April 2015

# Remedial Investigation Report Addendum
# Chino Airport
# San Bernardino County, California

Prepared for:
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SAN BERNARDINO COUNTY

**Airports**
**Administration**

**James E. Jenkins**
Director

April 30, 2015

Ms. Patricia Hannon
Site Cleanup Program
California Regional Water Quality Control Board, Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501-3348

SUBJECT: Remedial Investigation Report Addendum, Chino Airport, San Bernardino County, California

Reference: a) Cleanup and Abatement Order No. R8-2008-0064

Dear Ms. Hannon:

On behalf of the County of San Bernardino, Department of Airports, and in accordance with the above referenced Cleanup and Abatement Order, enclosed is one copy of the Remedial Investigation Report Addendum for your review. This report documents the procedures used and the results of the additional groundwater investigation activities performed at the Chino Airport between October 29, 2013 and April 20, 2015.

Thank you in advance for your participation in the review of the attached information. Should you require additional information, please contact the County's technical representative, Ben Weink with Tetra Tech, Inc. at 909-382-5120.

Sincerely,

James E. Jenkins
Director of Airports

Enclosures: As Stated

cc: Kavounas, P., Chino Basin Watermaster (1 copy)
Paxton, C., Chino Desalter Authority (1 copy)
Malone, A., Wildermuth Environmental (1 copy)
Messinger, R., SB County Counsel (1 copy)
Alban, C., SB County A&E (letter only)
Weink, B., Tetra Tech (letter only)

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# REMEDIAL INVESTIGATION REPORT ADDENDUM
# CHINO AIRPORT
# SAN BERNARDINO COUNTY, CALIFORNIA

**Prepared by:**

TETRA TECH

**Prepared for:**

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**Department of Architecture and Engineering**
**385 North Arrowhead Avenue, Third Floor**
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**April 2015**


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## ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| μg/L | micrograms per liter |
| Airport | Chino Airport |
| AOC | area of concern |
| ASTM | American Society for Testing and Materials |
| BTEX | benzene, toluene, ethylbenzene, xylenes |
| CDA | Chino Desalter Authority |
| County | County of San Bernardino Department of Airports |
| CPT | cone penetrometer test |
| $CPT_u$ | piezocone penetrometer test |
| 1,2-DCA | 1,2–dichloroethane |
| DCE | total dichloroethene |
| 1,1-DCE | 1,1–dichloroethene |
| cis-1,2-DCE | cis–1,2–dichloroethene |
| DSITMS | Direct Sampling Ion Trap Mass Spectrometry |
| DO | dissolved oxygen |
| EC | electrical conductivity |
| EPA | Environmental Protection Agency |
| IG | investigation goal |
| MCL | maximum contaminant level |
| MS/MSD | matrix spike/matrix spike duplicate |
| nSBT | normal soil behavior types |
| PAC | Pacific Airmotive Corporation |
| PCE | tetrachloroethene |
| PPDT | pore pressure dissipation tests |
| PVC | poly vinyl chloride |
| QA/QC | quality assurance/quality control |
| RI | remedial investigation |
| RWQCB | California Regional Water Quality Control Board, Santa Ana Region |
| SAIC | Science Applications International Corporation |
| SAWPA | Santa Ana Watershed Protection Agency |
| SBT | soil behavior types |
| SEACOR | Science & Engineering Analysis Corporation |
| SIM | selected ion monitoring |

| | |
|---|---|
| 1,1,1-TCA | 1,1,1–trichloroethane |
| TCE | trichloroethene |
| TCRA | time critical removal action |
| 1,2,3-TCP | 1,2,3–trichloropropane |
| Tetra Tech | Tetra Tech, Inc. |
| TPH | total petroleum hydrocarbons |
| TPH-d | total petroleum hydrocarbons as diesel |
| TPH-g | total petroleum hydrocarbons as gasoline |
| USEPA | United States Environmental Protection Agency |
| U.S. | United States |
| UVF | ultraviolet fluorescence |
| VAP | vertical aquifer profiling |
| VOC | volatile organic compound |
| WEI | Wildermuth Environmental, Inc. |

# 1.0 INTRODUCTION

On behalf of the County of San Bernardino (County), Tetra Tech, Inc. (Tetra Tech) has prepared this addendum to the *Remedial Investigation Report, Chino Airport, San Bernardino County, California* (Tetra Tech, 2014a) which documents the procedures and findings of the groundwater remedial investigation activities performed between October 2013 and April 2015 at the Chino Airport (Airport) in Chino, California. Although the soil and groundwater remedial investigations were conducted concurrently, reporting of the investigations was completed into two separate efforts due to the additional time required to complete the groundwater plume delineation activities and installation of additional monitoring wells. Figure 1 shows the boundary of the Airport property and the regional vicinity of the Airport, which is located within the boundaries of the Chino Basin in San Bernardino County, California.

The field investigation activities were performed to comply with Cleanup and Abatement Order No. R8-2008-0064 [California Regional Water Quality Control Board (RWQCB) Santa Ana Region, 2008]. The work was done in accordance with the following documents:

- *Work Plan for Additional Site Characterization, Chino Airport, San Bernardino County, California* (Tetra Tech, 2013a), herein referred to as the "Work Plan";
- *Addendum to Work Plan for Additional Site Characterization, Chino Airport, San Bernardino County, California* (Tetra Tech, 2014b), and;
- *Second Addendum to Work Plan for Additional Site Characterization, Chino Airport, San Bernardino County, California* (Tetra Tech, 2014c).

The Work Plan was approved by the RWQCB, the lead agency for this project, on October 28, 2013.

This addendum to the *Remedial Investigation Report* (Tetra Tech, 2014a) which documents the results of the groundwater investigation activities was prepared using the suggested format in Chapter 3 of the *Guidance for Conducting Remedial Investigations and Feasibility Studies Under Compensation, and Liability Act (CERCLA)*, which provides direction on the preparation of remedial investigation (RI) reports for uncontrolled hazardous waste sites developed for the Superfund program under CERCLA and the National Oil and Hazardous Substances Pollution Contingency Plan (USEPA, 1988; and USEPA, 1990).

## 1.1 OBJECTIVES OF THE GROUNDWATER REMEDIAL INVESTIGATION AND PURPOSE OF THE REPORT

The objective of this phase of the RI was to complete the groundwater plume characterization in order to support the evaluation of mitigation alternatives and refinement of the groundwater conceptual site model

for the site. The goal of the investigation was to utilize a dynamic sampling plan to complete the characterizations in an expedited manner following the general guidelines of the United States Environmental Protection Agency's (EPA) Triad Approach. This strategy was utilized to organize what was already known about affected groundwater for this investigation and help identify information gaps to guide project decisions. To provide a comprehensive evaluation of the nature and extent of contamination, this document incorporates data and findings from previous investigations performed at the Airport.

## 1.2 REPORT ORGANIZATION

This document is organized as follows:

- Section 1—Introduction: Describes the purpose and scope of the remedial investigation and the organization of this report.
- Section 2—Site Background: Provides a brief site description, history of the site, summarizes previous investigations, and the groundwater monitoring program.
- Section 3—Environmental Setting: Provides a description of the regional geology and hydrogeology in the area of the site, groundwater gradients and trends, and the nature and extent of contamination based on prior investigations.
- Section 4—Methodology: Provides a summary of the methodology and procedures used to conduct the field investigation.
- Section 5—Investigation Results: Presents the results of the field investigation along with interpretations of the data.
- Section 6 — Conclusions: Summarizes the conclusions of the groundwater remedial investigation
- Section 7 – Recommendations: Provides recommendations for any further work.
- Section 8—References: Provides a list of the documents referenced in this report.

# 2.0 SITE BACKGROUND

This section presents a summary of the site description, site history, previous investigations, and removal actions performed at the Airport.

## 2.1 SITE DESCRIPTION

The Airport is located at 7000 Merrill Avenue within the City of Chino. Former names include Cal-Aero Airport, Cal-Aero Academy, Plancor 406, Cal-Aero Flight Academy, Cal-Aero Field and Cal-Aero Academy Ontario (SAIC, 2002). The Airport property is currently comprised of approximately 1,100+ acres of land and is bounded by Merrill Avenue to the north, Grove Avenue to the east, Kimball Avenue on the south and Euclid Avenue on the west (Figure 1).

## 2.2 SITE HISTORY

Portions of the Airport property have functioned as an airfield since the early 1940s. Past and present uses consist of a flight academy, aircraft sales and storage, modification of military aircraft, various manufacturing, crop dusting, aircraft restoration and maintenance repair shops, aircraft painting, stripping and washing, mixing and loading of fire retardant chemicals for forest fires and a maintenance and operational facility for the United States Forest Service aircraft and aircraft museums. A detailed site history is documented in the *Historical Assessment Report, Chino Airport* (Tetra Tech, 2013b).

Prior to 1940, the Airport property was primarily used for agriculture purposes. In 1940, 385 acres of land was leased to Cal-Aero from the County with plans to construct a pilot training school, Cal-Aero Academy. In 1941, the Cal-Aero Academy was transferred to an agency of the federal government. In 1942, a War Department directive authorized the acquisition of 294.41 acres of adjoining land located east and south of the Cal-Aero Academy. The U.S. Government made improvements by expanding the east-west runway, constructing the southwest-northeast runways, taxiways, airplane dispersal revetments, sewage treatment plant, storm drainage system, fencing, and installation of three underground storage tanks. Cal-Aero Academy operations continued through 1944.

Between 1946 and 1947, the Aircraft Sales Division of the War Assets Administration used the property under informal permit from the Reconstruction Finance Corporation for storage, sales, dismantling, and salvage of surplus military aircraft. In 1948, the 679.41 acre Airport property was returned to the County, the lease with Reconstruction Finance Corporation terminated and the U.S. Government-owned land was transferred by quitclaim deed.

The County leased the Airport property to Pacific Airmotive Corporation (PAC) from 1950 to 1961 which

modified and overhauled military and civilian aircraft. According to the Board of Supervisors Minutes dated January 3, 1961, a notification letter dated December 29, 1960 was issued to the County stating that PAC elected to terminate the lease agreement effective March 1, 1961.

Since 1961, the County has operated the Airport property as a public airport for commercial, industrial and aviation use. Businesses and activities conducted at the Airport have included fixed base operators, two crop dusters, and five aircraft shops for engine overhaul, napalm production, installation, painting, washing, stripping, and the mixing and loading of fire retardant chemicals used for forest fires.

## 2.3 PREVIOUS INVESTIGATIONS AND REMOVAL ACTIONS

Following preparation of the July 1989 *Preliminary Report on Generators of PCE and TCE at the Chino Airport* (SBDEHS, 1989), which identified potential generators of chlorinated solvents and a number of environmental issues at the site) several phases of investigation and/or abatement have been completed. A brief description of each primary phase of assessment/abatement and the scope of work performed at the site since 1989 are presented in this section. For additional information on a specific phase, please refer to the respective referenced report(s). A complete history of site investigation activities can be found in the *Historical Site Assessment Report* (Tetra Tech, 2013b).

### 2.3.1 1991 Underground Storage Tanks Closure

In September 1991, a total of 10 inactive underground storage tanks (UST) were removed under oversight from Kennedy/Jenks Consultants (Kennedy/Jenks, 1991). A brief summary of the removal details for each UST are in the following table.

| UST ID | Reported Contents | Excavation Dimensions (length-width-depth) | Sample IDs | Chemical analyses (USEPA Method) | Backfill |
|---|---|---|---|---|---|
| C-5 | Gasoline | 19’x10’x13’ | C-5 | TPH-g (8015), BTEX (8020) | Excavated soils |
| C-5A | Gasoline | 7’x10’x7’ | C-5A | TPH-g (8015), BTEX (8020) | Excavated soils |
| C-8 | Jet Fuel | 39’x14’x15’ | C-8W, C-8E | TPH-g/d (8015), BTEX (8020) | Excavated soils |
| C-9 | Gasoline | 15’x10’x10’ | C-9 | TPH-g (8015), BTEX (8020) | Not reported |
| C-15 | Gasoline | 10’x24’x20’ | C-15N, C-15S | TPH-g (8015), BTEX (8020) | Excavated soils & fill |
| C-18[1] | Unknown | 43’x14’x20’ | C-18N, C-18S, C-18&19 | Purgeable halocarbons (8010), BTEX (8020), TPH (418.1) | Excavated soils & fill |
| C-19[1] | Unknown | 40’x14’x17’ | C-19N, C-19S | Purgeable halocarbons (8010), BTEX (8020), TPH (418.1) | Excavated soils |
| C-22[2] | Aviation gas | 10’x32’x14’ | C-22N, C-22S | TPH-g (8015), BTEX (8020) | Excavated soils |
| C-23[2] | Aviation gas | 10’x32’x14’ | C-23N, C-23S | TPH-g (8015), BTEX (8020) | Excavated soils |
| C-24 | Gasoline | 20’x8’x15’ | C-24 | TPH-g (8015), BTEX (8020) | Not reported |

Notes:
1: C-18 and C-19 were removed from a single excavation with approximate total dimensions of 83’x20’
2: C-19 and C-20 were removed from a single excavation with approximate total dimensions of 20’x32’
USEPA: United States Environmental Protection Agency
TPH: total petroleum hydrocarbons
TPH-g: total petroleum hydrocarbons as gasoline

TPH-d: total petroleum hydrocarbons as diesel
BTEX: benzene, toluene, ethylbenzene, xylenes

Two tanks (identified as C-20 and C-21) believed to be present near USTs C-18 and C-19 were never located; however, C-18 and C-19 were twice as large as reported in the *Preliminary Report on Generators of PCE and TCE at the Chino Airport*. The following were also conducted in conjunction with the UST removals:

- The product lines associated with UST C-15 were removed and soils beneath them were excavated to a depth of approximately 2.5 feet. One soil sample (C-15P-1) was collected and analyzed for TPH-g using USEPA Method 8015 and for BTEX using USEPA Method 8020.
- The product lines associated with USTs C-22 and C-23 were removed. No soil samples were collected from this area.
- A sump (4'x4'x4') located south of UST C-15 was removed. One soil sample (SUMP-1) was collected from beneath the sump and analyzed for TPH-g and TPH-d using USEPA Method 8015 and for TPH using USEPA Method 418.1.

### 2.3.2 1992 Drum and Container Removal

In February through May 1992, Kennedy/Jenks oversaw the removal and disposal of 310 drums/containers of hazardous waste collected from various locations at the Airport (Kennedy/Jenks, 1992). The contents of the drums/containers were characterized as:

- 3,950 gallons of used motor oil with less than 1,000 parts per million halide content and more than 50% water (172 drums/containers);
- 260 gallons of waste oil with less than 10% water (23 drums/containers);
- 100 gallons of urethane and lacquer based paint sludge and grease sludge (43 drums/containers);
- 500 gallons of bulk solvent with 75% Stoddard solvent, 1% 1,1,1-tricloroethane (1,1,1-TCA), 20% oil and 4% water (39 drums/containers);
- 40 gallons of tetrachloroethene (PCE) (1 drum/container);
- 100 gallons of hydrochloric and phosphoric acid (8 drums/containers);
- 40 gallons of laurel sulfate based detergent, pH-12.5 (2 drums/containers); and
- 50 gallons of oil sludge and adsorbent (2 drums/containers).

### 2.3.3 1992 Preliminary Assessment of Volatile Organic Compounds

In February through May 1992, Science & Engineering Analysis Corporation (SEACOR) conducted a preliminary assessment of 12 priority areas identified in the *Report of Preliminary Assessment of TCE/PCE Contamination* (SEACOR, 1992a). A total of 74 soil borings, 11 soil gas probes, 21 sludge samples, and a magnetic survey were used to initially assess the presence/absence of volatile organic compounds (VOC) at: Area B; Area AA; Area H; Area Y; Area CC; Area Z and Building 24; Building 30; Area S; Building 15; Areas J and G; Area P; and Area F. A brief summary of the scope of work performed in each area is in the following table.

| Area/ Building ID | Scope of Work | Number of Samples Analyzed by Media | Summary of Chemical Analyses |
|---|---|---|---|
| Area B | 7 HA borings (5'-20') | 18 soil, 6 soil gas | All soil, soil gas, and sludge samples were analyzed using USEPA Method 8010. One soil sample and two soil gas samples were also analyzed using USEPA Method 8240. |
| | 1 HSA boring (50') | 5 soil | |
| | Sludge Pond sampling | 21 sludge | |
| Area AA | 6 HSA borings (20'-50') | 25 soil, 3 soil gas | All soil and soil gas samples were analyzed using USEPA Method 8010. The three soil gas samples were also analyzed using USEPA Method 8240. |
| Area H | 4 HSA borings (20'-50') | 17 soil, 3 soil gas | All soil and soil gas samples were analyzed using USEPA Method 8010. |
| Area Y | 3 HSA borings (20'-50') | 19 soil | All soil samples were analyzed using USEPA Method 8010. Three soil samples were also analyzed using USEPA Method 8240 and one analyzed using USEPA Method 418.1. The soil gas sample was analyzed using USEPA Methods 8010 and 8240. |
| | 1 soil gas probe (5') | 1 soil gas | |
| Area CC | 3 HSA borings (20'-50') | 13 soil | All soil samples were analyzed using USEPA Method 8010. |
| Area Z/ Building 24 | 10 HSA borings (20'-50') | 40 soil, 6 soil gas | All soil and soil gas samples were analyzed using USEPA Method 8010. The soil gas sample collected from the probe was also analyzed using USEPA Method 8240. |
| | 1 soil gas probe (5') | 1 soil gas | |
| Building 30 | 5 HSA borings (20'-50') | 21 soil, 3 soil gas | All soil and soil gas samples were analyzed using USEPA Method 8010. The soil gas sample collected from the probe was also analyzed using USEPA Method 8240. |
| | 1 soil gas probe (5') | 1 soil gas | |
| Area S | 3 HSA borings (20'-50') | 13 soil, 1 soil gas | All soil and soil gas samples were analyzed using USEPA Method 8010. The soil gas sample collected from the probe was also analyzed using USEPA Method 8240. |
| | 1 soil gas probe (5') | 1 soil gas | |
| Building 15 | 5 HSA borings (20'-50') | 23 soil, 3 soil gas | All soil and soil gas samples were analyzed using USEPA Method 8010. Four soil samples and the soil gas sample collected from the probe were also analyzed using USEPA Method 8240. |
| | 1 soil gas probe (5') | 1 soil gas | |
| Areas J & G | 12 HSA borings (20'-50') | 56 soil, 4 soil gas | All soil and soil gas samples were analyzed using USEPA Method 8010. The five soil gas samples collected from the probes were also analyzed using USEPA Method 8240. |
| | 5 soil gas probes (5'-20') | 5 soil gas | |
| Area P | Magnetic survey | N/A | N/A |
| Area F | 4 HA borings (18'-20') | 8 soil | The soil samples collected from the four HA borings were analyzed for CAM metals. The remaining soil samples and all the soil gas samples were analyzed using USEPA Method 8010. The soil gas sample collected from the probe was also analyzed using USEPA Method 8240. |
| | 11 HSA borings (20'-50') | 25 soil, 9 soil gas | |
| | 1 soil gas probe (5') | 1 soil gas | |

Notes:
HSA: hollow stem auger boring
HA: hand-auger boring
CAM: California Assessment Manual

USEPA Method 8010: analysis for halogenated volatile organic compounds
USEPA Method 8240: analysis for volatile organic compounds
USEPA Method 418.1: analysis for total petroleum hydrocarbons

### 2.3.4 1992-2001 Continuing Assessment of Volatile Organic Compounds and Subsurface Investigations

In November 1992, SEACOR drilled and sampled a total of seven soil borings in Area Z/Building 24, Building 15, and Areas J & G (SEACOR, 1992b). Two borings (A15-7 and J-6) were drilled to a depth of approximately 50 feet. The remaining five borings (A15-6, G-11, G-12, Z-10, and Z-11) were drilled to a depth of approximately 30 feet. Soil samples were collected from the mid-point and base of each boring and analyzed for VOCs using USEPA Method 8010. In 1994, Kennedy/Jenks investigated subsurface soils at the wastewater treatment plant to evaluate proper closure of the former plant and disposal ponds. Soil samples were collected at depths of one, five, and 10 feet at 39 locations and no VOCs (including trichloroethene [TCE] and PCE) were detected in the one and five foot samples, so no 10 foot samples were analyzed. Then, in 2001, Clark Seif Clark conducted a limited subsurface investigation to determine the location, areal extent, approximate depth and volume, and the potential environmental impact of fertilizer placed in the former evaporation ponds.

### 2.3.5 2003 Groundwater Assessment

In June and July 2003, Tetra Tech installed five monitoring wells (CAMW1 through CAMW5) to conduct an initial assessment of groundwater beneath the Airport (Tetra Tech, 2003). The wells were installed to depths between approximately 89 to 118 feet at various locations within the Airport property, primarily in the western and northwestern areas. A groundwater monitoring program was initiated at the site following the installation of the wells. The initial groundwater samples collected from the wells were analyzed for VOCs using USEPA Method SW8260B and for common major cations and anions using USEPA Method 300.0, SM2320B, and USEPA Method SW6010B.

