--	--
Phenanthrene	**8270C**	--	--	--	--	--
Phenanthrene	**8270C SIM**	--	--	--	--	--
Phenol	**8270C**	--	--	--	--	--
p-Nitroaniline	**8270C**	--	--	--	--	--
p-Phenylenediamine	**8270C**	--	--	--	--	--
Pronamide	**8270C**	--	--	--	--	--
Pyrene	**8270C**	--	--	--	--	--
Pyrene	**8270C SIM**	--	--	--	--	--
Pyridine	**8270C**	--	--	--	--	--
Safrole	**8270C**	--	--	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-129	RD-130	SP-22B
	Sample Type:	Primary	Primary	Primary
	Sample Name:	RD-129_071717_01A	RD-130_072117_01	SP-22B_020117_01
	Groundwater Unit:	Chatsworth	Chatsworth	Shallow
	Lab Name:	EMAX	TA- Denver	TA- Denver
	Collection Date:	7/17/2017	7/21/2017	2/1/2017
Analyte (µg/L)	**Method**			
1,2,4,5-Tetrachlorobenzene	8270C	--	--	--
1,2,4-Trichlorobenzene	8270C	--	--	--
1,3-Dichlorobenzene	8270C	--	--	--
1,3-Dinitrobenzene	8270C	--	--	--
1,4-Naphthoquinone	8270C	--	--	--
1-Methyl naphthalene	8270C SIM	--	--	--
2,3,4,6-Tetrachlorophenol	8270C	--	--	--
2,4,5-Trichlorophenol	8270C	--	--	--
2,4,6-Trichlorophenol	8270C	--	--	--
2,4-Dichlorophenol	8270C	--	--	--
2,4-Dimethylphenol	8270C	--	--	--
2,4-Dinitrophenol	8270C	--	--	--
2,4-Dinitrotoluene	8270C	--	--	--
2,6-Dichlorophenol	8270C	--	--	--
2,6-Dinitrotoluene	8270C	--	--	--
2-Chloronaphthalene	8270C	--	--	--
2-Chlorophenol	8270C	--	--	--
2-Methylnaphthalene	8270C	--	--	--
2-Methylnaphthalene	8270C SIM	--	--	--
2-Nitroaniline	8270C	--	--	--
2-Nitrophenol	8270C	--	--	--
3,3'-Dichlorobenzidine	8270C	--	--	--
3-Methylcholanthrene	8270C	--	--	--
3-Nitroaniline	8270C	--	--	--
4,6-Dinitro-o-cresol	8270C	--	--	--
4-Aminobiphenyl	8270C	--	--	--
4-Bromophenyl phenyl ether	8270C	--	--	--
4-Chlorophenylphenyl ether	8270C	--	--	--
4-Nitrophenol	8270C	--	--	--
4-Nitroquinoline-1-oxide	8270C	--	--	--
5-Nitro-o-toluidine	8270C	--	--	--
7,12-Dimethylbenz(a)anthracene	8270C	--	--	--
Acenaphthene	8270C	--	--	--
Acenaphthene	8270C SIM	--	--	--
Acenaphthylene	8270C	--	--	--
Acenaphthylene	8270C SIM	--	--	--
Acetamidofluorene	8270C	--	--	--
Acetophenone	8270C	--	--	--
alpha, alpha-Dimethylphenethylamine	8270C	--	--	--
alpha-Naphthylamine	8270C	--	--	--
alpha-Picoline	8270C	--	--	--
Aniline	8270C	--	--	--
Anthracene	8270C	--	--	--
Anthracene	8270C SIM	--	--	--
Aramite	8270C	--	--	--
Benzo(a)anthracene	8270C	--	--	--
Benzo(a)anthracene	8270C SIM	--	--	--
Benzo(a)pyrene	8270C	--	--	--
Benzo(a)pyrene	8270C SIM	--	--	--
Benzo(a)pyrene TEQ[(a)]	8270C	--	--	--
Benzo(a)pyrene TEQ[(a)]	8270C SIM	--	--	--
Benzo(b)fluoranthene	8270C	--	--	--
Benzo(b)fluoranthene	8270C SIM	--	--	--
Benzo(ghi)perylene	8270C	--	--	--
Benzo(ghi)perylene	8270C SIM	--	--	--
Benzo(k)fluoranthene	8270C	--	--	--
Benzo(k)fluoranthene	8270C SIM	--	--	--
Benzyl alcohol	8270C	--	--	--
beta-Naphthylamine	8270C	--	--	--
bis(2-Chloroethoxy)methane	8270C	--	--	--
bis(2-Chloroethyl) ether	8270C	--	--	--
bis(2-Chloroisopropyl) ether	8270C	--	--	--
bis(2-Ethylhexyl) phthalate	8270C	--	0.54 U	--
bis(2-Ethylhexyl) phthalate	8270C SIM	9.5 UJ	--	--
Butyl benzyl phthalate	8270C	--	0.96 U	--
Butyl benzyl phthalate	8270C SIM	9.5 UJ	--	--
Chlorobenzilate	8270C	--	--	--
Chrysene	8270C	--	--	--
Chrysene	8270C SIM	--	--	--
Diallate	8270C	--	--	--
Dibenzo(a,h)anthracene	8270C	--	--	--
Dibenzo(a,h)anthracene	8270C SIM	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-129	RD-130	SP-22B
	Sample Type:	Primary	Primary	Primary
	Sample Name:	RD-129_071717_01A	RD-130_072117_01	SP-22B_020117_01
	Groundwater Unit:	Chatsworth	Chatsworth	Shallow
	Lab Name:	EMAX	TA- Denver	TA- Denver
	Collection Date:	7/17/2017	7/21/2017	2/1/2017
Analyte (µg/L)	**Method**			
Dibenzofuran	**8270C**	--	--	--
Diethyl phthalate	**8270C**	--	1.4 J	--
Diethyl phthalate	**8270C SIM**	9.5 U	--	--
Dimethyl phthalate	**8270C**	--	0.2 U	--
Dimethyl phthalate	**8270C SIM**	0.017 U	--	--
Di-n-butyl phthalate	**8270C**	--	1.1 U	--
Di-n-butyl phthalate	**8270C SIM**	9.5 U	--	--
Di-n-octyl phthalate	**8270C**	--	0.34 U	--
Di-n-octyl phthalate	**8270C SIM**	0.0084 UJ	--	--
Diphenylamine	**8270C**	--	--	--
Ethyl methanesulfonate	**8270C**	--	--	--
Fluoranthene	**8270C**	--	--	--
Fluoranthene	**8270C SIM**	--	--	--
Fluorene	**8270C**	--	--	--
Fluorene	**8270C SIM**	--	--	--
Formaldehyde	**8315A**	--	--	--
Hexachlorobenzene	**8270C**	--	--	--
Hexachlorobutadiene	**8270C**	--	--	--
Hexachlorocyclopentadiene	**8270C**	--	--	--
Hexachloroethane	**8270C**	--	--	--
Hexachlorophene	**8151A**	--	--	--
Hexachlorophene	**8321A**	--	--	--
Hexachloropropene	**8270C**	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C**	--	--	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--	--	--
Isodrin	**8270C**	--	--	--
Isophorone	**8270C**	--	--	--
Isosafrole	**8270C**	--	--	--
Kepone	**8270C**	--	--	--
m-Cresol	**8270C**	--	--	--
Methapyrilene	**8270C**	--	--	--
Methyl methanesulfonate	**8270C**	--	--	--
Naphthalene	**8270C**	--	--	--
Naphthalene	**8270C SIM**	--	--	--
Nitrobenzene	**8270C**	--	--	--
n-Nitrosodiethylamine	**8270C**	--	--	--
n-Nitrosodimethylamine	**1625**	0.005 U	--	0.005 U
n-Nitrosodimethylamine	**1625C**	--	--	--
n-Nitrosodimethylamine	**8270C**	--	--	--
n-Nitrosodimethylamine	**8270C SIM**	--	--	--
n-Nitrosodi-n-butylamine	**8270C**	--	--	--
n-Nitrosodi-n-propylamine	**8270C**	--	--	--
n-Nitrosodiphenylamine	**8270C**	--	--	--
n-Nitrosomethylethylamine	**8270C**	--	--	--
n-Nitrosomorpholine	**8270C**	--	--	--
n-Nitrosopiperidine	**8270C**	--	--	--
n-Nitrosopyrrolidine	**8270C**	--	--	--
o,o,o-Triethylphosphorothioate	**8270C**	--	--	--
o-Cresol	**8270C**	--	--	--
o-Tolidine	**8270C**	--	--	--
o-Toluidine	**8270C**	--	--	--
p-Chloroaniline	**8270C**	--	--	--
p-Chloro-m-cresol	**8270C**	--	--	--
p-Cresol	**8270C**	--	--	--
p-Dimethylaminoazobenzene	**8270C**	--	--	--
Pentachlorobenzene	**8270C**	--	--	--
Pentachloroethane	**8270C**	--	--	--
Pentachloronitrobenzene	**8270C**	--	--	--
Pentachlorophenol	**8270C**	--	--	--
Phenacetin	**8270C**	--	--	--
Phenanthrene	**8270C**	--	--	--
Phenanthrene	**8270C SIM**	--	--	--
Phenol	**8270C**	--	--	--
p-Nitroaniline	**8270C**	--	--	--
p-Phenylenediamine	**8270C**	--	--	--
Pronamide	**8270C**	--	--	--
Pyrene	**8270C**	--	--	--
Pyrene	**8270C SIM**	--	--	--
Pyridine	**8270C**	--	--	--
Safrole	**8270C**	--	--	--
sym-Trinitrobenzene	**8270C**	--	--	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	SP-27C
	Sample Type:	Primary
	Sample Name:	SP-27C_013117_01
	Groundwater Unit:	Chatsworth
	Lab Name:	TA- Denver
	Collection Date:	1/31/2017
Analyte (µg/L)	**Method**	
1,2,4,5-Tetrachlorobenzene	8270C	--
1,2,4-Trichlorobenzene	8270C	--
1,3-Dichlorobenzene	8270C	--
1,3-Dinitrobenzene	8270C	--
1,4-Naphthoquinone	8270C	--
1-Methyl naphthalene	8270C SIM	--
2,3,4,6-Tetrachlorophenol	8270C	--
2,4,5-Trichlorophenol	8270C	--
2,4,6-Trichlorophenol	8270C	--
2,4-Dichlorophenol	8270C	--
2,4-Dimethylphenol	8270C	--
2,4-Dinitrophenol	8270C	--
2,4-Dinitrotoluene	8270C	--
2,6-Dichlorophenol	8270C	--
2,6-Dinitrotoluene	8270C	--
2-Chloronaphthalene	8270C	--
2-Chlorophenol	8270C	--
2-Methylnaphthalene	8270C	--
2-Methylnaphthalene	8270C SIM	--
2-Nitroaniline	8270C	--
2-Nitrophenol	8270C	--
3,3'-Dichlorobenzidine	8270C	--
3-Methylcholanthrene	8270C	--
3-Nitroaniline	8270C	--
4,6-Dinitro-o-cresol	8270C	--
4-Aminobiphenyl	8270C	--
4-Bromophenyl phenyl ether	8270C	--
4-Chlorophenylphenyl ether	8270C	--
4-Nitrophenol	8270C	--
4-Nitroquinoline-1-oxide	8270C	--
5-Nitro-o-toluidine	8270C	--
7,12-Dimethylbenz(a)anthracene	8270C	--
Acenaphthene	8270C	--
Acenaphthene	8270C SIM	--
Acenaphthylene	8270C	--
Acenaphthylene	8270C SIM	--
Acetamidofluorene	8270C	--
Acetophenone	8270C	--
alpha, alpha-Dimethylphenethylamine	8270C	--
alpha-Naphthylamine	8270C	--
alpha-Picoline	8270C	--
Aniline	8270C	--
Anthracene	8270C	--
Anthracene	8270C SIM	--
Aramite	8270C	--
Benzo(a)anthracene	8270C	--
Benzo(a)anthracene	8270C SIM	--
Benzo(a)pyrene	8270C	--
Benzo(a)pyrene	8270C SIM	--
Benzo(a)pyrene TEQ[(a)]	8270C	--
Benzo(a)pyrene TEQ[(a)]	8270C SIM	--
Benzo(b)fluoranthene	8270C	--
Benzo(b)fluoranthene	8270C SIM	--
Benzo(ghi)perylene	8270C	--
Benzo(ghi)perylene	8270C SIM	--
Benzo(k)fluoranthene	8270C	--
Benzo(k)fluoranthene	8270C SIM	--
Benzyl alcohol	8270C	--
beta-Naphthylamine	8270C	--
bis(2-Chloroethoxy)methane	8270C	--
bis(2-Chloroethyl) ether	8270C	--
bis(2-Chloroisopropyl) ether	8270C	--
bis(2-Ethylhexyl) phthalate	8270C	--
bis(2-Ethylhexyl) phthalate	8270C SIM	--
Butyl benzyl phthalate	8270C	--
Butyl benzyl phthalate	8270C SIM	--
Chlorobenzilate	8270C	--
Chrysene	8270C	--
Chrysene	8270C SIM	--
Diallate	8270C	--
Dibenzo(a,h)anthracene	8270C	--
Dibenzo(a,h)anthracene	8270C SIM	--

TABLE 12
SEMI-VOLATILE ORGANIC COMPOUNDS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	SP-27C
	Sample Type:	Primary
	Sample Name:	SP-27C_013117_01
	Groundwater Unit:	Chatsworth
	Lab Name:	TA- Denver
	Collection Date:	1/31/2017
Analyte (µg/L)	**Method**	
Dibenzofuran	**8270C**	--
Diethyl phthalate	**8270C**	--
Diethyl phthalate	**8270C SIM**	--
Dimethyl phthalate	**8270C**	--
Dimethyl phthalate	**8270C SIM**	--
Di-n-butyl phthalate	**8270C**	--
Di-n-butyl phthalate	**8270C SIM**	--
Di-n-octyl phthalate	**8270C**	--
Di-n-octyl phthalate	**8270C SIM**	--
Diphenylamine	**8270C**	--
Ethyl methanesulfonate	**8270C**	--
Fluoranthene	**8270C**	--
Fluoranthene	**8270C SIM**	--
Fluorene	**8270C**	--
Fluorene	**8270C SIM**	--
Formaldehyde	**8315A**	--
Hexachlorobenzene	**8270C**	--
Hexachlorobutadiene	**8270C**	--
Hexachlorocyclopentadiene	**8270C**	--
Hexachloroethane	**8270C**	--
Hexachlorophene	**8151A**	--
Hexachlorophene	**8321A**	--
Hexachloropropene	**8270C**	--
Indeno(1,2,3-cd)pyrene	**8270C**	--
Indeno(1,2,3-cd)pyrene	**8270C SIM**	--
Isodrin	**8270C**	--
Isophorone	**8270C**	--
Isosafrole	**8270C**	--
Kepone	**8270C**	--
m-Cresol	**8270C**	--
Methapyrilene	**8270C**	--
Methyl methanesulfonate	**8270C**	--
Naphthalene	**8270C**	--
Naphthalene	**8270C SIM**	--
Nitrobenzene	**8270C**	--
n-Nitrosodiethylamine	**8270C**	--
n-Nitrosodimethylamine	**1625**	0.005 U
n-Nitrosodimethylamine	**1625C**	--
n-Nitrosodimethylamine	**8270C**	--
n-Nitrosodimethylamine	**8270C SIM**	--
n-Nitrosodi-n-butylamine	**8270C**	--
n-Nitrosodi-n-propylamine	**8270C**	--
n-Nitrosodiphenylamine	**8270C**	--
n-Nitrosomethylethylamine	**8270C**	--
n-Nitrosomorpholine	**8270C**	--
n-Nitrosopiperidine	**8270C**	--
n-Nitrosopyrrolidine	**8270C**	--
o,o,o-Triethylphosphorothioate	**8270C**	--
o-Cresol	**8270C**	--
o-Tolidine	**8270C**	--
o-Toluidine	**8270C**	--
p-Chloroaniline	**8270C**	--
p-Chloro-m-cresol	**8270C**	--
p-Cresol	**8270C**	--
p-Dimethylaminoazobenzene	**8270C**	--
Pentachlorobenzene	**8270C**	--
Pentachloroethane	**8270C**	--
Pentachloronitrobenzene	**8270C**	--
Pentachlorophenol	**8270C**	--
Phenacetin	**8270C**	--
Phenanthrene	**8270C**	--
Phenanthrene	**8270C SIM**	--
Phenol	**8270C**	--
p-Nitroaniline	**8270C**	--
p-Phenylenediamine	**8270C**	--
Pronamide	**8270C**	--
Pyrene	**8270C**	--
Pyrene	**8270C SIM**	--
Pyridine	**8270C**	--
Safrole	**8270C**	--
sym-Trinitrobenzene	**8270C**	--

NOTES AND ABBREVIATIONS

Chatsworth - Chatsworth Formation groundwater unit
Shallow - Near-surface groundwater unit

µg/L - micrograms per liter

-- Not analyzed
MDL - method detection limit
SIM - selective ion monitoring
RL - reporting limit
TA - TestAmerica
TEQ - toxicity equivalence quotient

J - Estimated value. Result may receive a J flag for the following reasons:
- Routinely indicates that the analyte was detected at a level less than the RL and greater than or equal to the MDL.
- In some instances may indicate that minor quality control deficiencies may have slightly compromised result accuracy.

R - Result is rejected.
U - Not detected above the MDL or RL
UJ - The result is not detected; however, the RL/MDL is estimated

(a) - Benzo(a)pyrene TEQ includes the seven generally recognized carcinogenic PAHs: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene

TABLE 13
PERCHLORATE ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:	Sample Type:	Sample Name:	Groundwater Unit:	Lab Name:	Collection Date:	Perchlorate (µg/L) - Method		
						314	6850	6860
HAR-01	Primary	HAR-01_012517_01	Chatsworth	TA- Denver	1/25/2017	23	--	--
HAR-01	Primary	HAR-01_073117_01	Chatsworth	TA- Denver	7/31/2017	35	--	--
HAR-03	Primary	HAR-03_072417_01	Shallow	TA- Denver	7/24/2017	3.1	--	--
HAR-04	Primary	HAR-04_072517_01	Shallow	TA- Denver	7/25/2017	1.6 J	--	--
HAR-16	Primary	HAR-16_012517_01	Chatsworth	TA- Denver	1/25/2017	810	--	--
HAR-16	Split	HAR-16_012517_03A	Chatsworth	EMAX	1/25/2017	898	--	--
HAR-16	Primary	HAR-16_072817_01	Chatsworth	TA- Denver	7/28/2017	240	--	--
HAR-25	Primary	HAR-25_072817_01	Chatsworth	TA- Denver	7/28/2017	25	--	--
HAR-26	Primary	HAR-26_020117_01	Chatsworth	TA- Denver	2/1/2017	0.5 U	--	--
HAR-26	Primary	HAR-26_072617_01	Chatsworth	TA- Denver	7/26/2017	0.5 U	--	--
OS-09R Port-01	Primary	OS-09R 1_013017_01	Chatsworth	TA- Denver	1/30/2017	--	--	0.004 U
OS-09R Port-01	Field Duplicate	OS-09R 1_013017_36	Chatsworth	TA- Denver	1/30/2017	--	--	0.004 U
OS-09R Port-01	Split	OS-09R 1_013017_03	Chatsworth	EMAX	1/30/2017	--	0.1 U	--
RD-01	Primary	RD-01_080417_01	Chatsworth	TA- Denver	8/4/2017	0.5 U	--	--
RD-03	Primary	RD-03_011817_01	Chatsworth	TA- Denver	1/18/2017	0.5 U	--	--
RD-03	Field Duplicate	RD-03_011817_36	Chatsworth	TA- Denver	1/18/2017	0.5 U	--	--
RD-03	Primary	RD-03_072417_01	Chatsworth	TA- Denver	7/24/2017	0.5 U	--	--
RD-03	Field Duplicate	RD-03_072417_36	Chatsworth	TA- Denver	7/24/2017	0.5 U	--	--
RD-06	Primary	RD-06_011717_01	Chatsworth	TA- Denver	1/17/2017	--	--	0.079 J
RD-06	Primary	RD-06_071817_01	Chatsworth	TA- Denver	7/18/2017	--	--	0.004 U
RD-08	Primary	RD-08_012617_01	Chatsworth	TA- Denver	1/26/2017	0.5 U	--	--
RD-08	Primary	RD-08_072617_01	Chatsworth	TA- Denver	7/26/2017	0.5 U	--	--
RD-08	Field Duplicate	RD-08_072617_36	Chatsworth	TA- Denver	7/26/2017	0.5 U	--	--
RD-10	Primary	RD-10_011817_01	Chatsworth	TA- Denver	1/18/2017	3.2	--	--
RD-11	Primary	RD-11_012617_01	Chatsworth	TA- Denver	1/26/2017	0.5 U	--	--
RD-11	Primary	RD-11_072417_01	Chatsworth	TA- Denver	7/24/2017	0.5 U	--	--
RD-12	Primary	RD-12_012717_01	Chatsworth	TA- Denver	1/27/2017	0.5 U	--	--
RD-12	Primary	RD-12_072717_01	Chatsworth	TA- Denver	7/27/2017	0.5 U	--	--
RD-32	Primary	RD-32_020117_01	Chatsworth	TA- Denver	2/1/2017	--	--	0.004 U
RD-36C	Primary	RD-36C_012417_01	Chatsworth	TA- Denver	1/24/2017	--	--	0.004 U
RD-36C	Primary	RD-36C_073117_01	Chatsworth	TA- Denver	7/31/2017	--	--	0.004 U
RD-36D	Primary	RD-36D_012417_01	Chatsworth	TA- Denver	1/24/2017	--	--	0.004 U
RD-36D	Primary	RD-36D_073117_01	Chatsworth	TA- Denver	7/31/2017	--	--	0.004 U
RD-37	Primary	RD-37_020117_01	Chatsworth	TA- Denver	2/1/2017	--	--	0.004 U
RD-37	Primary	RD-37_072617_01	Chatsworth	TA- Denver	7/26/2017	--	--	0.004 U
RD-38B	Primary	RD-38B_020117_01	Chatsworth	TA- Denver	2/1/2017	--	--	0.004 U
RD-38B	Primary	RD-38B_072717_01	Chatsworth	TA- Denver	7/27/2017	--	--	0.004 U
RD-39B	Primary	RD-39B_011917_01	Chatsworth	TA- Denver	1/19/2017	--	--	0.004 U
RD-39B	Primary	RD-39B_072817_01	Chatsworth	TA- Denver	7/28/2017	--	--	0.004 U
RD-43A	Primary	RD-43A_012617_01	Chatsworth	TA- Denver	1/26/2017	--	--	0.015 J
RD-43A	Primary	RD-43A_071917_01	Chatsworth	TA- Denver	7/19/2017	--	--	0.11 J
RD-43B	Primary	RD-43B_012617_01	Chatsworth	TA- Denver	1/26/2017	--	--	0.004 U
RD-43B	Field Duplicate	RD-43B_012617_36	Chatsworth	TA- Denver	1/26/2017	--	--	0.004 U
RD-43B	Primary	RD-43B_071917_01	Chatsworth	TA- Denver	7/19/2017	--	--	0.4 U
RD-43B	Field Duplicate	RD-43B_071917_36	Chatsworth	TA- Denver	7/19/2017	--	--	0.004 UJ
RD-43C	Primary	RD-43C_012617_01	Chatsworth	TA- Denver	1/26/2017	--	--	0.004 U
RD-43C	Primary	RD-43C_071917_01	Chatsworth	TA- Denver	7/19/2017	--	--	0.4 UJ
RD-45A	Primary	RD-45A_012617_01	Chatsworth	TA- Denver	1/26/2017	0.5 U	--	--
RD-45A	Primary	RD-45A_071917_01	Chatsworth	TA- Denver	7/19/2017	0.5 U	--	--
RD-45B	Primary	RD-45B_012617_01	Chatsworth	TA- Denver	1/26/2017	0.5 U	--	--
RD-45B	Field Duplicate	RD-45B_012617_36	Chatsworth	TA- Denver	1/26/2017	0.5 U	--	--
RD-45B	Primary	RD-45B_071917_01	Chatsworth	TA- Denver	7/19/2017	0.5 U	--	--
RD-45C	Primary	RD-45C_012617_01	Chatsworth	TA- Denver	1/26/2017	0.5 U	--	--
RD-45C	Primary	RD-45C_071917_01	Chatsworth	TA- Denver	7/19/2017	0.5 U	--	--
RD-46A	Primary	RD-46A_080417_01	Chatsworth	TA- Denver	8/4/2017	0.5 U	--	--
RD-46B	Primary	RD-46B_011717_01	Chatsworth	TA- Denver	1/17/2017	0.5 U	--	--
RD-46B	Primary	RD-46B_072817_01	Chatsworth	TA- Denver	7/28/2017	0.5 U	--	--
RD-48B	Primary	RD-48B_012417_01	Chatsworth	TA- Denver	1/24/2017	--	--	0.004 U
RD-48B	Primary	RD-48B_072517_01	Chatsworth	TA- Denver	7/25/2017	--	--	0.004 U
RD-48C	Primary	RD-48C_012417_01	Chatsworth	TA- Denver	1/24/2017	--	--	0.004 U
RD-48C	Primary	RD-48C_072517_01	Chatsworth	TA- Denver	7/25/2017	--	--	0.004 U
RD-50	Primary	RD-50_013017_01	Chatsworth	TA- Denver	1/30/2017	0.5 U	--	--
RD-50	Split	RD-50_013017_03A	Chatsworth	EMAX	1/30/2017	1 U	--	--
RD-51A	Primary	RD-51A_011917_01	Chatsworth	TA- Denver	1/19/2017	0.5 U	--	--

TABLE 13
PERCHLORATE ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:	Sample Type:	Sample Name:	Groundwater Unit:	Lab Name:	Collection Date:	Perchlorate (µg/L) - Method		
						314	6850	6860
RD-51A	Primary	RD-51A_072017_01	Chatsworth	TA- Denver	7/20/2017	0.5 U	--	--
RD-51B	Primary	RD-51B_011917_01	Chatsworth	TA- Denver	1/19/2017	0.5 U	--	--
RD-51B	Primary	RD-51B_072017_01	Chatsworth	TA- Denver	7/20/2017	0.5 U	--	--
RD-51C	Primary	RD-51C_011917_01	Chatsworth	TA- Denver	1/19/2017	0.5 U	--	--
RD-51C	Field Duplicate	RD-51C_011917_36	Chatsworth	TA- Denver	1/19/2017	0.5 U	--	--
RD-51C	Primary	RD-51C_072017_01	Chatsworth	TA- Denver	7/20/2017	0.5 U	--	--
RD-52A	Primary	RD-52A_012417_01	Chatsworth	TA- Denver	1/24/2017	0.5 U	--	--
RD-52A	Primary	RD-52A_072017_01	Chatsworth	TA- Denver	7/20/2017	0.5 U	--	--
RD-52B	Primary	RD-52B_012417_01	Chatsworth	TA- Denver	1/24/2017	0.5 U	--	--
RD-52B	Primary	RD-52B_072017_01	Chatsworth	TA- Denver	7/20/2017	0.5 U	--	--
RD-52C	Primary	RD-52C_012417_01	Chatsworth	TA- Denver	1/24/2017	0.5 U	--	--
RD-52C	Primary	RD-52C_072017_01	Chatsworth	TA- Denver	7/20/2017	0.5 U	--	--
RD-55A	Primary	RD-55A_071817_01	Chatsworth	TA- Denver	7/18/2017	0.5 U	--	--
RD-55B	Primary	RD-55B_012717_01	Chatsworth	TA- Denver	1/27/2017	0.5 U	--	--
RD-55B	Primary	RD-55B_071817_01	Chatsworth	TA- Denver	7/18/2017	0.5 U	--	--
RD-58A	Primary	RD-58A_012717_01	Chatsworth	TA- Denver	1/27/2017	0.5 U	--	--
RD-58A	Primary	RD-58A_071817_01	Chatsworth	TA- Denver	7/18/2017	0.5 U	--	--
RD-58B	Primary	RD-58B_012717_01	Chatsworth	TA- Denver	1/27/2017	0.5 U	--	--
RD-58B	Primary	RD-58B_071817_01	Chatsworth	TA- Denver	7/18/2017	0.5 U	--	--
RD-58C	Primary	RD-58C_012717_01	Chatsworth	TA- Denver	1/27/2017	0.5 U	--	--
RD-58C	Primary	RD-58C_071817_01	Chatsworth	TA- Denver	7/18/2017	0.5 U	--	--
RD-75	Primary	RD-75_011717_01	Chatsworth	TA- Denver	1/17/2017	--	--	0.004 U
RD-76	Primary	RD-76_011817_01	Chatsworth	TA- Denver	1/18/2017	--	--	0.004 U
RD-77	Primary	RD-77_011917_01	Chatsworth	TA- Denver	1/19/2017	140	--	--
RD-78	Primary	RD-78_020217_01	Chatsworth	TA- Denver	2/2/2017	0.5 U	--	--
RD-103 QA-15	Primary	RD-103 QA-15_012717_01	Chatsworth	TA- Denver	1/27/2017	--	--	0.3 J
RD-120 QA-10	Primary	RD-120 QA-10_013017_01	Chatsworth	TA- Denver	1/30/2017	--	--	0.004 U
RD-121	Primary	RD-121_013117_01	Chatsworth	TA- Denver	1/31/2017	--	--	2 J
RD-129	Primary	RD-129_012517_01	Chatsworth	TA- Denver	1/25/2017	--	--	0.004 U
RD-130	Primary	RD-130_011917_01	Chatsworth	TA- Denver	1/19/2017	--	--	3.9 J
RD-131	Primary	RD-131_011817_01	Chatsworth	TA- Denver	1/18/2017	--	--	0.3 J
SP-27C	Primary	SP-27C_013117_01	Chatsworth	TA- Denver	1/31/2017	--	--	0.004 U
SP-424C	Primary	SP-424C_020117_01	Chatsworth	TA- Denver	2/1/2017	--	--	0.004 U
SP-737A	Primary	SP-737A_080217_01	Chatsworth	TA- Denver	8/2/2017	--	--	0.004 U

NOTES AND ABBREVIATIONS

Chatsworth - Chatsworth Formation groundwater unit
Shallow - Near-surface groundwater unit

µg/L - micrograms per liter

-- Not analyzed
MDL - method detection limit
RL - reporting limit
TA - TestAmerica

J - Estimated value. Result may receive a J flag for the following reasons:
- Routinely indicates that the analyte was detected at a level less than the RL and greater than or equal to the MDL.
- In some instances may indicate that minor quality control deficiencies may have slightly compromised result accuracy.

U - Not detected above the MDL or RL
UJ - The result is not detected; however, the RL/MDL is estimated

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-01	HAR-01	HAR-03	HAR-04	HAR-16	HAR-16
Sample Type:		Primary	Primary	Primary	Primary	Primary	Split
Sample Name:		HAR-01_012517_01	HAR-01_073117_01	HAR-03_072417_01	HAR-04_072517_01	HAR-16_012517_01	HAR-16_012517_03A
Groundwater Unit:		Chatsworth	Chatsworth	Shallow	Shallow	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	EMAX
Collection Date:		1/25/2017	7/31/2017	7/24/2017	7/25/2017	1/25/2017	1/25/2017
Analyte (mg/L)	**Method**						
Diesel Range Organics (C12-C14)	**8015B**	0.1 U	0.095 U	0.095 U	0.096 UJ	0.096 U	0.051 U
Diesel Range Organics (C15-C20)	**8015B**	0.1 U	0.095 U	0.095 U	0.096 UJ	0.096 U	0.051 U
Diesel Range Organics (C21-C30)	**8015B**	0.1 U	0.095 U	0.095 U	0.096 UJ	0.096 U	0.051 U
Diesel Range Organics (C8-C30)	**8015B**	0.1 U	0.095 U	0.095 U	0.096 UJ	0.096 U	0.051 U
Gasoline Range Organics (C6-C12)	**8015B**	--	--	--	--	--	--
Gasoline Range Organics (C8-C11)	**8015B**	0.1 U	0.095 U	0.095 U	0.096 R	0.096 U	0.051 U
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	--	--

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-16	HAR-25	RD-03	RD-03	RD-03	RD-03	RD-10
Sample Type:		Primary	Primary	Primary	Field Duplicate	Primary	Field Duplicate	Primary
Sample Name:		HAR-16_072817_01	HAR-25_072817_01	RD-03_011817_01	RD-03_011817_36	RD-03_072417_01	RD-03_072417_36	RD-10_011817_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/28/2017	7/28/2017	1/18/2017	1/18/2017	7/24/2017	7/24/2017	1/18/2017
Analyte (mg/L)	**Method**							
Diesel Range Organics (C12-C14)	**8015B**	0.1 U	0.095 U	0.097 U	0.099 U	0.1 UJ	0.095 U	--
Diesel Range Organics (C15-C20)	**8015B**	0.1 U	0.095 U	0.097 U	0.099 U	0.1 UJ	0.095 U	--
Diesel Range Organics (C21-C30)	**8015B**	0.1 U	0.095 U	0.097 U	0.099 U	0.1 UJ	0.095 U	--
Diesel Range Organics (C8-C30)	**8015B**	0.1 U	0.095 U	0.097 U	0.099 U	0.1 UJ	0.095 U	--
Gasoline Range Organics (C6-C12)	**8015B**	--	--	--	--	--	--	0.01 U
Gasoline Range Organics (C8-C11)	**8015B**	0.1 U	0.095 U	0.097 U	0.099 U	0.1 R	0.095 U	--
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	--	--	--

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-32	RD-32	RD-36C	RD-36C	RD-36D	RD-36D
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-32_020117_01	RD-32_072117_01	RD-36C_012417_01	RD-36C_073117_01	RD-36D_012417_01	RD-36D_073117_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		2/1/2017	7/21/2017	1/24/2017	7/31/2017	1/24/2017	7/31/2017
Analyte (mg/L)	**Method**						
Diesel Range Organics (C12-C14)	**8015B**	--	--	0.096 U	0.1 U	0.096 U	0.095 U
Diesel Range Organics (C15-C20)	**8015B**	--	--	0.096 U	0.1 U	0.096 U	0.095 U
Diesel Range Organics (C21-C30)	**8015B**	--	--	0.096 U	0.1 U	0.096 U	0.095 U
Diesel Range Organics (C8-C30)	**8015B**	--	--	0.096 U	0.1 U	0.096 U	0.095 U
Gasoline Range Organics (C6-C12)	**8015B**	0.01 U	0.01 U	0.1 U	0.019 J	0.01 U	0.01 U
Gasoline Range Organics (C8-C11)	**8015B**	--	--	0.096 U	0.1 U	0.096 U	0.095 U
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	--	--

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-37	RD-37	RD-38B	RD-38B	RD-39B	RD-39B
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-37_020117_01	RD-37_072617_01	RD-38B_020117_01	RD-38B_072717_01	RD-39B_011917_01	RD-39B_072817_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		2/1/2017	7/26/2017	2/1/2017	7/27/2017	1/19/2017	7/28/2017
Analyte (mg/L)	**Method**						
Diesel Range Organics (C12-C14)	**8015B**	0.1 U	0.096 U	0.095 U	0.095 U	0.1 U	0.095 U
Diesel Range Organics (C15-C20)	**8015B**	0.63	0.32	0.095 U	0.095 U	0.1 U	0.095 U
Diesel Range Organics (C21-C30)	**8015B**	0.1 U	0.096 U	0.095 U	0.095 U	0.1 U	0.095 U
Diesel Range Organics (C8-C30)	**8015B**	0.62	0.32	0.095 U	0.095 U	0.1 U	0.095 U
Gasoline Range Organics (C6-C12)	**8015B**	0.015 J	0.019 J	0.01 U	0.01 U	--	--
Gasoline Range Organics (C8-C11)	**8015B**	0.1 U	0.096 U	0.095 U	0.095 U	0.1 U	0.095 U
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	--	--

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-43A	RD-43A	RD-43B	RD-43B	RD-43B	RD-43B
Sample Type:		Primary	Primary	Primary	Field Duplicate	Primary	Field Duplicate
Sample Name:		RD-43A_012617_01	RD-43A_071917_01	RD-43B_012617_01	RD-43B_012617_36	RD-43B_071917_01	RD-43B_071917_36
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/26/2017	7/19/2017	1/26/2017	1/26/2017	7/19/2017	7/19/2017
Analyte (mg/L)	**Method**						
Diesel Range Organics (C12-C14)	**8015B**	0.1 U	0.099 U	0.097 U	0.096 U	0.095 U	0.095 UJ
Diesel Range Organics (C15-C20)	**8015B**	0.1 U	0.099 U	0.097 U	0.096 U	0.095 U	0.095 UJ
Diesel Range Organics (C21-C30)	**8015B**	0.1 U	0.099 U	0.097 U	0.096 U	0.095 U	0.095 UJ
Diesel Range Organics (C8-C30)	**8015B**	0.1 U	0.099 U	0.097 U	0.096 U	0.095 U	0.095 UJ
Gasoline Range Organics (C6-C12)	**8015B**	--	--	--	--	--	--
Gasoline Range Organics (C8-C11)	**8015B**	0.1 U	0.099 U	0.097 U	0.096 U	0.095 U	0.095 UJ
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	--	--

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-43C	RD-43C	RD-45A	RD-45A	RD-45B	RD-45B
Sample Type:		Primary	Primary	Primary	Primary	Primary	Field Duplicate
Sample Name:		RD-43C_012617_01	RD-43C_071917_01	RD-45A_012617_01	RD-45A_071917_01	RD-45B_012617_01	RD-45B_012617_36
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/26/2017	7/19/2017	1/26/2017	7/19/2017	1/26/2017	1/26/2017
Analyte (mg/L)	**Method**						
Diesel Range Organics (C12-C14)	**8015B**	0.096 U	0.095 UJ	0.096 U	0.097 U	0.097 U	0.096 U
Diesel Range Organics (C15-C20)	**8015B**	0.096 U	0.095 UJ	0.096 U	0.097 U	0.097 U	0.096 U
Diesel Range Organics (C21-C30)	**8015B**	0.096 U	0.095 UJ	0.096 U	0.097 U	0.097 U	0.096 U
Diesel Range Organics (C8-C30)	**8015B**	0.096 U	0.095 UJ	0.096 U	0.097 U	0.097 U	0.096 U
Gasoline Range Organics (C6-C12)	**8015B**	--	--	--	--	--	--
Gasoline Range Organics (C8-C11)	**8015B**	0.096 U	0.095 UJ	0.096 U	0.097 U	0.097 U	0.096 U
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	--	--

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-45B	RD-45C	RD-45C	RD-46A	RD-46B	RD-46B
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-45B_071917_01	RD-45C_012617_01	RD-45C_071917_01	RD-46A_080417_01	RD-46B_011717_01	RD-46B_072817_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/19/2017	1/26/2017	7/19/2017	8/4/2017	1/17/2017	7/28/2017
Analyte (mg/L)	**Method**						
Diesel Range Organics (C12-C14)	**8015B**	0.094 UJ	0.096 U	0.095 UJ	0.096 U	0.097 U	0.095 U
Diesel Range Organics (C15-C20)	**8015B**	0.094 UJ	0.096 U	0.095 UJ	0.096 U	0.097 U	0.095 U
Diesel Range Organics (C21-C30)	**8015B**	0.12 J	0.096 U	0.095 UJ	0.096 U	0.097 U	0.095 U
Diesel Range Organics (C8-C30)	**8015B**	0.14 J	0.096 U	0.095 UJ	0.11 J	0.097 U	0.095 U
Gasoline Range Organics (C6-C12)	**8015B**	--	--	--	--	--	--
Gasoline Range Organics (C8-C11)	**8015B**	0.094 UJ	0.096 U	0.095 R	0.096 U	0.097 U	0.095 U
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	--	--

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-48B	RD-48B	RD-48C	RD-48C	RD-50	RD-50
Sample Type:		Primary	Primary	Primary	Primary	Primary	Split
Sample Name:		RD-48B_012417_01	RD-48B_072517_01	RD-48C_012417_01	RD-48C_072517_01	RD-50_013017_01	RD-50_013017_03A
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	EMAX
Collection Date:		1/24/2017	7/25/2017	1/24/2017	7/25/2017	1/30/2017	1/30/2017
Analyte (mg/L)	**Method**						
Diesel Range Organics (C12-C14)	**8015B**	0.098 U	0.099 UJ	0.098 U	0.096 UJ	0.095 U	0.051 U
Diesel Range Organics (C15-C20)	**8015B**	0.098 U	0.099 UJ	0.098 U	0.096 UJ	0.095 U	0.051 U
Diesel Range Organics (C21-C30)	**8015B**	0.098 U	0.099 UJ	0.098 U	0.096 UJ	0.095 UJ	0.12 J
Diesel Range Organics (C8-C30)	**8015B**	0.098 U	0.099 UJ	0.098 U	0.096 UJ	0.095 UJ	0.14 J
Gasoline Range Organics (C6-C12)	**8015B**	--	--	--	--	0.1 U	0.01 U
Gasoline Range Organics (C8-C11)	**8015B**	0.098 U	0.099 R	0.098 U	0.096 R	0.095 U	0.051 U
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	0.095 U	0.051 U

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-51A	RD-51A	RD-51B	RD-51B	RD-51C	RD-51C
Sample Type:		Primary	Primary	Primary	Primary	Primary	Field Duplicate
Sample Name:		RD-51A_011917_01	RD-51A_072017_01	RD-51B_011917_01	RD-51B_072017_01	RD-51C_011917_01	RD-51C_011917_36
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/19/2017	7/20/2017	1/19/2017	7/20/2017	1/19/2017	1/19/2017
Analyte (mg/L)	**Method**						
Diesel Range Organics (C12-C14)	**8015B**	0.099 U	0.098 U	0.098 U	0.095 U	0.098 U	0.098 U
Diesel Range Organics (C15-C20)	**8015B**	0.099 U	0.098 U	0.098 U	0.095 U	0.098 U	0.098 U
Diesel Range Organics (C21-C30)	**8015B**	0.099 U	0.098 U	0.098 U	0.095 U	0.098 U	0.098 U
Diesel Range Organics (C8-C30)	**8015B**	0.099 U	0.098 U	0.098 U	0.095 U	0.098 U	0.098 U
Gasoline Range Organics (C6-C12)	**8015B**	--	--	--	--	--	--
Gasoline Range Organics (C8-C11)	**8015B**	0.099 U	0.098 U	0.098 U	0.095 U	0.098 U	0.098 U
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	--	--

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-51C	RD-52A	RD-52A	RD-52B	RD-52B	RD-52C
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-51C_072017_01	RD-52A_012417_01	RD-52A_072017_01	RD-52B_012417_01	RD-52B_072017_01	RD-52C_012417_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/20/2017	1/24/2017	7/20/2017	1/24/2017	7/20/2017	1/24/2017
Analyte (mg/L)	**Method**						
Diesel Range Organics (C12-C14)	**8015B**	0.095 U	0.097 U	0.097 U	0.097 U	0.097 U	0.099 U
Diesel Range Organics (C15-C20)	**8015B**	0.095 U	0.097 U	0.097 U	0.097 U	0.097 U	0.099 U
Diesel Range Organics (C21-C30)	**8015B**	0.095 U	0.097 U	0.097 U	0.097 U	0.097 U	0.099 U
Diesel Range Organics (C8-C30)	**8015B**	0.095 U	0.097 U	0.097 U	0.097 U	0.097 U	0.099 U
Gasoline Range Organics (C6-C12)	**8015B**	--	--	--	--	--	--
Gasoline Range Organics (C8-C11)	**8015B**	0.095 U	0.097 U	0.097 U	0.097 U	0.097 U	0.099 U
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	--	--

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-52C	RD-73	RD-73	RD-73	RD-73	RD-77
Sample Type:		Primary	Primary	Field Duplicate	Primary	Field Duplicate	Primary
Sample Name:		RD-52C_072017_01	RD-73_020217_01	RD-73_020217_36	RD-73_071717_01	RD-73_071717_36	RD-77_011917_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/20/2017	2/2/2017	2/2/2017	7/17/2017	7/17/2017	1/19/2017
Analyte (mg/L)	**Method**						
Diesel Range Organics (C12-C14)	**8015B**	0.095 U	--	--	--	--	0.098 U
Diesel Range Organics (C15-C20)	**8015B**	0.095 U	--	--	--	--	0.098 U
Diesel Range Organics (C21-C30)	**8015B**	0.095 U	--	--	--	--	0.098 U
Diesel Range Organics (C8-C30)	**8015B**	0.095 U	--	--	--	--	0.098 U
Gasoline Range Organics (C6-C12)	**8015B**	--	0.46 J	0.43 J	0.31 J	0.28 J	--
Gasoline Range Organics (C8-C11)	**8015B**	0.095 U	--	--	--	--	0.098 U
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	--	--

TABLE 14
FUEL HYDROCARBONS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-103 QA-15	RD-130	RS-30	RS-31	RS-32	RS-32
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-103 QA-15_012717_01	RD-130_011917_01	RS-30_071717_01A	RS-31_071717_01	RS-32_020217_01	RS-32_071717_01
Groundwater Unit:		Chatsworth	Chatsworth	Shallow	Shallow	Shallow	Shallow
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/27/2017	1/19/2017	7/17/2017	7/17/2017	2/2/2017	7/17/2017
Analyte (mg/L)	**Method**						
Diesel Range Organics (C12-C14)	**8015B**	--	--	--	--	--	--
Diesel Range Organics (C15-C20)	**8015B**	--	--	--	--	--	--
Diesel Range Organics (C21-C30)	**8015B**	--	--	--	--	--	--
Diesel Range Organics (C8-C30)	**8015B**	--	--	--	--	--	--
Gasoline Range Organics (C6-C12)	**8015B**	0.02 J	0.025 J	0.01 U	0.01 U	0.01 U	0.01 U
Gasoline Range Organics (C8-C11)	**8015B**	--	--	--	--	--	--
Oil Range Organics (C30-C40)	**8015B**	--	--	--	--	--	--

NOTES AND ABBREVIATIONS
Chatsworth - Chatsworth Formation groundwater unit
Shallow - Near-surface groundwater unit

mg/L - milligrams per liter

-- Not analyzed
MDL - method detection limit
RL - reporting limit
TA - TestAmerica

J - Estimated value. Result may receive a J flag for the following reasons:
- Routinely indicates that the analyte was detected at a level less than the RL and greater than or equal to the MDL.
- In some instances may indicate that minor quality control deficiencies may have slightly compromised result accuracy.

R - Result is rejected.
U - Not detected above the MDL or RL
UJ - The result is not detected; however, the RL/MDL is estimated

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		ES-29	HAR-01	HAR-01	HAR-03	HAR-04	HAR-16	HAR-16
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		ES-29_013017_01	HAR-01_012517_01	HAR-01_073117_01	HAR-03_072417_01	HAR-04_072517_01	HAR-16_012517_01	HAR-16_072817_01
Groundwater Unit:		Shallow	Chatsworth	Chatsworth	Shallow	Shallow	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/30/2017	1/25/2017	7/31/2017	7/24/2017	7/25/2017	1/25/2017	7/28/2017
Analyte (mg/L)	**Method**							
Ammonia-N	**350.1**	--	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.022 U
Ammonia-N	**4500-NH3-C**	--	--	--	--	--	--	--
Chloride	**300**	--	--	--	--	--	110	--
Cyanides	**9012**	--	0.0027 U	--	0.002 U	0.002 U	0.0038 U	--
Cyanides	**9014**	--	--	--	--	--	--	--
Fluoride	**300**	--	1	0.97 J	1.5	1.2	0.29 J	0.31 J
Nitrate-NO3 (µg/L)	**300**	16000	21000	25000	47000 J	56000 J	49000	27000
pH (pH Units)	**9040B**	--	7.6	7.4 J	6.9 J	7.5 J	7.5	7.2 J
Specific conductivity (µmhos/cm)	**2510B**	--	--	--	--	--	780	--
Sulfate	**300**	--	--	--	--	--	90	--
Sulfide	**4500**	--	0.007 U	--	0.007 U	0.007 U	0.007 U	--
Sulfide	**4500 S D**	--	--	--	--	--	--	--
Total Alkalinity	**2320B**	--	--	--	--	--	140	--
Total Dissolved Solids	**2540C**	--	--	--	--	--	540	--
Turbidity (NTU)	**180.1**	--	--	--	--	--	0.2 U	--

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-16	HAR-25	HAR-26	HAR-26	RD-03	RD-03	RD-03
Sample Type:		Split	Primary	Primary	Primary	Primary	Primary	Field Duplicate
Sample Name:		HAR-16_012517_03A	HAR-25_072817_01	HAR-26_020117_01	HAR-26_072617_01	RD-03_011817_01	RD-03_072417_01	RD-03_011817_36
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		EMAX	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/25/2017	7/28/2017	2/1/2017	7/26/2017	1/18/2017	7/24/2017	1/18/2017
Analyte (mg/L)	**Method**							
Ammonia-N	**350.1**	--	0.16 J	0.026 J	0.022 U	0.022 U	0.022 U	0.022 U
Ammonia-N	**4500-NH3-C**	0.06 U	--	--	--	--	--	--
Chloride	**300**	112	--	--	--	--	--	--
Cyanides	**9012**	--	--	0.0025 U	--	--	--	--
Cyanides	**9014**	0.005 U	--	--	--	--	--	--
Fluoride	**300**	0.263 J	1.3	0.94	0.79	0.31 J	0.25 U	0.31 J
Nitrate-NO3 (µg/L)	**300**	46300	10000	190 U	190 U	190 U	190 UJ	190 U
pH (pH Units)	**9040B**	6.5	7.5 J	8.4 J	8.4 J	8 J	7.5 J	7.9 J
Specific conductivity (µmhos/cm)	**2510B**	850	--	--	--	--	--	--
Sulfate	**300**	94.7	--	--	--	--	--	--
Sulfide	**4500**	--	--	0.007 U	--	--	--	--
Sulfide	**4500 S D**	0.02 U	--	--	--	--	--	--
Total Alkalinity	**2320B**	129	--	--	--	--	--	--
Total Dissolved Solids	**2540C**	575	--	--	--	--	--	--
Turbidity (NTU)	**180.1**	1 U	--	--	--	--	--	--

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-03	RD-06	RD-06	RD-08	RD-08	RD-08	RD-11
Sample Type:		Field Duplicate	Primary	Primary	Primary	Primary	Field Duplicate	Primary
Sample Name:		RD-03_072417_36	RD-06_011717_01	RD-06_071817_01	RD-08_012617_01	RD-08_072617_01	RD-08_072617_36	RD-11_012617_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/24/2017	1/17/2017	7/18/2017	1/26/2017	7/26/2017	7/26/2017	1/26/2017
Analyte (mg/L)	**Method**							
Ammonia-N	**350.1**	0.022 U	0.022 U	0.022 U	0.039 J	0.032 J	0.16 J	0.41 J
Ammonia-N	**4500-NH3-C**	--	--	--	--	--	--	--
Chloride	**300**	--	--	--	--	--	--	--
Cyanides	**9012**	--	--	--	0.002 U	--	--	0.002 U
Cyanides	**9014**	--	--	--	--	--	--	--
Fluoride	**300**	0.34 J	0.74	0.65	0.32 J	0.24 J	0.25 J	0.71
Nitrate-NO3 (µg/L)	**300**	190 UJ	190 U	190 U	190 U	240 J	190 U	190 U
pH (pH Units)	**9040B**	7.5 J	7.4 J	7.8	8.3	8.2 J	8.1 J	8.3
Specific conductivity (µmhos/cm)	**2510B**	--	--	--	--	--	--	--
Sulfate	**300**	--	--	--	--	--	--	--
Sulfide	**4500**	--	--	--	0.007 U	--	--	0.007 U
Sulfide	**4500 S D**	--	--	--	--	--	--	--
Total Alkalinity	**2320B**	--	--	--	--	--	--	--
Total Dissolved Solids	**2540C**	--	--	--	--	--	--	--
Turbidity (NTU)	**180.1**	--	--	--	--	--	--	--

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-11	RD-12	RD-12	RD-18	RD-36C	RD-36C	RD-36D
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-11_072417_01	RD-12_012717_01	RD-12_072717_01	RD-18_013017_01	RD-36C_012417_01	RD-36C_073117_01	RD-36D_012417_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/24/2017	1/27/2017	7/27/2017	1/30/2017	1/24/2017	7/31/2017	1/24/2017
Analyte (mg/L)	**Method**							
Ammonia-N	**350.1**	0.55	0.064 J	0.092 J	--	0.022 U	0.022 U	1.1
Ammonia-N	**4500-NH3-C**	--	--	--	--	--	--	--
Chloride	**300**	--	--	--	--	--	--	--
Cyanides	**9012**	--	0.002 U	--	--	--	--	--
Cyanides	**9014**	--	--	--	--	--	--	--
Fluoride	**300**	0.73	0.56	0.51	0.34 J	0.18 J	0.64 J	0.087 J
Nitrate-NO3 (µg/L)	**300**	190 U	190 U	190 U	--	190 U	190 U	190 U
pH (pH Units)	**9040B**	8.2 J	8.2	8 J	--	6 J	6.2 J	8.4 J
Specific conductivity (µmhos/cm)	**2510B**	--	--	--	--	--	--	--
Sulfate	**300**	--	--	--	--	--	--	--
Sulfide	**4500**	--	0.007 U	--	--	--	--	--
Sulfide	**4500 S D**	--	--	--	--	--	--	--
Total Alkalinity	**2320B**	--	--	--	--	--	--	--
Total Dissolved Solids	**2540C**	--	--	--	--	--	--	--
Turbidity (NTU)	**180.1**	--	--	--	--	--	--	--

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-36D	RD-37	RD-37	RD-38B	RD-38B	RD-39B	RD-39B
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-36D_073117_01	RD-37_020117_01	RD-37_072617_01	RD-38B_020117_01	RD-38B_072717_01	RD-39B_011917_01	RD-39B_072817_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/31/2017	2/1/2017	7/26/2017	2/1/2017	7/27/2017	1/19/2017	7/28/2017
Analyte (mg/L)	**Method**							
Ammonia-N	**350.1**	1.9	0.14 J	0.14 J	0.028 J	0.12 J	0.022 U	0.022 U
Ammonia-N	**4500-NH3-C**	--	--	--	--	--	--	--
Chloride	**300**	--	--	--	--	--	--	--
Cyanides	**9012**	--	--	--	--	--	--	--
Cyanides	**9014**	--	--	--	--	--	--	--
Fluoride	**300**	2.6 J	0.21 J	0.1 J	0.27 J	0.28 J	0.17 J	0.26 J
Nitrate-NO3 (µg/L)	**300**	190 U	190 U	190 U	190 U	190 U	190 U	190 U
pH (pH Units)	**9040B**	8.1 J	6.1 J	6.4 J	7.9 J	7.8 J	8.5 J	8.2 J
Specific conductivity (µmhos/cm)	**2510B**	--	--	--	--	--	--	--
Sulfate	**300**	--	--	--	--	--	--	--
Sulfide	**4500**	--	--	--	--	--	--	--
Sulfide	**4500 S D**	--	--	--	--	--	--	--
Total Alkalinity	**2320B**	--	--	--	--	--	--	--
Total Dissolved Solids	**2540C**	--	--	--	--	--	--	--
Turbidity (NTU)	**180.1**	--	--	--	--	--	--	--

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-43A	RD-43A	RD-43B	RD-43B	RD-43B	RD-43B	RD-43C
Sample Type:		Primary	Primary	Primary	Primary	Field Duplicate	Field Duplicate	Primary
Sample Name:		RD-43A_012617_01	RD-43A_071917_01	RD-43B_012617_01	RD-43B_071917_01	RD-43B_012617_36	RD-43B_071917_36	RD-43C_012617_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/26/2017	7/19/2017	1/26/2017	7/19/2017	1/26/2017	7/19/2017	1/26/2017
Analyte (mg/L)	**Method**							
Ammonia-N	**350.1**	0.022 U	0.022 UJ	0.04 J	0.061 J	0.036 J	0.056 J	0.079 J
Ammonia-N	**4500-NH3-C**	--	--	--	--	--	--	--
Chloride	**300**	--	--	--	--	--	--	--
Cyanides	**9012**	--	--	--	--	--	--	--
Cyanides	**9014**	--	--	--	--	--	--	--
Fluoride	**300**	0.51	0.4 J	0.36 J	0.32 J	0.36 J	0.33 J	0.47 J
Nitrate-NO3 (µg/L)	**300**	190 U	5000	190 U	190 U	190 U	190 UJ	190 U
pH (pH Units)	**9040B**	7.8	7.7 J	8	7.9 J	8	7.9 J	8
Specific conductivity (µmhos/cm)	**2510B**	--	--	--	--	--	--	--
Sulfate	**300**	--	--	--	--	--	--	--
Sulfide	**4500**	--	--	--	--	--	--	--
Sulfide	**4500 S D**	--	--	--	--	--	--	--
Total Alkalinity	**2320B**	--	--	--	--	--	--	--
Total Dissolved Solids	**2540C**	--	--	--	--	--	--	--
Turbidity (NTU)	**180.1**	--	--	--	--	--	--	--

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-43C	RD-45A	RD-45A	RD-45B	RD-45B	RD-45B	RD-45C
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Field Duplicate	Primary
	Sample Name:	RD-43C_071917_01	RD-45A_012617_01	RD-45A_071917_01	RD-45B_012617_01	RD-45B_071917_01	RD-45B_012617_36	RD-45C_012617_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/19/2017	1/26/2017	7/19/2017	1/26/2017	7/19/2017	1/26/2017	1/26/2017
Analyte (mg/L)	**Method**							
Ammonia-N	**350.1**	0.089 J	0.022 U	0.022 UJ	0.055 J	0.022 UJ	0.05 J	0.044 J
Ammonia-N	**4500-NH3-C**	--	--	--	--	--	--	--
Chloride	**300**	--	--	--	--	--	--	--
Cyanides	**9012**	--	--	--	--	--	--	--
Cyanides	**9014**	--	--	--	--	--	--	--
Fluoride	**300**	0.3 J	0.4 J	0.23 J	0.26 J	0.2 J	0.26 J	0.24 J
Nitrate-NO3 (µg/L)	**300**	190 UJ	190 U	190 U	190 U	190 U	190 U	190 U
pH (pH Units)	**9040B**	8 J	7.9	7.9 J	8.1	8 J	8.1	7.8
Specific conductivity (µmhos/cm)	**2510B**	--	--	--	--	--	--	--
Sulfate	**300**	--	--	--	--	--	--	--
Sulfide	**4500**	--	--	--	--	--	--	--
Sulfide	**4500 S D**	--	--	--	--	--	--	--
Total Alkalinity	**2320B**	--	--	--	--	--	--	--
Total Dissolved Solids	**2540C**	--	--	--	--	--	--	--
Turbidity (NTU)	**180.1**	--	--	--	--	--	--	--

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-45C	RD-46A	RD-46B	RD-46B	RD-48B	RD-48B	RD-48C
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-45C_071917_01	RD-46A_080417_01	RD-46B_011717_01	RD-46B_072817_01	RD-48B_012417_01	RD-48B_072517_01	RD-48C_012417_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/19/2017	8/4/2017	1/17/2017	7/28/2017	1/24/2017	7/25/2017	1/24/2017
Analyte (mg/L)	**Method**							
Ammonia-N	**350.1**	0.022 UJ	0.022 U	0.022 U	0.041 J	0.18 J	0.21 J	0.13 J
Ammonia-N	**4500-NH3-C**	--	--	--	--	--	--	--
Chloride	**300**	--	--	--	--	--	--	--
Cyanides	**9012**	--	--	--	--	--	--	--
Cyanides	**9014**	--	--	--	--	--	--	--
Fluoride	**300**	0.22 J	0.59	0.34 J	0.23 J	0.27 J	0.29 U	0.22 J
Nitrate-NO3 (µg/L)	**300**	200 J	190 U	190 U	190 U	190 U	190 U	190 U
pH (pH Units)	**9040B**	7.9 J	7.6 J	7.5 J	7.7 J	7.9 J	7.9 J	7.8 J
Specific conductivity (µmhos/cm)	**2510B**	--	--	--	--	--	--	--
Sulfate	**300**	--	--	--	--	--	--	--
Sulfide	**4500**	--	--	--	--	--	--	--
Sulfide	**4500 S D**	--	--	--	--	--	--	--
Total Alkalinity	**2320B**	--	--	--	--	--	--	--
Total Dissolved Solids	**2540C**	--	--	--	--	--	--	--
Turbidity (NTU)	**180.1**	--	--	--	--	--	--	--