### 2.3.6 2004-2005 Well Installation and Soil Gas Survey

In December 2004 and January 2005, Tetra Tech installed a total of 14 dual completion soil gas probes at the Airport (Tetra Tech, 2005a). The soil gas probes were installed to depths up to 40 feet in 8 potential source areas identified in the *Preliminary Report on Generators of PCE and TCE at the Chino Airport*. Soil gas samples collected from the probes in February 2004 were analyzed for VOCs using USEPA Method SW8260B. Soil gas samples could not be collected from soil gas probes located in the areas designated as Building 15, Z1, and Z2 due to no-flow conditions believed to be the result of low permeability or saturated soils.

In March 2005, four groundwater monitoring wells (CAMW6 through CAMW9) were installed by Tetra Tech (Tetra Tech, 2005a). The wells were installed to depths between approximately 80 to 100 feet within the Airport property. Following development, the wells were incorporated into the ongoing groundwater monitoring program for the site.

### 2.3.7 2007 Downgradient Plume Characterization

In February 2007, following the successful completion of a cone penetrometer test (CPT) pilot test in October 2005, Tetra Tech advanced nine CPT (K1 to K3, B1 to B3, and P1 to P3) and 14 direct push borings (E4, E5, K8, K10, K13, F1, F3, S1, S3, B7, B8, B11, B12 and B15) within the suspected downgradient plume area (Tetra Tech; 2005b, 2007). E4 and E5 were advanced to depths of 116 and 80 feet, respectively, along Euclid Avenue adjacent to the western boundary of the site. K1 to K3, K8, K10, and K13 were advanced to depths between 105 and 147 feet along Kimball Avenue immediately south and west of the site. F1 and F3 were advanced along Fern Avenue and S1 and S3 were advanced along San Antonio Avenue southwest of the site to depths between 125 and 140 feet. B1 to B3, B7, B8, B11, B12 and B15 were advanced to depths between 54 and 142 feet along Bickmore Avenue between Moonflower Avenue on the east and Mountain Avenue on the west. P1 to P3 were advanced to depths between 50 and 85 feet along Pine Avenue between Euclid Avenue on the east and El Prado Road on the west. A total of 60 depth-discrete groundwater samples were collected at varying intervals from the 23 locations and analyzed for VOCs using USEPA Method SW8260B.

### 2.3.8 2008 Characterization of Vertical Extent of Plume

Between October and December 2008, Tetra Tech installed three sets of clustered groundwater monitoring wells, with three wells in each cluster (CAMW10-S/I/D; CAMW11-S/I/D; CAMW12-S/I/D), along the approximate centerline of the solute plume (Tetra Tech, 2009). Up to 14 depth-discrete groundwater samples were first collected from the deepest boring at each well cluster and analyzed for VOCs using USEPA Method SW8260B. The samples were collected at varying intervals between approximately 37 to 302 feet. Based on the results: CAMW10-S, CAMW11-S, and CAMW12-S were installed to depths of approximately 70, 95, and 54 feet, respectively; CAMW10-I, CAMW11-I, and CAMW12-I were installed to depths of approximately 135, 145, and 100 feet, respectively; and, CAMW10-D, CAMW11-D, and CAMW12-D were installed to depths of approximately 305, 233, and 225 feet, respectively. The deepest boring at each well cluster was continuously cored to the total depth drilled. In addition to the groundwater samples, five unsaturated soil samples were submitted for petrophysical analyses including moisture content using American Society for Testing and Materials (ASTM) D2216, moisture and dry density using ASTM D2937, total porosity, total organic carbon using Walkley-Black, and air permeability using

American Petroleum Institute RP40. Following development, the wells were incorporated into the ongoing groundwater monitoring program for the site.

### 2.3.9 2010 Time-Critical Removal Action

In July and August 2010, a time critical removal action (TCRA) was performed under the supervision of Tetra Tech following the discovery of three buried drums during trenching activities for a storm water pipeline south of Building A290 (Tetra Tech, 2010). A total of 51 drums of a jellied fuel mixture of gasoline and polystyrene, several aluminum canisters, remains of wood pallets, and associated affected soils were removed and disposed of as part of the TCRA. A total of 20 confirmation soil samples were collected from the excavation and analyzed for VOCs using USEPA Method SW8260B, semi-volatile organic compounds (SVOCs) using USEPA Method SW8270C, TPH $C^6$-$C^{40}$ using USEPA Method SW8015B[M], CAM17 metals using USEPA Method SW6010B/7000 and moisture content using ASTM Method D266.

### 2.3.10 2010 Additional Plume Characterization

From September to December 2010, five additional sets of clustered wells, with two wells in each cluster (CAMW13-S/I through CAMW17-S/I) were installed by Tetra Tech (Tetra Tech, 2011). Up to 10 depth discrete groundwater samples were first collected from the deepest boring at each well cluster location and analyzed for VOCs using USEPA Method SW8260B. The samples were collected at varying intervals between approximately 30 and 205 feet. Based on the results of the depth-discrete sampling, CAMW13-S through CAMW17-S were installed to depths between approximately 48 and 75 feet and CAMW13-I through CAMW17-I were installed to depths between approximately 94.5 and 140 feet. Following development, the wells were incorporated into the ongoing groundwater monitoring program for the site.

### 2.3.11 2012 Additional Plume Characterization

From May to July and September to December 2012, seven additional sets of clustered monitoring wells, with two wells in each cluster (CAMW18-S/I through CAMW24-S/I), were installed by Tetra Tech (Tetra Tech; 2012, 2013c). Up to 12 depth discrete groundwater samples were first collected from the deepest boring at each well cluster location and analyzed for VOCs using USEPA Method SW8260B. The samples were collected at varying intervals between approximately 20 and 250 feet. Based on the results of the depth-discrete sampling, CAMW18-S through CAMW24-S were installed to depths between approximately 44 and 82 feet and CAMW18-I through CAMW24-I were installed to depths between approximately 140 and 184 feet. Following development, the wells were incorporated into the ongoing groundwater monitoring program for the site.

### 2.3.12 2014 Soil Remedial Investigation

A Soil Remedial Investigation was performed at the Airport from May 2014 to October 2014 to obtain additional data in the area of concern (AOC) as identified, in the Historical Site Assessment Report (Tetra Tech 2013b), to characterize the soil and soil gas at each of these AOCs, and complete the delineation of previously detected chemicals in soil at the Airport (Tetra Tech, 2014a). A secondary objective was to collect a background data set for metals to perform a metals evaluation in areas where soil samples were collected and analyzed. During the Soil RI, 18 AOCs (AOC-DD, -EE, -FF, -G, -GG, -H, -HH, -JJ, -J-K, -KK, -LL, -M, -N, -NN, -O, -OO, and AOC-Z), 163 soil borings were completed with 1,868 samples analyzed for VOCs, 1,357 samples analyzed for TPH, 80 samples analyzed for SVOCs and 90 samples analyzed for metals. A total of twenty three soil gas probes were installed in AOCs J-K and Z with 22 samples analyzed for VOCs. Soil borings were completed to depths between 19 and 78 feet using direct push drilling technology. A brief summary of the scope of work performed in each area is in the following table. The location of the AOCs are shown on Figure 2.

| Area/ Building ID | Scope of Work | Number of Samples Analyzed by Media | Summary of Chemical Analyses |
|---|---|---|---|
| Area DD | 6 borings (20') | 46 soil | All soil samples were analyzed using DSITMS and UVF-3100. Four samples were analyzed using USEPA Method SW8260B and SW8015B. |
| Area EE | 15 borings (34.5'-66.5') | 222 soil | All soil samples were analyzed using DSITMS and UVF-3100. Nineteen samples were analyzed using USEPA Method SW8260B and SW8015B. |
| Area FF | 4 borings (20') | 33 soil | All soil samples were analyzed using DSITMS. Four samples were analyzed using USEPA Method SW8260B. |
| Area G | 20 borings (33.5'-69') | 346 soil | All soil samples were analyzed using DSITMS. Three-hundred seventeen samples were analyzed using UVF-3100. Fifty-one samples were analyzed using USEPA Method SW8260B. Thirty-five samples were analyzed using USEPA Method SW8015B. |
| Area GG | 11 borings (20') | 108 soil | All soil samples were analyzed using DSITMS and UVF-3100. Twelve samples were analyzed using USEPA Method SW8260B and SW8015B. |
| Area H | 10 borings (20'-56') | 150 soil | All soil samples were analyzed using DSITMS and UVF-3100. Thirteen samples were analyzed using USEPA Method SW8260B and SW8015B. |
| Area HH | 8 borings (20'-34') | 65 soil | All soil samples were analyzed using DSITMS. Nine samples were analyzed using USEPA Method SW8260B. |
| Area JJ | 5 borings (30') | 49 soil | All soil samples were analyzed using DSITMS and UVF-3100. Six samples were analyzed using USEPA Method SW8260B and SW8015B. |
| Area J-K | 14 borings (36'-78') | 245 soil, 4 soil gas | All soil samples were analyzed using DSITMS. Twenty five samples were analyzed using USEPA Method SW8260B. All soil gas samples were analyzed using USEPA Method TO-15. |
| Area KK | 7 borings (20'-57.2') | 72 soil | All soil samples were analyzed using DSITMS and UVF-3100. Eight samples were analyzed using USEPA Method SW8260B and SW8015B. |

| Area/ Building ID | Scope of Work | Number of Samples Analyzed by Media | Summary of Chemical Analyses |
|---|---|---|---|
| Area LL | 2 borings (32') | 23 soil | All soil samples were analyzed using DSITMS and UVF-3100. Two samples were analyzed using USEPA Method SW8260B and SW8015B. |
| Area M | 4 borings (20') | 28 soil | All soil samples were analyzed using DSITMS and UVF-3100. Four samples were analyzed using USEPA Method SW8260B and SW8015B. |
| Area MM | 7 borings (40'-52') | 100 soil | All soil samples were analyzed using DSITMS and UVF-3100. Eleven samples were analyzed using USEPA Method SW8260B and SW8015B. |
| Area N | 9 borings (30'-92') | 85 soil | All soil samples were analyzed using DSITMS and UVF-3100. Eight samples were analyzed using USEPA Method SW8260B and SW8015B. Fifty-two samples were analyzed using USEPA Method SW8270C and SW6010B/7471A. |
| Area NN | 10 borings (20') | 74 soil | All soil samples were analyzed using DSITMS. Five samples were analyzed using USEPA Method SW8260B. |
| Area O | 5 borings (25' and 30') | 48 | All soil samples were analyzed using DSITMS and UVF-3100. Four samples were analyzed using USEPA Method SW8260B and SW8015B. Twenty-eight samples were analyzed using USEPA Method SW8270C and SW6010B/7471A. |
| Area OO | 10 borings (34'-55.5') | 136 | All soil samples were analyzed using DSITMS. One-hundred-nine samples were analyzed using UVF-3100. Eighteen samples were analyzed using USEPA Method SW8260B. Nine samples were analyzed using USEPA Method SW8015B. |
| Area Z | 9 borings (20') | 38 soil, 18 soil gas | All soil samples were analyzed using DSITMS. Eight samples were analyzed using USEPA Method SW8260B. All soil gas samples were analyzed using USEPA Method TO-15. |
| Background Metals | 2 borings (20') | 10 | All soil samples were analyzed using USEPA Method SW6010B/7471A. |

Notes:
DSITMS: analysis for volatile organic compounds in soil
UVF-3100: analysis for total petroleum hydrocarbons as gasoline and diesel
USEPA Method SW8260B: analysis for volatile organic compounds in soil
USEPA Method SW8015B: analysis for total petroleum hydrocarbons
USEPA Method SW8270C: analysis for semi-volatile organic compounds in soil
USEPA Method SW6010B/7471A: analysis for metals in soil
USEPA Method TO-15: analysis for volatile organic compounds in soil gas

## 2.4 GROUNDWATER MONITORING PROGRAM

The groundwater monitoring program was initiated in 2003. It is currently comprised of 42 wells that are monitored at various frequencies (quarterly, semiannually, annually or biennially) depending upon the wells location and purpose. Water level measurements have been collected on a quarterly basis at the Site since 2005.

# 3.0 ENVIRONMENTAL SETTING

This section provides a brief overview of the physical setting, geology, hydrogeology in the region around the Airport. A brief discussion of the nature and extent of contamination, based upon data prior to the groundwater RI investigation activities, is also included.

## 3.1 PHYSICAL SETTING

The Airport is located within the boundaries of the Chino Basin. The Chino Basin is located within the upper Santa Ana Valley of the Peninsular Ranges geomorphic province. The Peninsular Ranges are a northwest-southeast oriented complex of blocks separated by similarly trending faults (Norris and Webb, 1990). Figure 3 shows the United States Geological Survey topographic map of the Chino Basin. The surface of the Chino Basin is a broad smooth plain that slopes toward the south, from the San Gabriel Mountains to the Santa Ana River (French, 1972). As shown on Figure 3, the Airport is located in the southwestern portion of the Chino Basin on the relatively flat valley floor. Topography in the area of the Airport slopes to the south/southwest at a grade of approximately 0.8%. The Chino Hills and Santa Ana Mountains lie approximately 2 miles to the southwest and 6 miles south, respectively, of the Airport. The Prado Reservoir and Prado Flood Control Basin are located approximately 1.5 and 3.3 miles south of the Airport, respectively.

## 3.2 REGIONAL GEOLOGY

The Chino Basin was formed when eroded sediments from the San Gabriel Mountains, the Chino Hills, Puente Hills, and the San Gabriel Mountains filled a structural depression (WEI, 2002). Major faults in the Chino Basin within the vicinity of Chino Airport include the San Jose Fault, approximately 10 miles northwest, the Central Avenue Fault, approximately two miles to the southwest, and Chino Fault, approximately three miles to the southwest (Bryant & Treiman, 2005). Other major faults within the region are the Rialto-Colton Fault, San Jacinto Fault, and Loma Linda Fault, located approximately 15 to 18 miles to the northeast.

Overlying the sedimentary rocks and the basement complex is a sequence of alluvium, consisting of poorly sorted gravel, sand, silt, and clay that contain and transmit the principal body of fresh water (French, 1972). The sediments that comprise the alluvium accumulated in a variety of terrestrial depositional environments including stream and river channels, flood plains, levees, marshes, and lakes (Montgomery Watson, 1999a). The alluvium ranges in age from Pleistocene to Holocene, but may contain poorly consolidated sedimentary rocks of Tertiary age near the lower portion. The older alluvium varies in thickness from about 200 feet thick near the southwestern end of the Basin to over 1,100 feet thick southwest of Fontana, and averages

about 500 feet throughout the Basin (WEI, 1999). The younger alluvium of the Holocene period varies in thickness from over 100 feet near the mountains to just a few feet near the central part of the basin (WEI, 1999). The sedimentary rocks, comprised of a sequence of consolidated marine and continental conglomerate, sandstone, and siltstone, overlie the basement complex in the southern and western portion of the basin. The sequence is nearly 5,000 feet thick in the western part of the area (Durham and Yerkes, 1964) but thins abruptly to zero eastward (French, 1972). The sedimentary rocks are primarily non-water bearing and for the most part do not contain or transmit water and are therefore considered the base of the aquifer. The alluvium and sedimentary rocks in the Chino Basin overlie a basement complex of pre-Tertiary age composed of granodiorite and associated plutonic rocks of the southern California batholith (Larsen, 1948). The basement complex does not transmit water except for fracture flow or where the basement is highly weathered.

Stratigraphic and hydrogeologic information for the area at and immediately surrounding the Airport is available from wells installed as part of the Chino Basin Desalination Program. Six test wells were installed south and east of the Airport (Fox, 1994), and a total of 14 borings and 11 groundwater production wells were installed around the Airport between 1997 and 1999 by the Santa Ana Watershed Project Authority (SAWPA) (Montgomery Watson, 1999a). Previous lithologic and geophysical data showed alternating beds of relatively permeable (sand and gravel) and relatively impermeable (clay and silt) alluvium underlain by sedimentary bedrock (Montgomery Watson, 1999a).

## 3.3 REGIONAL HYDROGEOLOGY

Water enters the basin by infiltration of surface water runoff from the highlands, deep penetration of rain on the valley floor, and by artificial means such as irrigation return or induced recharge. Groundwater moves generally within the alluvium, south from the mountains and west from the adjacent basins through Chino basin, and rises to the surface along the Santa Ana River between Riverside Narrows and the Prado Dam (French, 1972). The basin is bounded by major fault systems and groundwater barriers that restrict the flow of groundwater. The faults and groundwater barriers are significant in that they define the external boundaries of the Basin and influence the magnitude and direction of groundwater flow near the boundaries (WEI, 1999).

Most recharge to Chino Basin occurs along the northern edge where younger, coarser alluvium dominates (Montgomery Watson, 1992). Older alluvium, unconformably underlying the younger alluvium, is distinguishable by its red-brown color (Montgomery Watson, 1999b). The degree of sorting and weathering in the older alluvium has yielded low clay content, thereby allowing high well yields and high transmissivity (Montgomery Watson, 1999b).

From the data collected during SAWPA well installations (Montgomery Watson, 1999a), the near surface alluvium is dominated by impermeable material which could restrict the amount of water entering the groundwater system through direct percolation from the area around Chino Airport. However, based on the presence of degraded water quality in the deeper aquifer from dairy operations, vertical migration of contaminants appears to have been occurring in the basin, possibly over extended periods of time.

## 3.4 GROUNDWATER OCCURRENCE, TRENDS, AND GRADIENTS

Since monitoring began in 2003, groundwater has stabilized in site-related wells that are relatively unaffected by local pumping activities at depths between approximately seven feet (CAMW21-S, located about one mile south of the Airport) and 104 feet (CAMW2, located on the northern boundary of the Airport). Groundwater is generally observed at progressively shallower depths from the northern boundary of the Airport to the furthest extent of the existing well network approximately 2.5 miles to the south. Between 2003 and Spring 2011, groundwater levels increased an average of approximately 18 feet within site-related wells. Between Spring 2011 and the most recent gauging event in February 2015, groundwater levels have shown an overall decreasing trend and exhibit an average head loss of approximately six feet.

As shown on Figure 4, the hydraulic gradient determined from the October 2014 monitoring event was oriented predominantly to the south/southwest at an average magnitude of 0.003 foot per foot. In the eastern portion of the Airport, the gradient was oriented to the southeast at a magnitude of 0.005 foot per foot. These gradients are consistent with those observed since 2005 when sufficient wells were in place to adequately characterize the on-site potentiometric surface.

Vertical gradient analyses presented in various groundwater monitoring reports for the Airport have indicated that water levels in wells screened to depths up to approximately 135 feet are similar to water levels in shallower screened wells within the same cluster. The exception to this is at well cluster CAMW12-S/-I/-D. At this location, there has been an average upward gradient of approximately 0.07 foot per foot between CAMW12-I (screened at depths from 90-100 feet) and CAMW12-S (screened at depths from 35-55 feet) since 2009. This upward gradient is likely due to influence from pumping/irrigation activities at the Prado Golf Course. Wells screened at depths greater than 135 typically have water levels that are lower than wells in the same cluster which are screened above 135 feet and indicate the potential for downward flow of groundwater and solutes. The greatest potential for downward flow occurs at well cluster CAMW10-S/-I/-D. At this location there has been an average downward vertical gradient of approximately 0.46 foot per foot between CAMW10-I (screened at depths from 118-128 feet) and CAMW10-D (screened at depths from 299-309 feet) since 2009. This downward vertical gradient is predominantly the result of influence from groundwater pumping at nearby Chino Desalter Authority (CDA) Well CD1-3 which is screened at various depths between approximately 230 and 525 feet.

## 3.5 NATURE AND EXTENT OF CONTAMINANTS OF POTENTIAL CONCERN

This section provides an overview of the nature and extent of contamination detected by media based on data from previous investigations conducted in direct relation to the Airport.

### 3.5.1 Soil

Preliminary investigations were performed in 1992 to assess VOCs in soil. Characterization of the soil impacts are based on previous investigations and the *Historical Assessment Report, Chino Airport* (Tetra Tech, 2013b) and were used to target areas for further assessment in 2014 during the RI. TCE, 1,2,3-trichloropropane [1,2,3-TCP], total dichloroethene (DCE) and 1,2-dichloroethane (1,2-DCA) are the principal compounds present in soil at the Airport and are also detected in the underlying groundwater.