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-48C	RD-51A	RD-51A	RD-51B	RD-51B	RD-51C	RD-51C
	Sample Type:	Primary	Primary	Primary	Primary	Primary	Primary	Primary
	Sample Name:	RD-48C_072517_01	RD-51A_011917_01	RD-51A_072017_01	RD-51B_011917_01	RD-51B_072017_01	RD-51C_011917_01	RD-51C_072017_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/25/2017	1/19/2017	7/20/2017	1/19/2017	7/20/2017	1/19/2017	7/20/2017
Analyte (mg/L)	**Method**							
Ammonia-N	**350.1**	0.15 J	0.022 U	0.022 U	0.08 J	0.088 J	0.084 J	0.098 J
Ammonia-N	**4500-NH3-C**	--	--	--	--	--	--	--
Chloride	**300**	--	--	--	--	--	--	--
Cyanides	**9012**	--	--	--	--	--	--	--
Cyanides	**9014**	--	--	--	--	--	--	--
Fluoride	**300**	0.23 U	0.27 J	0.36 J	0.23 J	0.3 J	0.13 J	0.22 J
Nitrate-NO3 (µg/L)	**300**	190 U	1700 J	3900	190 U	190 U	190 U	190 U
pH (pH Units)	**9040B**	7.9 J	7.8 J	8 J	7.9 J	8.2 J	8 J	8.1 J
Specific conductivity (µmhos/cm)	**2510B**	--	--	--	--	--	--	--
Sulfate	**300**	--	--	--	--	--	--	--
Sulfide	**4500**	--	--	--	--	--	--	--
Sulfide	**4500 S D**	--	--	--	--	--	--	--
Total Alkalinity	**2320B**	--	--	--	--	--	--	--
Total Dissolved Solids	**2540C**	--	--	--	--	--	--	--
Turbidity (NTU)	**180.1**	--	--	--	--	--	--	--

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-51C	RD-52A	RD-52A	RD-52B	RD-52B	RD-52C	RD-52C
Sample Type:		Field Duplicate	Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-51C_011917_36	RD-52A_012417_01	RD-52A_072017_01	RD-52B_012417_01	RD-52B_072017_01	RD-52C_012417_01	RD-52C_072017_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/19/2017	1/24/2017	7/20/2017	1/24/2017	7/20/2017	1/24/2017	7/20/2017
Analyte (mg/L)	**Method**							
Ammonia-N	**350.1**	0.095 J	0.26 J	0.25 J	0.035 J	0.045 J	0.022 U	0.022 U
Ammonia-N	**4500-NH3-C**	--	--	--	--	--	--	--
Chloride	**300**	--	--	--	--	--	--	--
Cyanides	**9012**	--	--	--	--	--	--	--
Cyanides	**9014**	--	--	--	--	--	--	--
Fluoride	**300**	0.14 J	0.3 J	0.47 J	0.11 J	0.19 J	0.19 J	0.24 J
Nitrate-NO3 (µg/L)	**300**	190 U	190 U	190 U	190 U	190 U	190 U	190 U
pH (pH Units)	**9040B**	8 J	7.5 J	8 J	7.9 J	8 J	7.7 J	8.1 J
Specific conductivity (µmhos/cm)	**2510B**	--	--	--	--	--	--	--
Sulfate	**300**	--	--	--	--	--	--	--
Sulfide	**4500**	--	--	--	--	--	--	--
Sulfide	**4500 S D**	--	--	--	--	--	--	--
Total Alkalinity	**2320B**	--	--	--	--	--	--	--
Total Dissolved Solids	**2540C**	--	--	--	--	--	--	--
Turbidity (NTU)	**180.1**	--	--	--	--	--	--	--

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-55A	RD-55B	RD-55B	RD-58A	RD-58A	RD-58B	RD-58B
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-55A_071817_01	RD-55B_012717_01	RD-55B_071817_01	RD-58A_012717_01	RD-58A_071817_01	RD-58B_012717_01	RD-58B_071817_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/18/2017	1/27/2017	7/18/2017	1/27/2017	7/18/2017	1/27/2017	7/18/2017
Analyte (mg/L)	**Method**							
Ammonia-N	**350.1**	0.022 U	0.5	0.37 J	0.022 U	0.022 U	0.022 U	0.031 J
Ammonia-N	**4500-NH3-C**	--	--	--	--	--	--	--
Chloride	**300**	--	--	--	--	--	--	--
Cyanides	**9012**	--	--	--	--	--	--	--
Cyanides	**9014**	--	--	--	--	--	--	--
Fluoride	**300**	0.35 J	0.72	0.6	0.59	0.32 J	0.64	0.41 J
Nitrate-NO3 (µg/L)	**300**	28000	190 U	190 U	190 U	190 U	190 U	190 U
pH (pH Units)	**9040B**	7.9	8.2	8.2	7.9	7.8	8.1	8
Specific conductivity (µmhos/cm)	**2510B**	--	--	--	--	--	--	--
Sulfate	**300**	--	--	--	--	--	--	--
Sulfide	**4500**	--	--	--	--	--	--	--
Sulfide	**4500 S D**	--	--	--	--	--	--	--
Total Alkalinity	**2320B**	--	--	--	--	--	--	--
Total Dissolved Solids	**2540C**	--	--	--	--	--	--	--
Turbidity (NTU)	**180.1**	--	--	--	--	--	--	--

TABLE 15
INORGANIC CONSTITUENTS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-58C	RD-58C	RD-77	SP-424C
Sample Type:		Primary	Primary	Primary	Primary
Sample Name:		RD-58C_012717_01	RD-58C_071817_01	RD-77_011917_01	SP-424C_020117_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/27/2017	7/18/2017	1/19/2017	2/1/2017
Analyte (mg/L)	**Method**				
Ammonia-N	**350.1**	0.11 J	0.14 J	0.022 U	--
Ammonia-N	**4500-NH3-C**	--	--	--	--
Chloride	**300**	--	--	28	--
Cyanides	**9012**	--	--	--	--
Cyanides	**9014**	--	--	--	--
Fluoride	**300**	0.49 J	0.32 J	0.17 J	2.7
Nitrate-NO3 (µg/L)	**300**	190 U	190 U	12000	--
pH (pH Units)	**9040B**	8.3	8.3	7.5 J	--
Specific conductivity (µmhos/cm)	**2510B**	--	--	620	--
Sulfate	**300**	--	--	69	--
Sulfide	**4500**	--	--	--	--
Sulfide	**4500 S D**	--	--	--	--
Total Alkalinity	**2320B**	--	--	230	--
Total Dissolved Solids	**2540C**	--	--	430	--
Turbidity (NTU)	**180.1**	--	--	3.1 J	--

NOTES AND ABBREVIATIONS

Chatsworth - Chatsworth Formation groundwater unit
Shallow - Near-surface groundwater unit

µmhos/cm - micromhos per centimeter
µg/L - micrograms per liter
mg/L - milligrams per liter
NTU - nephelometric turbidity units

-- Not analyzed
MDL - method detection limit
RL - reporting limit
TA - TestAmerica

J - Estimated value. Result may receive a J flag for the following reasons:
- Routinely indicates that the analyte was detected at a level less than the RL and greater than or equal to the MDL.
- In some instances may indicate that minor quality control deficiencies may have slightly compromised result accuracy.

U - Not detected above the MDL or RL
UJ - The result is not detected; however, the RL/MDL is estimated

TABLE 16
HYDRAZINES ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-01	HAR-01	HAR-03	HAR-04	HAR-16	HAR-16	HAR-16
Sample Type:		Primary	Primary	Primary	Primary	Primary	Split	Primary
Sample Name:		HAR-01_012517_01	HAR-01_073117_01	HAR-03_072417_01	HAR-04_072517_01	HAR-16_012517_01	HAR-16_012517_03A	HAR-16_072817_01
Groundwater Unit:		Chatsworth	Chatsworth	Shallow	Shallow	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	EMAX	TA- Denver
Collection Date:		1/25/2017	7/31/2017	7/24/2017	7/25/2017	1/25/2017	1/25/2017	7/28/2017
Analyte (µg/L)	**Method**							
1,1-Dimethylhydrazine	**8315A**	--	--	--	--	--	0.25 U	--
1,1-Dimethylhydrazine	**DV-WC-0077**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 UJ	--	1.9 U
Hydrazine	**8315A**	--	--	--	--	--	0.2 U	--
Hydrazine	**DV-WC-0077**	0.67 U	0.67 U	0.67 U	0.67 U	0.67 UJ	--	0.67 U
Monomethylhydrazine	**8315A**	--	--	--	--	--	0.25 U	--
Monomethylhydrazine	**DV-WC-0077**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	--	0.25 U

TABLE 16
HYDRAZINES ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-25	RD-03	RD-03	RD-03	RD-03	RD-06	RD-06
Sample Type:		Primary	Primary	Field Duplicate	Primary	Field Duplicate	Primary	Primary
Sample Name:		HAR-25_072817_01	RD-03_011817_01	RD-03_011817_36	RD-03_072417_01	RD-03_072417_36	RD-06_011717_01	RD-06_071817_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/28/2017	1/18/2017	1/18/2017	7/24/2017	7/24/2017	1/17/2017	7/18/2017
Analyte (µg/L)	**Method**							
1,1-Dimethylhydrazine	**8315A**	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	**DV-WC-0077**	1.9 U	1.9 U	1.9 U	1.9 UJ	1.9 UJ	1.9 UJ	1.9 U
Hydrazine	**8315A**	--	--	--	--	--	--	--
Hydrazine	**DV-WC-0077**	0.67 U	0.67 U	0.67 U	0.67 UJ	0.67 UJ	0.67 UJ	0.67 U
Monomethylhydrazine	**8315A**	--	--	--	--	--	--	--
Monomethylhydrazine	**DV-WC-0077**	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 UJ	0.25 U	0.25 U

TABLE 16
HYDRAZINES ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-36C	RD-36C	RD-36D	RD-36D	RD-37	RD-37	RD-38B
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-36C_012417_01	RD-36C_073117_01	RD-36D_012417_01	RD-36D_073117_01	RD-37_020117_01	RD-37_072617_01	RD-38B_020117_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/24/2017	7/31/2017	1/24/2017	7/31/2017	2/1/2017	7/26/2017	2/1/2017
Analyte (µg/L)	**Method**							
1,1-Dimethylhydrazine	**8315A**	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	**DV-WC-0077**	9.5 U	1.9 U	1.9 U	1.9 U	5.7 U	1.9 UJ	1.9 U
Hydrazine	**8315A**	--	--	--	--	--	--	--
Hydrazine	**DV-WC-0077**	3.4 U	0.67 U	0.67 U	0.67 U	2 U	0.67 UJ	0.67 U
Monomethylhydrazine	**8315A**	--	--	--	--	--	--	--
Monomethylhydrazine	**DV-WC-0077**	1.2 U	0.25 U	0.25 U	0.25 U	0.74 U	0.25 UJ	0.25 U

TABLE 16
HYDRAZINES ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-38B	RD-39B	RD-39B	RD-43A	RD-43A	RD-43B	RD-43B
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary	Field Duplicate
Sample Name:		RD-38B_072717_01	RD-39B_011917_01	RD-39B_072817_01	RD-43A_012617_01	RD-43A_071917_01	RD-43B_012617_01	RD-43B_012617_36
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/27/2017	1/19/2017	7/28/2017	1/26/2017	7/19/2017	1/26/2017	1/26/2017
Analyte (µg/L)	**Method**							
1,1-Dimethylhydrazine	**8315A**	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	**DV-WC-0077**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Hydrazine	**8315A**	--	--	--	--	--	--	--
Hydrazine	**DV-WC-0077**	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Monomethylhydrazine	**8315A**	--	--	--	--	--	--	--
Monomethylhydrazine	**DV-WC-0077**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 16
HYDRAZINES ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-43B	RD-43B	RD-43C	RD-43C	RD-45A	RD-45A	RD-45B
Sample Type:		Primary	Field Duplicate	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-43B_071917_01	RD-43B_071917_36	RD-43C_012617_01	RD-43C_071917_01	RD-45A_012617_01	RD-45A_071917_01	RD-45B_012617_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/19/2017	7/19/2017	1/26/2017	7/19/2017	1/26/2017	7/19/2017	1/26/2017
Analyte (µg/L)	**Method**							
1,1-Dimethylhydrazine	**8315A**	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	**DV-WC-0077**	1.9 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Hydrazine	**8315A**	--	--	--	--	--	--	--
Hydrazine	**DV-WC-0077**	0.67 U	0.67 UJ	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Monomethylhydrazine	**8315A**	--	--	--	--	--	--	--
Monomethylhydrazine	**DV-WC-0077**	0.25 U	0.25 UJ	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 16
HYDRAZINES ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-45B	RD-45B	RD-45C	RD-45C	RD-46A	RD-46B	RD-46B
Sample Type:		Field Duplicate	Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-45B_012617_36	RD-45B_071917_01	RD-45C_012617_01	RD-45C_071917_01	RD-46A_080417_01	RD-46B_011717_01	RD-46B_072817_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/26/2017	7/19/2017	1/26/2017	7/19/2017	8/4/2017	1/17/2017	7/28/2017
Analyte (µg/L)	**Method**							
1,1-Dimethylhydrazine	**8315A**	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	**DV-WC-0077**	1.9 U	1.9 U	1.9 UJ	1.9 UJ	1.9 UJ	1.9 U	1.9 U
Hydrazine	**8315A**	--	--	--	--	--	--	--
Hydrazine	**DV-WC-0077**	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Monomethylhydrazine	**8315A**	--	--	--	--	--	--	--
Monomethylhydrazine	**DV-WC-0077**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 16
HYDRAZINES ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-48B	RD-48B	RD-48C	RD-48C	RD-51A	RD-51A	RD-51B
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-48B_012417_01	RD-48B_072517_01	RD-48C_012417_01	RD-48C_072517_01	RD-51A_011917_01	RD-51A_072017_01	RD-51B_011917_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/24/2017	7/25/2017	1/24/2017	7/25/2017	1/19/2017	7/20/2017	1/19/2017
Analyte (µg/L)	**Method**							
1,1-Dimethylhydrazine	**8315A**	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	**DV-WC-0077**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Hydrazine	**8315A**	--	--	--	--	--	--	--
Hydrazine	**DV-WC-0077**	0.67 U	0.67 U	2.2 J	0.67 U	0.67 U	0.67 U	0.67 U
Monomethylhydrazine	**8315A**	--	--	--	--	--	--	--
Monomethylhydrazine	**DV-WC-0077**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 16
HYDRAZINES ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-51B	RD-51C	RD-51C	RD-51C	RD-52A	RD-52A	RD-52B
	Sample Type:	Primary	Primary	Field Duplicate	Primary	Primary	Primary	Primary
	Sample Name:	RD-51B_072017_01	RD-51C_011917_01	RD-51C_011917_36	RD-51C_072017_01	RD-52A_012417_01	RD-52A_072017_01	RD-52B_012417_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	7/20/2017	1/19/2017	1/19/2017	7/20/2017	1/24/2017	7/20/2017	1/24/2017
Analyte (µg/L)	**Method**							
1,1-Dimethylhydrazine	**8315A**	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	**DV-WC-0077**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Hydrazine	**8315A**	--	--	--	--	--	--	--
Hydrazine	**DV-WC-0077**	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Monomethylhydrazine	**8315A**	--	--	--	--	--	--	--
Monomethylhydrazine	**DV-WC-0077**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 16
HYDRAZINES ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-52B	RD-52C	RD-52C	RD-55A	RD-55B	RD-55B	RD-58A
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-52B_072017_01	RD-52C_012417_01	RD-52C_072017_01	RD-55A_071817_01	RD-55B_012717_01	RD-55B_071817_01	RD-58A_012717_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/20/2017	1/24/2017	7/20/2017	7/18/2017	1/27/2017	7/18/2017	1/27/2017
Analyte (µg/L)	**Method**							
1,1-Dimethylhydrazine	**8315A**	--	--	--	--	--	--	--
1,1-Dimethylhydrazine	**DV-WC-0077**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Hydrazine	**8315A**	--	--	--	--	--	--	--
Hydrazine	**DV-WC-0077**	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Monomethylhydrazine	**8315A**	--	--	--	--	--	--	--
Monomethylhydrazine	**DV-WC-0077**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

TABLE 16
HYDRAZINES ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-58A	RD-58B	RD-58B	RD-58C	RD-58C	RD-77
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-58A_071817_01	RD-58B_012717_01	RD-58B_071817_01	RD-58C_012717_01	RD-58C_071817_01	RD-77_011917_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/18/2017	1/27/2017	7/18/2017	1/27/2017	7/18/2017	1/19/2017
Analyte (µg/L)	**Method**						
1,1-Dimethylhydrazine	**8315A**	--	--	--	--	--	--
1,1-Dimethylhydrazine	**DV-WC-0077**	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Hydrazine	**8315A**	--	--	--	--	--	--
Hydrazine	**DV-WC-0077**	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Monomethylhydrazine	**8315A**	--	--	--	--	--	--
Monomethylhydrazine	**DV-WC-0077**	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

NOTES AND ABBREVIATIONS

Chatsworth - Chatsworth Formation groundwater unit
Shallow - Near-surface groundwater unit

µg/L - micrograms per liter

-- Not analyzed
MDL - method detection limit
RL - reporting limit
TA - TestAmerica

J - Estimated value. Result may receive a J flag for the following reasons:
- Routinely indicates that the analyte was detected at a level less than the RL and greater than or equal to the MDL.
- In some instances may indicate that minor quality control deficiencies may have slightly compromised result accuracy.

U - Not detected above the MDL or RL
UJ - The result is not detected; however, the RL/MDL is estimated

TABLE 17
RADIOCHEMISTRY ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-13	RD-13	RD-13	RD-18	RD-18	RD-18
Sample Type:		Primary	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-13_013117_01	RD-13_013117_01	RD-13_013117_01	RD-18_013017_01	RD-18_013017_01	RD-18_013017_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		1/31/2017	1/31/2017	1/31/2017	1/30/2017	1/30/2017	1/30/2017
Type:		Activity	Error	MDA	Activity	Error	MDA
Analyte (pCi/L)	**Method**						
Antimony-125, Dissolved	**901.1**	0.99 U	7	11	-4 U	7.8	11
Antimony-125, Particulate	**901.1**	-0.6 U	3.1	4.6	0.47 U	1.9	3
Barium-133, Dissolved	**901.1**	2.4 U	3.6	5.8	-0.19 U	3.8	5.6
Barium-133, Particulate	**901.1**	0.004 U	1.4	2	0.39 U	0.96	1.3
Cesium-134, Dissolved	**901.1**	-0.15 U	2.1	3.9	-2.1 U	3.4	4.3
Cesium-134, Particulate	**901.1**	0.3 U	0.91	1.7	-0.035 U	1	1
Cesium-137, Dissolved	**901.1**	3.1 U	3.1	5.7	4.2 U	3	5.8
Cesium-137, Particulate	**901.1**	0.034 U	1.5	2.2	0.54 U	0.82	1.4
Cobalt-60, Dissolved	**901.1**	2.2 U	3.3	6.1	3 U	3	6.1
Cobalt-60, Particulate	**901.1**	0.72 U	1.5	2.8	0.86 U	1.2	2
Europium-152, Dissolved	**901.1**	-3.1 U	9.9	12	-6.5 U	11	12
Europium-152, Particulate	**901.1**	-4.6 U	4.3	2.4	1.2 U	2.7	2.4
Europium-154, Dissolved	**901.1**	-3.8 U	11	6.1	-3.7 U	9	6.1
Europium-154, Particulate	**901.1**	-1 U	4.1	1.2	0.52 U	1.6	1.3
Europium-155, Dissolved	**901.1**	3.9 U	7.8	8	0.98 U	5.3	8.2
Europium-155, Particulate	**901.1**	-1.6 U	1.6	1.9	-1.4 U	1.6	1.5
Gross Alpha, Dissolved	**900.0**	11	2.9	2.1	11	2.2	2
Gross alpha, Particulate	**900.0**	-0.16 U	0.28	0.72	0.55 U	0.36	0.62
Gross Beta, Dissolved	**900.0**	7.6	2.4	4.2	7	1.3	2
Gross beta, Particulate	**900.0**	0.031 U	0.54	1.2	1.3 J	0.61	1.2
Manganese-54, Dissolved	**901.1**	2 U	2.7	5	-3.1 U	3.2	3.9
Manganese-54, Particulate	**901.1**	-1.1 U	1.7	2.1	-0.3 U	1.1	1.5
Potassium-40, Dissolved	**901.1**	28 U	37	62	11 U	35	58
Potassium-40, Particulate	**901.1**	10 U	18	34	-1.1 U	7.4	20
Sodium-22, Dissolved	**901.1**	-1.4 U	3.8	5.7	-1.3 U	3.2	4.7
Sodium-22, Particulate	**901.1**	-0.37 U	1.4	2.4	0.19 U	0.59	1.6
Strontium-90, Dissolved	**905.0**	-0.054 U	0.4	0.87	0.46 U	0.44	0.89
Strontium-90, Particulate	**905.0**	0.45 U	0.36	0.71	0.68 U	0.39	0.76
Tritium	**906.0**	90 U	150	260	-190 U	150	260
Uranium-233/234, Dissolved	**908.0**	2.2 J	0.55	0.18	8.8 J	1.3	0.15
Uranium-233/234, Dissolved	**HASL 300**	--	--	--	--	--	--
Uranium-233/234, Particulate	**908.0**	0.22 U	0.3	0.47	0.27 U	0.21	0.24
Uranium-233/234, Particulate	**HASL 300**	--	--	--	--	--	--
Uranium-235, Dissolved	**908.0**	0.21 UJ	0.18	0.21	0.48 J	0.25	0.19
Uranium-235, Dissolved	**HASL 300**	--	--	--	--	--	--
Uranium-235, Particulate	**908.0**	-0.016 U	0.18	0.39	-0.015 U	0.086	0.2
Uranium-235, Particulate	**HASL 300**	--	--	--	--	--	--
Uranium-238, Dissolved	**908.0**	2.5 J	0.6	0.13	7.5 J	1.2	0.1
Uranium-238, Dissolved	**HASL 300**	--	--	--	--	--	--
Uranium-238, Particulate	**908.0**	0.011 U	0.16	0.45	0.14 U	0.15	0.21
Uranium-238, Particulate	**HASL 300**	--	--	--	--	--	--
Sum of dissolved isotopic uranium activ	**Calculated**	4.7	--	--	16.78	--	--
Sum of particulate isotopic uranium acti	**Calculated**	ND	--	--	ND	--	--
Adjusted dissolved gross alpha	**Calculated**	6.3	--	--	< 0	--	--
Adjusted particulate gross alpha	**Calculated**	ND	--	--	ND	--	--

TABLE 17
RADIOCHEMISTRY ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	RD-50	RD-50	RD-50	RD-50	RD-50	RD-50
	Sample Type:	Primary	Primary	Primary	Split	Split	Split
	Sample Name:	RD-50_013017_01	RD-50_013017_01	RD-50_013017_01	RD-50_013017_03A	RD-50_013017_03A	RD-50_013017_03A
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver	EMAX	EMAX	EMAX
	Collection Date:	1/30/2017	1/30/2017	1/30/2017	1/30/2017	1/30/2017	1/30/2017
	Type:	Activity	Error	MDA	Activity	Error	MDA
Analyte (pCi/L)	**Method**						
Antimony-125, Dissolved	**901.1**	-5.8 U	7.9	8.2	-1.18 U	4.6	7.44
Antimony-125, Particulate	**901.1**	-1.6 U	3.2	4.6	-0.761 U	4.84	8.74
Barium-133, Dissolved	**901.1**	-0.41 U	3.2	4.2	-1.5 U	2.03	3.13
Barium-133, Particulate	**901.1**	-0.64 U	1.4	1.9	-1.99 U	2.71	4.09
Cesium-134, Dissolved	**901.1**	0.69 U	2.4	3.5	-0.155 U	1.95	3.36
Cesium-134, Particulate	**901.1**	-0.57 U	1.2	1.8	-2.31 U	2.26	3.55
Cesium-137, Dissolved	**901.1**	-0.34 U	2	3.4	-0.537 U	1.45	2.57
Cesium-137, Particulate	**901.1**	0.46 U	1.5	2.2	-0.634 U	1.86	3.28
Cobalt-60, Dissolved	**901.1**	0.29 U	0.96	4.2	1.65 U	1.82	3.62
Cobalt-60, Particulate	**901.1**	0.97 U	1.6	3.1	1.1 U	1.99	4.19
Europium-152, Dissolved	**901.1**	-10 U	11	6.8	1.81 U	4.74	9.02
Europium-152, Particulate	**901.1**	-1.9 U	4.2	2.5	-1.23 U	5.06	9.1
Europium-154, Dissolved	**901.1**	-5.6 U	8.4	3.5	0.433 U	3.54	7.26
Europium-154, Particulate	**901.1**	2.9 U	4.3	1.3	0.879 U	5.65	11.3
Europium-155, Dissolved	**901.1**	-2.5 U	4.7	4.9	-0.16 U	6.2	10.8
Europium-155, Particulate	**901.1**	-0.092 U	1.6	2	6.83 U	7.42	13.1
Gross Alpha, Dissolved	**900.0**	3.4 J	1.8	3.1	15	2.22	2.28
Gross alpha, Particulate	**900.0**	-0.054 U	0.25	0.61	1.76 U	1.71	2.68
Gross Beta, Dissolved	**900.0**	4.7	1.1	1.8	12.6	1.05	1.21
Gross beta, Particulate	**900.0**	0 U	0.53	1.1	-0.178 U	1.04	2.08
Manganese-54, Dissolved	**901.1**	0.64 U	2.2	4	0.0302 U	1.63	2.68
Manganese-54, Particulate	**901.1**	0.37 U	0.51	2.4	-0.488 U	1.66	2.94
Potassium-40, Dissolved	**901.1**	4 U	30	50	7.12 U	41.2	28.4
Potassium-40, Particulate	**901.1**	15 U	16	26	4.55 U	29.3	52.8
Sodium-22, Dissolved	**901.1**	0.28 U	2.6	4.3	0.209 U	1.26	2.6
Sodium-22, Particulate	**901.1**	1 U	1.5	3	-0.596 U	2.09	3.92
Strontium-90, Dissolved	**905.0**	0.22 U	0.37	0.78	-0.502 U	0.584	1.24
Strontium-90, Particulate	**905.0**	0.61 U	0.38	0.75	0.572 U	0.78	1.33
Tritium	**906.0**	18 U	150	260	-30.8 U	81.4	150
Uranium-233/234, Dissolved	**908.0**	3.2 J	0.63	0.15	--	--	--
Uranium-233/234, Dissolved	**HASL 300**	--	--	--	10 J	2.64	1.33
Uranium-233/234, Particulate	**908.0**	0.2 U	0.25	0.37	--	--	--
Uranium-233/234, Particulate	**HASL 300**	--	--	--	0.433 U	0.862	1.4
Uranium-235, Dissolved	**908.0**	0.19 J	0.15	0.14	--	--	--
Uranium-235, Dissolved	**HASL 300**	--	--	--	1.01 U	1.03	1.02
Uranium-235, Particulate	**908.0**	0.12 U	0.19	0.28	--	--	--
Uranium-235, Particulate	**HASL 300**	--	--	--	0.525 U	0.9	0.788
Uranium-238, Dissolved	**908.0**	1.9 J	0.46	0.18	--	--	--
Uranium-238, Dissolved	**HASL 300**	--	--	--	8.99	2.51	1.33
Uranium-238, Particulate	**908.0**	0.18 U	0.22	0.31	--	--	--
Uranium-238, Particulate	**HASL 300**	--	--	--	0.272 U	0.749	1.3
Sum of dissolved isotopic uranium activ	**Calculated**	5.29	--	--	18.99	--	--
Sum of particulate isotopic uranium acti	**Calculated**	ND	--	--	ND	--	--
Adjusted dissolved gross alpha	**Calculated**	< 0	--	--	< 0	--	--
Adjusted particulate gross alpha	**Calculated**	ND	--	--	ND	--	--

TABLE 17
RADIOCHEMISTRY ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

	Well Identifier:	SP-424C	SP-424C	SP-424C
	Sample Type:	Primary	Primary	Primary
	Sample Name:	SP-424C_020117_01	SP-424C_020117_01	SP-424C_020117_01
	Groundwater Unit:	Chatsworth	Chatsworth	Chatsworth
	Lab Name:	TA- Denver	TA- Denver	TA- Denver
	Collection Date:	2/1/2017	2/1/2017	2/1/2017
	Type:	Activity	Error	MDA
Analyte (pCi/L)	**Method**			
Antimony-125, Dissolved	**901.1**	1.3 U	5.6	8.9
Antimony-125, Particulate	**901.1**	-0.32 U	1.6	2.4
Barium-133, Dissolved	**901.1**	-0.93 U	3.1	4.5
Barium-133, Particulate	**901.1**	-0.6 U	1.1	0.89
Cesium-134, Dissolved	**901.1**	-0.99 U	2.6	3.8
Cesium-134, Particulate	**901.1**	-0.033 U	0.52	1.1
Cesium-137, Dissolved	**901.1**	1.3 U	2.7	4.4
Cesium-137, Particulate	**901.1**	0.16 U	0.68	1.2
Cobalt-60, Dissolved	**901.1**	0.86 U	2.3	2.9
Cobalt-60, Particulate	**901.1**	0.61 U	0.87	1.6
Europium-152, Dissolved	**901.1**	1.4 U	10	9.9
Europium-152, Particulate	**901.1**	-1.2 U	2.5	1.9
Europium-154, Dissolved	**901.1**	1.9 U	3.8	5.2
Europium-154, Particulate	**901.1**	-0.44 U	2.5	0.89
Europium-155, Dissolved	**901.1**	-4.3 U	5.9	6.8
Europium-155, Particulate	**901.1**	0.35 U	0.96	1.1
Gross Alpha, Dissolved	**900.0**	1.6 U	1.3	2.3
Gross alpha, Particulate	**900.0**	1.6	0.44	0.4
Gross Beta, Dissolved	**900.0**	3.2	1.1	2
Gross beta, Particulate	**900.0**	2.7	0.67	1.1
Manganese-54, Dissolved	**901.1**	-1.5 U	2.4	3.2
Manganese-54, Particulate	**901.1**	-0.2 U	0.63	0.98
Potassium-40, Dissolved	**901.1**	28 U	26	51
Potassium-40, Particulate	**901.1**	6.2 U	8.3	16
Sodium-22, Dissolved	**901.1**	0.68 U	1.4	2.8
Sodium-22, Particulate	**901.1**	-0.26 U	0.89	1.4
Strontium-90, Dissolved	**905.0**	0.24 U	0.44	0.92
Strontium-90, Particulate	**905.0**	0.56 U	0.34	0.67
Tritium	**906.0**	53 U	150	250
Uranium-233/234, Dissolved	**908.0**	1 J	0.37	0.15
Uranium-233/234, Dissolved	**HASL 300**	--	--	--
Uranium-233/234, Particulate	**908.0**	0.13 UJ	0.14	0.2
Uranium-233/234, Particulate	**HASL 300**	--	--	--
Uranium-235, Dissolved	**908.0**	-0.02 UJ	0.08	0.21
Uranium-235, Dissolved	**HASL 300**	--	--	--
Uranium-235, Particulate	**908.0**	0.032 UJ	0.09	0.19
Uranium-235, Particulate	**HASL 300**	--	--	--
Uranium-238, Dissolved	**908.0**	0.79 J	0.32	0.13
Uranium-238, Dissolved	**HASL 300**	--	--	--
Uranium-238, Particulate	**908.0**	0.14 UJ	0.13	0.15
Uranium-238, Particulate	**HASL 300**	--	--	--
Sum of dissolved isotopic uranium activ	**Calculated**	1.79	--	--
Sum of particulate isotopic uranium acti	**Calculated**	ND	--	--
Adjusted dissolved gross alpha	**Calculated**	ND	--	--
Adjusted particulate gross alpha	**Calculated**	1.6	--	--

NOTES AND ABBREVIATIONS

Chatsworth - Chatsworth Formation groundwater unit

pCi/L - picocuries per liter

-- Not analyzed
MDA - minimal detectable activity
ND - not detected
RL - reporting limit
TA - TestAmerica

J - Estimated value. Result may receive a J flag for the following reasons:
- Routinely indicates that the analyte was detected at a level less than the RL and greater than or equal to the MDA.
- In some instances may indicate that minor quality control deficiencies r slightly compromised result accuracy.