During the 2014 RI, detections of these compounds above the screening level criteria occurred in Area EE (TCE, 1,1-dichloroethene [1,1-DCE]), Area G (1,2-DCA, and 1,2,3-TCP), Area HH (TCE) and Area J-K (TCE). Detections of these compounds occurred predominantly as isolated incidences and were generally within one order of magnitude of the IGs. Based on the data, there is no longer a significant source of TCE, 1,2,3-TCP, DCE, or 1,2-DCA in vadose zone soils at the Airport which will continue to contribute substantively to the existing solute plumes.

Background comparisons were conducted to identify metals potentially elevated above background in soil in the AOCs N and O. The results of this statistical evaluation indicated that the maximum lead concentration in Area N may be higher than background and that soil associated with this sampling location could pose a potential risk to residents or commercial receptors if the land use changes in the future. For Area O, the results of this statistical evaluation indicate that arsenic and barium are likely representative of background conditions and not associated with site activities.

AOCs N and O were investigated based on historical information indicating suspect landfills. There was no evidence of refuse or organic waste materials in any borings. Although SVOCs, were detected above the investigation goal (IG), the detections are discrete and very limited in extent both vertically and laterally.

### 3.5.2 Soil Gas

VOCs have been detected in soil gas samples collected from previous investigations and the most recent RI. During previous investigations, TCE was not detected in significant quantities in areas previously speculated to be possible sources of the TCE groundwater plume; however, 1,1-DCE and 1,1,1-TCA were detected at relatively high concentrations within the vicinity of the former Cal Aero's aircraft restoration yard (AOC EE). During the most recent RI activities, soil gas samples were collected from AOC J-K and

Z. Although no chemicals were associated with maximum concentrations that exceeded the corresponding site IG, a risk screening was conducted to evaluate potential cumulative risks and hazards due to the fact that a few chemicals were detected at levels approaching the corresponding site IG. The risk screening showed that it is unlikely that chemicals detected in soil gas within AOC J-K and AOC Z are present at levels that would be expected to result in adverse health effects under a residential or industrial exposure scenario.

### 3.5.3 Groundwater

The most recent comprehensive groundwater sampling event at Airport site was performed in Winter (Quarter 1) and Spring (Quarter 2) 2014 (Tetra Tech, 2014d). Sampling results from the 42 wells showed that 17 VOCs were detected with five of these compounds (TCE, 1,2,3-TCP, cis-1,2-dichloroethene [cis-1,2-DCE], 1,2-DCA, and 1,4-dioxane) exceeding screening level criteria (maximum contaminant level [MCL] or drinking water notification level [DWNL]) in at least one sample. Of the five compounds exceeding screening levels, TCE (concentration range 0.66 to 550 micrograms/ liter [µg/L]) and 1,2,3-TCP (concentration range 0.91 to 21 µg/L) were the most frequently detected. The highest concentrations of TCE and 1,2,3-TCP were detected in samples from wells CAMW4 and CAMW13-I, respectively.

Based on the data, TCE above the MCL of 5 µg/L extended from the area of CAMW8 predominantly to the south/southwest for a distance of approximately 2.5 miles. Once in the vicinity of CAMW20-S/I, the TCE plume shifted south/southeast terminating upgradient of CAMW22-S/I and CAMW23-S/I, located in Prado Regional Park and El Prado Golf Course, respectively. The TCE solute plume varied in width between approximately 0.17 and 0.5 mile.

1,2,3-TCP above 0.5 µg/L extended from the area of CAMW13-S/I predominantly to the south/southwest for a distance of approximately 2 miles. Once in the vicinity of CAMW20-S/I, the 1,2,3-TCP plume shifted to the southeast and terminated between CAM16-S/I and CAMW22-S/I, near Prado Regional Park and El Prado Golf Course, respectively. The 1,2,3-TCP solute plume varied in width between approximately 0.16 and 0.55 mile.

Similar to 1,2,3-TCP, the highest concentrations of 1,2-DCA were detected in samples collected from wells CAMW13-I (0.54 µg/L) and CAMW10-I (0.53 µg/L) located along the western Airport boundary. Based on the data, 1,2-DCA above the MCL of 0.5 µg/L extended from the area of CAMW13-S/I predominantly to the south/southwest for a distance of approximately 1 mile with the toe of the plume terminating near CAMW11. The 1,2-DCA solute plume varied in width between approximately 300 and 1,300 feet.

Cis-1,2-DCE was detected above the MCL of 6 µg/L in samples from three wells and was found at concentrations lower than TCE in the same wells. The highest concentration was detected in the sample from CAMW11-S, located on Fern Avenue along the approximate centerline of the TCE plume.

1,4-dioxane (4.7 µg/L) was detected above the DWNL only in the sample from CAMW4 located on the Airport.

# 4.0 METHODOLOGY

The following subsections describe the groundwater field investigation and data collection/analytical methods utilized at the Airport. Work was performed in general conformance with the procedures and methodologies detailed in the Work Plan (Tetra Tech, 2013a) and the two Work Plan Addendums (Tetra Tech, 2014b; and Tetra Tech, 2014c). All field work was performed under the direct supervision of a California licensed Professional Geologist.

## 4.1 TECHNICAL APPROACH

The groundwater phase of the remedial investigation utilized a Triad framework for collection and chemical analyses of groundwater samples. Collected samples were submitted to State certified fixed based laboratories for chemical analyses. The groundwater analytical data obtained were compared to site-specific IGs established in the Work Plan (Tetra Tech, 2013a) for VOCs. The site-specific IGs were used in conjunction with the approved decision flow processes (Figure 5) to determine if the vertical and lateral extents of site-related solutes in groundwater were adequately defined.

Additional details of the groundwater characterization activities are provided in the following subsections.

## 4.2 PREFIELD ACTIVITIES

Prior to any intrusive work, the borings were cleared for underground utilities and other subsurface structures. Utility and substructure clearance activities included the following:

- Obtaining a copy of the Associated Engineers 2008 Utilities base map for the Airport, dated October 2008, from the County.
- Performing a utility clearance survey at each location. The utility clearance was performed by Terra Physics using geophysical utility locating instruments and ground penetrating radar.
- Marking the areas of the site where intrusive field work was to be performed, and obtaining Underground Services Alert clearance at least 48 hours prior to the start of the work.

In addition to the utility clearance, permits for the borings and wells were obtained from the County of San Bernardino Department of Public Health Division of Environmental Health Services. Copies of the permits are in Appendix A.

## 4.3 PIEZOCONE TESTING

Between October 29, 2013 and September 18, 2014, 50 piezocone penetrometer test ($CPT_u$) borings (CPT-02 through CPT-51) were advanced at the locations shown on Figure 6. The $CPT_u$ borings were used

to obtain detailed stratigraphic data in real time and subsequently identify relatively permeable zones to target for vertical aquifer profiling (VAP) sampling. The borings were advanced to depths between 80 feet (CPT-23) and 180 feet (CPT-50) using either a 30 ton capacity $CPT_u$ rig operated by Gregg Drilling and Testing, Inc., of Signal Hill, California (C57 License 485165) or a 25 ton capacity $CPT_u$ rig operated by Kehoe Testing and Engineering, Inc., of Huntington Beach, California (C57 License 786163). $CPT_u$ borings that were terminated prior to reaching the initial target depth specified in the Work Plan (i.e. 150 feet) were due to cemented layers in the subsurface which resulted in probe refusal.

Data regarding the cone bearing/resistance ($q_c$), sleeve friction ($f_s$), and dynamic pore water pressure ($u_2$) were recorded by the probe at five centimeter intervals during penetration into the subsurface. The recorded data were first processed on-site with specialized software provided by the drilling contractor to generate a draft boring log based on soil behavior types[1] (SBT) for each location. Because $q_c$ and $f_s$ increase with depth due to increases in effective overburden stress from the overlying soil and water column, normalized SBTs (nSBT) are the preferred interpretation for very shallow CPTs and those over 60 feet deep (Robertson, 1990; and Robertson and Cabal, 2008). Accordingly, upon completion of each CPT, boring logs based on nSBTs were generated by Tetra Tech using the Geologismiki Software program CPeT-IT version 1.7.6. The nSBT logs for each CPT were developed in CPeT-IT using the corresponding groundwater potentiometric surface, as estimated from recent groundwater level data from wells at the site, and the raw data files (.COR files) provided by the vendor. SBT and nSBT plots for each CPT are in Appendix B.

## 4.4 PORE PRESSURE DISSIPATION TESTING

Between one and eight pore pressure dissipation tests (PPDT) were conducted in each $CPT_u$ boring except CPT-23. No PPDTs were conducted in CPT-23 due to a lack of saturated permeable zones within the 80 feet advanced. Each PPDT was allowed to run for a minimum of ten minutes. The longest test was allowed to run for approximately 45 minutes. The PPDTs were performed to either estimate the groundwater potentiometric head pressure at various depths within the subsurface or to estimate the *in situ* hydraulic conductivity of soils at a given interval.

The installation of a full-displacement device, such as a cone penetrometer, results in a change of *in situ* pore water pressures locally around the axis of perturbation (i.e., probe advancement). When advancement of the probe is halted temporarily, the change in pore pressure created by probe insertion into the target soil

1 Soil Behavior Type (SBT) is defined as the aggregate mechanical behavior of an *in situ* soil in the immediate area of the CPT probe and is controlled by the effective stress of a given material. (Robertson, 1990).

horizon can be monitored and recorded while it returns to equilibrium conditions (i.e., a PPDT). In clean sands, the change in pore water pressure created by the probe dissipates almost immediately because of the high permeability of sands, whereas in clays and silts of low permeability, it requires considerable time to return to equilibrium.

In undrained soils exhibiting a monotonic decay in excess pore pressure (e.g., lower permeability soils typically consisting of approximately 35 percent, or more, clay/silt), the rate at which pore water pressure changes with time can be used to estimate the hydraulic conductivity of the soil media through a relationship to the coefficient of consolidation. The lower permeabilities generally associated with undrained soil conditions, however, often make it impractical to wait for full equilibrium. In these situations, a standard of practice is to record the time to achieve 50 percent recovery, designated $t_{50}$. For PPDTs which exhibit a monotonic decay in excess pore pressure, an order of magnitude hydraulic conductivity can be estimated using the $t_{50}$ values and the following equation published by Parez and Fauriel (1988):

$$k = (251 \cdot t_{50})^{-1.25}$$

Where

k = hydraulic conductivity (centimeters per second)

$t_{50}$ = time for 50% recovery (seconds)

In coarse-grained, non-cohesive, soils, drainage occurs almost instantaneously and the Parez and Fauriel (1988) method cannot be applied. In these cases, when the PPDTs are allowed to run until equilibrium conditions are achieved or can be reasonably estimated, the *in situ* hydrostatic head at the given interval can be calculated from the equilibrium pore pressure using the equation:

$$1 \text{ psi} = 2.31 \text{ feet of water}$$

No estimates of hydraulic conductivity were performed due to data quality issues resulting from the subsurface conditions (see Section 5.4 for details). Copies of the PPDT curves are in Appendix C. The calculated potentiometric surfaces for PPDTs where an apparent equilibrium was achieved or could be reasonably estimated are summarized in Table 1.

## 4.5 VERTICAL AQUIFER PROFILING

Between October 14, 2013 and September 29, 2014, following completion of the $CPT_u$ borings in an area, VAP borings VAP-01 to VAP-40 were advanced at the locations shown on Figure 6. The purpose of the VAP borings was to collect depth-discrete groundwater samples and obtain detailed information on the distribution of site-related solutes in the subsurface. The borings were advanced to depths between

approximately 119 feet (VAP-08) and 180 feet (VAP-16) using either a Geoprobe 8040 track-mounted direct-push drilling rig operated by Vironex, L.L.C. of Santa Ana, California (C57 license 705927), Cascade Drilling, L.P. of Upland, California (C57 license 938110), or a 30 ton capacity $CPT_u$ rig operated by Gregg Drilling and Testing, Inc., of Signal Hill, California (C57 License 485165).

The location of the VAP borings was determined based on correlations of nSBTs between $CPT_u$ borings and the general knowledge of site-related solute plume distributions from the existing monitoring well network. As additional data was obtained from the VAP borings, the location of some of the remaining borings was adjusted to provide better coverage of the plumes in cross section. The intervals targeted for sampling at each VAP boring were based on the correlations of nSBTs between $CPT_u$ borings and biased toward intervals with relatively high permeability (i.e. silty sand, sand, and gravelly sand nSBTs).

### 4.5.1 Depth-Discrete Groundwater Sampling

Between two and nine groundwater samples were collected from each VAP boring using either a 2-inch outer-diameter Hydropunch™ or a similar 2-inch outer-diameter screen point sampling device. Table 2 shows the number of parent groundwater samples collected at each boring location. The Hydropunch™ was approximately three feet in length where the other screen point sampler was approximately four feet in length. Each of the two samplers used had either a recoverable, continuously wire-wrapped, stainless steel screen or a disposable slot milled PVC screen (both with 0.01-inch slot openings) sheathed within a sampler either approximately and a drop-off drive tip attached to the head. Each sampling device was driven into the subsurface to the target depth via drive rods, sealed at the connection points with an o-ring or Teflon® tape, and a hydraulic ram or pneumatic hammer.

VAP locations VAP-01 through VAP-04 were advanced using the Geoprobe 8040 drilling rig in a dual-tube configuration. In this configuration, the drill string consists of an outer drive casing with a separate inner core/sampling barrel. The outer drive casing and inner sample barrel were simultaneously advanced into the soil in up to approximately five foot increments. Upon completion of a specific drive interval, the inner core barrel containing the soil core was retrieved while the outer casing was left in place to act as a temporary conductor casing to protect the integrity of the borehole and minimize the potential for vertical migration of chemicals within the borehole. A clean sample barrel was then lowered into place within the outer casing, and the process repeated until reaching an interval targeted for groundwater sampling whereupon the inner core barrel was replaced with the screen point sampler attached to drive rods.

Due to difficult drilling conditions and heaving sands at depth, the remaining VAP locations were advanced with either the Geoprobe 8040 rig or $CPT_u$ rig using a single-rod configuration. In this configuration, the

screen point sampler was attached to the drive rods and driven directly to the desired depth. After the sample was collected the sampler and drive rods were removed from the hole, a clean screen point sampler attached, and then driven to the next target interval.

Once at the desired depth, the drive rods attached to the sampler were retracted to expose between one and four feet of the screen to the surrounding formation. Groundwater was then allowed to enter into the drill string for a period of at least 30 minutes or until sufficient volume was present for sampling.

Groundwater samples were collected from each VAP boring using either a 0.75-inch diameter reusable stainless steel bailer or a 1.6-inch disposable polyethylene bailer equipped with a bottom emptying device. The bailer was attached to clean nylon string and slowly lowered into the drill string so as to minimize any agitation of the water column. Upon retrieval of the bailer, the water retained within it was slowly poured into laboratory prepared sample containers so as to minimize any potential loss of VOCs. Each sample was labeled with location, sample depth, date and time information. The labeled samples were placed in seam-sealing plastic bags, sealed, placed under chain-of-custody control in a chilled cooler, and transported to a California Department of Public Health Environmental Laboratory Accreditation Program certified laboratory for analysis.

### 4.5.2 Groundwater Sample Analyses

Groundwater samples collected from VAP-01 through VAP-40 were submitted under chain-of-custody procedures to either E.S. Babcock Laboratories in Riverside, or Eurofins Calscience in Garden Grove, California for analysis. Each sample was analyzed for VOCs using USEPA Method SW8260B. If 1,2,3-TCP was not detected above the method detection limit for SW8260B, the sample was analyzed for 1,2,3-TCP using USEPA Method E524.2 selected ion monitoring (SIM) (E.S. Babcock) or USEPA Method SW8260B SIM (Eurofins Calscience).

Field duplicate samples were collected at a frequency of at least 10% (one duplicate for every 10 parent samples). Additional quality assurance/quality control (QA/QC) samples consisted of trip blanks in each container used for sample transport to the laboratory, equipment blanks collected at a frequency of once per day per drilling rig, and site specific matrix spike/matrix spike duplicate (MS/MSD) samples collected at a frequency of approximately 5% (one MS/MSD for every 20 non-duplicate samples). All QA/QC samples were analyzed for VOCs using USEPA Method SW8260B.

The number of samples, not including trip blanks or equipment blanks, collected and analyzed in conjunction with the VAP activities are listed below by analytical method:

- Method SW8260B: 249 samples (225 primary, 24 duplicate samples)
- Method E524.2 SIM: 20 samples (17 samples, 3 duplicate samples)
- Method SW8260B SIM: 169 samples (153 samples, 16 duplicate samples)

Copies of the laboratory analytical reports and chain-of-custody documentation are in Appendix D.

## 4.6 WELL INSTALLATION ACTIVITIES

Between September 29, 2014 and February 14, 2015, a total of 33 groundwater monitoring wells, identified as CAMW25 through CAMW57, were installed at the locations shown on Figure 6. The wells were drilled and installed using either a truck mounted CME 85 hollow-stem auger drilling rig or a truck mounted rotary sonic drilling rig operated by Yellow Jacket Drilling, Inc. of Rancho Cucamonga, California (C57 License No. 643081). The wells were installed to depths between approximately 80 feet (CAMW56) and 297 feet (CAMW 43).

Wells CAMW25 through CAMW27, CAMW29, CAMW30, CAMW32, CAMW36, CAMW39 through CAMW42, and CAMW44 through CAMW57 were drilled/installed using a hollow-stem auger drilling rig. CAMW28, CAMW31, CAMW33 through CAMW35, and CAMW37 were drilled/installed using a rotary sonic drilling rig. The initial pilot borehole for CAMW38 was drilled using a hollow-stem auger drilling rig to a depth of approximately 194 feet. Upon removal of the auger to install the well it was discovered that a drainage pipe had been hit. The borehole was therefore backfilled with neat cement and no well installed. CAMW38 was subsequently re-drilled at an offset location and extended to a depth of approximately 266 feet using a sonic drilling rig. CAMW43 was initially drilled on the eastern side of the flood control channel to a depth of approximately 248 feet using a rotary sonic drilling rig (boring log PMW43A). Due to access restrictions with a new development project being constructed on the State's property, this borehole was backfilled with neat cement and CAMW43 re-located to the western side of the flood control channel where it was drilled and installed using a hollow-stem auger drilling rig.

Soil samples were obtained for logging purposes from one or more of the boreholes at a well cluster location so as to provide stratigraphy to the deepest depth drilled at that location. At well cluster locations where the extent of site-related solutes could not be defined from the VAP data, additional groundwater samples were collected from the initial well boring at set intervals (typically every 10 feet below the last VAP data point) in order to characterize the extent of affected groundwater and facilitate final well design. Additional details of the drilling, sampling, and well construction methodologies are provided in the following sections.

### 4.6.1 Hollow-Stem Auger Drilling and Sampling

Hollow-stem auger drilling operates by rotating a hollow drill string, equipped with a cutting head at the lead and continuous flights on the exterior, into the subsurface. As the augers are rotated, drill cuttings are brought to the surface via the continuous flights and frictional forces between the sidewall of the boring and the drill cuttings.

Soil samples collected for lithologic classification from hollow-stem auger borings were obtained using either a California Modified split-spoon sampler or a CME continuous core system. When samples were collected using the California Modified split-spoon, the sampler was driven approximately 18 inches into the soil by the repeated drop of a 140-pound downhole hammer from a height of approximately 30 inches at a minimum interval of every five feet. When continuous cores were collected, the CME core barrel was attached to hexagonal drive rods and lowered into the drill string until the shoe of the core barrel was approximately even with the cutting head. The augers and core barrel were then advanced into the soil simultaneously over a five foot interval. After advancement, the core barrel was removed from the drill string and the retained soils placed on visqueen for visual soil classification. A clean core barrel was then attached to the drive rods, lowered into the drill string, and the process repeated until the total depth of the boring was reached.

### 4.6.2 Sonic Drilling and Sampling

Sonic drilling operates by using an oscillatory drill head with eccentric counter rotating balance weights to impart high frequency (typically between 50 and 120 cycles per second) resonant vibrations into the drill string. The imparted vibratory resonance fluidizes, fractures, shears, and/or displaces the soil/rock particles at the bit face allowing for relatively fast and easy penetration of the drill string through most geologic formations.

Sonic drilling is a continuously coring, double-cased system, consisting of an inner core barrel and an outer override casing. At each borehole drilled using this methodology, the inner core barrel was advanced first in increments between approximately 10 and 20 feet into the formation. The outer override casing was then advanced over the core barrel. Once both portions of the drill string were advanced to the same depth, the core barrel was removed, leaving the outer override casing in-place to act as a temporary conductor casing and protect the integrity of the borehole. Following removal of the core barrel from the subsurface, the retained soil core was extruded into clear plastic core bags for sampling and visual soil classification. A clean core barrel was then attached to the drill string and the process repeated until the targeted total depth was achieved.