U - Not detected above the MDA or RL
UJ - The result is not detected; however, the reported value is estimated.

TABLE 18
METALS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-01	HAR-03	HAR-04	HAR-16	HAR-16
Sample Type:		Primary	Primary	Primary	Primary	Split
Sample Name:		HAR-01_012517_01	HAR-03_072417_01	HAR-04_072517_01	HAR-16_012517_01	HAR-16_012517_03A
Groundwater Unit:		Chatsworth	Shallow	Shallow	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	EMAX
Collection Date:		1/25/2017	7/24/2017	7/25/2017	1/25/2017	1/25/2017
Analyte (mg/L)	**Method**					
Antimony	**6020**	0.0004 U	0.0007 J	0.0004 U	0.0004 U	--
Antimony	**6020A**	--	--	--	--	0.0005 U
Antimony, Dissolved	**6020**	0.0004 U	0.0009 J	0.0004 U	0.0004 U	--
Antimony, Dissolved	**6020A**	--	--	--	--	0.0005 U
Arsenic	**6020**	0.00098 J	0.00034 J	0.00039 J	0.00062 J	--
Arsenic	**6020A**	--	--	--	--	0.000641 J
Arsenic, Dissolved	**6020**	0.00076 J	0.00034 J	0.00042 J	0.00049 J	--
Arsenic, Dissolved	**6020A**	--	--	--	--	0.000633 J
Barium	**6020**	0.034	0.037	0.046	0.026	--
Barium	**6020A**	--	--	--	--	0.0296
Barium, Dissolved	**6020**	0.034	0.037	0.048	0.028	--
Barium, Dissolved	**6020A**	--	--	--	--	0.0305
Beryllium	**6020**	0.00029 U	0.00008 J	0.00008 U	0.00008 U	--
Beryllium	**6020A**	--	--	--	--	0.0001 U
Beryllium, Dissolved	**6020**	0.00018 J	0.000097 J	0.00008 U	0.00024 J	--
Beryllium, Dissolved	**6020A**	--	--	--	--	0.0001 U
Cadmium	**6020**	0.00027 U	0.00027 U	0.00027 U	0.00027 U	--
Cadmium	**6020A**	--	--	--	--	0.0002 U
Cadmium, Dissolved	**6020**	0.00027 U	0.00027 U	0.00027 U	0.00027 U	--
Cadmium, Dissolved	**6020A**	--	--	--	--	0.0002 U
Calcium	**6010B**	--	--	--	83	--
Calcium	**6020A**	--	--	--	--	90.4
Calcium, Dissolved	**6010B**	--	--	--	84	--
Calcium, Dissolved	**6020A**	--	--	--	--	88.6
Chromium	**6020**	0.0028 J	0.0005 U	0.00057 J	0.0005 U	--
Chromium	**6020A**	--	--	--	--	0.0002 U
Chromium, Dissolved	**6020**	0.0028 J	0.0005 U	0.0005 U	0.0005 U	--
Chromium, Dissolved	**6020A**	--	--	--	--	0.0002 U
Cobalt	**6020**	0.000054 U	0.000091 J	0.000054 U	0.000054 J	--
Cobalt	**6020A**	--	--	--	--	0.0002 U
Cobalt, Dissolved	**6020**	0.000054 U	0.000054 U	0.000054 U	0.000054 U	--
Cobalt, Dissolved	**6020A**	--	--	--	--	0.0002 U
Copper	**6020**	0.00056 U	0.00056 U	0.00056 U	0.00056 U	--
Copper	**6020A**	--	--	--	--	0.000856 J
Copper, Dissolved	**6020**	0.0018 J	0.0015 J	0.002	0.0012 J	--
Copper, Dissolved	**6020A**	--	--	--	--	0.00103 J
Iron	**6010B**	--	--	--	0.033 U	--
Iron	**6020A**	--	--	--	--	0.0105 J
Iron, Dissolved	**6010B**	--	--	--	0.022 U	--
Iron, Dissolved	**6020A**	--	--	--	--	0.01 U
Lead	**6020**	0.00018 U	0.00018 U	0.00018 U	0.00018 U	--
Lead	**6020A**	--	--	--	--	0.0001 U
Lead, Dissolved	**6020**	0.00018 U	0.00019 J	0.00018 U	0.00018 U	--
Lead, Dissolved	**6020A**	--	--	--	--	0.0001 U
Magnesium	**6010B**	--	--	--	16	--
Magnesium	**6020A**	--	--	--	--	17
Magnesium, Dissolved	**6010B**	--	--	--	17	--
Magnesium, Dissolved	**6020A**	--	--	--	--	16.5
Manganese	**6010B**	--	--	--	0.00074 U	--
Manganese	**6020A**	--	--	--	--	0.000264 U
Manganese, Dissolved	**6010B**	--	--	--	0.00071 U	--
Manganese, Dissolved	**6020A**	--	--	--	--	0.000227 U
Mercury	**7470A**	0.000027 UJ	0.000027 U	0.000027 U	0.000027 UJ	0.0001 U
Mercury, Dissolved	**7470A**	0.000027 UJ	0.000027 U	0.000027 U	0.000027 UJ	0.0001 U
Nickel	**6020**	0.00074 J	0.00056 U	0.0003 U	0.0009 J	--
Nickel	**6020A**	--	--	--	--	0.00115 J
Nickel, Dissolved	**6020**	0.0015 J	0.00058 J	0.00031 J	0.0014 J	--
Nickel, Dissolved	**6020A**	--	--	--	--	0.00106 J
Potassium	**6010B**	--	--	--	2.2 J	--
Potassium	**6020A**	--	--	--	--	1.65 U

TABLE 18
METALS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-01	HAR-03	HAR-04	HAR-16	HAR-16
Sample Type:		Primary	Primary	Primary	Primary	Split
Sample Name:		HAR-01_012517_01	HAR-03_072417_01	HAR-04_072517_01	HAR-16_012517_01	HAR-16_012517_03A
Groundwater Unit:		Chatsworth	Shallow	Shallow	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	EMAX
Collection Date:		1/25/2017	7/24/2017	7/25/2017	1/25/2017	1/25/2017
Analyte (mg/L)	**Method**					
Potassium, Dissolved	**6010B**	--	--	--	2.1 J	--
Potassium, Dissolved	**6020A**	--	--	--	--	1.64
Selenium	**6020**	0.0068	0.0007 U	0.0007 U	0.0025 J	--
Selenium	**6020A**	--	--	--	--	0.00327
Selenium, Dissolved	**6020**	0.0075	0.0007 U	0.0007 U	0.0029 J	--
Selenium, Dissolved	**6020A**	--	--	--	--	0.00319
Silver	**6020**	0.000033 U	0.000033 U	0.000033 U	0.000033 U	--
Silver	**6020A**	--	--	--	--	0.0002 U
Silver, Dissolved	**6020**	0.000033 U	0.000036 J	0.000033 U	0.000033 U	--
Silver, Dissolved	**6020A**	--	--	--	--	0.0002 U
Sodium	**6010B**	--	--	--	61	--
Sodium	**6020A**	--	--	--	--	61
Sodium, Dissolved	**6010B**	--	--	--	65 U	--
Sodium, Dissolved	**6020A**	--	--	--	--	59
Strontium	**6010B**	--	--	--	0.36	--
Strontium	**6020A**	--	--	--	--	0.387
Strontium, Dissolved	**6010B**	--	--	--	0.38	--
Strontium, Dissolved	**6020A**	--	--	--	--	0.392
Thallium	**6020**	0.000093 U	0.00012 U	0.000075 U	0.000066 U	--
Thallium	**6020A**	--	--	--	--	0.0002 U
Thallium, Dissolved	**6020**	0.000065 J	0.00015 J	0.000084 J	0.000059 J	--
Thallium, Dissolved	**6020A**	--	--	--	--	0.0002 U
Tin	**6020**	0.00077 U	0.00077 U	0.00077 U	0.00077 U	--
Tin	**6020A**	--	--	--	--	0.0002 U
Tin, Dissolved	**6020**	0.00077 U	0.00077 U	0.00077 U	0.00077 U	--
Tin, Dissolved	**6020A**	--	--	--	--	0.0002 U
Vanadium	**6020**	0.0036 J	0.0005 U	0.00069 J	0.00096 J	--
Vanadium	**6020A**	--	--	--	--	0.00124 J
Vanadium, Dissolved	**6020**	0.0036 J	0.0005 U	0.00089 J	0.0012 J	--
Vanadium, Dissolved	**6020A**	--	--	--	--	0.00128 J
Zinc	**6010B**	--	--	--	--	--
Zinc	**6020**	0.14	0.0021 U	0.002 U	0.077	--
Zinc	**6020A**	--	--	--	--	0.0851
Zinc, Dissolved	**6010B**	--	--	--	--	--
Zinc, Dissolved	**6020**	0.14	0.0042 U	0.0035 U	0.089	--
Zinc, Dissolved	**6020A**	--	--	--	--	0.0859

TABLE 18
METALS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-26	RD-08	RD-10	RD-11	RD-12
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		HAR-26_020117_01	RD-08_012617_01	RD-10_011817_01	RD-11_012617_01	RD-12_012717_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		2/1/2017	1/26/2017	1/18/2017	1/26/2017	1/27/2017
Analyte (mg/L)	**Method**					
Antimony	**6020**	0.0007 J	0.0004 U	0.00071 J	0.0004 U	0.0004 U
Antimony	**6020A**	--	--	--	--	--
Antimony, Dissolved	**6020**	0.00078 J	0.0004 U	0.0007 J	0.0004 U	0.00052 J
Antimony, Dissolved	**6020A**	--	--	--	--	--
Arsenic	**6020**	0.00033 U	0.00038 J	0.00047 J	0.00033 U	0.00033 U
Arsenic	**6020A**	--	--	--	--	--
Arsenic, Dissolved	**6020**	0.00033 U	0.00033 U	0.00033 U	0.00033 U	0.00033 U
Arsenic, Dissolved	**6020A**	--	--	--	--	--
Barium	**6020**	0.02	0.029	0.06	0.025	0.039
Barium	**6020A**	--	--	--	--	--
Barium, Dissolved	**6020**	0.019	0.029	0.059	0.023	0.041
Barium, Dissolved	**6020A**	--	--	--	--	--
Beryllium	**6020**	0.000089 U	0.00008 U	0.00008 U	0.00008 U	0.00008 U
Beryllium	**6020A**	--	--	--	--	--
Beryllium, Dissolved	**6020**	0.0001 J	0.00008 U	0.00008 U	0.00008 U	0.000091 J
Beryllium, Dissolved	**6020A**	--	--	--	--	--
Cadmium	**6020**	0.00027 U	0.00027 U	0.001	0.00027 U	0.00027 U
Cadmium	**6020A**	--	--	--	--	--
Cadmium, Dissolved	**6020**	0.00027 U	0.00027 U	0.0013	0.00027 U	0.00027 U
Cadmium, Dissolved	**6020A**	--	--	--	--	--
Calcium	**6010B**	--	--	--	--	--
Calcium	**6020A**	--	--	--	--	--
Calcium, Dissolved	**6010B**	--	--	--	--	--
Calcium, Dissolved	**6020A**	--	--	--	--	--
Chromium	**6020**	0.0005 U	0.0005 U	0.001 J	0.0005 U	0.0005 U
Chromium	**6020A**	--	--	--	--	--
Chromium, Dissolved	**6020**	0.0005 U	0.0005 U	0.00052 J	0.0005 U	0.0005 U
Chromium, Dissolved	**6020A**	--	--	--	--	--
Cobalt	**6020**	0.000054 U	0.0003 J	0.00013 J	0.000077 J	0.00045 J
Cobalt	**6020A**	--	--	--	--	--
Cobalt, Dissolved	**6020**	0.000054 U	0.00028 J	0.00018 J	0.000054 U	0.00045 J
Cobalt, Dissolved	**6020A**	--	--	--	--	--
Copper	**6020**	0.00056 U	0.00056 U	0.0088	0.00056 U	0.00056 U
Copper	**6020A**	--	--	--	--	--
Copper, Dissolved	**6020**	0.00056 U	0.00095 J	0.01	0.00056 U	0.0024
Copper, Dissolved	**6020A**	--	--	--	--	--
Iron	**6010B**	--	--	--	--	--
Iron	**6020A**	--	--	--	--	--
Iron, Dissolved	**6010B**	--	--	--	--	--
Iron, Dissolved	**6020A**	--	--	--	--	--
Lead	**6020**	0.00018 U	0.00018 U	0.0027	0.00018 U	0.00042 U
Lead	**6020A**	--	--	--	--	--
Lead, Dissolved	**6020**	0.00018 U	0.00018 U	0.0013 J	0.00018 U	0.00018 U
Lead, Dissolved	**6020A**	--	--	--	--	--
Magnesium	**6010B**	--	--	--	--	--
Magnesium	**6020A**	--	--	--	--	--
Magnesium, Dissolved	**6010B**	--	--	--	--	--
Magnesium, Dissolved	**6020A**	--	--	--	--	--
Manganese	**6010B**	--	--	--	--	--
Manganese	**6020A**	--	--	--	--	--
Manganese, Dissolved	**6010B**	--	--	--	--	--
Manganese, Dissolved	**6020A**	--	--	--	--	--
Mercury	**7470A**	0.000027 U	0.000028 J	--	0.000027 U	0.000027 U
Mercury, Dissolved	**7470A**	0.000027 U	0.000035 J	--	0.000028 J	0.000027 U
Nickel	**6020**	0.0004 J	0.00046 J	0.0014 J	0.00058 J	0.0016 J
Nickel	**6020A**	--	--	--	--	--
Nickel, Dissolved	**6020**	0.00044 J	0.00035 J	0.0019 J	0.00051 J	0.002
Nickel, Dissolved	**6020A**	--	--	--	--	--
Potassium	**6010B**	--	--	--	--	--
Potassium	**6020A**	--	--	--	--	--

TABLE 18
METALS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-26	RD-08	RD-10	RD-11	RD-12
Sample Type:		Primary	Primary	Primary	Primary	Primary
Sample Name:		HAR-26_020117_01	RD-08_012617_01	RD-10_011817_01	RD-11_012617_01	RD-12_012717_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		2/1/2017	1/26/2017	1/18/2017	1/26/2017	1/27/2017
Analyte (mg/L)	**Method**					
Potassium, Dissolved	**6010B**	--	--	--	--	--
Potassium, Dissolved	**6020A**	--	--	--	--	--
Selenium	**6020**	0.0007 U	0.0007 U	0.00076 J	0.0007 U	0.0007 U
Selenium	**6020A**	--	--	--	--	--
Selenium, Dissolved	**6020**	0.0007 U	0.0007 U	0.00085 J	0.0007 U	0.0007 U
Selenium, Dissolved	**6020A**	--	--	--	--	--
Silver	**6020**	0.000033 U	0.000033 U	0.000033 U	0.000033 U	0.000061 U
Silver	**6020A**	--	--	--	--	--
Silver, Dissolved	**6020**	0.000033 U	0.000033 U	0.000033 U	0.000033 U	0.000033 U
Silver, Dissolved	**6020A**	--	--	--	--	--
Sodium	**6010B**	--	--	--	--	--
Sodium	**6020A**	--	--	--	--	--
Sodium, Dissolved	**6010B**	--	--	--	--	--
Sodium, Dissolved	**6020A**	--	--	--	--	--
Strontium	**6010B**	--	--	--	--	--
Strontium	**6020A**	--	--	--	--	--
Strontium, Dissolved	**6010B**	--	--	--	--	--
Strontium, Dissolved	**6020A**	--	--	--	--	--
Thallium	**6020**	0.00005 U	0.00006 U	0.00005 U	0.000056 U	0.00005 U
Thallium	**6020A**	--	--	--	--	--
Thallium, Dissolved	**6020**	0.00005 U	0.00005 U	0.00005 J	0.00005 J	0.00005 U
Thallium, Dissolved	**6020A**	--	--	--	--	--
Tin	**6020**	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.00077 U
Tin	**6020A**	--	--	--	--	--
Tin, Dissolved	**6020**	0.00077 U	0.00077 U	0.00077 U	0.00077 U	0.00077 U
Tin, Dissolved	**6020A**	--	--	--	--	--
Vanadium	**6020**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Vanadium	**6020A**	--	--	--	--	--
Vanadium, Dissolved	**6020**	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
Vanadium, Dissolved	**6020A**	--	--	--	--	--
Zinc	**6010B**	--	--	--	--	--
Zinc	**6020**	0.02	0.015 J	1.9	0.0065 U	0.21
Zinc	**6020A**	--	--	--	--	--
Zinc, Dissolved	**6010B**	--	--	--	--	--
Zinc, Dissolved	**6020**	0.017 U	0.0077 U	2.4	0.0021 U	0.18
Zinc, Dissolved	**6020A**	--	--	--	--	--

TABLE 18
METALS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-18	RD-35A	RD-35B	RD-50	RD-50
Sample Type:		Primary	Primary	Primary	Primary	Split
Sample Name:		RD-18_013017_01	RD-35A_072117_01	RD-35B_072117_01	RD-50_013017_01	RD-50_013017_03A
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	EMAX
Collection Date:		1/30/2017	7/21/2017	7/21/2017	1/30/2017	1/30/2017
Analyte (mg/L)	**Method**					
Antimony	**6020**	0.0004 U	--	--	0.0013 J	--
Antimony	**6020A**	--	--	--	--	0.000931 J
Antimony, Dissolved	**6020**	0.0004 U	--	--	0.00073 J	--
Antimony, Dissolved	**6020A**	--	--	--	--	0.000851 J
Arsenic	**6020**	0.0018 J	--	--	0.002 J	--
Arsenic	**6020A**	--	--	--	--	0.00236
Arsenic, Dissolved	**6020**	0.0017 J	--	--	0.0019 J	--
Arsenic, Dissolved	**6020A**	--	--	--	--	0.00236
Barium	**6020**	0.055	--	--	0.053	--
Barium	**6020A**	--	--	--	--	0.0547
Barium, Dissolved	**6020**	0.055	--	--	0.053	--
Barium, Dissolved	**6020A**	--	--	--	--	0.0542
Beryllium	**6020**	0.00008 U	0.00008 U	0.00008 U	0.00008 U	--
Beryllium	**6020A**	--	--	--	--	0.0001 U
Beryllium, Dissolved	**6020**	0.00008 U	0.00008 U	0.00008 U	0.00008 U	--
Beryllium, Dissolved	**6020A**	--	--	--	--	0.0001 U
Cadmium	**6020**	0.00027 U	--	--	0.00027 U	--
Cadmium	**6020A**	--	--	--	--	0.0002 U
Cadmium, Dissolved	**6020**	0.00027 U	--	--	0.00027 U	--
Cadmium, Dissolved	**6020A**	--	--	--	--	0.0002 U
Calcium	**6010B**	--	--	--	--	--
Calcium	**6020A**	--	--	--	--	--
Calcium, Dissolved	**6010B**	--	--	--	--	--
Calcium, Dissolved	**6020A**	--	--	--	--	--
Chromium	**6020**	0.0005 U	--	--	0.0005 U	--
Chromium	**6020A**	--	--	--	--	0.000648 J
Chromium, Dissolved	**6020**	0.0005 U	--	--	0.0005 U	--
Chromium, Dissolved	**6020A**	--	--	--	--	0.000654 J
Cobalt	**6020**	0.000054 U	--	--	0.0018	--
Cobalt	**6020A**	--	--	--	--	0.00165 J
Cobalt, Dissolved	**6020**	0.000054 U	--	--	0.0014	--
Cobalt, Dissolved	**6020A**	--	--	--	--	0.00208 J
Copper	**6020**	0.00056 U	--	--	0.00059 J	--
Copper	**6020A**	--	--	--	--	0.000813 J
Copper, Dissolved	**6020**	0.00056 U	--	--	0.00056 U	--
Copper, Dissolved	**6020A**	--	--	--	--	0.0011 J
Iron	**6010B**	--	--	--	--	--
Iron	**6020A**	--	--	--	--	--
Iron, Dissolved	**6010B**	--	--	--	--	--
Iron, Dissolved	**6020A**	--	--	--	--	--
Lead	**6020**	0.00018 U	--	--	0.0048	--
Lead	**6020A**	--	--	--	--	0.00371
Lead, Dissolved	**6020**	0.00059 U	--	--	0.0037	--
Lead, Dissolved	**6020A**	--	--	--	--	0.00455
Magnesium	**6010B**	--	--	--	--	--
Magnesium	**6020A**	--	--	--	--	--
Magnesium, Dissolved	**6010B**	--	--	--	--	--
Magnesium, Dissolved	**6020A**	--	--	--	--	--
Manganese	**6010B**	--	--	--	--	--
Manganese	**6020A**	--	--	--	--	--
Manganese, Dissolved	**6010B**	--	--	--	--	--
Manganese, Dissolved	**6020A**	--	--	--	--	--
Mercury	**7470A**	--	--	0.000027 U	--	--
Mercury, Dissolved	**7470A**	--	--	0.000027 U	--	--
Nickel	**6020**	0.0024	--	--	0.0013 J	--
Nickel	**6020A**	--	--	--	--	0.00136 J
Nickel, Dissolved	**6020**	0.00097 J	--	--	0.0011 J	--
Nickel, Dissolved	**6020A**	--	--	--	--	0.00136 J
Potassium	**6010B**	--	--	--	--	--
Potassium	**6020A**	--	--	--	--	--

TABLE 18
METALS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-18	RD-35A	RD-35B	RD-50	RD-50
Sample Type:		Primary	Primary	Primary	Primary	Split
Sample Name:		RD-18_013017_01	RD-35A_072117_01	RD-35B_072117_01	RD-50_013017_01	RD-50_013017_03A
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	EMAX
Collection Date:		1/30/2017	7/21/2017	7/21/2017	1/30/2017	1/30/2017
Analyte (mg/L)	**Method**					
Potassium, Dissolved	**6010B**	--	--	--	--	--
Potassium, Dissolved	**6020A**	--	--	--	--	--
Selenium	**6020**	0.0007 U	--	--	0.0057	--
Selenium	**6020A**	--	--	--	--	0.00624
Selenium, Dissolved	**6020**	0.0007 U	--	--	0.0059	--
Selenium, Dissolved	**6020A**	--	--	--	--	0.00619
Silver	**6020**	0.000033 U	--	0.000033 R	0.000033 U	--
Silver	**6020A**	--	--	--	--	0.0002 U
Silver, Dissolved	**6020**	0.000033 U	--	0.000033 U	0.000033 U	--
Silver, Dissolved	**6020A**	--	--	--	--	0.0002 U
Sodium	**6010B**	42	--	--	--	--
Sodium	**6020A**	--	--	--	--	--
Sodium, Dissolved	**6010B**	--	--	--	--	--
Sodium, Dissolved	**6020A**	--	--	--	--	--
Strontium	**6010B**	--	--	--	--	--
Strontium	**6020A**	--	--	--	--	--
Strontium, Dissolved	**6010B**	--	--	--	--	--
Strontium, Dissolved	**6020A**	--	--	--	--	--
Thallium	**6020**	0.00005 U	--	--	0.00005 U	--
Thallium	**6020A**	--	--	--	--	0.0002 U
Thallium, Dissolved	**6020**	0.00005 U	--	--	0.00005 U	--
Thallium, Dissolved	**6020A**	--	--	--	--	0.0002 U
Tin	**6020**	0.00077 U	--	--	0.00077 U	--
Tin	**6020A**	--	--	--	--	0.0002 U
Tin, Dissolved	**6020**	0.00077 U	--	--	0.00077 U	--
Tin, Dissolved	**6020A**	--	--	--	--	0.0002 U
Vanadium	**6020**	0.0035 J	--	--	0.004 J	--
Vanadium	**6020A**	--	--	--	--	0.00396 J
Vanadium, Dissolved	**6020**	0.0033 J	--	--	0.0034 J	--
Vanadium, Dissolved	**6020A**	--	--	--	--	0.00404 J
Zinc	**6010B**	--	--	--	--	--
Zinc	**6020**	0.17	--	--	0.63	--
Zinc	**6020A**	--	--	--	--	0.692
Zinc, Dissolved	**6010B**	--	--	--	--	--
Zinc, Dissolved	**6020**	0.16	--	--	0.6	--
Zinc, Dissolved	**6020A**	--	--	--	--	0.707

TABLE 18
METALS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-77	RD-103 QA-15	RD-120 QA-10	RD-129
Sample Type:		Primary	Primary	Primary	Primary
Sample Name:		RD-77_011917_01	RD-103 QA-15_012717_01	RD-120 QA-10_013017_01	RD-129_071717_01A
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	EMAX
Collection Date:		1/19/2017	1/27/2017	1/30/2017	7/17/2017
Analyte (mg/L)	**Method**				
Antimony	**6020**	--	0.0004 U	0.0004 U	--
Antimony	**6020A**	--	--	--	--
Antimony, Dissolved	**6020**	--	0.0004 U	0.0004 U	--
Antimony, Dissolved	**6020A**	--	--	--	--
Arsenic	**6020**	--	0.00033 U	0.00073 J	--
Arsenic	**6020A**	--	--	--	--
Arsenic, Dissolved	**6020**	--	0.00033 U	0.00074 J	--
Arsenic, Dissolved	**6020A**	--	--	--	--
Barium	**6020**	--	0.044	0.041	--
Barium	**6020A**	--	--	--	--
Barium, Dissolved	**6020**	--	0.042	0.038	--
Barium, Dissolved	**6020A**	--	--	--	--
Beryllium	**6020**	--	0.00025 U	0.00008 U	--
Beryllium	**6020A**	--	--	--	--
Beryllium, Dissolved	**6020**	--	0.00008 U	0.00008 U	--
Beryllium, Dissolved	**6020A**	--	--	--	--
Cadmium	**6020**	--	0.00027 U	0.00027 U	--
Cadmium	**6020A**	--	--	--	0.0002 U
Cadmium, Dissolved	**6020**	--	0.00027 U	0.00027 U	--
Cadmium, Dissolved	**6020A**	--	--	--	0.0002 U
Calcium	**6010B**	86	--	--	--
Calcium	**6020A**	--	--	--	--
Calcium, Dissolved	**6010B**	84	--	--	--
Calcium, Dissolved	**6020A**	--	--	--	--
Chromium	**6020**	--	0.0005 U	0.0005 U	--
Chromium	**6020A**	--	--	--	--
Chromium, Dissolved	**6020**	--	0.0005 U	0.0005 U	--
Chromium, Dissolved	**6020A**	--	--	--	--
Cobalt	**6020**	--	0.000091 J	0.00035 J	--
Cobalt	**6020A**	--	--	--	--
Cobalt, Dissolved	**6020**	--	0.000054 U	0.00032 J	--
Cobalt, Dissolved	**6020A**	--	--	--	--
Copper	**6020**	--	0.00056 U	0.00056 U	--
Copper	**6020A**	--	--	--	--
Copper, Dissolved	**6020**	--	0.0022	0.0012 J	--
Copper, Dissolved	**6020A**	--	--	--	--
Iron	**6010B**	0.47	--	--	--
Iron	**6020A**	--	--	--	--
Iron, Dissolved	**6010B**	0.022 U	--	--	--
Iron, Dissolved	**6020A**	--	--	--	--
Lead	**6020**	--	0.00024 U	0.00018 U	--
Lead	**6020A**	--	--	--	--
Lead, Dissolved	**6020**	--	0.00018 U	0.00018 U	--
Lead, Dissolved	**6020A**	--	--	--	--
Magnesium	**6010B**	17	--	--	--
Magnesium	**6020A**	--	--	--	--
Magnesium, Dissolved	**6010B**	16	--	--	--
Magnesium, Dissolved	**6020A**	--	--	--	--
Manganese	**6010B**	0.012	--	--	--
Manganese	**6020A**	--	--	--	--
Manganese, Dissolved	**6010B**	0.00086 U	--	--	--
Manganese, Dissolved	**6020A**	--	--	--	--
Mercury	**7470A**	--	--	--	--
Mercury, Dissolved	**7470A**	--	--	--	--
Nickel	**6020**	--	0.00055 J	0.0011 J	--
Nickel	**6020A**	--	--	--	--
Nickel, Dissolved	**6020**	--	0.00037 J	0.0017 J	--
Nickel, Dissolved	**6020A**	--	--	--	--
Potassium	**6010B**	3.7 J	--	--	--
Potassium	**6020A**	--	--	--	--

TABLE 18
METALS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-77	RD-103 QA-15	RD-120 QA-10	RD-129
Sample Type:		Primary	Primary	Primary	Primary
Sample Name:		RD-77_011917_01	RD-103 QA-15_012717_01	RD-120 QA-10_013017_01	RD-129_071717_01A
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	EMAX
Collection Date:		1/19/2017	1/27/2017	1/30/2017	7/17/2017
Analyte (mg/L)	**Method**				
Potassium, Dissolved	**6010B**	3.5 J	--	--	--
Potassium, Dissolved	**6020A**	--	--	--	--
Selenium	**6020**	--	0.0021 J	0.0007 U	--
Selenium	**6020A**	--	--	--	--
Selenium, Dissolved	**6020**	--	0.0019 J	0.0007 U	--
Selenium, Dissolved	**6020A**	--	--	--	--
Silver	**6020**	--	0.000035 U	0.000033 U	--
Silver	**6020A**	--	--	--	--
Silver, Dissolved	**6020**	--	0.000033 U	0.000033 U	--
Silver, Dissolved	**6020A**	--	--	--	--
Sodium	**6010B**	35	--	--	--
Sodium	**6020A**	--	--	--	--
Sodium, Dissolved	**6010B**	33 U	--	--	--
Sodium, Dissolved	**6020A**	--	--	--	--
Strontium	**6010B**	0.28	--	--	--
Strontium	**6020A**	--	--	--	--
Strontium, Dissolved	**6010B**	0.27	--	--	--
Strontium, Dissolved	**6020A**	--	--	--	--
Thallium	**6020**	--	0.000055 U	0.00005 U	--
Thallium	**6020A**	--	--	--	--
Thallium, Dissolved	**6020**	--	0.00005 U	0.00005 U	--
Thallium, Dissolved	**6020A**	--	--	--	--
Tin	**6020**	--	0.00077 U	0.00077 U	--
Tin	**6020A**	--	--	--	--
Tin, Dissolved	**6020**	--	0.00077 U	0.0012 J	--
Tin, Dissolved	**6020A**	--	--	--	--
Vanadium	**6020**	--	0.00063 J	0.0005 U	--
Vanadium	**6020A**	--	--	--	--
Vanadium, Dissolved	**6020**	--	0.0005 U	0.0005 U	--
Vanadium, Dissolved	**6020A**	--	--	--	--
Zinc	**6010B**	0.015 J	--	--	--
Zinc	**6020**	--	0.084	0.013 J	--
Zinc	**6020A**	--	--	--	--
Zinc, Dissolved	**6010B**	0.012 J	--	--	--
Zinc, Dissolved	**6020**	--	0.026	0.011 U	--
Zinc, Dissolved	**6020A**	--	--	--	--

TABLE 18
METALS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		SP-424C
Sample Type:		Primary
Sample Name:		SP-424C_020117_01
Groundwater Unit:		Chatsworth
Lab Name:		TA- Denver
Collection Date:		2/1/2017
Analyte (mg/L)	**Method**	
Antimony	**6020**	0.0004 U
Antimony	**6020A**	--
Antimony, Dissolved	**6020**	0.00054 J
Antimony, Dissolved	**6020A**	--
Arsenic	**6020**	0.0012 J
Arsenic	**6020A**	--
Arsenic, Dissolved	**6020**	0.00059 J
Arsenic, Dissolved	**6020A**	--
Barium	**6020**	0.038
Barium	**6020A**	--
Barium, Dissolved	**6020**	0.032
Barium, Dissolved	**6020A**	--
Beryllium	**6020**	0.00063 U
Beryllium	**6020A**	--
Beryllium, Dissolved	**6020**	0.00028 J
Beryllium, Dissolved	**6020A**	--
Cadmium	**6020**	0.00082 J
Cadmium	**6020A**	--
Cadmium, Dissolved	**6020**	0.00027 U
Cadmium, Dissolved	**6020A**	--
Calcium	**6010B**	--
Calcium	**6020A**	--
Calcium, Dissolved	**6010B**	--
Calcium, Dissolved	**6020A**	--
Chromium	**6020**	0.0038 J
Chromium	**6020A**	--
Chromium, Dissolved	**6020**	0.0005 U
Chromium, Dissolved	**6020A**	--
Cobalt	**6020**	0.012
Cobalt	**6020A**	--
Cobalt, Dissolved	**6020**	0.0031
Cobalt, Dissolved	**6020A**	--
Copper	**6020**	0.028
Copper	**6020A**	--
Copper, Dissolved	**6020**	0.00056 U
Copper, Dissolved	**6020A**	--
Iron	**6010B**	--
Iron	**6020A**	--
Iron, Dissolved	**6010B**	--
Iron, Dissolved	**6020A**	--
Lead	**6020**	0.00091 J
Lead	**6020A**	--
Lead, Dissolved	**6020**	0.00018 U
Lead, Dissolved	**6020A**	--
Magnesium	**6010B**	--
Magnesium	**6020A**	--
Magnesium, Dissolved	**6010B**	--
Magnesium, Dissolved	**6020A**	--
Manganese	**6010B**	--
Manganese	**6020A**	--
Manganese, Dissolved	**6010B**	--
Manganese, Dissolved	**6020A**	--
Mercury	**7470A**	--
Mercury, Dissolved	**7470A**	--
Nickel	**6020**	0.0016 J
Nickel	**6020A**	--
Nickel, Dissolved	**6020**	0.00033 J
Nickel, Dissolved	**6020A**	--
Potassium	**6010B**	--
Potassium	**6020A**	--

TABLE 18
METALS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		SP-424C
Sample Type:		Primary
Sample Name:		SP-424C_020117_01
Groundwater Unit:		Chatsworth
Lab Name:		TA- Denver
Collection Date:		2/1/2017
Analyte (mg/L)	**Method**	
Potassium, Dissolved	**6010B**	--
Potassium, Dissolved	**6020A**	--
Selenium	**6020**	0.0007 U
Selenium	**6020A**	--
Selenium, Dissolved	**6020**	0.0007 U
Selenium, Dissolved	**6020A**	--
Silver	**6020**	0.00098 U
Silver	**6020A**	--
Silver, Dissolved	**6020**	0.000045 U
Silver, Dissolved	**6020A**	--
Sodium	**6010B**	91
Sodium	**6020A**	--
Sodium, Dissolved	**6010B**	--
Sodium, Dissolved	**6020A**	--
Strontium	**6010B**	--
Strontium	**6020A**	--
Strontium, Dissolved	**6010B**	--
Strontium, Dissolved	**6020A**	--
Thallium	**6020**	0.00011 U
Thallium	**6020A**	--
Thallium, Dissolved	**6020**	0.000096 J
Thallium, Dissolved	**6020A**	--
Tin	**6020**	0.0025 J
Tin	**6020A**	--
Tin, Dissolved	**6020**	0.00077 U
Tin, Dissolved	**6020A**	--
Vanadium	**6020**	0.0052 J
Vanadium	**6020A**	--
Vanadium, Dissolved	**6020**	0.0005 U
Vanadium, Dissolved	**6020A**	--
Zinc	**6010B**	--
Zinc	**6020**	0.021
Zinc	**6020A**	--
Zinc, Dissolved	**6010B**	--
Zinc, Dissolved	**6020**	0.0024 U
Zinc, Dissolved	**6020A**	--

NOTES AND ABBREVIATIONS

Chatsworth - Chatsworth Formation groundwater unit
Shallow - Near-surface groundwater unit

mg/L - milligrams per liter

-- Not analyzed
MDL - method detection limit
RL - reporting limit
TA - TestAmerica

J - Estimated value. Result may receive a J flag for the following reasons:
- Routinely indicates that the analyte was detected at a level less than the RL and greater than or equal to the MDL.
- In rare instances indicates that minor quality control deficiencies have slightly compromised result accuracy.

U - Not detected above the MDL or RL
UJ - The result is not detected; however, the RL/MDL is estimated

TABLE 19
DIOXINS AND FURANS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-01	HAR-01	HAR-01	HAR-01	HAR-03
Sample Type:		Primary	Primary	Field Duplicate	Split	Primary
Sample Name:		HAR-01_012517_01	HAR-01_073117_01	HAR-01_073117_36	HAR-01_073117_03	HAR-03_072417_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Shallow
Lab Name:		TA- Denver	TA- Denver	TA- Denver	EMAX	TA- Denver
Collection Date:		1/25/2017	7/31/2017	7/31/2017	7/31/2017	7/24/2017
Analyte (pg/L)	Method					
1,2,3,4,6,7,8-Heptachlorodibenzofuran	8290	0.73 U	48 U	0.14 U	--	0.27 U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	8290A	--	--	--	9.54 U	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	8290	1.3 U	0.28 U	0.43 U	--	0.22 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	8290A	--	--	--	9.54 U	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran	8290	1.1 U	0.23 U	0.17 U	--	0.32 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	8290A	--	--	--	9.54 U	--
1,2,3,4,7,8-Hexachlorodibenzofuran	8290	0.28 U	0.27 U	0.3 U	--	0.42 U
1,2,3,4,7,8-Hexachlorodibenzofuran	8290A	--	--	--	9.54 U	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	8290	0.96 U	0.43 U	0.39 U	--	0.8 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	8290A	--	--	--	0.102 U	--
1,2,3,6,7,8-Hexachlorodibenzofuran	8290	0.3 U	0.25 U	0.3 U	--	0.42 U
1,2,3,6,7,8-Hexachlorodibenzofuran	8290A	--	--	--	9.54 U	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	8290	0.97 U	0.49 U	0.44 U	--	0.8 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	8290A	--	--	--	0.111 U	--
1,2,3,7,8,9-Hexachlorodibenzofuran	8290	0.39 U	0.32 U	0.39 U	--	0.54 U
1,2,3,7,8,9-Hexachlorodibenzofuran	8290A	--	--	--	9.54 U	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	8290	0.9 U	0.43 U	0.38 U	--	1.7 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	8290A	--	--	--	0.116 U	--
1,2,3,7,8-Pentachlorodibenzofuran	8290	0.64 U	0.22 U	0.44 U	--	0.77 U
1,2,3,7,8-Pentachlorodibenzofuran	8290A	--	--	--	9.54 U	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	8290	0.82 U	0.5 U	0.38 U	--	0.37 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	8290A	--	--	--	0.272 U	--
2,3,4,6,7,8-Hexachlorodibenzofuran	8290	0.32 U	0.26 U	0.31 U	--	0.42 U
2,3,4,6,7,8-Hexachlorodibenzofuran	8290A	--	--	--	9.54 U	--
2,3,4,7,8-Pentachlorodibenzofuran	8290	0.61 U	0.2 U	0.43 U	--	0.69 U
2,3,4,7,8-Pentachlorodibenzofuran	8290A	--	--	--	0.113 U	--
2,3,7,8-TCDD	8290	1.9 U	0.66 U	0.65 U	--	0.68 U
2,3,7,8-TCDD	8290A	--	--	--	1.91 U	--
2,3,7,8-TCDD TEQ [(a)]	8290	0.001	0	0	--	0.17
2,3,7,8-TCDD TEQ [(a)]	8290A	--	--	--	0	--
2,3,7,8-Tetrachlorodibenzofuran	8290	0.94 U	0.58 U	0.66 U	--	1 U
2,3,7,8-Tetrachlorodibenzofuran	8290A	--	--	--	0.243 U	--
Octachlorodibenzofuran	8290	2.6 J	95 U	95 U	--	95 U
Octachlorodibenzofuran	8290A	--	--	--	19.1 U	--
Octachlorodibenzo-p-dioxin	8290	95 U	95 U	95 U	--	95 U
Octachlorodibenzo-p-dioxin	8290A	--	--	--	19.1 U	--

TABLE 19
DIOXINS AND FURANS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-04	HAR-16	HAR-16	HAR-26	RD-08
Sample Type:		Primary	Primary	Split	Primary	Primary
Sample Name:		HAR-04_072517_01	HAR-16_012517_01	HAR-16_012517_03A	HAR-26_020117_01	RD-08_012617_01
Groundwater Unit:		Shallow	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	EMAX	TA- Denver	TA- Denver
Collection Date:		7/25/2017	1/25/2017	1/25/2017	2/1/2017	1/26/2017
Analyte (pg/L)	Method					
1,2,3,4,6,7,8-Heptachlorodibenzofuran	8290	0.27 U	0.3 U	--	0.36 U	1.2 U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	8290A	--	--	9.57 U	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	8290	0.9 U	0.85 U	--	1 U	1.3 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	8290A	--	--	9.57 U	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran	8290	0.33 U	0.51 U	--	0.49 U	1.8 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	8290A	--	--	9.57 U	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran	8290	0.49 U	0.3 U	--	0.59 U	0.73 U
1,2,3,4,7,8-Hexachlorodibenzofuran	8290A	--	--	0.0704 U	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	8290	1.3 U	1.1 U	--	0.52 U	0.85 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	8290A	--	--	9.57 U	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran	8290	0.51 U	0.29 U	--	0.54 U	0.67 U
1,2,3,6,7,8-Hexachlorodibenzofuran	8290A	--	--	9.57 U	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	8290	1.3 U	1.1 U	--	0.51 U	0.93 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	8290A	--	--	0.114 U	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran	8290	0.67 U	0.41 U	--	0.73 U	0.99 U
1,2,3,7,8,9-Hexachlorodibenzofuran	8290A	--	--	9.57 U	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	8290	1.2 U	1 U	--	0.48 U	0.83 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	8290A	--	--	9.57 U	--	--
1,2,3,7,8-Pentachlorodibenzofuran	8290	0.87 U	0.54 U	--	0.73 U	1.1 U
1,2,3,7,8-Pentachlorodibenzofuran	8290A	--	--	9.57 U	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	8290	1 U	0.89 U	--	0.29 U	1.5 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	8290A	--	--	9.57 U	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran	8290	0.57 U	0.33 U	--	0.58 U	0.74 U
2,3,4,6,7,8-Hexachlorodibenzofuran	8290A	--	--	9.57 U	--	--
2,3,4,7,8-Pentachlorodibenzofuran	8290	0.82 U	0.58 U	--	0.68 U	1.1 U
2,3,4,7,8-Pentachlorodibenzofuran	8290A	--	--	9.57 U	--	--
2,3,7,8-TCDD	8290	3.9 U	3 U	--	0.34 U	3.6 U
2,3,7,8-TCDD	8290A	--	--	0.0915 U	--	--
2,3,7,8-TCDD TEQ [(a)]	8290	0	0	--	0	0
2,3,7,8-TCDD TEQ [(a)]	8290A	--	--	0	--	--
2,3,7,8-Tetrachlorodibenzofuran	8290	3.1 U	1.6 U	--	0.6 U	1.8 U
2,3,7,8-Tetrachlorodibenzofuran	8290A	--	--	0.141 U	--	--
Octachlorodibenzofuran	8290	96 U	2.5 U	--	0.48 U	1.7 U
Octachlorodibenzofuran	8290A	--	--	19.1 U	--	--
Octachlorodibenzo-p-dioxin	8290	96 U	0.77 U	--	95 U	98 U
Octachlorodibenzo-p-dioxin	8290A	--	--	19.1 U	--	--

TABLE 19
DIOXINS AND FURANS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-11	RD-12
Sample Type:		Primary	Primary
Sample Name:		RD-11_012617_01	RD-12_012717_01
Groundwater Unit:		Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver
Collection Date:		1/26/2017	1/27/2017
Analyte (pg/L)	Method		
1,2,3,4,6,7,8-Heptachlorodibenzofuran	8290	0.38 U	0.78 U
1,2,3,4,6,7,8-Heptachlorodibenzofuran	8290A	--	--
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	8290	0.81 U	0.87 U
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	8290A	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran	8290	0.56 U	1 U
1,2,3,4,7,8,9-Heptachlorodibenzofuran	8290A	--	--
1,2,3,4,7,8-Hexachlorodibenzofuran	8290	0.39 U	0.3 U
1,2,3,4,7,8-Hexachlorodibenzofuran	8290A	--	--
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	8290	0.79 U	1.1 U
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	8290A	--	--
1,2,3,6,7,8-Hexachlorodibenzofuran	8290	0.39 U	0.28 U
1,2,3,6,7,8-Hexachlorodibenzofuran	8290A	--	--
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	8290	0.84 U	1.2 U
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	8290A	--	--
1,2,3,7,8,9-Hexachlorodibenzofuran	8290	0.53 U	0.38 U
1,2,3,7,8,9-Hexachlorodibenzofuran	8290A	--	--
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	8290	0.75 U	1.1 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	8290A	--	--
1,2,3,7,8-Pentachlorodibenzofuran	8290	0.9 U	0.86 U
1,2,3,7,8-Pentachlorodibenzofuran	8290A	--	--
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	8290	0.93 U	0.59 U
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	8290A	--	--
2,3,4,6,7,8-Hexachlorodibenzofuran	8290	0.39 U	0.3 U
2,3,4,6,7,8-Hexachlorodibenzofuran	8290A	--	--
2,3,4,7,8-Pentachlorodibenzofuran	8290	0.87 U	0.86 U
2,3,4,7,8-Pentachlorodibenzofuran	8290A	--	--
2,3,7,8-TCDD	8290	2.4 U	2.5 U
2,3,7,8-TCDD	8290A	--	--
2,3,7,8-TCDD TEQ [(a)]	8290	0	0
2,3,7,8-TCDD TEQ [(a)]	8290A	--	--
2,3,7,8-Tetrachlorodibenzofuran	8290	1.6 U	1.4 U
2,3,7,8-Tetrachlorodibenzofuran	8290A	--	--
Octachlorodibenzofuran	8290	1.4 U	1.3 U
Octachlorodibenzofuran	8290A	--	--
Octachlorodibenzo-p-dioxin	8290	0.82 U	96 U
Octachlorodibenzo-p-dioxin	8290A	--	--

NOTES AND ABBREVIATIONS

Chatsworth - Chatsworth Formation groundwater unit
Shallow - Near-surface groundwater unit

pg/L - picograms per liter

-- Not analyzed
MDL - method detection limit
RL - reporting limit
TA - TestAmerica

J - Estimated value. Result may receive a J flag for the following reasons:
- Routinely indicates that the analyte was detected at a level less than the RL and greater than or equal to the MDL.
- In rare instances indicates that minor quality control deficiencies compromised result accuracy.

U - Not detected above the MDL or RL

(a) - 2,3,7,8-TCDD TEQ includes all dioxin and furan congeners that are chlorinated in all four of the 2, 3, 7, and 8 positions.

TABLE 20
PESTICIDES, HERBICIDES, AND POLYCHLORINATED BIPHENYLS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-01	HAR-03	HAR-04	HAR-16	HAR-16	HAR-26
Sample Type:		Primary	Primary	Primary	Primary	Split	Primary
Sample Name:		HAR-01_012517_01	HAR-03_072417_01	HAR-04_072517_01	HAR-16_012517_01	HAR-16_012517_03A	HAR-26_020117_01
Groundwater Unit:		Chatsworth	Shallow	Shallow	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	EMAX	TA- Denver
Collection Date:		1/25/2017	7/24/2017	7/25/2017	1/25/2017	1/25/2017	2/1/2017
Analyte (µg/L)	Method						
2,4,5-T	8151A	0.19 U	0.19 U	0.18 U	0.18 U	0.2 U	0.18 U
2,4,5-T	8321A	--	--	--	--	--	--
2,4-Dichlorophenoxyacetic Acid (2,4-D)	8151A	0.21 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2,4-Dichlorophenoxybutyric acid	8151A	--	0.35 UJ	--	--	--	--
2,4-Dichlorophenoxybutyric acid	8321A	--	--	--	--	--	--
4,4'-DDD	508	--	--	--	--	--	--
4,4'-DDD	8081A	0.0037 U	0.0036 U	0.0038 U	0.0037 U	0.01 U	0.0036 U
4,4'-DDE	508	--	--	--	--	--	--
4,4'-DDE	8081A	0.0037 U	0.0036 U	0.0038 U	0.0037 U	0.01 U	0.0036 U
4,4'-DDT	508	--	--	--	--	--	--
4,4'-DDT	8081A	0.0073 U	0.007 U	0.0073 U	0.0072 U	0.01 U	0.007 U
Aldrin	508	--	--	--	--	--	--
Aldrin	8081A	0.003 U	0.0029 U	0.003 U	0.0029 U	0.01 U	0.0029 U
alpha-BHC	508	--	--	--	--	--	--
alpha-BHC	8081A	0.0026 U	0.0025 U	0.0026 U	0.0025 U	0.01 U	0.0025 U
alpha-Chlordane	8081A	--	--	--	--	0.01 U	--
Aroclor 1016	8082	0.12 U	0.12 U	0.12 U	0.12 U	0.5 U	0.12 U
Aroclor 1221	8082	0.2 U	0.21 U	0.2 U	0.21 U	0.5 U	0.2 U
Aroclor 1232	8082	0.16 U	0.16 U	0.16 U	0.16 U	0.5 U	0.16 U
Aroclor 1242	8082	0.1 U	0.1 U	0.099 U	0.1 U	0.5 U	0.099 U
Aroclor 1248	8082	0.088 U	0.089 U	0.087 U	0.088 U	0.5 U	0.087 U
Aroclor 1254	8082	0.11 U	0.11 U	0.11 U	0.11 U	0.5 U	0.11 U
Aroclor 1260	8082	0.15 U	0.16 U	0.15 U	0.15 U	0.5 U	0.15 U
beta-BHC	508	--	--	--	--	--	--
beta-BHC	8081A	0.0043 U	0.0042 U	0.0043 U	0.0043 U	0.01 U	0.0042 U
Chlordane	508	--	--	--	--	--	--
Chlordane	8081A	0.069 U	0.067 U	0.069 U	0.068 U	0.01 U	0.067 U
Chlorobenzilate	8081A	0.021 U	0.02 U	0.021 U	0.021 U	--	0.02 U
Dalapon	8151A	--	0.89 U	--	--	--	--
Dalapon	8321A	--	--	--	--	--	--
delta-BHC	508	--	--	--	--	--	--
delta-BHC	8081A	0.0029 U	0.0028 U	0.0029 U	0.0028 U	0.01 U	0.0028 U
Diallate	8081A	0.095 U	0.091 U	0.095 U	0.093 U	--	0.091 U
Dicamba	8151A	--	0.15 U	--	--	--	--
Dicamba	8321A	--	--	--	--	--	--
Dichlorprop	8151A	--	0.63 U	--	--	--	--
Dichlorprop	8321A	--	--	--	--	--	--
Dieldrin	508	--	--	--	--	--	--
Dieldrin	8081A	0.0032 U	0.003 U	0.0032 U	0.0031 U	0.05 U	0.003 U
Dimethoate	8141A	0.44 UJ	0.43 U	0.43 U	0.43 UJ	0.52 U	0.42 U
Dinoseb	8151A	0.45 U	0.44 UJ	0.43 U	0.43 U	0.2 U	0.43 U
Dinoseb	8321A	--	--	--	--	--	--
Disulfoton	8141A	0.32 UJ	0.31 U	0.31 U	0.31 UJ	0.52 U	0.3 U

TABLE 20
PESTICIDES, HERBICIDES, AND POLYCHLORINATED BIPHENYLS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		HAR-01	HAR-03	HAR-04	HAR-16	HAR-16	HAR-26
Sample Type:		Primary	Primary	Primary	Primary	Split	Primary
Sample Name:		HAR-01_012517_01	HAR-03_072417_01	HAR-04_072517_01	HAR-16_012517_01	HAR-16_012517_03A	HAR-26_020117_01
Groundwater Unit:		Chatsworth	Shallow	Shallow	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	EMAX	TA- Denver
Collection Date:		1/25/2017	7/24/2017	7/25/2017	1/25/2017	1/25/2017	2/1/2017
Analyte (µg/L)	Method						
Endosulfan I	508	--	--	--	--	--	--
Endosulfan I	8081A	0.0029 U	0.0028 U	0.0029 U	0.0028 U	0.05 U	0.0028 U
Endosulfan II	508	--	--	--	--	--	--
Endosulfan II	8081A	0.0034 U	0.0033 U	0.0035 U	0.0034 U	0.05 U	0.0033 U
Endosulfan sulfate	508	--	--	--	--	--	--
Endosulfan sulfate	8081A	0.0028 U	0.0027 U	0.0028 U	0.0027 U	0.01 U	0.0027 U
Endrin	508	--	--	--	--	--	--
Endrin	8081A	0.0039 U	0.0038 U	0.004 U	0.0039 U	0.05 U	0.0038 U
Endrin aldehyde	508	--	--	--	--	--	--
Endrin aldehyde	8081A	0.0043 U	0.0042 U	0.0043 U	0.0043 U	0.01 U	0.0042 U
Endrin ketone	508	--	--	--	--	--	--
Famphur	8141A	0.18 UJ	0.17 U	0.17 U	0.17 UJ	0.52 U	0.17 U
gamma-BHC	508	--	--	--	--	--	--
gamma-BHC	8081A	0.0033 U	0.0032 U	0.0034 U	0.0033 U	0.05 U	0.0032 U
gamma-Chlordane	8081A	--	--	--	--	0.01 U	--
Heptachlor	508	--	--	--	--	--	--
Heptachlor	8081A	0.0037 U	0.0036 U	0.0038 U	0.0037 U	0.05 U	0.0036 U
Heptachlor epoxide	508	--	--	--	--	--	--
Heptachlor epoxide	8081A	0.0037 U	0.0036 U	0.0038 U	0.0037 U	0.05 U	0.0036 U
Kepone	8081A	0.17 U	0.17 U	0.17 U	0.17 U	--	0.17 U
MCPA	8151A	--	17 U	--	--	--	--
MCPA	8321A	--	--	--	--	--	--
MCPP	8151A	--	32 U	--	--	--	--
MCPP	8321A	--	--	--	--	--	--
Methoxychlor	508	--	--	--	--	--	--
Methoxychlor	8081A	0.0064 U	0.0062 U	0.0064 U	0.0063 U	0.5 U	0.0062 U
Methyl parathion	8141A	0.14 UJ	0.13 U	0.13 U	0.14 UJ	0.52 U	0.13 U
Mirex	508	--	--	--	--	--	--
Parathion	8141A	0.14 UJ	0.14 U	0.14 U	0.14 UJ	0.52 U	0.14 U
Phorate	8141A	0.15 UJ	0.15 U	0.15 U	0.15 UJ	0.52 U	0.14 U
Silvex	8151A	0.17 U	0.17 U	0.16 U	0.16 U	0.2 U	0.16 U
Silvex	8321A	--	--	--	--	--	--
Tetra ethyldithiopyrophosphate	8141A	0.17 UJ	0.16 U	0.16 U	0.16 UJ	0.52 U	0.16 U
Toxaphene	508	--	--	--	--	--	--
Toxaphene	8081A	0.18 U	0.17 U	0.18 U	0.18 U	0.5 U	0.18 U
Zinophos	8141A	0.31 UJ	0.3 U	0.3 U	0.3 UJ	0.52 U	0.29 U

TABLE 20
PESTICIDES, HERBICIDES, AND POLYCHLORINATED BIPHENYLS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-03	RD-03	RD-08	RD-11	RD-12	RD-35B	RD-37
Sample Type:		Primary	Field Duplicate	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-03_072417_01	RD-03_072417_36	RD-08_012617_01	RD-11_012617_01	RD-12_012717_01	RD-35B_072117_01	RD-37_072617_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/24/2017	7/24/2017	1/26/2017	1/26/2017	1/27/2017	7/21/2017	7/26/2017
Analyte (µg/L)	Method							
2,4,5-T	8151A	--	--	0.19 U	0.19 U	0.19 U	--	--
2,4,5-T	8321A	--	--	--	--	--	--	0.57 U
2,4-Dichlorophenoxyacetic Acid (2,4-D)	8151A	--	--	0.2 U	0.21 U	0.21 U	--	--
2,4-Dichlorophenoxybutyric acid	8151A	--	--	--	--	--	--	--
2,4-Dichlorophenoxybutyric acid	8321A	--	--	--	--	--	--	1.2 UJ
4,4'-DDD	508	0.0021 U	0.0021 U	--	--	--	--	0.0022 U
4,4'-DDD	8081A	--	--	0.0037 U	0.0038 U	0.004 U	--	--
4,4'-DDE	508	0.0016 U	0.0016 U	--	--	--	--	0.0017 U
4,4'-DDE	8081A	--	--	0.0037 U	0.0038 U	0.004 U	--	--
4,4'-DDT	508	0.0035 U	0.0035 U	--	--	--	--	0.0036 U
4,4'-DDT	8081A	--	--	0.0071 U	0.0074 U	0.0078 U	--	--
Aldrin	508	0.0014 U	0.0015 U	--	--	--	--	0.0015 UJ
Aldrin	8081A	--	--	0.0029 U	0.003 U	0.0031 U	--	--
alpha-BHC	508	0.0018 U	0.0018 U	--	--	--	--	0.0019 U
alpha-BHC	8081A	--	--	0.0025 U	0.0026 U	0.0027 U	--	--
alpha-Chlordane	8081A	--	--	--	--	--	--	--
Aroclor 1016	8082	--	--	0.12 U	0.13 U	0.12 U	0.12 U	--
Aroclor 1221	8082	--	--	0.21 U	0.22 U	0.21 U	0.2 U	--
Aroclor 1232	8082	--	--	0.17 U	0.17 U	0.16 U	0.16 U	--
Aroclor 1242	8082	--	--	0.1 U	0.11 U	0.1 U	0.099 U	--
Aroclor 1248	8082	--	--	0.091 U	0.093 U	0.09 U	0.087 U	--
Aroclor 1254	8082	--	--	0.11 U	0.12 U	0.11 U	0.11 U	--
Aroclor 1260	8082	--	--	0.16 U	0.16 U	0.16 U	0.15 U	--
beta-BHC	508	0.0076 U	0.0076 U	--	--	--	--	0.008 U
beta-BHC	8081A	--	--	0.0042 U	0.0044 U	0.0046 U	--	--
Chlordane	508	0.0016 U	0.0016 U	--	--	--	--	0.0017 U
Chlordane	8081A	--	--	0.067 U	0.07 U	0.073 U	--	--
Chlorobenzilate	8081A	--	--	0.02 U	0.021 U	0.022 U	--	--
Dalapon	8151A	--	--	--	--	--	--	--
Dalapon	8321A	--	--	--	--	--	--	1.8 U
delta-BHC	508	0.0018 U	0.0018 U	--	--	--	--	0.0019 UJ
delta-BHC	8081A	--	--	0.0028 U	0.0029 U	0.003 U	--	--
Diallate	8081A	--	--	0.093 U	0.097 U	0.1 U	--	--
Dicamba	8151A	--	--	--	--	--	--	--
Dicamba	8321A	--	--	--	--	--	--	0.85 U
Dichlorprop	8151A	--	--	--	--	--	--	--
Dichlorprop	8321A	--	--	--	--	--	--	0.5 U
Dieldrin	508	0.0015 U	0.0015 U	--	--	--	--	0.0016 U
Dieldrin	8081A	--	--	0.0031 U	0.0032 U	0.0034 U	--	--
Dimethoate	8141A	--	--	0.43 U	0.45 U	0.45 U	--	--
Dinoseb	8151A	--	--	0.44 U	0.45 U	0.46 U	--	--
Dinoseb	8321A	--	--	--	--	--	--	3.6 U
Disulfoton	8141A	--	--	0.31 U	0.32 U	0.32 U	--	--