### 4.6.3 Lithological Logging

Soil cores/samples from each borehole were logged in the field in general accordance with the Unified Soil Classification System and methods detailed in Standard Practice for Description and Identification of Soils-Visual-Manual Procedure (ASTM, 2006). Soil descriptions were recorded on field boring logs and included: grain size(s), angularity, and distribution; color (based on the Munsel color chart); moisture; density/consistency; and sorting. Additional information recorded on the boring log also included drilling subcontractor, geologist, method of drilling, borehole diameter, total depth drilled, depth to first encountered groundwater, sample interval, photo ionization detector readings, location identification, and coordinates and elevation (if known). Boring logs are provided in Appendix E.

### 4.6.4 Additional Depth-Discrete Groundwater Sampling

Additional depth-discrete groundwater samples were collected from CAMW27, CAMW28, CAMW31, CAMW33, CAMW36, CAMW38, CAMW43, CAMW46, CAMW49, CAMW52, and CAMW54 to further define the extent of solute plumes and facilitate final well design. Groundwater samples were collected using either a 2-inch outer diameter (hollow-stem auger rig) or 3-inch outer diameter (sonic rig) screen point sampler approximately four feet in length. Each sampler was equipped with either a recoverable, continuously wire-wrapped, stainless steel screen or a disposable slot milled PVC screen (both with 0.01-inch slot openings) sheathed within it and either a recoverable or drop-off drive tip attached to the head. The samplers were driven into undisturbed soils at the various target depths using either a downhole wireline hammer or vibrated into place via drive rods. Once at the desired depth, the sampler was opened to expose between one and four feet of the screen to the surrounding formation. Groundwater was then allowed to enter into the drill string for a period of at least 30 minutes or until sufficient volume was present for sampling. Groundwater samples were then collected using the procedures detailed in Section 4.5.1.

### 4.6.5 Groundwater Sample Analyses

Groundwater samples collected from the well installation activities were submitted under chain-of-custody procedures to Eurofins Calscience in Garden Grove, California for analysis. Each sample was analyzed for VOCs using USEPA Method SW8260B. If 1,2,3-TCP was not detected above the method detection limit for SW8260B, the sample was analyzed for 1,2,3-TCP using USEPA Method SW8260B SIM.

Field duplicate samples were collected at a frequency of at least 10% (one duplicate for every 10 parent samples). Additional QA/QC samples consisted of trip blanks in each container used for sample transport to the laboratory, equipment blanks collected at a frequency of once per day per drilling rig, and site specific matrix spike/matrix spike duplicate (MS/MSD) samples collected at a frequency of approximately 5% (one

MS/MSD for every 20 non-duplicate samples). All QA/QC samples were analyzed for VOCs using USEPA Method SW8260B.

The number of samples, not including trip blanks or equipment blanks, collected and analyzed in conjunction with the well installation activities are listed below by analytical method:

- Method SW8260B: 110 samples (102 primary, 8 duplicate samples)
- Method SW8260B SIM: 103 samples (96 samples, 7 duplicate samples)

Copies of the laboratory analytical reports and chain-of-custody documentation are in Appendix D.

### 4.6.6 Well Construction

Wells CAMW25 through CAMW57 were constructed in general accordance with the methods described in *RCRA Groundwater Monitoring Technical Enforcement Guidance Document* (USEPA, 1992), *California Water Well Standards* (CDWR, 1998).

The wells were constructed of clean, flush-threaded, 4-inch diameter, Schedule 80 poly vinyl chloride (PVC) blank casing with 10-foot long, 0.020-inch slot-sized, continuous wire-wrapped, stainless steel screens and stainless steel bottom caps. Upon completion of drilling, the well casing, screen, and bottom cap were suspended in the borehole and not allowed to rest on the bottom of the boring while annular fill materials were emplaced. On wells that were installed to depths greater than 150 feet, stainless steel centralizers were placed at the top and bottom of the well screen and every 50 feet along the blank casing to ground surface to ensure the well would remain in the center of the borehole during construction. When necessary, the borehole was backfilled with TR30 bentonite pellets to approximately one foot below the planned screen interval prior to the well being installed.

Once the well was suspended in the borehole at the correct depth, a filter pack consisting of washed and graded #2/12 silica sand was placed in the annulus from the bottom of the borehole up using a tremie pipe. The filter pack extended from approximately one foot below the bottom of the screen to approximately two to three feet above the top of the screen. The top of the filter pack was periodically measured during emplacement to monitor the depth and assess if any bridging had occurred. After the filter pack was emplaced, the well was surged for a period of at least 20 minutes to minimize the potential for any bridging and ensure consolidation of the filter pack to the extent practical. Following surging, additional sand was emplaced if needed to bring the filter pack to approximately two to three feet above the top of the screen. Following emplacement of the filter pack, a minimum 1-foot layer of #0/30 silica sand was tremied into place as a transition sand on select wells (typically wells shallower than 120 feet).

A minimum three to five foot pure sodium bentonite seal, consisting of medium bentonite chips and/or TR30 bentonite pellets, was placed in the annulus above the filter pack/transition sand. After the bentonite seal was allowed to hydrate for a period of at least one hour, the remaining annulus was filled with neat cement consisting of a mixture of Portland type II/V cement and bentonite gel. The neat cement was pumped into place from the top of the bentonite seal up within the borehole via a tremie pipe. The wells were completed at ground surface with either a flush mounted traffic-rated well box and concrete pad or with an above-ground monument with guard posts. Table 3 presents a summary of the well construction information. Well construction diagrams are provided in Appendix E.

### 4.6.7 Well Development

Between February 10 and April 20, 2015, wells CAMW25 through CAMW57 were developed by Yellow Jacket Drilling, Inc. Well development activities began no sooner than 24 hours after the well was completed. Depth to water level and depth to well bottom measurements were collected from the wells prior to development from the top of the well casing and recorded to the nearest 0.01 foot. The majority of wells were developed using a combination of bailing, swabbing, and pumping. Wells CAMW35, CAMW36, CAMW40, CAMW48, and CAMW56 could not be pumped due to slow recharge and were bailed a minimum of two to three borehole volumes for development. Well CAMW43 was developed using swabbing and bailing only due to problems with the pump which prevented it from lifting water from the well.

Wells were first bailed and swabbed to remove materials accumulated in the well. Following the initial bailing and swabbing, the wells were pumped and, groundwater parameters, consisting of water level drawdown, temperature, electrical conductivity (EC), pH, dissolved oxygen (DO), oxidation-reduction potential, and turbidity, were monitored and recorded on well development logs. Well depths and pumping rates were also recorded on the well development logs. Wells were considered to be developed when three consecutive readings met the following criteria:

- pH ± 0.1 standard units
- EC ± 5%
- Temperature ± 1 °Celsius
- Turbidity was either ≤5 nephelometric turbidity units or ±10% if >5 nephelometric turbidity units

A total of approximately 14,150 gallons of purge water was generated during the well development activities. The total volume purged from the wells during development ranged from approximately 60

gallons (CAMW35) to 1,205 gallons (CAMW38). Copies of the field well development logs are included in Appendix F.

## 4.7 EQUIPMENT DECONTAMINATION

All reusable equipment used for sampling (soil and groundwater sampling tools, non-disposable bailers, etc.) were washed using a non-phosphate detergent and 1,4-dioxane free detergent (Micro-90) and distilled water solution followed by a two-stage rinse with distilled/potable water. The cleaned sampling equipment was then allowed to air dry prior to reuse. Other drilling equipment, such as drill rods and dual tube drive casing, were cleaned using a high-pressure washer or were replaced with new equipment between each boring.

## 4.8 WELL SURVEYING, GAUGING, AND SAMPLING

Wells CAMW25 through CAMW57 will be surveyed to a common benchmark by a licensed surveyor following installation of the dedicated pumps. Following completion of the surveying activities, the wells will be gauged and sampled as part of the next regular monitoring event at the Airport scheduled for June 2015.

## 4.9 INVESTIGATION-DERIVED WASTE MANAGEMENT

The investigation-derived waste generated were contained in drums, bins, and tanks, sampled, profiled, and recycled/disposed at an approved facility licensed to accept the waste. All investigation-derived waste not disposed of as municipal waste was classified as non-hazardous based on the sampling results. Upon completion of the first phase of VAP sampling on California Department of Corrections and Rehabilitation property, a total of five drums of groundwater and decontamination water and one drum of soil cuttings and were transported to K-Pure Waterworks, located in Rancho Cucamonga, California. During the on-site investigation, a total of 24 bins containing soil cuttings were removed and transported to Philadelphia Recycling Mine in Mira Loma, California. A total of 14 drums, four 20-yard bins, and two 20,000-gallon frack tanks containing purged groundwater and decontamination water were pumped, and water was transported to K-Pure Waterworks in Rancho Cucamonga, California and All American Asphalt, located in Corona, California. Copies of the non-hazardous waste manifests are provided in Appendix G. Used personal protective equipment, disposable sampling equipment, and construction debris (concrete/asphalt cores) were disposed of as municipal waste.

# 5.0 INVESTIGATION RESULTS

The following sections present the results and a summary of the findings of the current groundwater RI investigation activities.

## 5.1 DATA QUALITY REVIEW

A total of 359 samples (including 32 duplicate samples) were analyzed for VOCs using USEPA Method SW8260B. A total of 292 of these samples were also analyzed for 1,2,3-TCP using either USEPA Method SW8260B SIM (249 non-replicate samples and 23 duplicate samples) or USEPA Method E524.2 (17 non-replicate samples and 3 duplicate samples). Level II data validation was performed, including evaluation of sample holding times, method and field blank sample results, duplicate sample results, laboratory control sample results, surrogate recovery results, matrix spike/matrix spike duplicate (MS/MSD) results, calibration compliance, compound identification, and method compliance, to assess the usability of the sample data. The data showed the laboratories analyzed all samples in accordance with method guidelines. The Chino Airport data's quality control findings are summarized below under the individual method heading.

### 5.1.1 Method SW8260B for VOCs

- Method SW8260B had blank contamination that caused analytes to be qualified as estimated and assigned a "B" qualifier. The targeted analytes (the number of samples and percentage of data qualified is in parenthesis) associated with blank contamination are: toluene (20 samples, 0.0007%), acetone (22 samples, 0.0008 %), benzene (11 samples, 0.0004 %), tert-butyl alcohol (four samples, 0.0002 %), and methylene chloride (0.0006 %).
- The laboratory control samples showed methyl-tert-butyl ether was recovered above the control limit, therefore, 17 samples (0.0004 %) were qualified as estimated. These data are denoted with a "J" qualifier.
- Matrix spike recovery of TCE was outside control limits, therefore, five samples (0.0002 %) were qualified as estimated. These data are denoted with a "J" qualifier.

Based on the results of this validation, it is concluded that the data for Method SW8260B are usable as reported.

### 5.1.2 Method SW8260B SIM for 1,2,3-Trichloropropane

- Method SW8260B SIM had holding time exceedances that qualified three samples (1.1 %) as estimated. These data are denoted with a "J" qualifier.

- Matrix spike recovery was outside control limits, therefore, five samples (1.8 %) were qualified as estimated. These data are denoted with a "J" qualifier.

Based on the results of this validation, it is concluded that the data for Method SW8260B SIM are usable as reported.

### 5.1.3 Method E524.2 for 1,2,3-Trichloropropane

Method E524.2 had no QC errors to report. Based on the results of this validation, it is concluded that the data for Method E524.2 are usable as reported.

A copy of the data validation memorandum prepared by the project chemist is provided in Appendix H.

## 5.2 GROUNDWATER ANALYTICAL RESULTS

Table 4 provides a summary of analytical results for all compounds detected above the method detection limit in samples collected during the groundwater RI activities. A complete list of analytical results from the activities detailed in this report is provided in Appendix I. The data show that of the 39 VOCs detected, 11 compounds exceeded their respective IG in at least one of the 327 non-replicate samples analyzed. These compounds were benzene, carbon tetrachloride, 1,2-DCA, 1,4-dichlorobenzene, 1,1-DCE, cis-1,2-DCE, tert-butyl alcohol, toluene, 1,1,2-trichloroethane, TCE, and 1,2,3-TCP. The occurrence of the 11 compounds which exceeded IGs are summarized below.

- Benzene was detected above the IG of 1 µg/L only in the 171-172 foot sample from CAMW52 (1.8 µg/L).
- Carbon tetrachloride was detected above the IG of 0.5 µg/L in 11 samples with the highest concentration (6.3 µg/L) in the 90-94 foot sample from VAP33.
- 1,2-DCA was detected above the IG of 0.5 µg/L in 19 samples with the highest concentration (2.3 µg/L) in the 80-84 foot sample from VAP33.
- 1,4-dichlorobenzene was detected above the IG of 5 µg/L only in the 97-101 foot sample from VAP16 (13 µg/L).
- 1,1-DCE was detected above the IG of 6 µg/L in four samples with the highest concentration (7.7 µg/L) in the 122-126 foot sample from VAP19.
- Cis-1,2-DCE was detected above the IG of 6 µg/L in 17 samples with the highest concentration (85 µg/L) in the 97-101 foot sample from VAP16.

- Tert-butyl alcohol was detected above the IG of 12 µg/L only in the 250-252 foot sample from CAMW54 (23 µg/L).
- Toluene was detected above the IG of 150 µg/L only in the 171-172 foot sample from CAMW52 (400 µg/L).
- 1,1,2-trichloroethane was detected above the IG of 5 µg/L only in the 97-101 foot sample from VAP16 (6.5 µg/L).
- TCE was detected above the IG of 5 µg/L in 103 samples with the highest concentration (760 µg/L) in the 85-89 foot sample from VAP11.
- 1,2,3-TCP was detected above the IG of 0.005 µg/L in 146 samples with the highest concentration (51 µg/L) in the 128.5-130 foot sample from CAMW28.

Of the 11 compounds detected above their respective IG in groundwater, only TCE, cis-1,2-DCE, 1,2-DCA, and 1,2,3-TCP were detected in more than 5 percent of the samples collected and had sufficient spatial dissemination to be mapped as solute plumes. For purpose of this report, these four compounds were therefore classified as the primary contaminants of potential concern and their distribution described further in Section 5.5.

## 5.3 SUBSURFACE HYDROSTRATIGRAPHY

Comparison of nSBTs determined from $CPT_u$ soundings and visually classified soils from a collocated well boring generally indicated good correlation between the two methods. The most frequent discrepancies between the nSBTs and visual logs consisted of the following:

- Soils visually logged as plastic or dilatant silts/silt mixtures were typically logged as a Clay to Clay Silt nSBT, and;
- Soils visually logged as a single unit were sometimes characterized by interbedded nSBTs that likely represent minor transitions in composition and density over the interval/unit that was described as an aggregate by the field geologist.

The accumulated data indicate that overall the nSBTs derived from the $CPT_u$ borings provided reliable data for mapping and correlating relative permeability and changes in stratigraphy in high resolution and also yielded reasonably accurate representations of actual soil types within the study area. As such, and due to the greater density and broader distribution of $CPT_u$ borings across the study area, three fence diagrams were developed based primarily on the nSBTs to illustrate the subsurface hydrostratigraphy within the study

area. The nSBTs were supplemented with visually classified soils data from well borings that were on or in proximity to the fences and provided substantive information between or at depths greater than the $CPT_u$ borings. The position of the three fence diagrams (B-B', C-C', and D-D') in relation to the site are shown on Figure 6.

To adequately represent the hydrostratigraphy and simplify the correlation process, given the large quantity of data, correlations between points were made based on the bulk transport characteristics of the indicated soils rather than on the individual nSBTs or soil types. Soils were grouped into two primary categories for correlation: 1) low permeability units that are dominated by diffusive transport (i.e. silts, clays, and mixed soils that were predominantly silt/clay) and 2) intermediate to high permeability units that are dominated by advective transport (i.e. mixed soils that were predominantly sand/gravel, sands, and gravels). Manual correlations of these two hydrostratigraphic units were then made laterally between control points on the fence diagrams. In instances where an intermediate to high permeability unit, less than five feet in thickness, was observed in a given locality and no corresponding intermediate to high permeability unit was present to either side, the unit was grouped with the surrounding low permeability strata. This is because the unit was considered to be isolated and therefore would not act as a significant advective transport pathway for site-related solutes. Due to the high degree of lateral variability in lithologies observed in the three completed fence diagrams and the distance between control points (greater than 1,100 feet), no correlations were made for the $CPT_u$ transect located adjacent to Merrill Avenue on the upgradient/northern boundary of the Airport. The interpreted hydrostratigraphy within the groundwater RI investigation area is shown on Figures 7 and 8.

Based on the available data, the hydrostratigraphy within the current groundwater investigation area consists of a series of lenticular channel deposits interbedded with low permeability bank and flood plain deposits to depths of at least 300 feet. These units are the result of fluvial/alluvial deposition within the basin. The lenticular channel deposits are typically between 10 and 30 feet in thickness and vary between approximately 400 feet to over 3,000 feet in width.

Visually classified soils indicate that the channel deposits are predominantly comprised of fine-grained to fine- to coarse-grained sands with between approximately 15 and 35% silt/clay fines. Fine and coarse gravels, up to approximately 15%, were noted periodically within discrete intervals of the channel deposits. The low permeability deposits observed were predominantly comprised of low to medium plasticity silts containing up to approximately 30% clay and between 20 and 35% fine-grained or fine- to medium-grained sand. Calcium carbonate cementation was noted at varying intervals within many of the well borings. In the low permeability silt/clay sediments the calcium carbonate cementation often formed nodules ranging

from fine-grained sand sized particles to coarse gravel sized particles. In the coarser grained channel deposits calcium carbonate cementation resulted in discontinuous segments with weak to moderate cementation.

## 5.4 PORE PRESSURE DISSIPATION TESTS

Table 1 summarizes the PPDTs and the calculated depth to water for each. Of the 168 PPDTs conducted, 87 (approximately 52%) were determined to be invalid or unusable. PPDTs were determined to be invalid or unusable for the following reasons:

- Equilibrium conditions were not obtained during the test or could not be reasonably estimated from the data, or;
- The pore pressure at the termination of the test was negative and resulted in a calculated water level that would be below the probe.

PPDTs were also considered invalid or unusable if the pore pressure at the termination of the test resulted in a water level that was above ground surface (i.e. artesian conditions). This is due to the fact that since monitoring began in 2003, artesian conditions have not been observed in any of the 42 groundwater monitoring wells associated with the Airport.

Evaluation of the remaining 81 PPDTs resulted in calculated water levels that varied between approximately 0.5 feet (CPT-27 at 86.12 feet) and 131 feet (CPT-21 at 167.98 feet) below ground surface. Water level data from the on-site monitoring wells shows that first groundwater currently stabilizes at a depth of approximately 87 feet in the vicinity of CAMW2 and gradually shallows to the southwest reaching a depth of approximately 47 to 50 feet at the southern boundary of the Airport. The data also indicate that water levels in wells screened to depths up to approximately 135 feet are similar to shallower screened wells in the same cluster. Because the relatively consistent water levels from the monitoring wells is contradictory to the large scatter observed in the water levels determined from the PPDTs, the later have been considered unreliable and generally not representative of *in situ* conditions. The PPDT data was therefore not evaluated for *in situ* hydraulic conductivity using the Parez and Fauriel equation. The two factors that most likely affected the quality of the PPDTs performed are:

- Very dense/cemented soils were present at varying depths throughout the study area. When encountered, the excessive tip resistance (as high as 1,100 tons per square foot) applied to the probe during penetration of these horizons could cause deformation in the porous filter and result in inaccurate *in situ* pressure readings.

- The predominantly fine-grained soils present in the vadose zone, estimated at 40 to 60 feet in thickness throughout the majority of the study area, could clog or de-saturate the porous filter and result in inaccurate *in situ* pressure readings.

## 5.5 SPATIAL DISTRIBUTION OF PRIMARY CHEMICALS OF POTENTIAL CONCERN

Data for TCE, cis-1,2-DCE, 1,2,3-TCP, and 1,2-DCA obtained during this investigation were combined with the most recent data from site-related monitoring wells and imported into C Tech Development Corporation's Mining Visualization System software for three dimensional (3-D) modeling. Previous depth-discrete sampling data was also used where necessary to provide additional control for plume delineation. Each data point was placed in scaled space within the modeling environment relative to California State Plane Zone V NAD 83 coordinates. A proprietary 3-D kriging algorithm within the program was then applied to the data to create 3-D interpolations of the plumes.

Figures 9 through 24 show the resultant 3-D plumes from four points of view. These points of view are consistent for each contaminants of potential concern and are: 1) a plan view focused on the current investigation area; 2) a plan view showing the full lateral extent(s); 3) a side view looking southeast perpendicular to the long axis of the largest plume, and; 4) a side view looking due north along the long axis of the plume(s). Each plume is illustrated using different "shells" representing specific isocontours in 3-D. The spatial distribution of TCE, cis-1,2-DCE, 1,2,3-TCP, and 1,2-DCA, based on the 3-D models, are discussed further in the following sections. The data used for the Mining Visualization System modeling is presented in Appendix J.

### 5.5.1 Trichloroethene

Figures 9 through 12 show the distribution of TCE in groundwater at concentrations above the IG (i.e. the MCL of five µg/L). Figures 7 and 8 show the TCE plume in cross section along the three fence diagrams and in relationship to the hydrostratigraphy. Based on the data, there are two TCE plumes associated with the Airport (Figure 9). The first is the larger of the two and appears to originate at AOC G located in the northwestern quadrant of the Airport (Figure 9). Overall, this western TCE plume extends from AOC G approximately 1.75 miles to the south/southwest at which point it turns to the southeast and extends another 0.5 mile toward the Prado flood control basin (Figure 10). The core of the plume, comprised of TCE at concentrations greater than 100 µg/L, is approximately 1.5 miles in length and varies in width between approximately 0.1 mile and 0.35 mile. Concentrations of TCE observed in the core varied between 110 µg/L and 760 µg/L with an average of approximately 250 µg/L. The western TCE plume is on average 0.3 mile wide and reaches its maximum width of 0.5 mile near the southern boundary of the Airport (Figures 9 and

10). From the head of the plume at AOC G to slightly south of transect C-C', the plume is approximately 60 to 80 feet thick (Figures 7 and 11). In the area of VAP-11, the plume extends from the water table to depths up to approximately 130 feet. To the east and west of this location, however, the plume resides approximately 25 feet below the water table and can be found at depths up to approximately 165 feet (VAP-09). In the vicinity of CDA Well CD1-1, the plume thickness begins to increase and reaches an observed maximum of approximately 260 feet in the vicinity of well cluster CAMW10-S/-I/-D and CDA Well CD1-3 (Figures 8 and 11. The plume maintains this thickness for approximately 0.7 mile until it reaches the vicinity of well cluster CAMW11-S/-I/-D, located near the intersection of Fern Avenue and Bickmore Avenue, where it begins to thin (Figures 10 and 11). From slightly south of well cluster CAMW11-S/-I/-D to the toe of the plume near Pine Avenue, the western TCE plume is approximately 100 feet thick and resides between approximately 30 feet (in the vicinity of CAMW20) and 100 feet (in the vicinity of CAMW16) below the water table.

The second TCE plume associated with the Airport is located approximately 1,500 feet east of the western plume. This eastern plume is significantly smaller and extends from the area of AOC EE and AOC GG approximately 0.6 mile to the south/southwest where it appears to terminate within the Airport property (Figure 9). The core of the plume, comprised of TCE at concentrations greater than 100 µg/L, is approximately 750 feet in length, 375 feet in width, and is oriented to the southeast. Concentrations of TCE observed in the core varied between 110 µg/L and 170 µg/L with an average of 140 µg/L. The plume maintains a relatively consistent thickness of approximately 85 feet over its total length, however, the core appears to dive 50 feet going from a depth of approximately 100 feet in the area of AOC EE to a depth of approximately 150 feet south of AOC GG (Figure 12).

Based on the available data, the western and eastern TCE plumes associated with the Airport are adequately defined in both vertical and lateral extent.

### 5.5.2 Cis-1,2-Dichloroethene

Figures 13 through 16 show the distribution of cis-1,2-DCE in groundwater at concentrations above the IG (i.e. the MCL of 6 µg/L). The data show a single cis-1,2-DCE plume which begins in the vicinity of VAP-16 and VAP-17 located approximately 600 feet west of AOC H near the western boundary of the Airport (Figure 13). The plume, which is on average approximately 0.25 mile wide, extends approximately 1 mile to the south/southwest terminating in the vicinity of Bickmore Avenue (Figure 14). Concentrations of cis-1,2-DCE observed within the plume varied from 8.3 µg/L to 85 µg/L with an average of approximately 25 µg/L. The plume varies in thickness between approximately 50 feet at the head and toe and approximately 100 feet in the area from CAMW10-S/-I/-D to approximately 0.25 mile south of Kimball

Avenue (Figure 15). The top of the cis-1,2-DCE plume varies from approximately 20 feet below the water table at the head of the plume to approximately 50 below the water table at the toe (Figures 15 and 16). Because the entire cis-1,2-DCE plume resides within the footprint of the western TCE plume, the entire plume is located below the water table, and concentrations are typically one-order of magnitude lower than TCE, the cis-1,2-DCE plume is interpreted as being primarily the result of dechlorination of the TCE.

Based on the data, the cis-1,2-DCE plume associated with the Airport is fully defined in both vertical and lateral extent.

### 5.5.3 1,2,3-Trichloropropane

Figures 17 through 20 show the distribution of 1,2,3-TCP at concentrations above the action level of 0.5 µg/L (i.e. 100 times the notification level/IG of 0.005 µg/L). Based on the data, there are two 1,2,3-TCP plumes associated with the Airport (Figure 17). The first, and larger of the two, appears to originate at AOC G located in the northwestern quadrant of the Airport (Figure 17). This western 1,2,3-TCP plume extends from AOC G approximately 0.25 mile west/southwest, then turns south/southeast extending approximately 1.6 miles to the south/southwest at which point it turns again and extends to the southeast another 0.5 mile toward the Prado Flood Control Basin (Figure 18). The core of the plume, comprised of 1,2,3-TCP at concentrations greater than 10 µg/L, is approximately 2.1 miles in length and varies in width between approximately 0.08 mile and 0.25 mile. Concentrations of 1,2,3-TCP observed in the core varied between 10 µg/L and 51 µg/L with an average of approximately 24 µg/L. The western 1,2,3-TCP plume is on average 0.4 mile wide and reaches its maximum width of 0.6 mile near the southern boundary of the Airport (Figures 17 and 18). From the head of the plume at AOC G to slightly south of transect C-C', the plume is approximately 100 feet thick and extends from the water table to depths of approximately 165 feet (Figure 19). In the vicinity of CDA Well CD1-1, the plume thickness begins to increase and reaches an observed maximum of approximately 260 feet in the vicinity of well cluster CAMW10-S/-I/-D and CDA Well CD1-3. The plume maintains this thickness for approximately 0.7 mile until it reaches the vicinity of well cluster CAMW11-S/-I/-D, located near the intersection of Fern Avenue and Bickmore Avenue, where it begins to thin (Figures 2 and 3). From the vicinity of well clusters CAMW15-S/-I and CAMW20-S/-I to the toe of the plume near Pine Avenue, the western 1,2,3-TCP plume is approximately 80 feet thick and appears to reside below the water table (Figure 20).

The second 1,2,3-TCP plume associated with the Airport is located approximately 1,700 feet east of the western plume. This eastern plume is significantly smaller and is restricted to the area around VAP-28 located approximately 800 feet south of AOC EE (Figure 17). The plume is approximately 30 feet thick and had observed concentrations of 1,2,3-TCP between 2.4 µg/L and 4.2 µg/L.

Based on the available data, the western and eastern 1,2,3-TCP plumes associated with the Airport are adequately defined in both vertical and lateral extent.

### 5.5.4 1,2-Dichloroethane

Figures 21 through 24 show the distribution of 1,2-DCA in groundwater at concentrations above the IG (i.e. the MCL of 0.5 µg/L). Based on the data, there are two 1,2-DCA plumes associated with the Airport (Figure 21). The first, and larger plume begins in the vicinity of VAP-16 and VAP-17 located approximately 600 feet west of AOC H near the western boundary of the Airport (Figure 21). This western 1,2-DCA plume is on average approximately 0.2 mile wide and extends approximately 1.2 mile to the south/southwest terminating in the vicinity of Bickmore Avenue (Figure 20). Concentrations of 1,2-DCA observed within the plume varied from 0.53 µg/L to 2.3 µg/L with an average of approximately one µg/L. The western plume varies in thickness between approximately 65 feet at the head and center portions of the plume and approximately 35 feet in the toe of the plume south of Kimball Avenue (Figure 21). The top of the 1,2-DCA plume appears to reside at or near the water table from the head of the plume to approximately Kimball Avenue where it appears dive to between approximately 30 and 50 below the water table (Figures 23 and 24).

The second 1,2,3-TCP plume associated with the airport is located approximately 2,300 feet northeast of the western plume. This eastern plume is significantly smaller and extends from the area of AOC EE approximately 0.2 mile to the south/southeast and terminates within the Airport property (Figure 21). Concentrations of 1,2,3-TCP observed in the plume varied between 1.3 µg/L and 2.3 µg/L with an average of 1.7 µg/L. The plume is on average approximately 20 feet thick and dives slightly from the top of the water table at AOC EE to a depth of approximately 90 feet at VAP-28 (Figure 24).

Based on the data, the 1,2-DCA plumes associated with the Airport are adequately defined in both vertical and lateral extent.

# 6.0 CONCLUSIONS

In addition to the conclusions presented in the *Remedial Investigation Report* (Tetra Tech, 2014a), the following conclusions have been made regarding groundwater impacts associated with the Airport based on the data obtained during the RI.

- Of the 11 compounds detected above their respective IG in groundwater, only TCE, cis-1,2-DCE, 1,2,3-TCP, and 1,2-DCA were detected in more than five percent of the samples collected and had sufficient spatial dissemination to be mapped as solute plumes.

- Previous activities at the Airport resulted in the release of VOCs into the environment. In the vicinity of AOCs G, EE, and GG, sufficient mass was present to result in the TCE, cis-1,2-DCE, 1,2,3-TCP, and 1,2-DCA solute plumes presently associated with the Airport.

- Data from the soil RI investigation performed between May and October 2014 indicated that limited residual mass of TCE, DCE, 1,2,3-TCP, and 1,2-DCA is present in vadose zone soils at AOCs G, H, J-K, EE, and HH. Detections of these compounds occurred predominantly as isolated incidences and were generally within one order of magnitude of the IGs. Based on the data, there is no longer a significant source of TCE, 1,2,3-TCP, DCE, or 1,2-DCA in vadose zone soils at the Airport which will continue to contribute substantively to the existing solute plumes.

- The western TCE and 1,2,3-TCP plumes are associated with past activities at AOC G. The plumes extend from AOC G in a predominantly south/southwest direction for a distance of approximately 2.5 miles and terminate in the vicinity of well cluster CAMW16-S/-I located slightly west of Euclid Avenue along Pine Avenue. In the vicinity of Chino Desalter Authority Wells CD1-1 and CD1-3, these plumes are being drawn down by the pumping activities. This has presently increased the thickness of the TCE and 1,2,3-TCP plumes by approximately 130 feet and 100 feet, respectively, from their undisturbed state. Although being drawn down, it does not appear that the CDA wells are effectively capturing the plumes.

- There is a single cis-1,2-DCE plume associate with the Airport. The plume is approximately 1 mile in length and extends in a south/southwest direction from the area west of AOC H to approximately Bickmore Avenue. Because the plume is completely contained within the extent of the western TCE plume and concentrations of cis-1,2-DCE are lower than TCE concentrations in the same sample throughout the plume, it is likely the result of natural degradation within the western TCE plume.

- The western 1,2-DCA plume extends from the area west of AOC H approximately 1.2 miles to the south/southwest and terminates in the vicinity of Bickmore Avenue. Because no significant residual source mass of 1,2-DCA was identified in vadose zone soils and there is no AOC in the immediate vicinity of the head of the plume, the source point of the 1,2-DCA plume is unknown.
- There are three eastern plumes (TCE, 1,2,3-TCP, and 1,2-DCA) associated with the area around AOCs EE and GG. The most extensive of these plumes is TCE which extends from the area of AOCs EE and GG to the south/southwest approximately 0.6 mile and terminates within the Airport property in the vicinity of well cluster CAMW54 and CAMW55.
- The solute plumes are associated with both low permeability soils that will be dominated by diffusive transport and intermediate to high permeability soils that will be dominated by advective transport.
- The solute plumes associated with the Airport have been adequately defined in their current state.

# 7.0 RECOMMENDATIONS

As all solute plumes associated with the Airport have been adequately defined in their current state, no further assessment is recommended at this time. Following four consecutive quarters of monitoring the newly installed wells CAMW25 through CAMW57, a comprehensive groundwater sampling and analysis plan will be developed for long-term monitoring of the VOC plumes. Wells CAMW25 through CAMW57 will be sampled for 1,4-dioxane at least once during the initial four monitoring events to determine the presence or absence of this compound commonly used as a stabilizer in chlorinated solvents, mainly 1,1,1-trichloroethane.

Upon concurrence from the CRWQCB of the findings and conclusions presented in this report addendum and the *Remedial Investigation Report, Chino Airport, San Bernardino County, California* (Tetra Tech, 2014a), the County will proceed with preparation of a feasibility study to evaluate mitigation alternatives for the solute plumes associated with the Airport. Natural attenuation parameters should be collected from selected wells in the interim to support the feasibility study and evaluation of mitigation alternatives.

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# TABLES

**Table 1.**
**Summary of Pore Pressure Dissipation Tests**
**Remedial Investigation**
**Chino Airport, Chino, California**

| CPT ID | Depth (feet) | Pore Pressure (PSI) | Depth to Water |
|---|---|---|---|
| CPT-02 | 36.4 | 21.51 | -13.28 |
| | 65.7 | 10.56 | 41.30 |
| | 86.4 | -0.92 | 88.52 |
| | 99.4 | 10.33 | 75.53 |
| CPT-03 | 55.6 | 4.63 | 44.89 |
| | 58.6 | 3.36 | 50.84 |
| | 103.4 | 22.11 | 52.33 |
| | 151.9 | 44.55 | 49.00 |
| | 160.2 | 50.29 | 44.03 |
| CPT-04 | 49.7 | 6.38 | 34.96 |
| | 66.4 | 68.74 | -92.40 |
| | 76.8 | 23.61 | 22.27 |
| | 80.3 | 9.81 | 57.64 |
| | 100.7 | 6.86 | 84.86 |
| CPT-05 | 55.2 | -2.07 | 59.99 |
| | 73.5 | 7.81 | 55.45 |
| | 82.0 | 13.39 | 51.06 |
| | 103.7 | 20.57 | 56.19 |
| | 115.3 | 83.86 | -78.41 |
| | 133.9 | 37.14 | 48.10 |
| | 138.0 | 18.35 | 95.62 |
| | 146.7 | 18.75 | 103.40 |
| CPT-06 | 53.5 | -1.11 | 56.06 |
| | 60.9 | 27.69 | -3.06 |
| | 77.3 | 9.50 | 55.35 |
| | 90.0 | -6.37 | 104.72 |
| | 108.6 | 61.19 | -32.75 |
| | 114.1 | 22.50 | 62.12 |
| | 132.8 | 33.76 | 54.82 |
| | 141.1 | 341.62 | -648.03 |
| CPT-07 | 47.6 | 8.57 | 27.81 |
| | 64.1 | 2.91 | 57.38 |
| | 109.9 | 71.91 | -56.21 |
| | 133.5 | 32.74 | 57.86 |
| | 149.0 | 39.93 | 56.75 |
| CPT-08 | 62.1 | 1.00 | 59.80 |
| | 88.1 | -7.35 | 105.08 |
| | 100.1 | -6.12 | 114.25 |
| | 130.7 | 24.12 | 74.99 |
| CPT-09 | 81.6 | 20.55 | 34.12 |
| | 100.6 | 52.87 | -21.53 |
| | 113.6 | 17.80 | 72.49 |
| | 117.5 | 23.46 | 63.30 |

**Table 1.**
**Summary of Pore Pressure Dissipation Tests**
**Remedial Investigation**
**Chino Airport, Chino, California**

| CPT ID | Depth (feet) | Pore Pressure (PSI) | Depth to Water |
|---|---|---|---|
| CPT-10 | 75.1 | 38.37 | -13.52 |
| | 82.3 | 58.43 | -52.67 |
| | 103.9 | 53.99 | -20.81 |
| | 116.3 | 79.64 | -67.67 |
| | 132.6 | 37.75 | 45.39 |
| | 152.1 | 255.08 | -437.13 |
| CPT-11 | 64.80 | -11.58 | 91.54 |
| | 94.49 | -6.09 | 108.56 |
| | 116.14 | 27.72 | 52.11 |
| | 156.00 | 200.93 | -308.15 |
| CPT-12 | 79.07 | -0.04 | 79.15 |
| | 91.86 | -4.32 | 101.84 |
| | 121.72 | 8.57 | 101.93 |
| CPT-13 | 75.13 | 75.01 | -98.15 |
| | 100.39 | 18.51 | 57.62 |
| CPT-14 | 66.27 | -4.42 | 76.49 |
| | 74.31 | -1.24 | 77.17 |
| | 128.12 | -10.27 | 151.83 |
| CPT-15 | 72.01 | 7.43 | 54.84 |
| | 99.08 | 13.10 | 68.82 |
| | 162.07 | 4.89 | 150.79 |
| CPT-16 | 69.06 | 64.04 | -78.87 |
| | 111.88 | 16.85 | 72.96 |
| | 124.02 | 46.55 | 16.49 |
| | 141.08 | 14.30 | 108.04 |
| CPT-17 | 80.05 | -5.35 | 92.40 |
| | 96.13 | 1.42 | 92.86 |
| | 129.76 | -5.52 | 142.52 |
| | 146.00 | 16.57 | 107.73 |
| CPT-18 | 90.71 | 19.40 | 45.90 |
| | 146.16 | 37.06 | 60.54 |
| CPT-19 | 69.23 | -3.61 | 77.57 |
| | 86.61 | -4.78 | 97.65 |
| | 104.33 | 3.68 | 95.83 |
| CPT-20 | 82.51 | 3.82 | 73.68 |
| | 110.73 | 39.97 | 18.41 |
| CPT-21 | 61.68 | 5.95 | 47.94 |
| | 92.36 | 6.73 | 76.82 |
| | 110.07 | 7.61 | 92.49 |
| | 132.22 | 6.87 | 116.36 |
| | 167.98 | 16.07 | 130.85 |
| CPT-22 | 64.96 | 12.71 | 35.60 |
| | 81.36 | 9.49 | 59.44 |
| | 114.50 | 92.32 | -98.77 |

**Table 1.**
**Summary of Pore Pressure Dissipation Tests**
**Remedial Investigation**
**Chino Airport, Chino, California**

| CPT ID | Depth (feet) | Pore Pressure (PSI) | Depth to Water |
|---|---|---|---|
| CPT-24 | 68.57 | 3.29 | 60.96 |
| | 76.77 | 114.56 | -187.85 |
| | 98.42 | 157.57 | -265.56 |
| | 114.50 | 276.23 | -523.59 |
| | 135.01 | 466.61 | -942.86 |
| CPT-25 | 68.90 | 21.88 | 18.36 |
| | 91.04 | 87.88 | -111.96 |
| | 107.61 | 14.59 | 73.92 |
| | 117.95 | 24.95 | 60.31 |
| CPT-26 | 77.10 | 14.42 | 43.79 |
| CPT-27 | 66.11 | 62.52 | -78.31 |
| | 86.12 | 37.08 | 0.47 |
| | 92.52 | 106.56 | -153.64 |
| | 123.03 | 114.63 | -141.77 |
| | 145.50 | 53.75 | 21.33 |
| | 168.47 | 62.11 | 25.00 |
| CPT-28 | 80.05 | 37.04 | -5.51 |
| | 97.28 | 65.51 | -54.05 |
| | 116.14 | 112.83 | -144.50 |
| CPT-29 | 62.01 | 11.92 | 34.47 |
| | 91.04 | 21.10 | 42.30 |
| | 113.84 | 39.04 | 23.65 |
| | 144.03 | 25.93 | 84.12 |
| | 161.25 | 65.80 | 9.26 |
| CPT-30 | 64.80 | 6.47 | 49.85 |
| | 95.14 | 16.39 | 57.28 |
| | 125.33 | 26.10 | 65.04 |
| | 130.25 | 31.96 | 56.43 |
| CPT-31 | 65.29 | 17.90 | 23.93 |
| | 80.22 | 14.18 | 47.47 |
| | 101.71 | 68.62 | -56.81 |
| | 129.10 | 133.52 | -179.33 |
| | 132.55 | 33.43 | 55.32 |
| CPT-32 | 54.30 | 35.32 | -27.28 |
| | 82.51 | 102.30 | -153.81 |
| | 104.00 | 124.43 | -183.42 |
| | 123.69 | 146.39 | -214.46 |
| CPT-33 | 59.05 | 65.22 | -91.62 |
| | 96.13 | 117.38 | -175.02 |
| | 118.11 | 27.57 | 54.42 |
| | 121.06 | 30.15 | 51.40 |
| CPT-34 | 95.31 | 25.73 | 35.88 |
| | 114.01 | 46.05 | 7.63 |
| | 147.15 | 41.79 | 50.62 |

**Table 1.**
**Summary of Pore Pressure Dissipation Tests**
**Remedial Investigation**
**Chino Airport, Chino, California**

| CPT ID | Depth (feet) | Pore Pressure (PSI) | Depth to Water |
|---|---|---|---|
| CPT-35 | 77.92 | 133.52 | -230.51 |
| | 107.12 | 34.95 | 26.39 |
| CPT-36 | 90.22 | 11.43 | 63.81 |
| | 100.56 | 15.12 | 65.64 |
| CPT-37 | 83.00 | -5.91 | 96.65 |
| | 117.95 | 15.69 | 81.70 |
| CPT-38 | 74.15 | 6.20 | 59.84 |
| | 138.45 | 30.88 | 67.13 |
| CPT-39 | 74.97 | 7.60 | 57.40 |
| | 120.08 | 9.33 | 98.53 |
| CPT-40 | 79.40 | 1.61 | 75.68 |
| | 124.02 | 1.61 | 120.30 |
| CPT-41 | 93.41 | 14.01 | 61.05 |
| | 154.03 | 76.68 | -23.10 |
| CPT-42 | 79.07 | 16.11 | 41.86 |
| | 127.13 | 8.24 | 108.09 |
| CPT-43 | 86.61 | 5.54 | 73.80 |
| | 123.03 | 5.66 | 109.96 |
| CPT-44 | 83.00 | 18.65 | 39.92 |
| | 104.82 | 19.35 | 60.11 |
| | 165.85 | 65.37 | 14.85 |
| CPT-45 | 142.72 | 9.57 | 120.62 |
| CPT-46 | 120.08 | 147.28 | -220.13 |
| | 125.98 | 113.91 | -137.14 |
| | 167.16 | 165.30 | -214.68 |
| CPT-47 | 129.10 | 76.46 | -47.51 |
| | 172.08 | 967.28 | -2062.33 |
| CPT-48 | 114.01 | 145.35 | -221.75 |
| | 146.16 | 206.83 | -331.61 |
| | 163.06 | 238.05 | -386.83 |
| CPT-49 | 105.48 | 104.97 | -137.00 |
| | 161.42 | 32.96 | 85.28 |
| CPT-50 | 110.40 | 145.13 | -224.84 |
| | 159.78 | 162.67 | -215.98 |
| | 180.12 | 46.35 | 73.05 |
| CPT-51 | 106.13 | 36.75 | 21.25 |
| | 137.47 | 99.59 | -92.59 |

Acronyms and Abbreviations:

PSI - pounds per square inch

Notes:

Invalid/unusable data is highlighted.