TABLE 20
PESTICIDES, HERBICIDES, AND POLYCHLORINATED BIPHENYLS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-03	RD-03	RD-08	RD-11	RD-12	RD-35B	RD-37
Sample Type:		Primary	Field Duplicate	Primary	Primary	Primary	Primary	Primary
Sample Name:		RD-03_072417_01	RD-03_072417_36	RD-08_012617_01	RD-11_012617_01	RD-12_012717_01	RD-35B_072117_01	RD-37_072617_01
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver	TA- Denver
Collection Date:		7/24/2017	7/24/2017	1/26/2017	1/26/2017	1/27/2017	7/21/2017	7/26/2017
Analyte (µg/L)	Method							
Endosulfan I	508	0.00084 U	0.00085 U	--	--	--	--	0.00089 U
Endosulfan I	8081A	--	--	0.0028 U	0.0029 U	0.003 U	--	--
Endosulfan II	508	0.0024 U	0.0024 U	--	--	--	--	0.0025 U
Endosulfan II	8081A	--	--	0.0034 U	0.0035 U	0.0037 U	--	--
Endosulfan sulfate	508	0.0026 U	0.0026 U	--	--	--	--	0.0027 U
Endosulfan sulfate	8081A	--	--	0.0027 U	0.0028 U	0.0029 U	--	--
Endrin	508	0.0021 U	0.0021 U	--	--	--	--	0.0022 U
Endrin	8081A	--	--	0.0039 U	0.004 U	0.0042 U	--	--
Endrin aldehyde	508	0.0027 U	0.0027 U	--	--	--	--	0.0028 U
Endrin aldehyde	8081A	--	--	0.0042 U	0.0044 U	0.0046 U	--	--
Endrin ketone	508	0.024 U	0.024 U	--	--	--	--	0.025 U
Famphur	8141A	--	--	0.17 U	0.18 U	0.18 U	--	--
gamma-BHC	508	0.0023 U	0.0023 U	--	--	--	--	0.0024 U
gamma-BHC	8081A	--	--	0.0033 U	0.0034 U	0.0036 U	--	--
gamma-Chlordane	8081A	--	--	--	--	--	--	--
Heptachlor	508	0.006 U	0.0061 U	--	--	--	--	0.0064 UJ
Heptachlor	8081A	--	--	0.0037 U	0.0038 U	0.004 U	--	--
Heptachlor epoxide	508	0.0016 U	0.0016 U	--	--	--	--	0.0017 UJ
Heptachlor epoxide	8081A	--	--	0.0037 U	0.0038 U	0.004 U	--	--
Kepone	8081A	--	--	0.17 U	0.17 U	0.18 U	--	--
MCPA	8151A	--	--	--	--	--	--	--
MCPA	8321A	--	--	--	--	--	--	0.42 U
MCPP	8151A	--	--	--	--	--	--	--
MCPP	8321A	--	--	--	--	--	--	0.47 U
Methoxychlor	508	0.0075 U	0.0075 U	--	--	--	--	0.0079 U
Methoxychlor	8081A	--	--	0.0063 U	0.0065 U	0.0068 U	--	--
Methyl parathion	8141A	--	--	0.13 U	0.14 U	0.14 U	--	--
Mirex	508	0.0051 U	0.0051 U	--	--	--	--	0.0054 U
Parathion	8141A	--	--	0.14 U	0.14 U	0.14 U	--	--
Phorate	8141A	--	--	0.15 U	0.15 U	0.15 U	--	--
Silvex	8151A	--	--	0.17 U	0.17 U	0.17 U	--	--
Silvex	8321A	--	--	--	--	--	--	0.43 U
Tetra ethyldithiopyrophosphate	8141A	--	--	0.16 U	0.17 U	0.17 U	--	--
Toxaphene	508	0.056 U	0.056 U	--	--	--	--	0.059 U
Toxaphene	8081A	--	--	0.18 U	0.19 U	0.19 U	--	--
Zinophos	8141A	--	--	0.3 U	0.31 U	0.31 U	--	--

TABLE 20
PESTICIDES, HERBICIDES, AND POLYCHLORINATED BIPHENYLS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-73	RD-73	RD-99
Sample Type:		Primary	Field Duplicate	Primary
Sample Name:		RD-73_080317_01	RD-73_080317_36	RD-99_072717_01A
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver
Collection Date:		8/3/2017	8/3/2017	7/27/2017
Analyte (µg/L)	Method			
2,4,5-T	8151A	--	--	--
2,4,5-T	8321A	0.57 UJ	0.57 UJ	--
2,4-Dichlorophenoxyacetic Acid (2,4-D)	8151A	--	--	--
2,4-Dichlorophenoxybutyric acid	8151A	--	--	--
2,4-Dichlorophenoxybutyric acid	8321A	1.2 UJ	1.7 J	--
4,4'-DDD	508	--	--	0.0022 U
4,4'-DDD	8081A	--	--	--
4,4'-DDE	508	--	--	0.0017 U
4,4'-DDE	8081A	--	--	--
4,4'-DDT	508	--	--	0.0036 U
4,4'-DDT	8081A	--	--	--
Aldrin	508	--	--	0.0015 UJ
Aldrin	8081A	--	--	--
alpha-BHC	508	--	--	0.0019 U
alpha-BHC	8081A	--	--	--
alpha-Chlordane	8081A	--	--	--
Aroclor 1016	8082	--	--	--
Aroclor 1221	8082	--	--	--
Aroclor 1232	8082	--	--	--
Aroclor 1242	8082	--	--	--
Aroclor 1248	8082	--	--	--
Aroclor 1254	8082	--	--	--
Aroclor 1260	8082	--	--	--
beta-BHC	508	--	--	0.0078 U
beta-BHC	8081A	--	--	--
Chlordane	508	--	--	0.0017 U
Chlordane	8081A	--	--	--
Chlorobenzilate	8081A	--	--	--
Dalapon	8151A	--	--	--
Dalapon	8321A	1.8 R	14 J	--
delta-BHC	508	--	--	0.0019 UJ
delta-BHC	8081A	--	--	--
Diallate	8081A	--	--	--
Dicamba	8151A	--	--	--
Dicamba	8321A	0.85 UJ	0.85 UJ	--
Dichlorprop	8151A	--	--	--
Dichlorprop	8321A	0.5 UJ	0.5 UJ	--
Dieldrin	508	--	--	0.0016 U
Dieldrin	8081A	--	--	--
Dimethoate	8141A	--	--	--
Dinoseb	8151A	--	--	--
Dinoseb	8321A	0.36 UJ	0.36 UJ	--
Disulfoton	8141A	--	--	--

TABLE 20
PESTICIDES, HERBICIDES, AND POLYCHLORINATED BIPHENYLS ANALYTICAL RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CA

Well Identifier:		RD-73	RD-73	RD-99
Sample Type:		Primary	Field Duplicate	Primary
Sample Name:		RD-73_080317_01	RD-73_080317_36	RD-99_072717_01A
Groundwater Unit:		Chatsworth	Chatsworth	Chatsworth
Lab Name:		TA- Denver	TA- Denver	TA- Denver
Collection Date:		8/3/2017	8/3/2017	7/27/2017
Analyte (µg/L)	Method			
Endosulfan I	508	--	--	0.00087 U
Endosulfan I	8081A	--	--	--
Endosulfan II	508	--	--	0.0025 U
Endosulfan II	8081A	--	--	--
Endosulfan sulfate	508	--	--	0.0027 U
Endosulfan sulfate	8081A	--	--	--
Endrin	508	--	--	0.0022 U
Endrin	8081A	--	--	--
Endrin aldehyde	508	--	--	0.0028 U
Endrin aldehyde	8081A	--	--	--
Endrin ketone	508	--	--	0.025 U
Famphur	8141A	--	--	--
gamma-BHC	508	--	--	0.0024 U
gamma-BHC	8081A	--	--	--
gamma-Chlordane	8081A	--	--	--
Heptachlor	508	--	--	0.0063 UJ
Heptachlor	8081A	--	--	--
Heptachlor epoxide	508	--	--	0.0017 UJ
Heptachlor epoxide	8081A	--	--	--
Kepone	8081A	--	--	--
MCPA	8151A	--	--	--
MCPA	8321A	0.42 UJ	0.42 UJ	--
MCPP	8151A	--	--	--
MCPP	8321A	0.47 UJ	0.47 UJ	--
Methoxychlor	508	--	--	0.0077 U
Methoxychlor	8081A	--	--	--
Methyl parathion	8141A	--	--	--
Mirex	508	--	--	0.0053 U
Parathion	8141A	--	--	--
Phorate	8141A	--	--	--
Silvex	8151A	--	--	--
Silvex	8321A	0.43 UJ	0.43 UJ	--
Tetra ethyldithiopyrophosphate	8141A	--	--	--
Toxaphene	508	--	--	0.058 U
Toxaphene	8081A	--	--	--
Zinophos	8141A	--	--	--

NOTES AND ABBREVIATIONS

Chatsworth - Chatsworth Formation groundwater unit
Shallow - Near-surface groundwater unit

µg/L - micrograms per liter

-- Not analyzed
MDL - method detection limit
RL - reporting limit
TA - TestAmerica

J - Estimated value. Result may receive a J flag for the following reasons:
- Routinely indicates that the analyte was detected at a level less than the RL and greater than or equal to the MDL.
- In rare instances indicates that minor quality control deficiencies have slightly compromised result accuracy.

U - Not detected above the MDL or RL
UJ - The result is not detected; however, the RL/MDL is estimated
R - Result rejected

TABLE 21
VERIFICATION SAMPLING RESULTS, 2017
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Monitoring Program	Constituent(s)	Samples Scheduled	Sample Concentrations				
				Units	Primary Sample	Duplicate Sample	Split Sample	Field Blank
HAR-01	EM (aff)	Octachlorodibenzofuran	Verification	pg/L	95 U	95 U	19.1 U	98 U
HAR-02	EM (aff)	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Verification	Not Sampled - Dry				
		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Verification					
		Octachlorodibenzofuran	Verification					
		Octachlorodibenzo-p-dioxin	Verification					
RS-33	EM (aff)	Dichlorodifluoromethane	Verification	Not Sampled - Dry				
SH-03	EM (aff)	Dinoseb	Verification	Not Sampled - Dry				
		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Verification					
		Octachlorodibenzofuran	Verification					
		Octachlorodibenzo-p-dioxin	Verification					
SH-09	EM (aff)	Dinoseb	Verification	Not Sampled - Dry				
		2,4-Dichlorophenoxyacetic Acid (2,4-D)	Verification					
		Endrin aldehyde	Verification					
		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Verification					

NOTES AND ABBREVIATIONS

See Table 6 for analyte lists and analysis methods
EM (aff) - Evaluation Monitoring (affected media)
pg/L - picograms per liter
U - Not detected above the reporting limit.
Verification - May include primary, duplicate, split, and field blank samples

TABLE 22
PROPOSED VERIFICATION SAMPLING, FIRST QUARTER 2018
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

Well Identifier	Monitoring Program	Constituent(s)	Samples Scheduled
HAR-02	EM (aff)	1,2,3,4,6,7,8-Heptachlorodibenzofuran	Verification
		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Verification
		Octachlorodibenzofuran	Verification
		Octachlorodibenzo-p-dioxin	Verification
HAR-03	EM (aff)	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	Verification
RS-33	EM (aff)	Dichlorodifluoromethane	Verification
SH-03	EM (aff)	Dinoseb	Verification
		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Verification
		Octachlorodibenzofuran	Verification
		Octachlorodibenzo-p-dioxin	Verification
SH-09	EM (aff)	Dinoseb	Verification
		2,4-Dichlorophenoxyacetic Acid (2,4-D)	Verification
		Endrin aldehyde	Verification
		1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	Verification

NOTES AND ABBREVIATIONS

See Table 6 for analyte lists and analysis methods
EM (aff) - Evaluation Monitoring (affected media)
Verification - May include primary, duplicate, split, and field blank samples

FIGURES

FIGURE ABBREVIATIONS

RFI Sites

Group 1A

APTF	Advanced Propulsion Test Facility
AI Landfill	Area I Landfill
B-1	B-1 Area
B359	Building 1359 Area
Canyon	Canyon Area
HVN	Happy Valley North
HVS	Happy Valley South
IEL	Instrument and Equipment Laboratories
LETF/CTL-I	Laser Engineering Test Facility/Component Test Laboratory I

Group 1B

Bowl	Bowl Area
CTL-III	Component Test Laboratory III
CTL-V	Component Test Laboratory V
Perimeter Pond	Perimeter Pond
R-1 Pond	R-1 Pond
AI Burn Pit	Area I Burn Pit

Group 2

AII Landfill	Area II Landfill
Ash Pile & B515 STP	Former Area II Incinerator Ash Pile & Building 515 Sewage Treatment Plant
ELV	Expendable Launch Vehicle
LOX	Liquid Oxygen Plant

Group 3

ABFF	Alfa/Bravo Fuel Farm
Alfa	Alfa Area
B204	Building 204 Area
Bravo	Bravo Area
WCT	Hazardous Waste Coolant Tank
SPA	Storable Propellant Area
Skyline Rd	Skyline Road Area

Group 4

Coca	Coca Area
Delta	Delta Area
PLF	Propellant Load Facility

Group 5

B100 Trench	Building 100 Trench
B65 Metals Clarifier	Building 65 Metals Laboratory Clarifier
Boeing LF	Boeing Area IV Leach Fields
Compound A	Compound A Facility
DOE LF1	Department of Energy Leach Field 1
DOE LF2	Department of Energy Leach Field 2
DOE LF3	Department of Energy Leach Field 3
ECL	Engineering Chemistry Laboratory
EEL	Environmental Effects Laboratory
HMSA	Hazardous Material Storage Area
PDU	Process Development Unit
Pond Dredge	Pond Dredge Area
RIHL	Rockwell International Hot Laboratory
SE Drum Yard	Southeast Drum Storage Yard
SNAP	Systems for Nuclear Auxiliary Power Facility
STL-IV	Systems Test Laboratory IV
STP-3	Area III Sewage Treatment Plant

Group 6

B064 LF	Building 064 Leach Field
NCY	New Conservation Yard
OCY	Old Conservation Yard
SRE	Sodium Reactor Experiment

Group 7

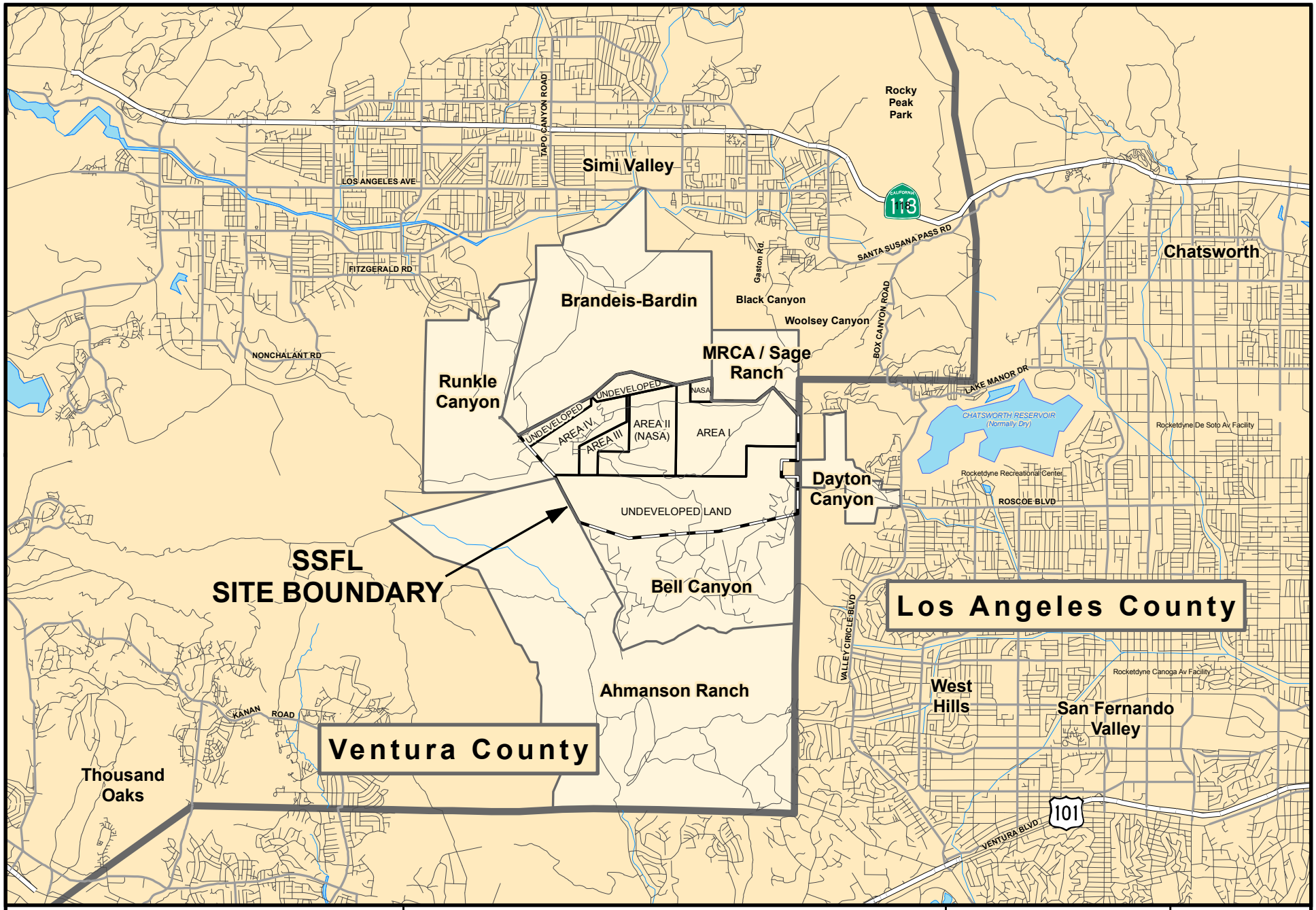
RMHF	Radioactive Materials Handling Facility
B4029	Building 4029 Reactive Metals Storage Yard
B4133	Building 4133 Sodium Burn Facility

Group 8

B009 LF	Building 009 Leach Field
B056 Landfill	Building 056 Landfill
ESADA	Empire State Atomic Development Authority
FSDF	Former Sodium Disposal Facility

Group 9

CDFF	Coca/Delta Fuel Farm
R-2 Ponds	R-2A and R-2B Ponds
Silvernale	Silvernale Resevoir



1 inch = 1.5 miles

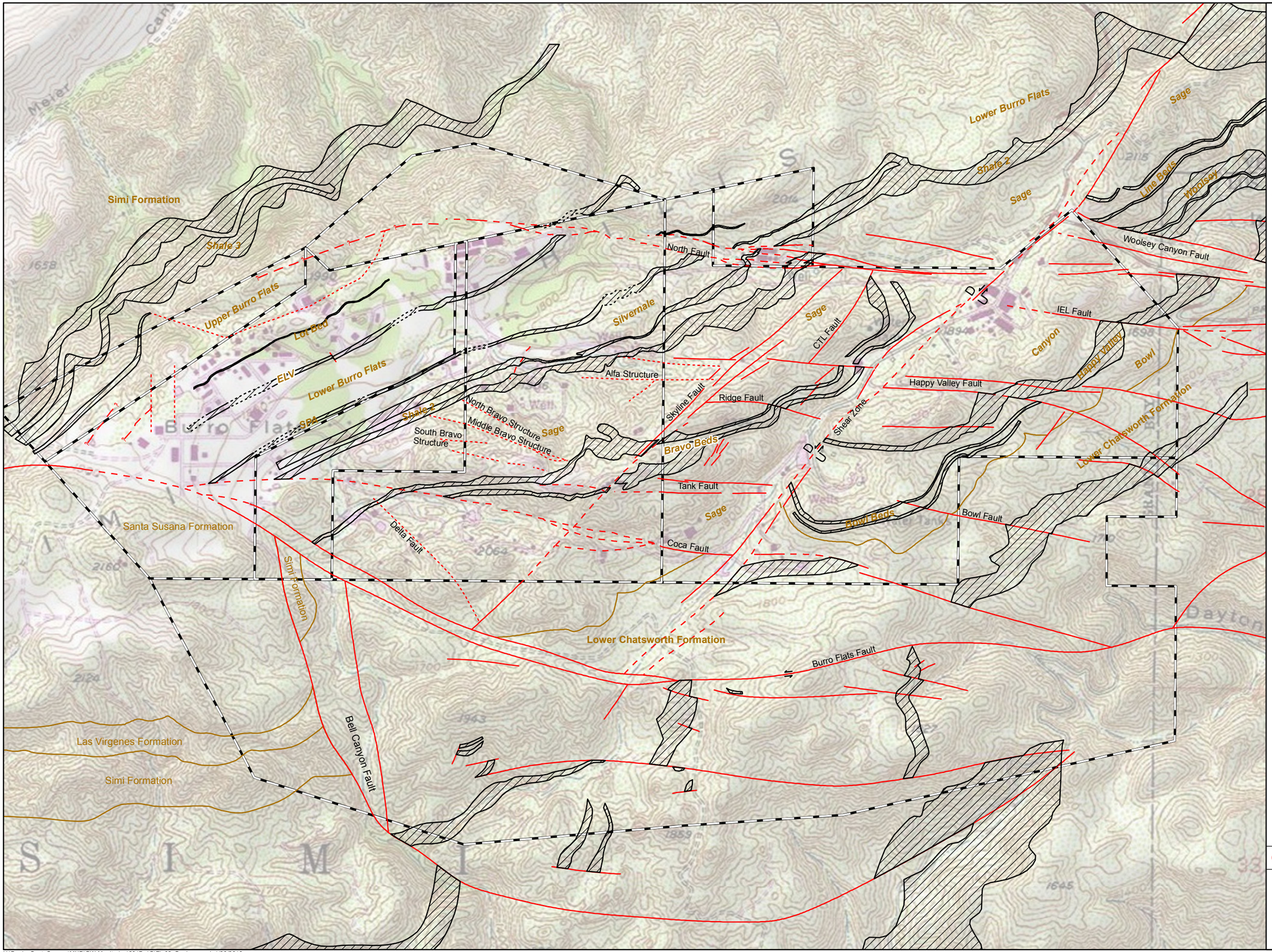
Miles

0 1.5 3

SANTA SUSANA FIELD LABORATORY

Facility Location Map

Figure 1



Legend

- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Administrative Area Boundary
- Simi Formation — Geologic unit - italics if member of Chatsworth Formation

N W E S

0 650 1,300 2,600 Feet

1 inch = 1,300 feet

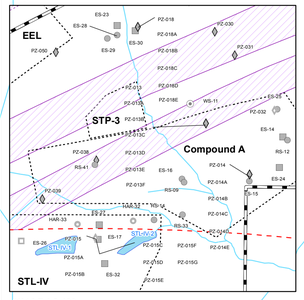
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SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

SSFL GEOLOGIC MAP
FIGURE 2

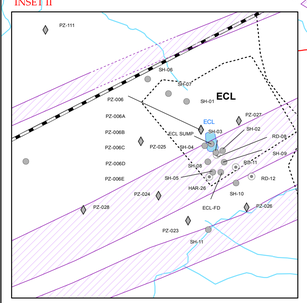
U:\BoeingSantaSusana\MXD\GW Monitoring\2017_4Q\Fig02_Geology.mxd 1/30/2018

INSET I



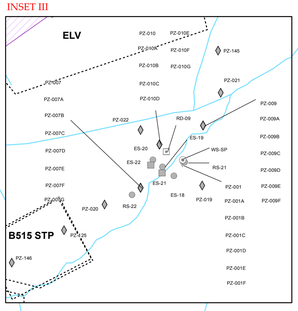
SCALE 1:2,400

INSET II



SCALE 1:2,400

INSET III



SCALE 1:2,400

OS-09 and OS-09R
Approx. 2150 feet North

UNDEVELOPED LAND

NASA AREA I

AREA IV

AREA III

AREA II (NASA)

AREA I (BOEING)

UNDEVELOPED LAND (BOEING)

Drainage Channel

Skyline Rd

B204

B4133

RMHF

B064 LF

B4029

DOE LF1

DOE LF2

DOE LF3

SRE

SE Drum Yard

OCY

NCY

ELV

ECL

Silvernale

Alfa

Bravo

WCT

ABFF

SPA

SPA-2

SPS

Ash Pile & B515 STR

All Landfill

LOX

B-1

B359

HVS

Canyon

HVN

IEL

Al Landfill

APTF

APTF-1

LETF/CTL-1

B056 Landfill

B65 Metals Clarifier

Boeing LF

B100 Trench

B009 LF

RIHL

SNAP

HMSA

PDU

FSDF

ESADA

Pond Dredge

EELL

STP-3

CDDF

R-2 Ponds

Delta

FLF

Coca

CTL-V

CTL-III

Al Burn Pit

Perimeter Pond

R-1 Pond

Bowl

INSET I

INSET II

INSET III

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

0 500 1,000 2,000 Feet

N W E S

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Printing Date: 1/30/2018
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VENTURA COUNTY, CALIFORNIA

LOCATIONS OF WELLS, PIEZOMETERS AND SEEPS
FIGURE 3

INSET I

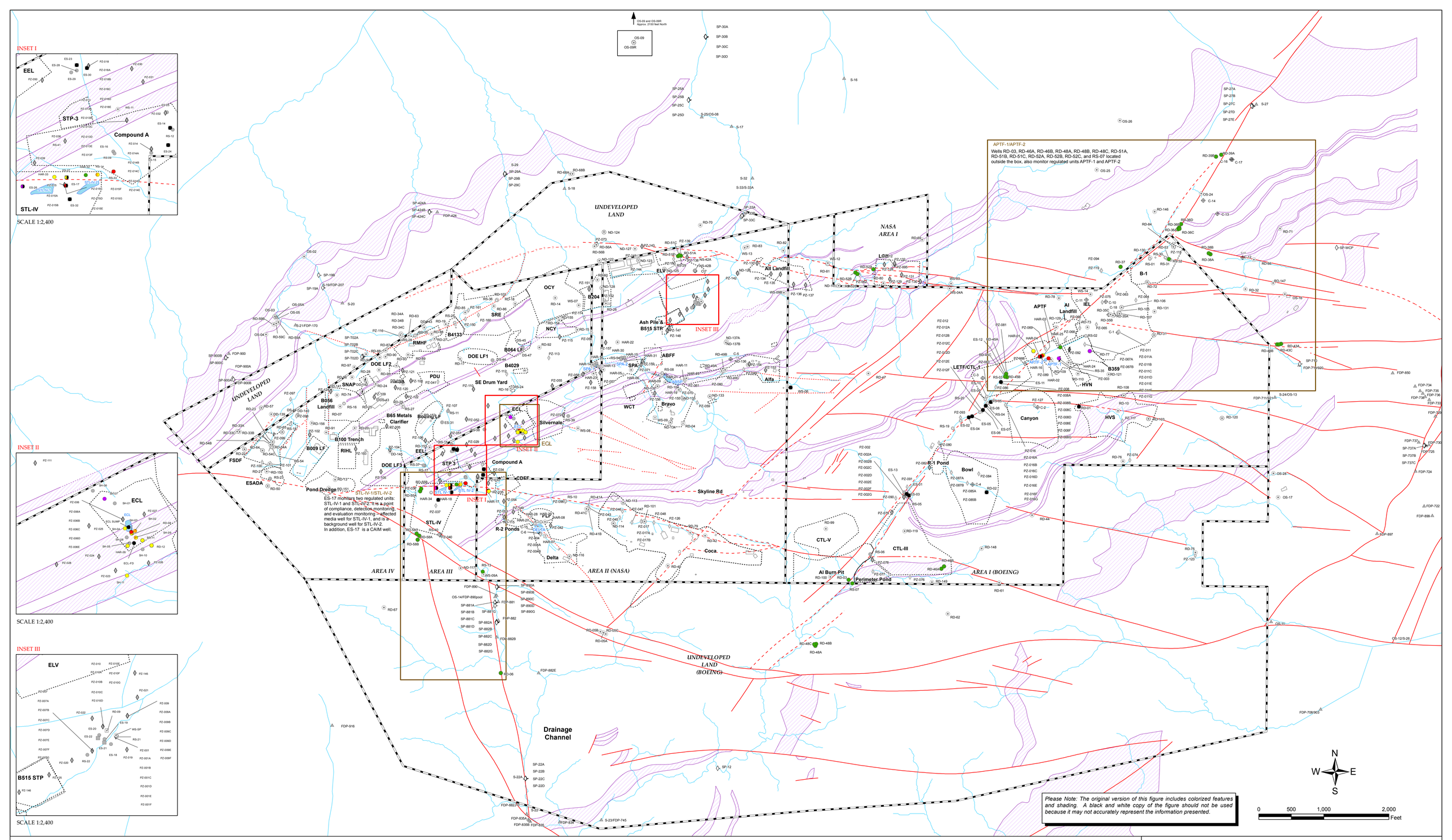
SCALE 1:2,400

INSET II

SCALE 1:2,400

INSET III

SCALE 1:2,400



Regulated Unit Program Monitoring Locations

- Point of Compliance Detection Monitoring and Evaluation Monitoring - Affected Media
- Detection Monitoring
- Evaluation Monitoring
- Evaluation Monitoring - Affected Media
- Background Monitoring
- Corrective Action Interim Measure

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

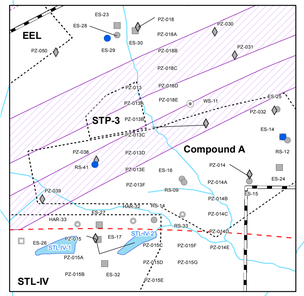
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VENTURA COUNTY, CALIFORNIA

BOEING REGULATED UNIT PROGRAM MONITORING LOCATIONS
FIGURE 4

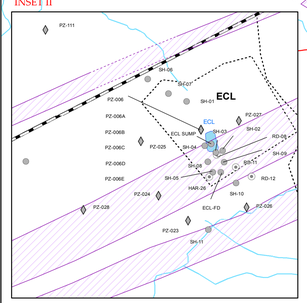
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INSET I



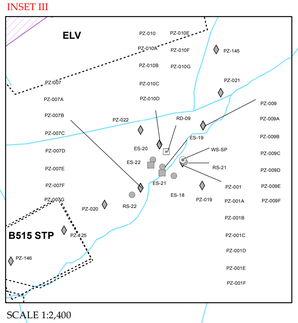
SCALE 1:2,400

INSET II



SCALE 1:2,400

INSET III



SCALE 1:2,400

Site-wide and LUFT Program Monitoring Locations - 2017 Sampling Plan

- Site-wide Program
- LUFT Program
- Site-wide and LUFT Program

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

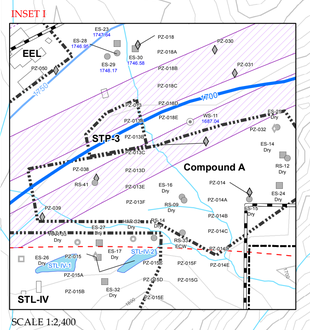
- Administrative Area Boundary
- RI Site Boundary
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

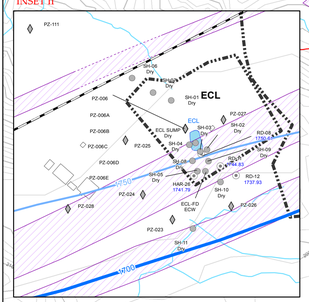
Stantec

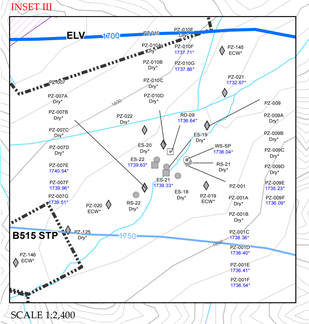
SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA

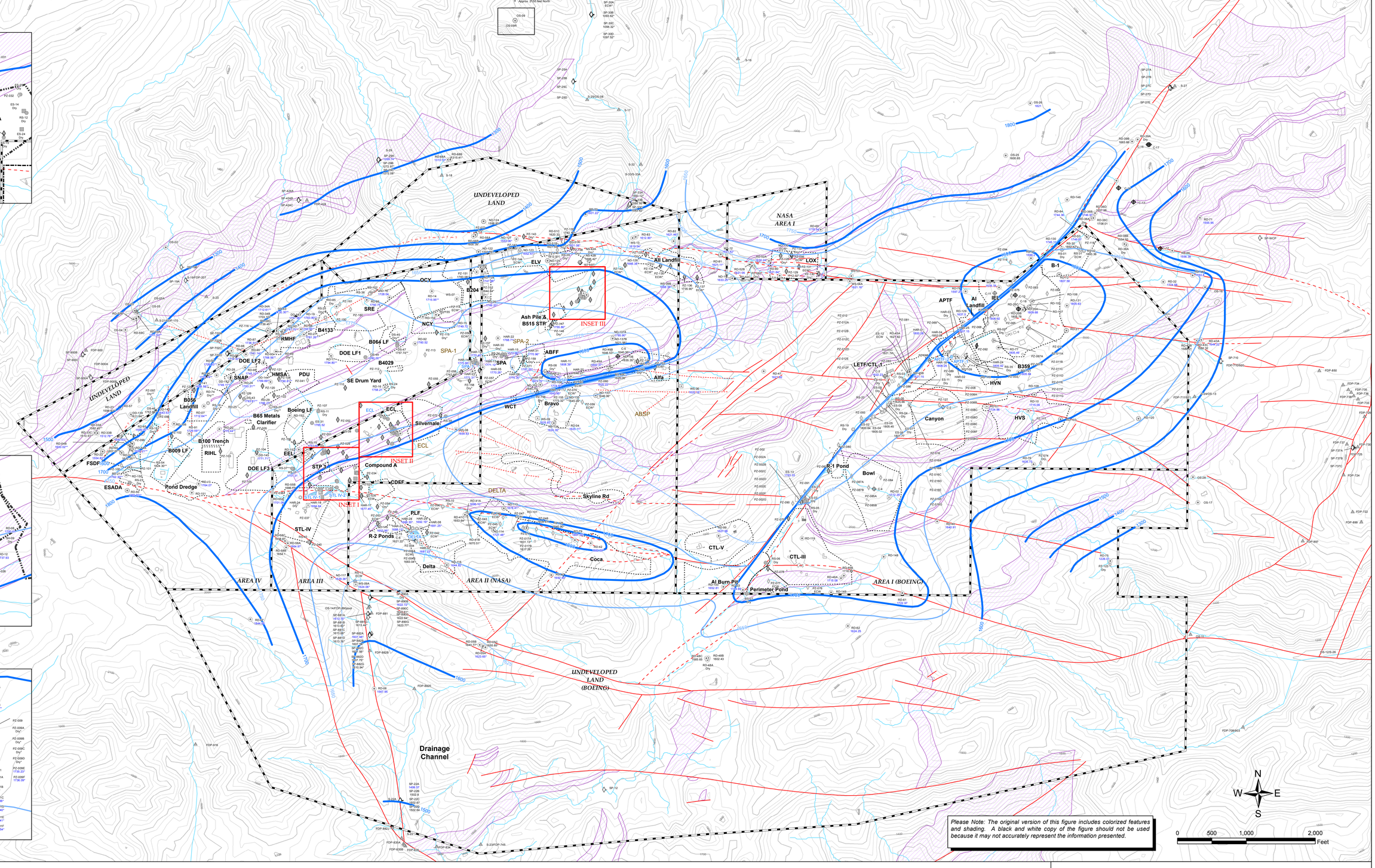
BOEING SITE-WIDE AND LUFT PROGRAM MONITORING LOCATIONS
FIGURE 5

Printing Date: 2/7/2018
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Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Approximate Groundwater Elevation Contours (feet above sea level)

- 25-foot Contour
- 50-foot Contour
- 100-foot Contour
- 1629.20 — Groundwater Level Elevation in Feet Above Mean Sea Level
- 1629.20 — Groundwater Level Elevation in Feet Above Mean Sea Level (water level was not used to generate contour line)
- ECW — Water stranded in the well casing end cap; not representative of water level in formation (well is effectively dry)

Information used to develop the groundwater elevation contours includes topography; the approximate elevations of identified seeps and springs; historical water level data for wells and piezometers not gauged during the third quarter of 2017; and the recognition that groundwater level discontinuities coincide with certain fault segments and other geologic structures.
The site-wide groundwater elevation contours presented on this map were developed collaboratively with NASA and DOE. The groundwater elevations shown for NASA-sponsored wells were collected and provided by NASA (indicated with *), and DOE-sponsored wells were collected and provided by DOE (indicated with **),and are presented in their respective 2017 third quarter groundwater monitoring reports.

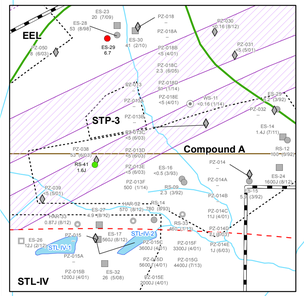
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FEBRUARY 2018

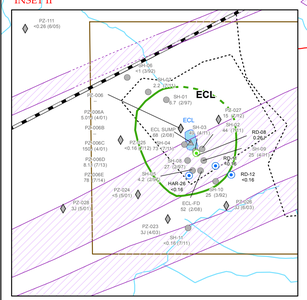
GROUNDWATER ELEVATION CONTOUR MAP
OCTOBER 2017
FIGURE 6

INSET I

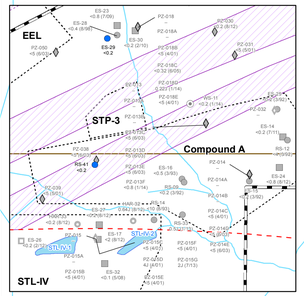


SCALE 1:2,400

INSET II

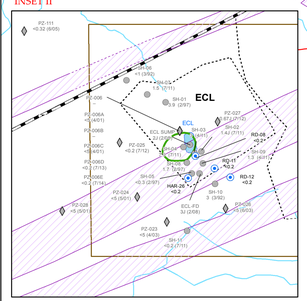


INSET I



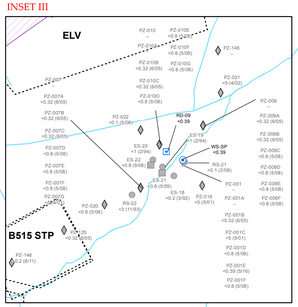
SCALE 1:2,400

INSET II



SCALE 1:2,400

INSET III



SCALE 1:2,400

UNDEVELOPED LAND

NASA AREA I

APTF-1 / APTF-2

Wells RD-03, RD-46A, RD-46B, RD-48A, RD-48B, RD-48C, RD-51A, RD-51B, RD-51C, RD-52A, RD-52B, RD-52C, and RS-07 located outside the box, also monitor regulated units APTF-1 and APTF-2

From June 9, 2014 through February 9, 2015, potassium permanganate was periodically injected into well RD-35A for the in-situ chemical oxidation field experiment. Permanganate injection altered the local groundwater geo- and contaminant chemistry. Therefore, chemical results in this area after the injection period may differ from historical results.

AREA IV

AREA III

AREA II (NASA)

AREA I (BOEING)

UNDEVELOPED LAND (BOEING)

Drainage Channel

Skyline Rd

Coca

Alfa Sprgs Field

OCY

NCY

SRE

B204

ELV

All Landfill

LCX

Ash Pile & B515 STR

B4133

RMHF

DOE LF1

B064 LF

B4029

DOE LF2

HMSA

PDU

SNAP

SE Drum Yard

ABFF

SPA

WCT

Bravo

Alfa

ECL

Silvernale

EGL

B056 Landfill

B65 Metals Clarifier

Boeing LF

B100 Trench

B009 LF

RIHL

EEL2

FSDF

ESADA

Pond Dredge

DOE LF3

STP 3

Compound A

CDEF

STL-IV

R-2 Ponds

FLF

Delta

CTL-V

CTL-III

Al Burn Pit

Perimeter Pond

LETF/CTL-1

APTF

Al Landfill

IEL

B-1

B359

HVN

HVS

Canyon

R-1 Pond

Bowl

INSET I

INSET II

INSET III

STL IV-1 / STL IV-2

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

N W E S

0 500 1,000 2,000 Feet

Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

Values posted beneath well identifiers are maximum concentrations in micrograms per liter (ug/L) detected in 2017 at each location.

Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in parentheses.

Only primary results are shown.

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

Tetrachloroethene in Groundwater above Primary MCL of 5 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

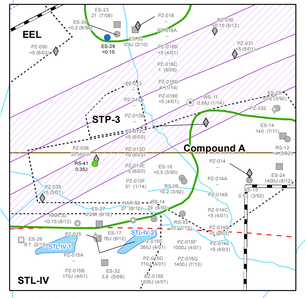
Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF TETRACHLOROETHENE IN GROUNDWATER, 2017
FIGURE 8

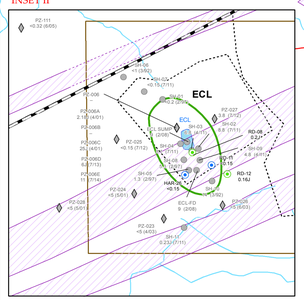
2/7/2018
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INSET I



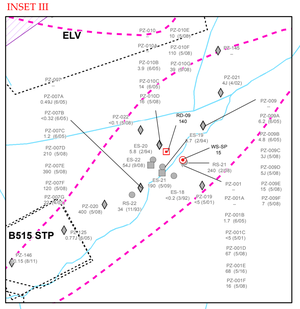
SCALE 1:2,400

INSET II



SCALE 1:2,400

INSET III



SCALE 1:2,400

OS-09 and OS-09R Approx. 2150 feet North

UNDEVELOPED LAND

NASA AREA I

APTF-1 / APTF-2

Wells RD-03, RD-46A, RD-46B, RD-48A, RD-48B, RD-48C, RD-51A, RD-51B, RD-51C, RD-52A, RD-52B, RD-52C, and RS-07 located outside the box, also monitor regulated units APTF-1 and APTF-2

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OCY
NCY
SRE
B204
ELV
All Landfill
LCY
Ash Pile & B515 STP
INSET III
B4133
RMHF
DOE LF1
B064 LF
B4029
DOE LF2
HWSA
PDU
SNAP
SE Drum Yard
ABFF
SPA
Alfa
WCT
Bravo
ECL
Silvernale
INSET II
ECL
B056 Landfill
B65 Metals Clarifier
Boeing LF
B100 Trench
B009 LF
RIHL
EEL
FSDF
ESADA
Pond Dredge
DOE LF3
STP 3
Compound A
CDDF
Skyline Rd
INSET I
STL IV-1 / STL IV-2
STL-IV
R-2 Ponds
PLF
DELTA
Delta
Coca
AREA IV
AREA III
AREA II (NASA)
CTL-V
CTL-III
Al Burn Pit
Perimeter Pond
AREA I (BOEING)
APTF
Al Landfill
IEL
B-1
B359
HVN
LETF/CTL-1
Canyon
HVS
R-1 Pond
Bowl
UNDEVELOPED LAND (BOEING)
Drainage Channel
Alfa Service Field

N
W
E
S

0 500 1,000 2,000 Feet

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Symbol Color for Groundwater Results

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- Not sampled/analyzed

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Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in parentheses.

Only primary results are shown.

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
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- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
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- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

cis-1,2-Dichloroethene in Groundwater above Cal MCL of 6 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF CIS-1,2-DICHLOROETHENE IN GROUNDWATER, 2017
FIGURE 9

2/7/2018
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INSET I

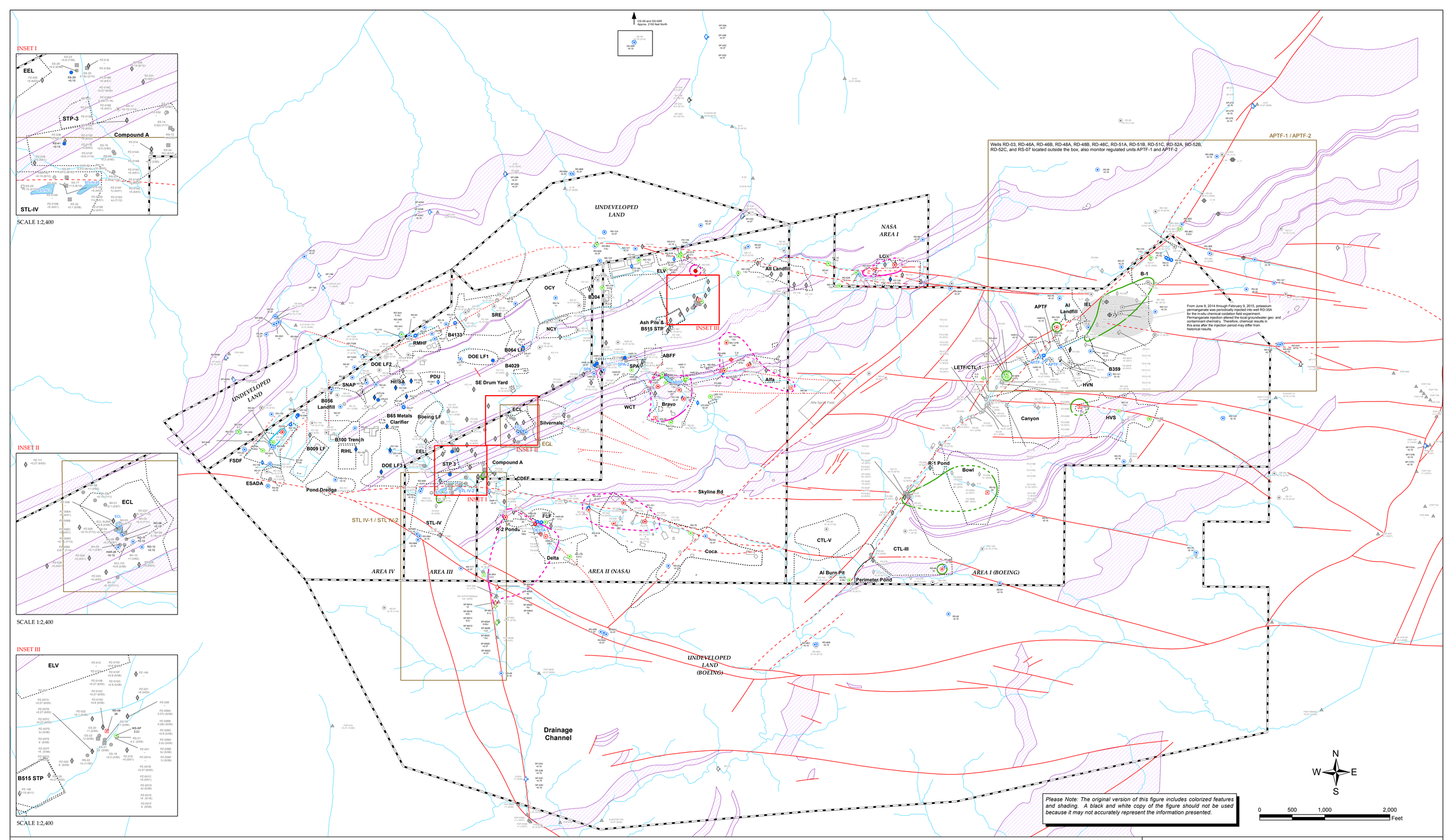
SCALE 1:2,400

INSET II

SCALE 1:2,400

INSET III

SCALE 1:2,400



Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

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Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

trans-1,2-Dichloroethene in Groundwater above Cal MCL of 10 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

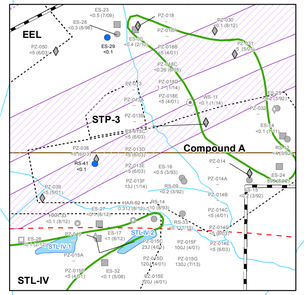
Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF TRANS-1,2-DICHLOROETHENE IN GROUNDWATER, 2017
FIGURE 10

2/8/2018
U:\Boeing\SantaSusana\MXD\GW Monitoring\2017_4Q\Fig10_tDCE.mxd

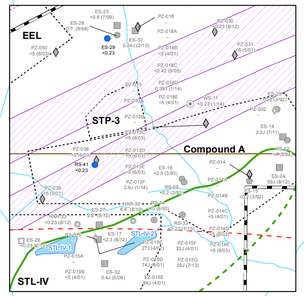
INSET I



SCALE 1:2,400

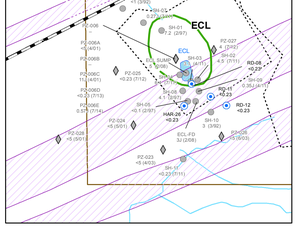
INSET II

INSET I



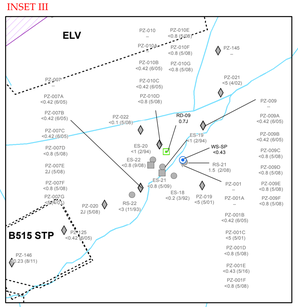
SCALE 1:2,400

INSET II



SCALE 1:2,400

INSET III



SCALE 1:2,400

OS-09 and OS-09R
Approx. 2150 feet North

APTF-1 / APTF-2

Wells RD-03, RD-46A, RD-46B, RD-48A, RD-48B, RD-48C, RD-51A, RD-51B, RD-51C, RD-52A, RD-52B, RD-52C, and RS-07 located outside the box, also monitor regulated units APTF-1 and APTF-2

From June 9, 2014 through February 9, 2015, potassium permanganate was periodically injected into well RD-35A for the in-situ chemical oxidation field experiment. Permanganate injection altered the local groundwater geo- and contaminant chemistry. Therefore, chemical results in this area after the injection period may differ from historical results.

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

0 500 1,000 2,000 Feet

Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

Values posted beneath well identifiers are maximum concentrations in micrograms per liter (ug/L) detected in 2017 at each location.

Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in parentheses.

Only primary results are shown.

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

1,1-Dichloroethene in Groundwater above Cal MCL of 6 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

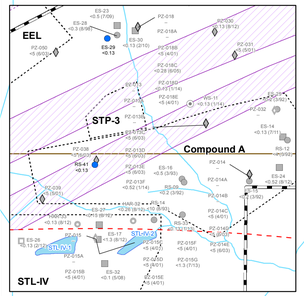
Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF 1,1-DICHLOROETHENE IN GROUNDWATER, 2017
FIGURE 12

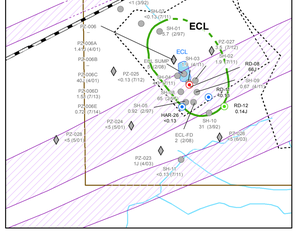
2/7/2018
U:\BoeingSantaSusana\MXD\GW Monitoring\2017_4Q\Fig12_11DCE.mxd

INSET I



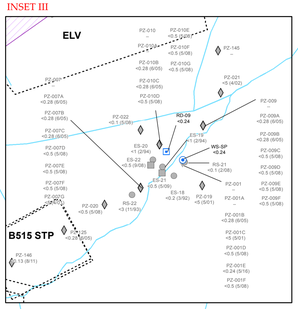
SCALE 1:2,400

INSET II



SCALE 1:2,400

INSET III



SCALE 1:2,400

OS-09 and OS-09R
Approx. 2150 feet North

APTF-1 / APTF-2

Wells RD-03, RD-46A, RD-46B, RD-48A, RD-48B, RD-48C, RD-51A, RD-51B, RD-51C, RD-52A, RD-52B, RD-52C, and RS-07 located outside the box, also monitor regulated units APTF-1 and APTF-2

From June 9, 2014 through February 9, 2015, potassium permanganate was periodically injected into well RD-35A for the in-situ chemical oxidation field experiment. Permanganate injection altered the local groundwater geo- and contaminant chemistry. Therefore, chemical results in this area after the injection period may differ from historical results.

UNDEVELOPED LAND
NASA AREA I
UNDEVELOPED LAND
UNDEVELOPED LAND (BOEING)
AREA IV
AREA III
AREA II (NASA)
AREA I (BOEING)

OCY
B204
SRE
NCY
ELV
All Landfill
LCX
Ash Pile & B515 STR
INSET III
RMHF
B4133
DOE LF1
B064 LF
B4029
DOE LF2
HMSA
PDU
SE Drum Yard
SNAP
B056 Landfill
B65 Metals Clarifier
Boeing LF
B100 Trench
B009 LF
RIHL
FSDF
ESADA
Pond Dredge
DOE LF3
EEL2
STP 3
Compound A
CDDF
INSET II
ECL
EGL
Silvernale
INSET I
ABFF
SPA
Alfa
WCT
Bravo
Alfa Service Field
Skyline Rd
STL IV-1 / STL IV-2
STL-IV
R-2 Ponds
FLF
DELTA
Delta
Coca
CTL-V
CTL-III
Al Burn Pit
Perimeter Pond
Drainage Channel
APTF
Al Landfill
IEL
B-1
B359
HVN
LETF/CTL-1
Canyon
HVS
R-1 Pond
Bowl

N
W
E
S

0 500 1,000 2,000 Feet

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

Values posted beneath well identifiers are maximum concentrations in micrograms per liter (ug/L) detected in 2017 at each location.

Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in parentheses.

Only primary results are shown.

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

1,2-Dichloroethane in Groundwater above Cal MCL of 0.5 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

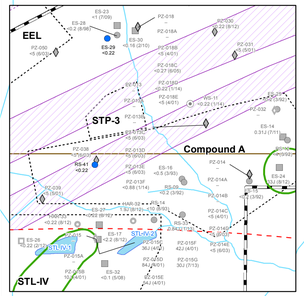
Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF 1,2-DICHLOROETHANE IN GROUNDWATER, 2017
FIGURE 13

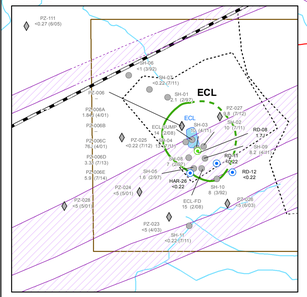
2/7/2018
U:\Boeing\SantaSusana\MXD\GW Monitoring\2017_4Q\Fig13_12DCA.mxd

INSET I



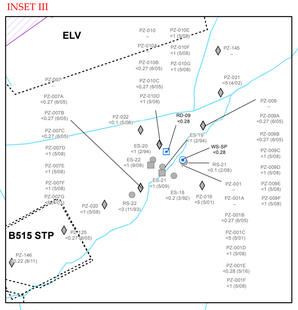
SCALE 1:2,400

INSET II

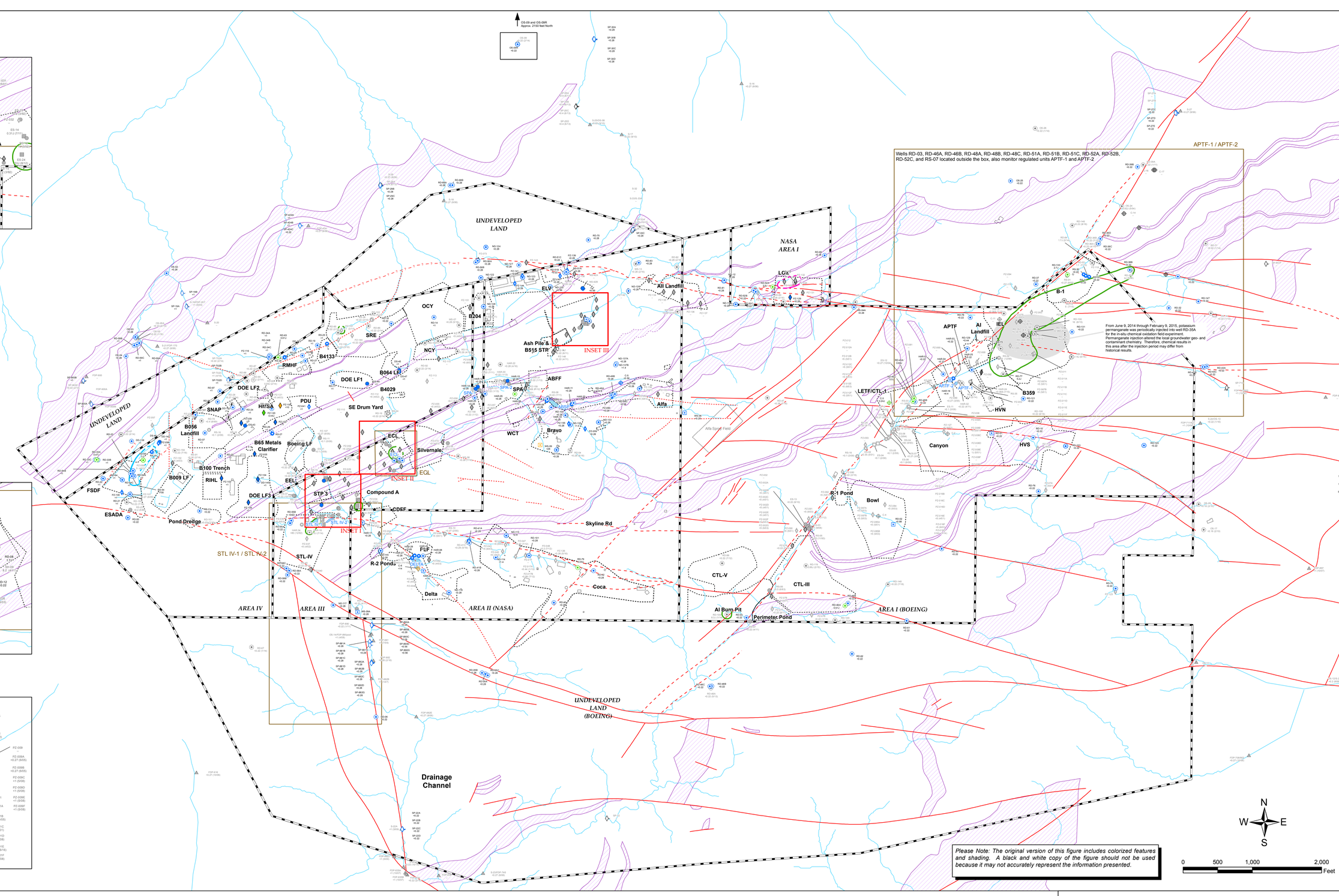


SCALE 1:2,400

INSET III



SCALE 1:2,400



Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

Values posted beneath well identifiers are maximum concentrations in micrograms per liter (ug/L) detected in 2017 at each location.

Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in parentheses.

Only primary results are shown.

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

1,1-Dichloroethane in Groundwater above Cal MCL of 5 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

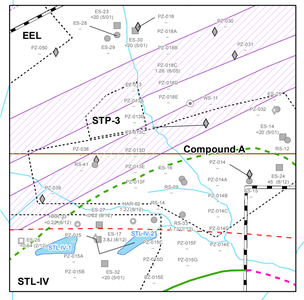
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SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF 1,1-DICHLOROETHANE IN GROUNDWATER, 2017
FIGURE 14

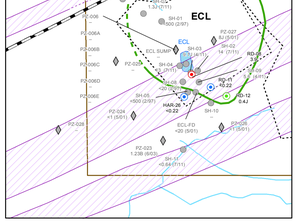
1/30/2018
U:\Boeing\SantaSusana\MXD\GW Monitoring\2017_4Q\Fig14_11DCA.mxd

INSET I



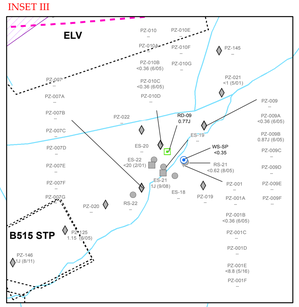
SCALE 1:2,400

INSET II

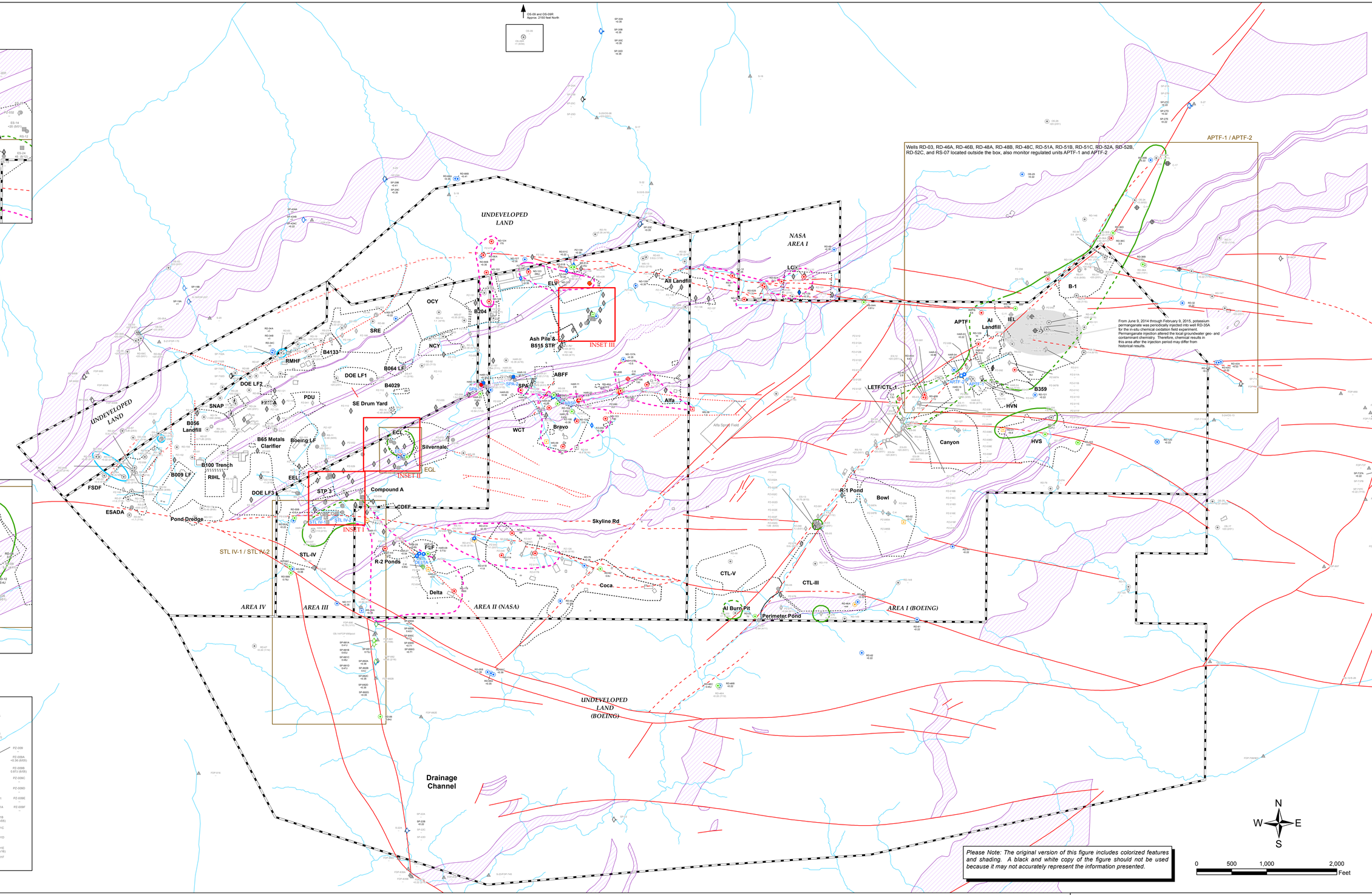


SCALE 1:2,400

INSET III



SCALE 1:2,400



Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

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Only primary results are shown.