**Table 2.**
**Groundwater Sampling Summary by Boring**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Total Depth (feet bgs) | No. Groundwater Samples Analyzed for Parameter | | | Sampling Interval (feet bgs) | | |
|---|---|---|---|---|---|---|---|
| | | VOCs (SW8260B) | 1,2,3-TCP (E524.2) | 1,2,3-TCP (SW8260B SIM) | | | |
| CAMW27 | | 5 | | 4 | 151 | - | 192 |
| CAMW28 | | 10 | | 8 | 128.5 | - | 270 |
| CAMW31 | | 9 | | 9 | 198.5 | - | 289.5 |
| CAMW33 | | 10 | | 10 | 168.5 | - | 260 |
| CAMW36 | | 5 | | 4 | 168 | - | 211 |
| CAMW38 | | 8 | | 8 | 164 | - | 260 |
| CAMW43 | | 9 | | 9 | 98.5 | - | 301.5 |
| CAMW46 | | 9 | | 9 | 182 | - | 263 |
| CAMW49 | | 11 | | 11 | 151.5 | - | 255 |
| CAMW52 | | 11 | | 9 | 71 | - | 193 |
| CAMW54 | | 15 | | 15 | 102 | - | 254 |
| VAP-01 | | 8 | 1 | 0 | 56 | - | 126 |
| VAP-02 | | 7 | 5 | 0 | 56 | - | 156 |
| VAP-03 | | 8 | 6 | 0 | 61 | - | 153 |
| VAP-04 | | 6 | 5 | 0 | 56 | - | 154 |
| VAP-05 | | 6 | | 6 | 75 | - | 150 |
| VAP-06 | | 6 | | 6 | 83 | - | 152 |
| VAP-07 | | 7 | | 7 | 84 | - | 174 |
| VAP-08 | | 7 | | 0 | 64 | - | 119 |
| VAP-09 | | 7 | | 4 | 76 | - | 163 |
| VAP-10 | | 8 | | 4 | 72 | - | 165 |
| VAP-11 | | 5 | | 3 | 85 | - | 145 |
| VAP-12 | | 8 | | 3 | 84 | - | 168 |
| VAP-13 | | 7 | | 7 | 85 | - | 169 |
| VAP-14 | | 4 | | 4 | 85 | - | 168 |
| VAP-15 | | 6 | | 3 | 59 | - | 150 |
| VAP-16 | | 4 | | 4 | 56 | - | 101 |
| VAP-17 | | 6 | | 6 | 78 | - | 152 |
| VAP-18 | | 5 | | 5 | 80 | - | 167 |
| VAP-19 | | 5 | | 1 | 54 | - | 126 |
| VAP-20 | | 8 | | 1 | 50 | - | 134 |
| VAP-21 | | 6 | | 6 | 63 | - | 137 |
| VAP-22 | | 2 | | 2 | 105 | - | 125 |
| VAP-24 | | 2 | | 0 | 111 | - | 121 |
| VAP-25 | | 5 | | 5 | 78 | - | 143 |
| VAP-26 | | 6 | | 5 | 66 | - | 124 |
| VAP-27 | | 4 | | 2 | 85 | - | 144 |
| VAP-28 | | 6 | | 3 | 73 | - | 155 |
| VAP-29 | | 9 | | 9 | 81 | - | 164 |
| VAP-30 | | 6 | | 6 | 83 | - | 160 |
| VAP-31 | | 6 | | 6 | 90 | - | 154 |
| VAP-32 | | 5 | | 5 | 90 | - | 141 |
| VAP-33 | | 8 | | 8 | 80 | - | 154 |
| VAP-34 | | 3 | | 3 | 89 | - | 147 |
| VAP-35 | | 5 | | 5 | 101 | - | 169 |
| VAP-36 | | 4 | | 4 | 96 | - | 155 |
| VAP-37 | | 5 | | 5 | 78 | - | 142 |
| VAP-38 | | 4 | | 4 | 100 | - | 175 |
| VAP-39 | | 6 | | 6 | 100 | - | 165 |
| VAP-40 | | 5 | | 5 | 88 | - | 172 |
| Total 50 | | 327 | | 249 | | | |

Acronyms and Abbreviations:
bgs: below ground surface
1,2,3-TCP: 1,2,3-trichloropropane
VOCs: volatile organic compounds

# Table 3.
# Monitoring Well Construction Data
# Remedial Investigation
# Chino Airport, Chino, California

| Well ID | Date Completed | Top of Casing Elevation (TOC) | Well Measuring Point Elevation (TOP) | Top of Screen Elevation (TOS) | Bottom of Screen Elevation (BOS) | Screen Length | Depth of Well (BTOC) | Borehole Diameter | Casing Diameter | Screen Slot Size & Material | Filter Pack Grain Size | Northing Coordinate | Easting Coordinate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | feet MSL | feet MSL | feet MSL | feet MSL | feet | feet | inches | inches | inches | | y | x |
| CAMW25 | 9/24/2014 | TBA | TBA | TBA | TBA | 10 | 94.10 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW26 | 10/2/2014 | TBA | TBA | TBA | TBA | 10 | 186.20 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW27 | 10/20/2014 | TBA | TBA | TBA | TBA | 10 | 183.92 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW28 | 10/15/2014 | TBA | TBA | TBA | TBA | 10 | 298.02 | 9.25 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW29 | 10/24/2014 | TBA | TBA | TBA | TBA | 10 | 169.84 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW30 | 10/27/2014 | TBA | TBA | TBA | TBA | 10 | 85.52 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW31 | 10/27/2014 | TBA | TBA | TBA | TBA | 10 | 288.10 | 9.25 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW32 | 11/3/2014 | TBA | TBA | TBA | TBA | 10 | 108.10 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW33 | 11/5/2014 | TBA | TBA | TBA | TBA | 10 | 230.20 | 9.25 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW34 | 11/7/2014 | TBA | TBA | TBA | TBA | 10 | 166.58 | 9.25 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW35 | 11/10/2014 | TBA | TBA | TBA | TBA | 10 | 99.36 | 9.25 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW36 | 11/11/2014 | TBA | TBA | TBA | TBA | 10 | 151.40 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW37 | 11/14/2014 | TBA | TBA | TBA | TBA | 10 | 230.15 | 9.25 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW38 | 11/24/2014 | TBA | TBA | TBA | TBA | 10 | 259.85 | 9.25 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW39 | 12/11/2014 | TBA | TBA | TBA | TBA | 10 | 185.00 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW40 | 11/19/2014 | TBA | TBA | TBA | TBA | 10 | 99.86 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW41 | 12/8/2014 | TBA | TBA | TBA | TBA | 10 | 163.10 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW42 | 12/8/2014 | TBA | TBA | TBA | TBA | 10 | 120.00 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW43 | 1/19/2015 | TBA | TBA | TBA | TBA | 10 | 300.05 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW44 | 1/26/2015 | TBA | TBA | TBA | TBA | 10 | 172.75 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW45 | 1/28/2015 | TBA | TBA | TBA | TBA | 10 | 131.75 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW46 | 1/19/2015 | TBA | TBA | TBA | TBA | 10 | 247.75 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW47 | 1/19/2015 | TBA | TBA | TBA | TBA | 10 | 190.85 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW48 | 1/19/2015 | TBA | TBA | TBA | TBA | 10 | 132.98 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW49 | 2/10/2015 | TBA | TBA | TBA | TBA | 10 | 236.03 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW50 | 2/10/2015 | TBA | TBA | TBA | TBA | 10 | 177.80 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW51 | 2/10/2015 | TBA | TBA | TBA | TBA | 10 | 110.00 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW52 | 2/9/2015 | TBA | TBA | TBA | TBA | 10 | 157.55 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW53 | 2/11/2015 | TBA | TBA | TBA | TBA | 10 | 114.90 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW54 | 3/2/2015 | TBA | TBA | TBA | TBA | 10 | 248.70 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW55 | 3/2/2015 | TBA | TBA | TBA | TBA | 10 | 172.70 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW56 | 3/5/2015 | TBA | TBA | TBA | TBA | 10 | 83.00 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |
| CAMW57 | 2/17/2015 | TBA | TBA | TBA | TBA | 10 | 122.75 | 10 | 4 PVC Sch. 80 | 0.020 SS | #2/12 Monterey Sand | TBA | TBA |

Acronyms and Abbreviations:

bgs: below ground surface
BOS - Bottom of Screen
BTOC - below top of casing
MSL - Mean Sea Level
PVC - poly-vinyl chloride
SS - stainless steel wire-wrap
TOC - Top of Casing
TOP - Top of Plug (installed with dedicated pumps)
TOS - Top of Screen