Well Type and Groundwater Zone

Groundwater Extraction Wells

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- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

1,4-Dioxane in Groundwater above Notification Level of 1 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

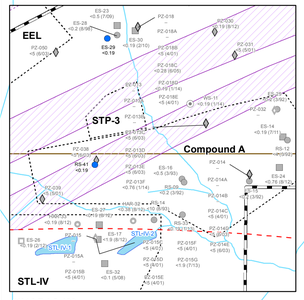
Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF 1,4-DIOXANE IN GROUNDWATER, 2017
FIGURE 15

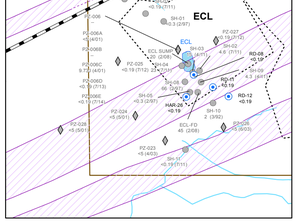
2/7/2018
U:\BoeingSantaSusana\MXD\GW Monitoring\2017_4Q\Fig15_14Dioxane.mxd

INSET I



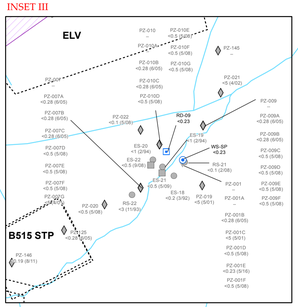
SCALE 1:2,400

INSET II



SCALE 1:2,400

INSET III



SCALE 1:2,400

OS-09 and OS-09R
Approx. 2150 feet North

APTF-1 / APTF-2

Wells RD-03, RD-46A, RD-46B, RD-48A, RD-48B, RD-48C, RD-51A, RD-51B, RD-51C, RD-52A, RD-52B, RD-52C, and RS-07 located outside the box, also monitor regulated units APTF-1 and APTF-2

From June 9, 2014 through February 9, 2015, potassium permanganate was periodically injected into well RD-35A for the in-situ chemical oxidation field experiment. Permanganate injection altered the local groundwater geo- and contaminant chemistry. Therefore, chemical results in this area after the injection period may differ from historical results.

UNDEVELOPED LAND
NASA AREA I
UNDEVELOPED LAND
UNDEVELOPED LAND (BOEING)
AREA IV
AREA III
AREA II (NASA)
AREA I (BOEING)

OCY
B204
SRE
NCY
ELV
All Landfill
LCY
Ash Pile & B515 STR
INSET III
RMHF
B4133
DOE LF1
B064 LF
B4029
DOE LF2
HMSA
SNAP
PDU
SE Drum Yard
ABFF
SPA
Alfa
WCT
Bravo
ECL
Silvernale
EGL
INSET II
B056 Landfill
B65 Metals Clarifier
Boeing LF
B100 Trench
B009 LF
RIHL
EEL
DOE LF3
FSDF
ESADA
Pond Dredge
STP 3
Compound A
CDDF
INSET I
Skyline Rd
STL IV-1 / STL IV-2
STL-IV
R-2 Ponds
FLF
Delta
Coca
Drainage Channel
CTL-V
CTL-III
Al Burn Pit
Perimeter Pond
APTF
Al Landfill
IEL
B-1
B359
HVN
LETF/CTL-1
Canyon
HVS
R-1 Pond
Bowl
Alfa Sports Field

N
W
E
S

0 500 1,000 2,000 Feet

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

Values posted beneath well identifiers are maximum concentrations in micrograms per liter (ug/L) detected in 2017 at each location.

Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in parentheses.

Only primary results are shown.

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

Carbon Tetrachloride in Groundwater above Cal MCL of 0.5 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

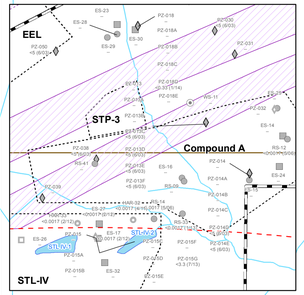
Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

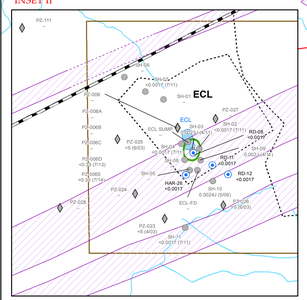
EXTENT OF CARBON TETRACHLORIDE IN GROUNDWATER, 2017
FIGURE 16

1/30/2018
U:\BoeingSantaSusana\MXD\GW Monitoring\2017_4Q\Fig16_CT.mxd

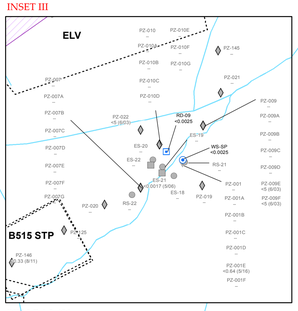
INSET I

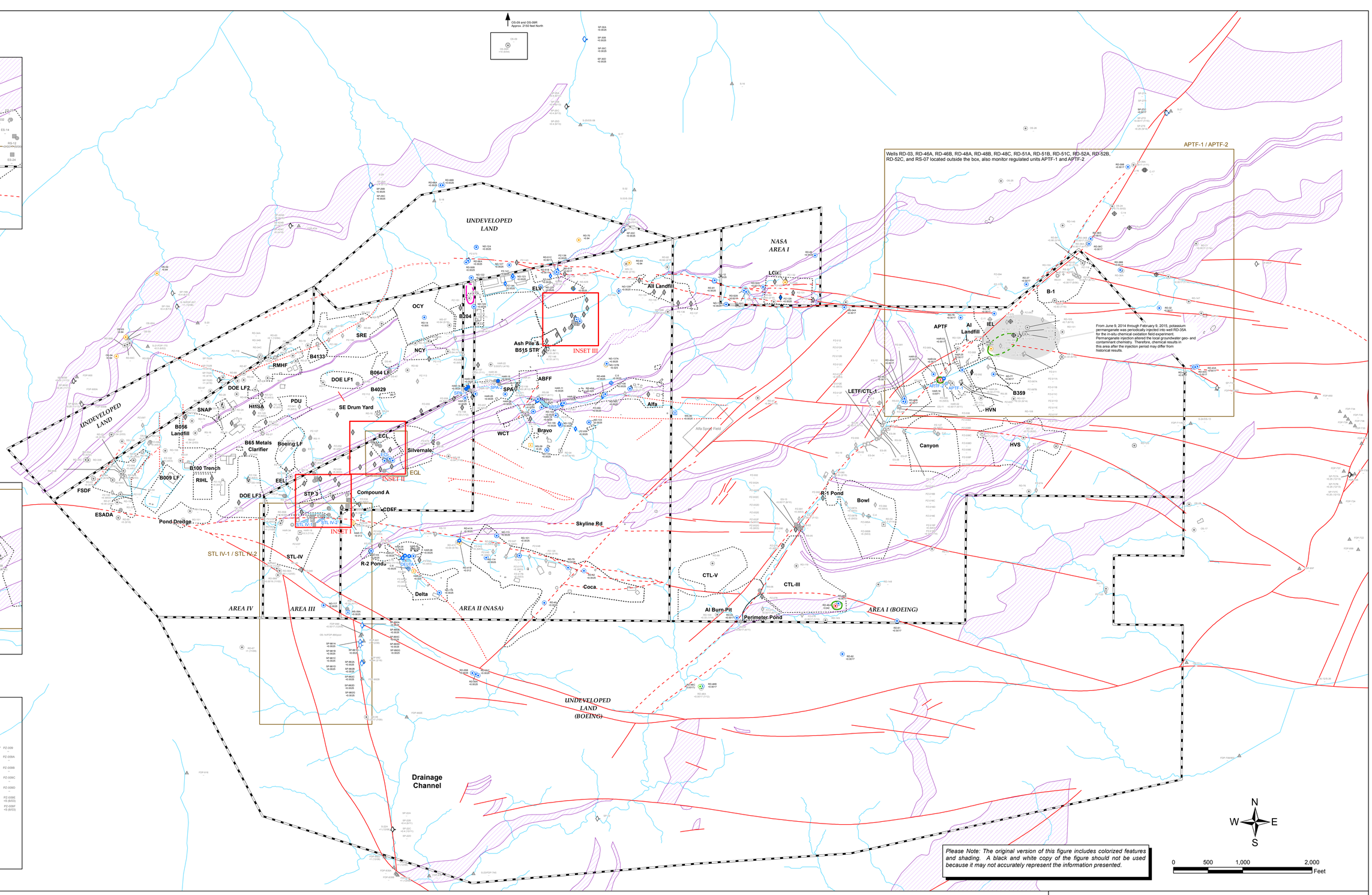


INSET II



INSET III





Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

Values posted beneath well identifiers are maximum concentrations in micrograms per liter (ug/L) detected in 2017 at each location.

Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in (parentheses).

Only primary results are shown.

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

1,2,3-Trichloropropane in Groundwater above Notification Level of 0.005 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

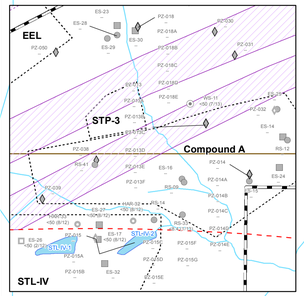
Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF 1,2,3-TRICHLOROPROPANE IN GROUNDWATER, 2017
FIGURE 17

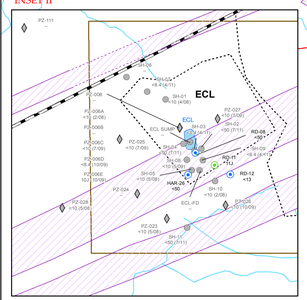
2/7/2018
U:\Boeing\SantaSusana\MXD\GW Monitoring\2017_4Q\Fig17_123TCP.mxd

INSET I



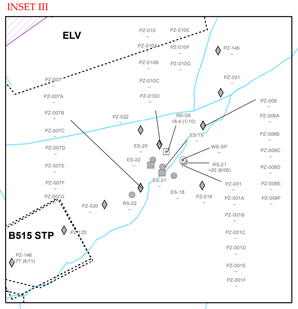
SCALE 1:2,400

INSET II



SCALE 1:2,400

INSET III



SCALE 1:2,400

OS-09 and OS-09R
Approx. 2150 feet North

APTF-1 / APTF-2

Wells RD-03, RD-46A, RD-46B, RD-48A, RD-48B, RD-48C, RD-51A, RD-51B, RD-51C, RD-52A, RD-52B, RD-52C, and RS-07 located outside the box, also monitor regulated units APTF-1 and APTF-2

From June 9, 2014 through February 9, 2015, potassium permanganate was periodically injected into well RD-35A for the in-situ chemical oxidation field experiment. Permanganate injection altered the local groundwater geo- and contaminant chemistry. Therefore, chemical results in this area after the injection period may differ from historical results.

UNDEVELOPED LAND

NASA AREA I

AREA IV

AREA III

AREA II (NASA)

AREA I (BOEING)

UNDEVELOPED LAND (BOEING)

Drainage Channel

Alfa Sand Field

* Not shown within a bounded extent area with formaldehyde concentrations above the reference value because this result is likely not representative of actual conditions at this location (see Section 4.2.5.1 of this report).

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

N
W E
S

0 500 1,000 2,000 Feet

Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

Values posted beneath well identifiers are maximum concentrations in micrograms per liter (ug/L) detected in 2017 at each location.

Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in parentheses.

Only primary results are shown.

Well Type and Groundwater Zone

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- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

Formaldehyde in Groundwater above Notification Level of 100 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

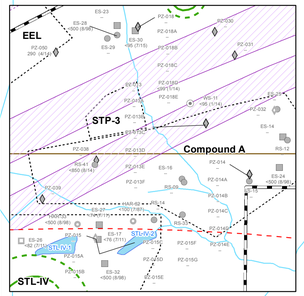
Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

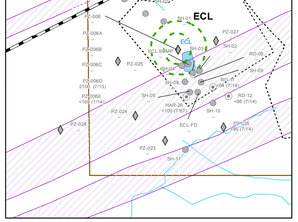
EXTENT OF FORMALDEHYDE IN GROUNDWATER, 2017
FIGURE 18

2/8/2018
U:\Boeing\SantaSusana\MXD\GW Monitoring\2017_4Q\Fig18_Formaldehyde.mxd

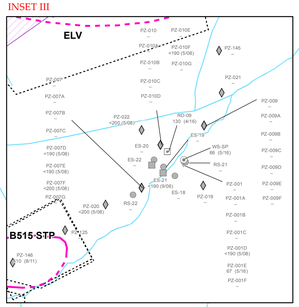
INSET I



INSET II



INSET III



OS-09 and OS-09R
Approx. 2150 feet North

Wells RD-03, RD-46A, RD-46B, RD-48A, RD-48B, RD-48C, RD-51A, RD-51B, RD-51C, RD-52A, RD-52B, RD-52C, and RS-07 located outside the box, also monitor regulated units APTF-1 and APTF-2

APTF-1 / APTF-2

From June 9, 2014 through February 9, 2015, potassium permanganate was periodically injected into well RD-35A for the in-situ chemical oxidation field experiment. Permanganate injection altered the local groundwater geo- and contaminant chemistry. Therefore, chemical results in this area after the injection period may differ from historical results.

UNDEVELOPED LAND

NASA AREA I

UNDEVELOPED LAND

UNDEVELOPED LAND (BOEING)

AREA IV

AREA III

AREA II (NASA)

AREA I (BOEING)

Drainage Channel

Skyline Rd

STL IV-1 / STL IV-2

Coca

Delta

Bravo

Alfa

Alfa Sports Field

Canyon

Bowl

Al Burn Pit

Perimeter Pond

R-2 Ponds

R-1 Pond

Pond Dredge

Silvernale

OCY

NCY

SRE

ELV

Ash Pile &
B515 STP

All Landfill

LCA

APTF

Al Landfill

IEL

B-1

B359

HVN

HVS

LETF/CTL-1

CTL-V

CTL-III

RMHF

B4133

DOE LF1

DOE LF2

B064 LF

B4029

SE Drum Yard

PDU

SNAP

B056
Landfill

B65 Metals
Clarifier

Boeing LF

B100 Trench

B009 LF

RIHL

DOE LF3

FSDF

ESADA

EEL2

STP 3

Compound A

ODEF

B204

SPA

ABFF

WCT

INSET I

INSET II

INSET III

EGL

* - First time and/or suspect TPH reference value exceedance; a bounded TPH extent area may be added at this location in the future if there are consistent TPH reference value exceedances in future sampling results.

** - NASA's TPH extent map is based upon EFH (C8-C30), for which there was not an exceedance of the reference value at this location. For consistency with the TPH extents presented in NASA's annual report figure, the GRO (C4-C12) reference value exceedance at this location is shown without or outside of a bounded TPH extent area with concentrations in groundwater above the reference value.

Note 1: Data presented in the figure are a combination of Gasoline Range Organic hydrocarbon, Diesel Range Organic hydrocarbon, or other Total Petroleum hydrocarbon type analysis results for various carbon-chain ranges from C4 to C30.

Note 2: Gasoline Range Organics groundwater data were screened against the typical laboratory reporting limit of 50 ug/L rather than the Taste/Odor Threshold of 5 ug/L.

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

N
W E
S

0 500 1,000 2,000 Feet

Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

Values posted beneath well identifiers are maximum concentrations in micrograms per liter (ug/L) detected in 2017 at each location.

Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in parentheses.

Only primary results are shown.

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- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

TPH in Groundwater above Taste/Odor Threshold of 100 ug/L for TPH C12-C30, and reporting limit of 50 ug/L for TPH C4-C12

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

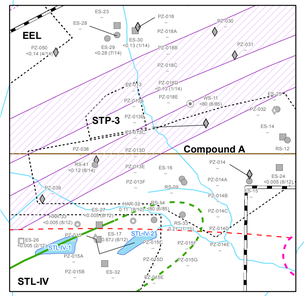
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SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF TOTAL PETROLEUM HYDROCARBONS C4-C30 IN GROUNDWATER, 2017
FIGURE 19

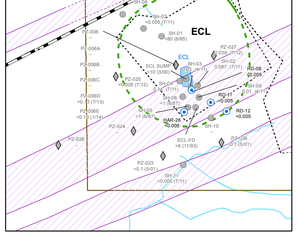
2/8/2018
U:\BoeingSantaSusana\MXD\GW Monitoring\2017_4Q\Fig19_TPH.mxd

INSET I



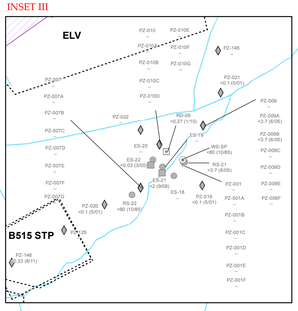
SCALE 1:2,400

INSET II



SCALE 1:2,400

INSET III



SCALE 1:2,400

OS-09 and OS-09R
Approx. 2150 feet North

Wells RD-03, RD-46A, RD-46B, RD-48A, RD-48B, RD-48C, RD-51A, RD-51B, RD-51C, RD-52A, RD-52B, RD-52C, and RS-07 located outside the box, also monitor regulated units APTF-1 and APTF-2

APTF-1 / APTF-2

From June 9, 2014 through February 9, 2015, potassium permanganate was periodically injected into well RD-35A for the in-situ chemical oxidation field experiment. Permanganate injection altered the local groundwater geo- and contaminant chemistry. Therefore, chemical results in this area after the injection period may differ from historical results.

UNDEVELOPED LAND

NASA AREA I

UNDEVELOPED LAND

UNDEVELOPED LAND (BOEING)

AREA IV

AREA III

AREA II (NASA)

AREA I (BOEING)

OCY
B204
SRE
NCY
B4133
RMHF
B064 LF
DOE LF1
DOE LF2
B4029
SE Drum Yard
SNAP
HMSA
PDU
B056 Landfill
B65 Metals Clarifier
Bowling LF
B100 Trench
B009 LF
RIHL
FSDF
ESADA
Pond Dredge
EEL2
DOE LF3
STP 3
Compound A
CDEF
ECL
Silvernale
EGL
ELV
All Landfill
LCA
Ash Pile & B515 STR
ABFF
SPA
WCT
Bravo
Alfa
Alfa Service Road
Skyline Rd
R-2 Ponds
Delta
Coca
CTL-V
CTL-III
Al Burn Pit
Perimeter Pond
R-1 Pond
Bowl
Canyon
HVS
HVN
LETF/CTL-1
APTF
IEL
Al Landfill
B-1
B359
Drainage Channel
STL IV-1 / STL IV-2
STL-IV
INSET I
INSET II
INSET III

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

N W E S

0 500 1,000 2,000 Feet

Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

Values posted beneath well identifiers are maximum concentrations in micrograms per liter (ug/L) detected in 2017 at each location.

Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in parentheses.

Only primary results are shown.

Well Type and Groundwater Zone

Groundwater Extraction Wells

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- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

NDMA in Groundwater above Notification Level of 0.01 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

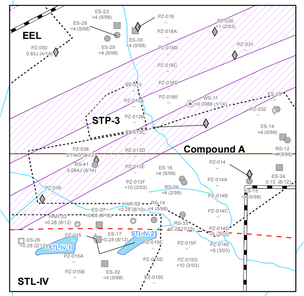
Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF N-NITROSODIMETHYLAMINE IN GROUNDWATER, 2017
FIGURE 20

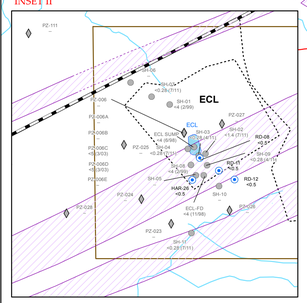
2/7/2018
U:\BoeingSantaSusana\MXD\GW Monitoring\2017_4Q\Fig20_NDMA.mxd

INSET I



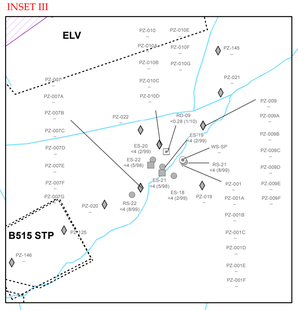
SCALE 1:2,400

INSET II



SCALE 1:2,400

INSET III



SCALE 1:2,400

OS-09 and OS-09R
Approx. 2150 feet North

UNDEVELOPED LAND

NASA AREA I

LCA

All Landfill

ELV

OCY

B204

SRE

NCY

B4133

RMHF

DOE LF1

B064 LF

B4029

DOE LF2

SNAP

PDU

SE Drum Yard

Ash Pile &
B515 STR

INSET III

ABFF

SPA

WCT

Bravo

Alfa

Alfa Service Field

ECL

Silvernale

EGL

INSET II

B056
Landfill

B65 Metals
Clarifier

Boomer LF

B100 Trench

RIHL

B009 LF

EEL2

DOE LF3

FSDF

ESADA

Pond Dredge

STP 3

Compound A

CDEF

INSET I

Skyline Rd

STL IV-1 / STL IV-2

STL-IV

R-2 Ponds

FLF

DESTA

Delta

Coca

AREA IV

AREA III

AREA II (NASA)

CTL-V

CTL-III

Al Burn Pit

Perimeter Pond

AREA I (BOEING)

UNDEVELOPED LAND (BOEING)

Drainage Channel

APTF-1 / APTF-2

Wells RD-03, RD-46A, RD-46B, RD-48A, RD-48B, RD-48C, RD-51A, RD-51B, RD-51C, RD-52A, RD-52B, RD-52C, and RS-07 located outside the box, also monitor regulated units APTF-1 and APTF-2

From June 9, 2014 through February 9, 2015, potassium permanganate was periodically injected into well RD-35A for the in-situ chemical oxidation field experiment. Permanganate injection altered the local groundwater geo- and contaminant chemistry. Therefore, chemical results in this area after the injection period may differ from historical results.

APTF

Al Landfill

IEL

B-1

B359

HVN

HVS

Canyon

LETF/CTL-1

R-1 Pond

Bowl

N
W E
S

0 500 1,000 2,000 Feet

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Symbol Color for Groundwater Results

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- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

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- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

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- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

Perchlorate in Groundwater above Cal MCL of 6 ug/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

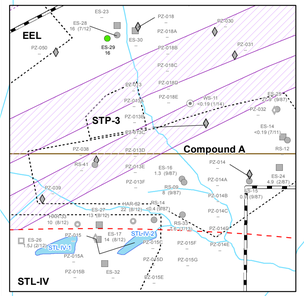
Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF PERCHLORATE IN GROUNDWATER, 2017
FIGURE 21

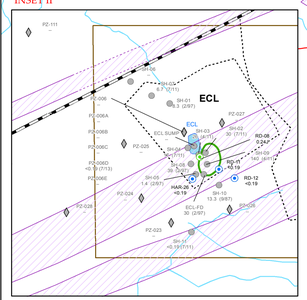
1/30/2018
U:\Boeing\SantaSusana\MXD\GW Monitoring\2017_4Q\Fig21_Perchlorate.mxd

INSET I



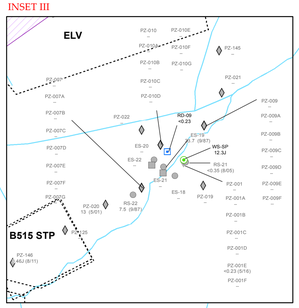
SCALE 1:2,400

INSET II



SCALE 1:2,400

INSET III



SCALE 1:2,400

Nitrate-N results were converted to Nitrate-NO3 so that all site-wide nitrate results could be screened and presented together on this figure.

OS-09 and OS-09R
Approx. 2150 feet North

UNDEVELOPED LAND

NASA AREA I

APTF-1 / APTF-2

Wells RD-03, RD-46A, RD-46B, RD-48A, RD-48B, RD-48C, RD-51A, RD-51B, RD-51C, RD-52A, RD-52B, RD-52C, and RS-07 located outside the box, also monitor regulated units APTF-1 and APTF-2

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UNDEVELOPED LAND

UNDEVELOPED LAND (BOEING)

AREA IV

AREA III

AREA II (NASA)

AREA I (BOEING)

Drainage Channel

Skyline Rd

Coca

Delta

Alfa Sports Field

STL IV-1 / STL IV-2

INSET I

INSET II

INSET III

EGL

ECL

LCY

All Landfill

ELV

OCY

B204

SRE

NCY

B4133

RMHF

DOE LF1

B064 LF

B4029

DOE LF2

SE Drum Yard

PDU

SNAP

B056 Landfill

B65 Metals Clarifier

B65 Oil/Gas LF

B100 Trench

B009 LF

RIHL

EEL2

DOE LF3

FSDF

ESADA

Pond Dredge

STP 3

Compound A

ODEF

STL-IV

R-2 Ponds

FLF

Ash Pile & B515 STR

ABFF

SPA

WCT

Bravo

Silvernale

Alfa

APTF

Al Landfill

IEL

B-1

B359

HVN

LETF/CTL-1

Canyon

HVS

R-1 Pond

Bowl

CTL-V

CTL-III

Al Burn Pit

Perimeter Pond

N
W E
S

0 500 1,000 2,000 Feet

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

Symbol Color for Groundwater Results

- Detected above screening level
- Detected at or below screening level
- Not detected
- Detection limit exceeds screening level for all results at this location
- Not sampled/analyzed

Values posted beneath well identifiers are maximum concentrations in micrograms per liter (ug/L) detected in 2017 at each location.

Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in parentheses.

Only primary results are shown.

Well Type and Groundwater Zone

Groundwater Extraction Wells

- Groundwater Extraction Well, Perched
- Groundwater Extraction Well, Near Surface (Monitors Regional Water Table)
- Groundwater Extraction Well, Chatsworth Formation

Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

- Abandoned Well
- Core Holes

Basemap

- Administrative Area Boundary
- RI Site Boundary
- Regulated Units
- Post-Closure Impoundments
- Fault - location accurate, identity and existence certain
- Fault - location inferred, identity and existence certain
- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

Nitrate-NO3 in Groundwater above Cal MCL of 45 mg/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

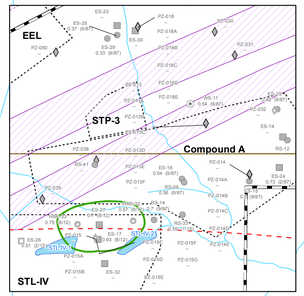
Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF NITRATE-NO3 IN GROUNDWATER, 2017
FIGURE 22

2/8/2018
U:\BoeingSantaSusana\MXD\GW Monitoring\2017_4Q\Fig22_NO3.mxd

INSET I



SCALE 1:2,400

INSET II

SCALE 1:2,400

INSET III

SCALE 1:2,400

* - Not included in bounded extent area with concentrations in groundwater above the screening value - fluoride occurs naturally in SSFL groundwater. Elevated fluoride concentrations in off-site and/or undeveloped areas are likely naturally occurring and unrelated to any potential SSFL contaminant sources.

OS-09 and OS-09R Approx. 2150 feet North

UNDEVELOPED LAND

NASA AREA I

UNDEVELOPED LAND

UNDEVELOPED LAND (BOEING)

AREA IV

AREA III

AREA II (NASA)

AREA I (BOEING)

APTF-1 / APTF-2

Wells RD-03, RD-46A, RD-46B, RD-48A, RD-48B, RD-48C, RD-51A, RD-51B, RD-51C, RD-52A, RD-52B, RD-52C, and RS-07 located outside the box, also monitor regulated units APTF-1 and APTF-2

From June 9, 2014 through February 9, 2015, potassium permanganate was periodically injected into well RD-35A for the in-situ chemical oxidation field experiment. Permanganate injection altered the local groundwater geo- and contaminant chemistry. Therefore, chemical results in this area after the injection period may differ from historical results.

Please Note: The original version of this figure includes colorized features and shading. A black and white copy of the figure should not be used because it may not accurately represent the information presented.

N W E S

0 500 1,000 2,000 Feet

Values posted beneath well identifiers are maximum concentrations in micrograms per liter (ug/L) detected in 2017 at each location.

Values posted at locations with no 2017 results are for the most recent analytical result with collection date shown in parentheses.

Only primary results are shown.

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Groundwater Monitoring Wells

- Groundwater Monitoring Well, Perched
- Groundwater Monitoring Well, Near Surface (Monitors Regional Water Table)
- Groundwater Monitoring Well, Chatsworth Formation

Piezometers

- Piezometer, Perched
- Piezometer, Near Surface (Monitors Regional Water Table)
- Piezometer, Chatsworth Formation
- Piezometer, Seep

Seeps/Springs

- Seep/spring

Other

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Basemap

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- Fault - location inferred, identity and existence uncertain
- Structure or lineament
- Fine-Grained Unit (shale/siltstone) Dashed Where Inferred
- Drainages

Areas of Impacted Groundwater

Fluoride in Groundwater above SSFL Comparison of 0.8 mg/L

Impacted groundwater extent interpreted and provided by:

- Boeing
- NASA (CFGW)[1]
- NASA (NSGW)[1]
- DOE

[1] NASA shows chemical extents separately for Chatsworth Formation Groundwater (CFGW) and Near Surface Groundwater (NSGW)

Stantec

SANTA SUSANA FIELD LABORATORY
VENTURA COUNTY, CALIFORNIA
FEBRUARY 2018

EXTENT OF FLUORIDE IN GROUNDWATER, 2017
FIGURE 23

2/7/2018
U:\BoeingSantaSusana\MXD\GW Monitoring\2017_4Q\Fig23_Fluoride.mxd

APPENDICES
(Provided Electronically on Disc)

Appendix A – Monitoring Well and Piezometer Construction Data

Appendix B – Precipitation Data and Seeps in the Vicinity of WS-09A

Appendix C – Water Level Hydrographs

Appendix D – Time Series Plots of Analytical Data

Appendix E – Laboratory Analytical Reports

Appendix F – Quality Assurance Assessment