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Acetone | Bromodichloromethane | 2-Butanone(MEK) | Bromoform | Benzene | Carbon Disulfide | Chlorobenzene | Carbon Tetrachloride | Chloroform | Dibromochloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | Ethylbenzene | 2-Hexanone | p-Isopropyltoluene | 4-Methyl-2-Pentanone(MIBK) | Methylene Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAMW27 | CAMW27-VAP-151-152 | 151-152 | 10/7/2014 | 18 Jq | 0.56 Jq | <2.2 | 1.8 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | 1.3 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW27 | CAMW27-VAP-165-170 | 165-170 | 10/8/2014 | 16 Jq | <0.21 | 2.8 Jq | <0.50 | 0.21 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW27 | CAMW27-VAP-175-178 | 175-178 | 10/8/2014 | 31 | <0.21 | 5.7 Jq | <0.50 | 0.18 Jq | <0.41 | <0.17 | <0.23 | <0.46 | 0.26 Jq | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW27 | CAMW27-VAP-185-187 | 185-187 | 10/9/2014 | 20 | <0.21 | 3.5 Jq | <0.50 | 0.18 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | 0.14 Jq | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW27 | CAMW27-VAP-189-192 | 189-192 | 10/9/2014 | 16 Jq | <0.21 | 2.6 Jq | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW28 | CAMW28-VAP-128.5-130' | 128.5-130 | 10/7/2014 | 11 Jq | <0.21 | <2.2 | <0.50 | 0.17 Jq | <0.41 | <0.17 | <0.23 | 36 | <0.25 | <0.28 | 1.1 | <0.46 | <0.40 | <0.43 | <0.43 | 1.2 | <0.37 | 0.47 Jq | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW28 | CAMW28-VAP-138.5-140' | 138.5-140 | 10/8/2014 | 70 | <0.21 | 5.9 Jq | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 1.3 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW28 | CAMW28-VAP-158.5-160' | 158.5-160 | 10/8/2014 | 10 Jq | <0.21 | <2.2 | <0.50 | 0.29 Jq | <0.41 | <0.17 | <0.23 | 0.64 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW28 | CAM28-VAP188.5-189.5 | 188.5-189.5 | 10/8/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW28 | CAM28-VAP198-199' | 198-199 | 10/8/2014 | 25 | <0.21 | 3.1 Jq | <0.50 | 0.27 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW28 | CAM28-VAP218.5-220' | 218.5-220 | 10/8/2014 | 12 Jq | <0.21 | <2.2 | <0.50 | 0.32 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW28 | CAMW28-VAP-238.5-240' | 238.5-240 | 10/9/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW28 | CAMW28-VAP-248.5-250' | 248.5-250 | 10/10/2014 | 11 Jq | <0.21 | <2.2 | <0.50 | 0.19 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW28 | CAMW28-VAP-258-259.5' | 258-259.5 | 10/10/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW28 | CAMW28-VAP-268.5-270' | 268.5-270 | 10/10/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW31 | CAMW31-VAP-198.5-200' | 198.5-200 | 10/21/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.29 Jq | <0.41 | <0.17 | <0.23 | 0.61 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 0.49 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW31 | CAMW31-VAP-208.5-210' | 208.5-210 | 10/22/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.89 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 0.56 Jq | 1.4 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW31 | CAMW31-VAP-218.5-220' | 218.5-220 | 10/22/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.18 Jq | <0.41 | <0.17 | <0.23 | 1.9 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 1.2 | 3.1 | 0.40 Jq | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW31 | CAMW31-VAP-228.5-230' | 228.5-230 | 10/22/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.19 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW31 | CAMW31-VAP-245.5-246' | 245.5-246 | 10/22/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW31 | CAMW31-VAP-258.5-260' | 258.5-260 | 10/23/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW31 | CAMW31-VAP-268.5-270' | 268.5-270 | 10/23/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.26 Jq | 0.66 Jq | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW31 | CAMW31-VAP-276.5-277' | 276.5-277 | 10/23/2014 | 11 BJkq | <0.21 | <2.2 | <0.50 | 0.46 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW31 | CAMW31-VAP-288-289.5' | 288-289.5 | 10/23/2014 | <10 | 0.24 Jq | <2.2 | <0.50 | 0.15 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW33 | CAMW33-VAP-168.5-170' | 168.5-170 | 10/30/2014 | <10 | 0.76 Jq | <2.2 | 1.7 | <0.14 | <0.41 | <0.17 | <0.23 | 0.76 Jq | 1.3 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW33 | CAMW33-VAP-178.5-180' | 178.5-180 | 10/30/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW33 | CAMW33-VAP-188.5-190' | 188.5-190 | 10/31/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW33 | CAMW33-VAP-194.5-195' | 194.5-195 | 10/31/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW33 | CAMW33-VAP-208.5-210' | 208.5-210 | 10/31/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW33 | CAMW33-VAP-218-219' | 218-219 | 11/3/2014 | <10 | <0.21 | 3.2 Jq | <0.50 | 0.44 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | 0.24 Jq | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW33 | CAMW33-VAP-228-229' | 228-229 | 11/3/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.43 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | 0.17 Jq | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW33 | CAMW33-VAP-238.5-240' | 238.5-240 | 11/3/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW33 | CAMW33-VAP-248.5-250' | 248.5-250 | 11/4/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW33 | CAMW33-VAP-258.5-260' | 258.5-260 | 11/4/2014 | 11 Jq | <0.21 | 3.2 Jq | <0.50 | 0.54 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | 0.19 Jq | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW36 | CAMW36-VAP-168'-171' | 168-171 | 11/4/2014 | 12 BJkq | 0.25 Jq | 2.4 Jq | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | 0.55 Jq | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW36 | CAMW36-VAP-178'-181' | 178-181 | 11/5/2014 | 18 Jq | <0.21 | 3.1 Jq | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 2.7 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW36 | CAMW36-VAP-188'-191' | 188-191 | 11/5/2014 | 16 Jq | <0.21 | 2.9 Jq | 0.99 Jq | <0.14 | <0.41 | <0.17 | <0.23 | 0.50 Jq | 0.58 Jq | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW36 | CAMW36-VAP-198'-201' | 198-201 | 11/5/2014 | 15 Jq | 0.47 Jq | 2.5 Jq | 0.54 Jq | <0.14 | <0.41 | <0.17 | <0.23 | 0.60 Jq | 0.77 Jq | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW36 | CAMW36-VAP-208'-211' | 208-211 | 11/6/2014 | 24 Bk | <0.21 | 3.7 Jq | <0.50 | 0.19 Jq | <0.41 | <0.17 | <0.23 | 0.56 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW38 | CAMW38-VAP-164'-167' | 164-167 | 11/13/2014 | 10 BJkq | 0.45 Jq | <2.2 | 1.1 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | 0.96 Jq | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW38 | CAMW38-VAP-174'-177' | 174-177 | 11/14/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW38 | CAMW38-VAP-184'-187' | 184-187 | 11/14/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.24 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW38 | CAMW38-VAP-197.5-198.5' | 197.5-198.5 | 11/18/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.27 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | 0.80 BJakq |
| CAMW38 | CAMW38-VAP-207.5-209' | 207.5-209 | 11/19/2014 | 10 Jq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | 0.87 BJaq |
| CAMW38 | CAMW38-VAP-238.5-240 | 238.5-240 | 11/20/2014 | <10 | <0.21 | <2.2 | <0.50 | 1.8 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW38 | CAMW38-VAP-248.5-250 | 248.5-250 | 11/20/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.76 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Acetone | Bromodichloromethane | 2-Butanone(MEK) | Bromoform | Benzene | Carbon Disulfide | Chlorobenzene | Carbon Tetrachloride | Chloroform | Dibromochloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | Ethylbenzene | 2-Hexanone | p-Isopropyltoluene | 4-Methyl-2-Pentanone(MIBK) | Methylene Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAMW38 | CAMW38-VAP-258.5-260 | 258.5-260 | 11/20/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.27 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW43 | CAMW43-VAP-98.5-100' | 98.5-100 | 12/1/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW43 | CAMW43-VAP-118.5-120' | 118.5-120 | 12/1/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW43 | CAMW43-VAP-138.5-140' | 138.5-140 | 12/1/2014 | <10 | <0.21 | <2.2 | 1 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW43 | CAMW43-VAP-158.5-160' | 158.5-160 | 12/1/2014 | <10 | 1.1 | <2.2 | 4 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | 2.8 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW43 | CAMW43-VAP-178.5-180' | 178.5-180 | 12/2/2014 | <10 | 1.2 | <2.2 | 2.5 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | 2.5 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | 3.4 BJakq |
| CAMW43 | CAMW43-VAP-198.5-200' | 198.5-200 | 12/2/2014 | <10 | 1.2 | <2.2 | 2.5 | <0.14 | <0.41 | <0.17 | <0.23 | 0.47 Jq | 2.3 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | 3.7 BJakq |
| CAMW43 | CAMW43-VAP-218.5-220' | 218.5-220 | 12/2/2014 | <10 | 2.7 | <2.2 | 7 | <0.14 | <0.41 | <0.17 | <0.23 | 0.94 Jq | 5.2 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | 4.1 BJakq |
| CAMW43 | CAMW43-VAP-238.5-240' | 238.5-240 | 12/3/2014 | <10 | 1.1 | <2.2 | 2.4 | <0.14 | <0.41 | <0.17 | <0.23 | 0.75 Jq | 2 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW43 | CAMW43-VAP-300.5-301.5 | 300.5-301.5 | 1/14/2015 | 23 Bk | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.50 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW46 | CAMW46-VAP-182'-185' | 182-185 | 12/17/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW46 | CAMW46-VAP-192'-195' | 192-195 | 12/18/2014 | 17 Jq | <0.21 | 3.7 Jq | <0.50 | 0.25 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW46 | CAMW46-VAP-202'-205' | 202-205 | 12/18/2014 | 12 Jq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW46 | CAMW46-VAP-212'-215' | 212-215 | 12/19/2014 | 16 Jq | <0.21 | 3.1 Jq | <0.50 | 0.31 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW46 | CAMW46-VAP-221'-224' | 221-224 | 12/19/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | 0.29 Jq | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW46 | CAMW46-VAP-230'-233' | 230-233 | 1/5/2015 | <10 | 0.21 Jq | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | 0.38 Jq | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW46 | CAMW46-VAP-243'-245' | 243-245 | 1/6/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW46 | CAMW46-VAP-249'-252' | 249-252 | 1/6/2015 | <10 | <0.21 | <2.2 | <0.50 | 0.15 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW46 | CAMW46-VAP-259'-263' | 259-263 | 1/7/2015 | 34 | <0.21 | 3.2 Jq | <0.50 | 0.15 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW49 | CAMW49-VAP-151.5-154' | 151.5-154 | 1/21/2015 | 16 BJkq | <0.21 | 2.3 BJkq | <0.50 | 0.33 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW49 | CAMW49-VAP-161.5-164' | 161.5-164 | 1/21/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW49 | CAMW49-VAP-171-172' | 171-172 | 1/22/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW49 | CAMW49-VAP-180.5-181' | 180.5-181 | 1/22/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW49 | CAMW49-VAP-190-191' | 190-191 | 1/22/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW49 | CAMW49-VAP-201.5-202' | 201.5-202 | 1/23/2015 | 14 BJkq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW49 | CAMW49-VAP-211-214' | 211-214 | 1/23/2015 | 16 BJkq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW49 | CAMW49-VAP-221'-224' | 221-224 | 1/26/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW49 | CAMW49-VAP-232'-235' | 232-235 | 1/26/2015 | 13 BJkq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW49 | CAMW49-VAP-242'-245' | 242-245 | 1/26/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW49 | CAMW49-VAP-252'-255' | 252-255 | 1/27/2015 | 21 Bk | <0.21 | <2.2 | <0.50 | 0.21 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW52 | CAMW52-VAP-71-75' | 71-75 | 2/2/2015 | <10 | <0.21 | <2.2 | <0.50 | 0.20 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW52 | CAMW52-VAP-81-82' | 81-82 | 2/3/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW52 | CAMW52-VAP-100.5-101.5' | 100.5-101.5 | 2/3/2015 | 13 BJkq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW52 | CAMW52-VAP-111-113 | 111-113 | 2/3/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW52 | CAMW52-VAP-121.5-125.5 | 121.5-125.5 | 2/3/2015 | 15 BJkq | <0.21 | <2.2 | <0.50 | 0.19 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW52 | CAMW52-VAP-141-143 | 141-143 | 2/4/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW52 | CAMW52-VAP-151-153 | 151-153 | 2/4/2015 | <10 | <0.21 | <2.2 | <0.50 | 0.18 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW52 | CAMW52-VAP-160.5-161.5 | 160.5-161.5 | 2/5/2015 | 18 Jq | <0.21 | 2.9 Jq | <0.50 | 0.24 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW52 | CAMW52-VAP-171-172 | 171-172 | 2/5/2015 | <10 | <0.21 | <2.2 | <0.50 | 1.6 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | 0.58 Jq | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW52 | CAMW52-VAP-181-184 | 181-184 | 2/5/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW52 | CAMW52-VAP-190.5-193 | 190.5-193 | 2/6/2015 | 21 | <0.21 | 2.9 Jq | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-102'-106' | 102-106 | 2/11/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-121.5'-123' | 121.5-123 | 2/12/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-132.5'-135' | 132.5-135 | 2/12/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-142'-145' | 142-145 | 2/12/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-152.5'-154.5' | 152.5-154.5 | 2/13/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Acetone | Bromodichloromethane | 2-Butanone(MEK) | Bromoform | Benzene | Carbon Disulfide | Chlorobenzene | Carbon Tetrachloride | Chloroform | Dibromochloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | Ethylbenzene | 2-Hexanone | p-Isopropyltoluene | 4-Methyl-2-Pentanone(MIBK) | Methylene Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAMW54 | CAMW54-VAP-162.5'-164.5' | 162.5-164.5 | 2/13/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-172'-175' | 172-175 | 2/13/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-182.5-185.5 | 182.5-185.5 | 2/16/2015 | 18 Jq | <0.21 | <2.2 | <0.50 | <0.14 | 0.46 Jq | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-192.5-195.5 | 192.5-195.5 | 2/16/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-202.5-205.5 | 202.5-205.5 | 2/16/2015 | 11 Jq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-212.5'-214' | 212.5-214 | 2/17/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-222.5'-223.5' | 222.5-223.5 | 2/17/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-232.5'-233.5' | 232.5-233.5 | 2/18/2015 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-243.5'-246' | 243.5-246 | 2/18/2015 | 18 Jq | <0.21 | 2.5 Jq | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| CAMW54 | CAMW54-VAP-252'-254' | 252-254 | 2/19/2015 | 12 Jq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-01 | VAP-1-56-60 | 56-60 | 10/14/2013 | 13 | <0.11 | 2.5 Jq | <0.50 | <0.14 | 0.42 Jq | <0.23 | <0.15 | 12 | <0.37 | <0.098 | 0.96 | <0.20 | <0.15 | <0.072 | 0.33 Jq | 2.6 | 0.42 Jq | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-01 | VAP-1-65-69 | 65-69 | 10/14/2013 | 13 Jf | <0.11 | 2.9 Jq | <0.50 | 0.22 Jq | 1.3 Jf | <0.23 | <0.15 | 28 | <0.37 | 0.23 Jq | 1.6 | <0.20 | <0.15 | <0.072 | 1.4 | 9.5 | 1.2 | 0.27 Jq | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-01 | VAP-1-70-74 | 70-74 | 10/15/2013 | 88 | <0.11 | 20 | <0.50 | 0.41 Jq | 0.61 | <0.23 | <0.15 | 14 | <0.37 | <0.098 | 0.92 | <0.20 | <0.15 | <0.072 | 0.29 Jq | 3 | 0.28 Jq | <0.19 | <0.26 | 1.4 Jq | -- | <0.95 | <0.15 |
| VAP-01 | VAP-1-78-82 | 78-82 | 10/15/2013 | 50 | <0.11 | 9.9 | <0.50 | 0.21 Jq | 0.43 Jq | <0.23 | <0.15 | 5.1 | <0.37 | <0.098 | 0.37 Jq | <0.20 | <0.15 | <0.072 | <0.12 | 0.8 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-01 | VAP-1-85-89 | 85-89 | 10/16/2013 | 26 | <0.11 | 4.1 | <0.50 | <0.14 | <0.36 | <0.23 | <0.15 | 5.4 | <0.37 | <0.098 | 0.30 Jq | <0.20 | <0.15 | <0.072 | 0.23 Jq | 2.1 | 0.19 Jq | <0.19 | <0.26 | <1.2 | -- | <0.95 | 0.25 Jq |
| VAP-01 | VAP-1-100-104 | 100-104 | 10/25/2013 | <5.0 | <0.11 | <1.2 | <0.50 | <0.14 | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | 0.43 Jq | 1.2 | <0.20 | 0.21 Jq | <0.072 | 3.3 | 20 | 2.5 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-01 | VAP-1-115-119 | 115-119 | 10/25/2013 | <5.0 | <0.11 | <1.2 | <0.50 | <0.14 | <0.36 | <0.23 | <0.15 | 22 | <0.37 | 0.41 Jq | 0.69 | <0.20 | 0.25 Jq | <0.072 | 4.9 | 19 | 2.6 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-01 | VAP-1-122-126 | 122-126 | 10/25/2013 | 8.2 Jq | <0.11 | <1.2 | <0.50 | <0.14 | <0.36 | <0.23 | <0.15 | 13 | <0.37 | 0.27 Jq | 0.41 Jq | <0.20 | 0.15 Jq | <0.072 | 1.8 | 10 | 1.3 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-02 | VAP-2-56-60 | 56-60 | 10/25/2013 | <5.0 | <0.11 | <1.2 | <0.50 | <0.14 | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-02 | VAP-2-60-64 | 60-64 | 10/17/2013 | 84 | <0.11 | 14 | <0.50 | 0.21 Jq | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-02 | VAP-2-78-81 | 78-81 | 10/18/2013 | 24 | <0.11 | 5.5 | <0.50 | 0.23 Jq | 0.48 Jq | <0.23 | <0.15 | 0.6 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-02 | VAP-2-94-98 | 94-98 | 10/18/2013 | 23 | <0.11 | 5.2 | <0.50 | 0.31 Jq | <0.36 | <0.23 | <0.15 | 0.58 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-02 | VAP-2-108-112 | 108-112 | 10/18/2013 | 22 | <0.11 | 4.8 | <0.50 | <0.14 | 0.77 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-02 | VAP-02-120-124' | 120-124 | 10/31/2013 | 17 Bk | <0.11 | 4.1 Bk | <0.50 | 0.27 Jq | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-02 | VAP-02-152-156' | 152-156 | 10/31/2013 | 17 Bk | <0.11 | 4.3 Bk | <0.50 | 0.29 Jq | <0.36 | <0.23 | <0.15 | 1.2 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-03 | VAP-03-61' | 61 | 12/2/2013 | 160 | <0.11 | 12 Bk | <0.50 | 0.37 Jq | 0.85 Bk | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | 2.5 | <1.2 | -- | <0.95 | <0.15 |
| VAP-03 | VAP-03-65-69' | 65-69 | 12/2/2013 | 21 Bk | <0.11 | 1.5 BJkq | <0.50 | 0.15 Jq | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | 1.8 Jq | <0.15 |
| VAP-03 | VAP-03-73-77' | 73-77 | 12/2/2013 | 6.6 BJkq | <0.11 | <1.2 | <0.50 | <0.14 | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-03 | VAP-03-94-98' | 94-98 | 12/3/2013 | 70 | <0.11 | 15 | <0.50 | 0.33 Jq | 3.8 | <0.23 | <0.15 | 2.1 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | 1.4 Jq | <0.15 |
| VAP-03 | VAP-03-111-115' | 111-115 | 12/3/2013 | 16 | <0.11 | 3.9 | <0.50 | 0.26 Jq | <0.36 | <0.23 | <0.15 | 3 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | 0.13 Jq | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-03 | VAP-03-130-134' | 130-134 | 12/3/2013 | 18 | <0.11 | 4.8 | <0.50 | 0.24 Jq | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 UJc | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-03 | VAP-03-144-145' | 144-145 | 12/4/2013 | 86 | <0.11 | 12 | <0.50 | 0.36 Jq | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | 1.7 Jq | -- | 5.2 | <0.15 |
| VAP-03 | VAP-03-149-153' | 149-153 | 12/4/2013 | 120 | <0.11 | 21 | <0.50 | 0.57 | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | 2.4 Jq | -- | <0.95 | <0.15 |
| VAP-04 | VAP-04-56-60' | 56-60 | 12/5/2013 | 7.8 Jq | <0.11 | <1.2 | <0.50 | <0.14 | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-04 | VAP-04-67-71' | 67-71 | 12/5/2013 | 16 | <0.11 | 3 | <0.50 | 0.38 Jq | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-04 | VAP-04-82-86' | 82-86 | 12/5/2013 | 7.2 Jq | <0.11 | 1.3 Jq | <0.50 | 0.23 Jq | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-04 | VAP-04-110-114' | 110-114 | 12/6/2013 | 7.3 Jq | <0.11 | 1.3 Jq | <0.50 | <0.14 | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-04 | VAP-04-120-124' | 120-124 | 12/6/2013 | <5.0 | <0.11 | <1.2 | <0.50 | <0.14 | <0.36 | <0.23 | <0.15 | <0.46 | <0.37 | <0.098 | <0.21 | <0.20 | <0.15 | <0.072 | <0.12 | <0.18 | <0.10 | <0.19 | <0.26 | <1.2 | -- | <0.95 | <0.15 |
| VAP-04 | VAP-04-150-154' | 150-154 | 12/6/2013 | 140 | <1.1 | 36 | <5.0 | <1.4 | <3.6 | <2.3 | <1.5 | <4.6 | <3.7 | <0.98 | <2.1 | <2.0 | <1.5 | <0.72 | <1.2 | <1.8 | <1.0 | <1.9 | <2.6 | <12 | -- | <9.5 | <1.5 |
| VAP-05 | VAP05-75-79' | 75-79 | 5/15/2014 | 10 Jq | <0.21 | <2.2 | <0.50 | 0.40 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-05 | VAP05-95-99' | 95-99 | 5/16/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-05 | VAP05-103-107' | 103-107 | 5/16/2014 | 23 | <0.21 | 5.7 Jq | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-05 | VAP05-115-119' | 115-119 | 5/16/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-05 | VAP05-125-129' | 125-129 | 5/19/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-05 | VAP05-147-150' | 147-150 | 5/19/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-06 | VAP06-83-87' | 83-87 | 5/12/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Acetone | Bromodichloromethane | 2-Butanone(MEK) | Bromoform | Benzene | Carbon Disulfide | Chlorobenzene | Carbon Tetrachloride | Chloroform | Dibromochloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | Ethylbenzene | 2-Hexanone | p-Isopropyltoluene | 4-Methyl-2-Pentanone(MIBK) | Methylene Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAP-06 | VAP06-93-97' | 93-97 | 5/12/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-06 | VAP06-120-124' | 120-124 | 5/13/2014 | 31 | <0.21 | 4.7 Jq | <0.50 | 0.26 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-06 | VAP06-126-130' | 126-130 | 5/13/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-06 | VAP06-138-142' | 138-142 | 5/13/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-06 | VAP06-151.5-152' | 151.5-152 | 5/13/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-07 | VAP07-84-88' | 84-88 | 5/21/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.32 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-07 | VAP07-98-102' | 98-102 | 5/21/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-07 | VAP07-111-115' | 111-115 | 5/22/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-07 | VAP07-125-129' | 125-129 | 5/22/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-07 | VAP07-131-135' | 131-135 | 5/22/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-07 | VAP07-156-160' | 156-160 | 5/22/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-07 | VAP07-170-174' | 170-174 | 5/22/2014 | 10 Jq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-08 | VAP08-64-68' | 64-68 | 5/14/2014 | 13 Jq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 2.2 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-08 | VAP08-69-73' | 69-73 | 5/14/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 0.57 | 5.3 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-08 | VAP08-77-81' | 77-81 | 5/14/2014 | 13 Jq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 0.25 Jq | 6.4 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-08 | VAP08-88-92' | 88-92 | 5/14/2014 | 17 Jq | <0.21 | 3.1 Jq | <0.50 | <0.14 | <0.41 | <0.17 | 2.5 | 23 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-08 | VAP08-98-102' | 98-102 | 5/14/2014 | 30 | <0.21 | 5.9 Jq | <0.50 | 0.31 Jq | <0.41 | <0.17 | <0.23 | 23 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-08 | VAP08-107-111' | 107-111 | 5/15/2014 | 35 | <0.21 | 6.7 Jq | <0.50 | 0.22 Jq | <0.41 | <0.17 | <0.23 | 17 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-08 | VAP08-115-119' | 115-119 | 5/15/2014 | 15 Jq | <0.21 | 2.7 Jq | <0.50 | <0.14 | <0.41 | <0.17 | 5.5 | 22 | <0.25 | 0.29 Jq | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-09 | VAP09-76-80' | 76-80 | 5/19/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 1.4 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-09 | VAP09-96-100' | 96-100 | 5/20/2014 | 14 Jq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 12 | <0.25 | <0.28 | 0.25 Jq | <0.46 | <0.40 | <0.43 | <0.43 | 1.1 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-09 | VAP09-116-120' | 116-120 | 5/20/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 1.5 | 3.5 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-09 | VAP09-138-142' | 138-142 | 5/20/2014 | 12 Jq | <0.21 | 3.1 Jq | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 3.9 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-09 | VAP09-145-149' | 145-149 | 5/20/2014 | 14 Jq | <0.21 | 3.2 Jq | <0.50 | 0.14 Jq | <0.41 | <0.17 | <0.23 | 3.7 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 0.48 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-09 | VAP09-152-156' | 152-156 | 5/20/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 3.7 | <0.25 | <0.28 | 0.49 Jq | <0.46 | <0.40 | <0.43 | <0.43 | 0.53 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-09 | VAP09-159-163' | 159-163 | 5/21/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 3.7 | <0.25 | <0.28 | 0.28 Jq | <0.46 | <0.40 | <0.43 | <0.43 | 0.59 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-10 | VAP10-72-76' | 72-76 | 5/28/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-10 | VAP10-81-85' | 81-85 | 5/28/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.46 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-10 | VAP10-96-100' | 96-100 | 5/28/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 1 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-10 | VAP10-104-108' | 104-108 | 5/28/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.54 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-10 | VAP10-118-122' | 118-122 | 5/29/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 5.1 | <0.25 | <0.28 | 0.62 | <0.46 | <0.40 | <0.43 | <0.43 | 0.69 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-10 | VAP10-141-145' | 141-145 | 5/29/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 3.6 | <0.25 | <0.28 | 0.37 Jq | <0.46 | <0.40 | <0.43 | <0.43 | 1 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-10 | VAP10-152-156' | 152-156 | 5/29/2014 | 12 Jq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-10 | VAP10-161-165' | 161-165 | 5/29/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 0.35 Jq | 4.2 | <0.25 | <0.28 | 0.40 Jq | <0.46 | <0.40 | <0.43 | <0.43 | 1 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-11 | VAP11-85-89' | 85-89 | 5/30/2014 | <50 | <1.0 | <11 | <2.5 | <0.71 | <2.0 | <0.86 | <1.1 | 16 | <1.2 | <1.4 | <1.2 | <2.3 | <2.0 | <2.2 | <2.2 | <2.4 | <1.8 | <2.1 | <0.69 | <10 | <0.79 | <22 | <3.2 |
| VAP-11 | VAP11-92-96' | 92-96 | 5/30/2014 | <20 | <0.41 | <4.4 | <1.0 | <0.28 | <0.82 | <0.34 | <0.45 | 10 | <0.50 | <0.56 | <0.48 | <0.91 | <0.80 | <0.86 | <0.86 | <0.95 | <0.74 | <0.85 | <0.28 | <4.2 | <0.32 | <8.8 | <1.3 |
| VAP-11 | VAP11-100-104' | 100-104 | 5/30/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 5 | <0.25 | <0.28 | 0.29 Jq | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-11 | VAP11-136-140 | 136-140 | 5/30/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-11 | VAP11-142-145' | 142-145 | 6/2/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-12 | VAP12-84-88' | 84-88 | 5/5/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.58 | <0.41 | <0.17 | 0.39 Jq | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-12 | VAP12-91-95' | 91-95 | 5/6/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.5 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-12 | VAP12-107-111' | 107-111 | 5/6/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.15 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-12 | VAP12-114.5-115.5 | 114.5-115.5 | 5/7/2014 | <10 | <0.21 | 3.8 BJaq | <0.50 | 0.40 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-12 | VAP12-130-130.5 | 130-130.5 | 5/7/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-12 | VAP12-148.5-151' | 148.5-151 | 5/8/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-12 | VAP12-157-159' | 157-159 | 5/8/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Acetone | Bromodichloromethane | 2-Butanone(MEK) | Bromoform | Benzene | Carbon Disulfide | Chlorobenzene | Carbon Tetrachloride | Chloroform | Dibromochloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | Ethylbenzene | 2-Hexanone | p-Isopropyltoluene | 4-Methyl-2-Pentanone(MIBK) | Methylene Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAP-12 | VAP12-166-168' | 166-168 | 5/8/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.20 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-13 | VAP13-85-89' | 85-89 | 5/23/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 0.32 Jq | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-13 | VAP13-93-97' | 93-97 | 5/23/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 2.6 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-13 | VAP13-106-110' | 106-110 | 5/23/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 0.34 Jq | 0.63 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-13 | VAP13-113-117' | 113-117 | 5/27/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-13 | VAP13-130-134' | 130-134 | 5/27/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | 0.25 Jq | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-13 | VAP13-148-152' | 148-152 | 5/27/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-13 | VAP13-165-169' | 165-169 | 5/28/2014 | 12 Jq | <0.21 | 2.2 Jq | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-14 | VAP14-85-89' | 85-89 | 5/28/2014 | <10 | <0.21 | 2.2 Jq | <0.50 | <0.14 | <0.41 | <0.17 | 0.62 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-14 | VAP14-114-118' | 114-118 | 5/28/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.17 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-14 | VAP14-147-151' | 147-151 | 5/28/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-14 | VAP14-164-168' | 164-168 | 5/28/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.27 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-15 | VAP-15-59-63' | 59-63 | 5/29/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.51 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-15 | VAP-15-68-72 | 68-72 | 5/29/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.82 | <0.41 | <0.17 | <0.23 | 5.4 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 0.57 Jq | <0.37 | <0.42 | 0.17 Jq | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-15 | VAP-15-75-79 | 75-79 | 5/30/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 7.3 | <0.25 | <0.28 | 0.30 Jq | <0.46 | <0.40 | <0.43 | <0.43 | 0.75 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-15 | VAP-15-97-101' | 97-101 | 6/2/2014 | 17 Jq | <0.21 | <2.2 | <0.50 | 0.36 Jq | <0.41 | <0.17 | <0.23 | 18 | <0.25 | <0.28 | 1.7 | <0.46 | <0.40 | <0.43 | <0.43 | 8.3 | 0.62 Jq | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-15 | VAP-15-134-138' | 134-138 | 6/2/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 16 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 0.46 Jq | 2.9 | 0.42 Jq | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-15 | VAP-15-146-150' | 146-150 | 6/3/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 1.5 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-16 | VAP-16-56-60' | 56-60 | 6/3/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 0.49 Jq | 5.8 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-16 | VAP-16-73-77' | 73-77 | 6/3/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.22 Jq | <0.41 | 0.32 Jq | <0.23 | 6.9 | <0.25 | <0.28 | 0.6 | <0.46 | <0.40 | <0.43 | 6.9 | 32 | 3.2 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-16 | VAP-16-80-84' | 80-84 | 6/4/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.17 Jq | <0.41 | 0.32 Jq | <0.23 | 8.4 | <0.25 | <0.28 | 0.28 Jq | <0.46 | <0.40 | <0.43 | 5.6 | 30 | 3.3 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-16 | VAP16-97-101' | 97-101 | 6/4/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.65 | <0.41 | 4 | <0.23 | 18 | <0.25 | 0.47 Jq | 1.1 | 35 | 2.6 | 13 | 3.6 | 85 | 7.7 Jf | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-17 | VAP17-78-82' | 78-82 | 6/2/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 1.9 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 0.97 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-17 | VAP17-100-104' | 100-104 | 6/2/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 7.9 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 0.73 Jq | 2.6 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-17 | VAP17-108-112' | 108-112 | 6/2/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 4.7 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 0.52 Jq | 2.7 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-17 | VAP17-117-121' | 117-121 | 6/3/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 3.9 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 1.9 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-17 | VAP17-134-138' | 134-138 | 6/3/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 2.3 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 0.67 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-17 | VAP17-148-152' | 148-152 | 6/3/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-18 | VAP18-80-85' | 80-85 | 6/4/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-18 | VAP18-105-109' | 105-109 | 6/4/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-18 | VAP18-136-140' | 136-140 | 6/4/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-18 | VAP18-150-154' | 150-154 | 6/5/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-18 | VAP18-163-167' | 163-167 | 6/5/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-19 | VAP-19-54-58 | 54-58 | 6/6/2014 | 11 BJkq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-19 | VAP19-61-65' | 61-65 | 6/4/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 5.5 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 1.1 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-19 | VAP19-67-71' | 67-71 | 6/5/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 6.4 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 1.2 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-19 | VAP19-72-76' | 72-76 | 6/5/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 7 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 1.4 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-19 | VAP19-122-126' | 122-126 | 6/5/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | 0.26 Jq | <0.23 | 17 | <0.25 | 0.47 Jq | 0.68 | <0.46 | <0.40 | <0.43 | 7.7 | 30 | 3.5 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-20 | VAP20-50-55' | 50-55 | 6/9/2014 | 15 Jq | <0.21 | <2.2 | <0.50 | 0.22 Jq | <0.41 | <0.17 | <0.23 | 0.70 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 0.97 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-20 | VAP20-62-66' | 62-66 | 6/9/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 6.3 | <0.25 | <0.28 | 0.26 Jq | <0.46 | <0.40 | <0.43 | 2.7 | 13 | 1.2 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-20 | VAP20-68-72' | 68-72 | 6/9/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 8.6 | <0.25 | <0.28 | 0.41 Jq | <0.46 | <0.40 | <0.43 | 2.8 | 17 | 2 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-20 | VAP20-74-78' | 74-78 | 6/9/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 9.4 | <0.25 | 0.35 Jq | 0.47 Jq | <0.46 | <0.40 | <0.43 | 3.5 | 20 | 2.1 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-20 | VAP20-103-107' | 103-107 | 6/9/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | 0.23 Jq | <0.23 | 9.7 | <0.25 | 0.37 Jq | 0.48 Jq | <0.46 | <0.40 | <0.43 | 4.3 | 25 | 2.9 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-20 | VAP20-112-116' | 112-116 | 6/9/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | 0.31 Jq | <0.23 | 11 | <0.25 | 0.49 Jq | 0.61 | <0.46 | <0.40 | <0.43 | 6.6 | 33 | 3.9 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-20 | VAP-20-124-128' | 124-128 | 6/10/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | 0.22 Jq | <0.23 | 13 | <0.25 | 0.57 Jq | 0.7 | <0.46 | <0.40 | <0.43 | 6.3 | 26 | 3.2 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-20 | VAP-20-130-134' | 130-134 | 6/10/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | 0.27 Jq | <0.23 | 11 | <0.25 | 0.50 Jq | 0.53 | <0.46 | <0.40 | <0.43 | 3.9 | 27 | 3.3 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Acetone | Bromodichloromethane | 2-Butanone(MEK) | Bromoform | Benzene | Carbon Disulfide | Chlorobenzene | Carbon Tetrachloride | Chloroform | Dibromochloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | Ethylbenzene | 2-Hexanone | p-Isopropyltoluene | 4-Methyl-2-Pentanone(MIBK) | Methylene Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAP-21 | VAP-21-63-67' | 63-67 | 6/11/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-21 | VAP-21-78-82' | 78-82 | 6/11/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.94 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-21 | VAP-21-96-100' | 96-100 | 6/11/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 2 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 0.90 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-21 | VAP-21-105-109' | 105-109 | 6/11/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 4.6 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 1.6 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-21 | VAP-21-110-114' | 110-114 | 6/11/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 5.5 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 1.7 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-21 | VAP-21-133-137' | 133-137 | 6/11/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 8.2 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 1.8 | 13 | 1.9 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-22 | VAP-22-105-109' | 105-109 | 6/9/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-22 | VAP-22-121-125' | 121-125 | 6/9/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-24 | VAP24-111-115' | 111-115 | 7/7/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 0.54 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-24 | VAP24-118-121' | 118-121 | 7/7/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.15 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | 0.62 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-25 | VAP25-78-82' | 78-82 | 6/6/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-25 | VAP25-98-102' | 98-102 | 6/6/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.71 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-25 | VAP25-109-113' | 109-113 | 6/6/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.54 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-25 | VAP25-133-137' | 133-137 | 6/6/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-25 | VAP25-139-143' | 139-143 | 6/6/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-26 | VAP26-66-70' | 66-70 | 7/9/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-26 | VAP26-72-76' | 72-76 | 7/9/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-26 | VAP26-85-89' | 85-89 | 7/9/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-26 | VAP26-91-95' | 91-95 | 7/10/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-26 | VAP26-109-113' | 109-113 | 7/10/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-26 | VAP26-120-124 | 120-124 | 7/10/2014 | 13 BJkq | <0.21 | 3.9 Jq | <0.50 | 0.19 Jq | <0.41 | <0.17 | <0.23 | 1.5 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-27 | VAP27-85-89 | 85-89 | 8/4/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 0.65 | 3 | <0.25 | <0.28 | 0.38 Jq | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | 1.6 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-27 | VAP27-92-96 | 92-96 | 8/4/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 0.36 Jq | 1.5 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-27 | VAP27-120-124' | 120-124 | 8/6/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.58 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-27 | VAP27-140-144' | 140-144 | 8/6/2014 | 18 Jq | <0.21 | 4.4 Jq | <0.50 | 0.48 Jq | 0.41 Jq | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | 0.34 Jq | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-28 | VAP28-73-77' | 73-77 | 8/7/2014 | 17 Jq | <0.21 | 4.4 Jq | <0.50 | 0.66 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-28 | VAP28-91-95' | 91-95 | 8/7/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 0.9 | 2.1 | <0.25 | <0.28 | 1.4 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-28 | VAP28-108-112' | 108-112 | 8/7/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 0.45 Jq | 2.2 | <0.25 | <0.28 | 1.4 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | 0.44 Jq | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-28 | VAP28-116-120' | 116-120 | 8/7/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | 0.29 Jq | 1.7 | <0.25 | <0.28 | 1.3 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-28 | VAP28-144-148' | 144-148 | 8/8/2014 | 14 Jq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-28 | VAP28-151-155' | 151-155 | 8/8/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-29 | VAP29-81-85' | 81-85 | 8/8/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-29 | VAP29-86-90' | 86-90 | 8/8/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Acetone | Bromodichloromethane | 2-Butanone(MEK) | Bromoform | Benzene | Carbon Disulfide | Chlorobenzene | Carbon Tetrachloride | Chloroform | Dibromochloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | Ethylbenzene | 2-Hexanone | p-Isopropyltoluene | 4-Methyl-2-Pentanone(MIBK) | Methylene Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAP-29 | VAP29-98-102' | 98-102 | 8/11/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.52 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-29 | VAP29-106-110' | 106-110 | 8/11/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-29 | VAP29-114-118' | 114-118 | 8/11/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 0.53 Jq | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-29 | VAP29-138-142' | 138-142 | 8/11/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-29 | VAP29-145-149' | 145-149 | 8/11/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.48 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-29 | VAP29-152-156' | 152-156 | 8/12/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | 0.46 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-29 | VAP29-160-164' | 160-164 | 8/12/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.15 Jq | <0.41 | <0.17 | <0.23 | 0.48 Jq | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-30 | VAP30-83-87' | 83-87 | 8/13/2014 | 18 Jq | <0.21 | 4.4 Jq | <0.50 | 0.56 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-30 | VAP30-110-114' | 110-114 | 8/13/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-30 | VAP30-126-130' | 126-130 | 8/13/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-30 | VAP30-136-140' | 136-140 | 8/13/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-30 | VAP30-148-152' | 148-152 | 8/13/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-30 | VAP30-156-160' | 156-160 | 8/13/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-31 | VAP31-90-94' | 90-94 | 8/14/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-31 | VAP31-100-104' | 100-104 | 8/14/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.17 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-31 | VAP31-120-124' | 120-124 | 8/15/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-31 | VAP31-130-134' | 130-134 | 8/15/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-31 | VAP31-140-144' | 140-144 | 8/15/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-31 | VAP31-150-154' | 150-154 | 8/15/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-32 | VAP32-90-94' | 90-94 | 8/18/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 0.44 Jq | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-32 | VAP32-110-114' | 110-114 | 8/19/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-32 | VAP32-120-124' | 120-124 | 8/19/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.19 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-32 | VAP32-130-134' | 130-134 | 8/19/2014 | 10 BJkq | <0.21 | 2.8 Jq | <0.50 | 0.39 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-32 | VAP32-137-141' | 137-141 | 8/20/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-33 | VAP33-80-84' | 80-84 | 8/19/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.19 Jq | <0.41 | <0.17 | 4.6 | 8.2 | <0.25 | <0.28 | 2.3 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-33 | VAP33-90-94' | 90-94 | 8/19/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.25 Jq | <0.41 | <0.17 | 6.3 | 20 | <0.25 | <0.28 | 2.1 | <0.46 | <0.40 | <0.43 | <0.43 | 0.48 Jq | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | 0.69 BJkq |
| VAP-33 | VAP33-100-104' | 100-104 | 8/20/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-33 | VAP33-110-114' | 110-114 | 8/20/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-33 | VAP33-120-124' | 120-124 | 8/21/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.27 BJkq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-33 | VAP33-130-134' | 130-134 | 8/21/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-33 | VAP33-140-144' | 140-144 | 8/21/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-33 | VAP33-150-154' | 150-154 | 8/21/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-34 | VAP34-89-93' | 89-93 | 9/22/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.6 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-34 | VAP34-125-129' | 125-129 | 9/22/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-34 | VAP34-143-147' | 143-147 | 9/22/2014 | <10 | <0.21 | <2.2 | <0.50 | 0.14 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-35 | VAP35-101-105 | 101-105 | 9/23/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 0.49 Jq | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | 1.0 BJakq |
| VAP-35 | VAP35-120-124 | 120-124 | 9/23/2014 | 14 BJkq | <0.21 | <2.2 | <0.50 | 0.92 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | 1.1 BJakq |
| VAP-35 | VAP35-125-129 | 125-129 | 9/23/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 0.74 Jq | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | 1.0 BJakq |
| VAP-35 | VAP35-138-142 | 138-142 | 9/23/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | 1.1 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | 0.98 BJakq |
| VAP-35 | VAP35-165-169 | 165-169 | 9/23/2014 | 43 Bk | <0.21 | 7.2 BJkq | <0.50 | <0.14 | <0.41 | 0.22 Jq | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | 0.17 BJaq | <4.4 | 1.1 BJakq |
| VAP-36 | VAP36-96-100 | 96-100 | 9/24/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-36 | VAP36-101-105 | 101-105 | 9/24/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-36 | VAP36-125-129 | 125-129 | 9/24/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-36 | VAP36-151-155 | 151-155 | 9/24/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-37 | VAP37-78-82 | 78-82 | 9/25/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-37 | VAP37-106-110 | 106-110 | 9/25/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Acetone | Bromodichloromethane | 2-Butanone(MEK) | Bromoform | Benzene | Carbon Disulfide | Chlorobenzene | Carbon Tetrachloride | Chloroform | Dibromochloromethane | 1,1-Dichloroethane | 1,2-Dichloroethane | 1,2-Dichlorobenzene | 1,3-Dichlorobenzene | 1,4-Dichlorobenzene | 1,1-Dichloroethene | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | 1,2-Dichloropropane | Ethylbenzene | 2-Hexanone | p-Isopropyltoluene | 4-Methyl-2-Pentanone(MIBK) | Methylene Chloride |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAP-37 | VAP37-111-115 | 111-115 | 9/25/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-37 | VAP37-135-139 | 135-139 | 9/25/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-37 | VAP37-140-142 | 140-142 | 9/25/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-38 | VAP38-100-104 | 100-104 | 9/26/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-38 | VAP38-138-142 | 138-142 | 9/26/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-38 | VAP38-157-161 | 157-161 | 9/26/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-38 | VAP38-171-175 | 171-175 | 9/26/2014 | 11 BJkq | <0.21 | 2.3 BJkq | <0.50 | 0.21 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-39 | VAP39-100-104 | 100-104 | 9/26/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-39 | VAP39-107-111 | 107-111 | 9/26/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-39 | VAP39-117-121 | 117-121 | 9/26/2014 | 13 Jq | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-39 | VAP39-138-142 | 138-142 | 9/26/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-39 | VAP39-148-152 | 148-152 | 9/26/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-39 | VAP39-161-165 | 161-165 | 9/26/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-40 | VAP40-88-92 | 88-92 | 9/29/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-40 | VAP40-100-104 | 100-104 | 9/29/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-40 | VAP40-134-138 | 134-138 | 9/29/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-40 | VAP40-147-151 | 147-151 | 9/29/2014 | <10 | <0.21 | <2.2 | <0.50 | <0.14 | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| VAP-40 | VAP40-168-172 | 168-172 | 9/29/2014 | 12 Jq | <0.21 | 2.7 Jq | <0.50 | 0.23 Jq | <0.41 | <0.17 | <0.23 | <0.46 | <0.25 | <0.28 | <0.24 | <0.46 | <0.40 | <0.43 | <0.43 | <0.48 | <0.37 | <0.42 | <0.14 | <2.1 | <0.16 | <4.4 | <0.64 |
| Minimum Concentration | | | | 6.6 | 0.21 | 1.3 | 0.54 | 0.14 | 0.41 | 0.22 | 0.25 | 0.46 | 0.26 | 0.23 | 0.25 | 35 | 0.15 | 13 | 0.23 | 0.48 | 0.13 | 0.27 | 0.14 | 1.4 | 0.17 | 1.4 | 0.25 |
| Maximum Concentration | | | | 160 | 2.7 | 36 | 7.0 | 1.8 | 3.8 | 4.0 | 6.3 | 36 | 5.2 | 0.57 | 2.3 | 35 | 2.6 | 13 | 7.7 | 85 | 7.7 | 1.6 | 2.5 | 2.4 | 0.17 | 5.2 | 4.1 |
| No. Analyses | | | | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 |
| No. Samples above MDL | | | | 92 | 12 | 61 | 11.0 | 87 | 11.0 | 9 | 19 | 96 | 14 | 12 | 36 | 1 | 4 | 1 | 30 | 51 | 23 | 4 | 8 | 3 | 1 | 3 | 12 |
| Investigation Goal | | | | * | * | * | * | 1 | * | * | 0.5 | * | * | 5 | 0.5 | 600 | * | 5 | 6 | 6 | 10 | 5 | 160 | * | * | 120 | 5 |
| No. Samples above Investigation Goal | | | | | | | | 2 | | | 11 | | | 0 | 19 | 0 | | 1 | 4 | 17 | 0 | 0 | 0 | | | 0 | 0 |
| Frequency of Detection Above Investigation Goal | | | | 0.00% | 0.00% | 0.00% | 0.00% | 0.61% | 0.00% | 0.00% | 3.36% | 0.00% | 0.00% | 0.00% | 5.81% | 0.00% | 0.00% | 0.31% | 1.22% | 5.20% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Styrene | Tert-Butyl Alcohol (TBA) | Toluene | 1,1,2-Trichloroethane | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | Trichloroethene | 1,2,3-Trichloropropane | 1,2,3-Trichloropropane (Low Level) | Trichlorofluoromethane | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Xylenes (total) | Xylenes (m+p) | Xylenes (ortho) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAMW27 | CAMW27-VAP-151-152 | 151-152 | 10/7/2014 | <0.17 | <4.6 | 0.26 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.04 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW27 | CAMW27-VAP-165-170 | 165-170 | 10/8/2014 | <0.17 | <4.6 | 0.25 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.18 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW27 | CAMW27-VAP-175-178 | 175-178 | 10/8/2014 | <0.17 | <4.6 | 1.1 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.2 | <1.7 | <0.78 | <0.41 | <0.39 | -- | 0.42 Jq | 0.25 Jq |
| CAMW27 | CAMW27-VAP-185-187 | 185-187 | 10/9/2014 | <0.17 | <4.6 | 15 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | 0.48 Jq | <0.23 |
| CAMW27 | CAMW27-VAP-189-192 | 189-192 | 10/9/2014 | <0.17 | <4.6 | 1.1 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.26 | <1.7 | <0.78 | <0.41 | <0.39 | -- | 0.37 Jq | <0.23 |
| CAMW28 | CAMW28-VAP-128.5-130' | 128.5-130 | 10/7/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 13 | 51 | | <1.7 | <0.78 | 0.99 Jq | <0.39 | -- | <0.30 | <0.23 |
| CAMW28 | CAMW28-VAP-138.5-140' | 138.5-140 | 10/8/2014 | <0.17 | 6.5 Jq | <0.24 | <0.38 | <0.51 | <0.50 | 0.82 Jq | 1.2 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW28 | CAMW28-VAP-158.5-160' | 158.5-160 | 10/8/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.16 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW28 | CAM28-VAP188.5-189.5 | 188.5-189.5 | 10/8/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW28 | CAM28-VAP198-199' | 198-199 | 10/8/2014 | <0.17 | <4.6 | 0.29 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW28 | CAM28-VAP218.5-220' | 218.5-220 | 10/8/2014 | <0.17 | <4.6 | 0.28 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.014 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW28 | CAMW28-VAP-238.5-240' | 238.5-240 | 10/9/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW28 | CAMW28-VAP-248.5-250' | 248.5-250 | 10/10/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.05 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW28 | CAMW28-VAP-258-259.5' | 258-259.5 | 10/10/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW28 | CAMW28-VAP-268.5-270' | 268.5-270 | 10/10/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW31 | CAMW31-VAP-198.5-200' | 198.5-200 | 10/21/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 7.4 | <0.64 | 0.046 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW31 | CAMW31-VAP-208.5-210' | 208.5-210 | 10/22/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 26 | <0.64 | 0.057 Jc | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW31 | CAMW31-VAP-218.5-220' | 218.5-220 | 10/22/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 53 | <0.64 | 0.24 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW31 | CAMW31-VAP-228.5-230' | 228.5-230 | 10/22/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 1.2 | <0.64 | 0.0030 Jq | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW31 | CAMW31-VAP-245.5-246' | 245.5-246 | 10/22/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW31 | CAMW31-VAP-258.5-260' | 258.5-260 | 10/23/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW31 | CAMW31-VAP-268.5-270' | 268.5-270 | 10/23/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.01 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW31 | CAMW31-VAP-276.5-277' | 276.5-277 | 10/23/2014 | <0.17 | <4.6 | 0.31 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.0047 Jq | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW31 | CAMW31-VAP-288-289.5' | 288-289.5 | 10/23/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.0061 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW33 | CAMW33-VAP-168.5-170' | 168.5-170 | 10/30/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 66 | <0.64 | 0.053 | <1.7 | <0.78 | <0.41 | 0.75 Jq | -- | <0.30 | <0.23 |
| CAMW33 | CAMW33-VAP-178.5-180' | 178.5-180 | 10/30/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 27 | <0.64 | 0.017 | <1.7 | <0.78 | <0.41 | 1.3 | -- | <0.30 | <0.23 |
| CAMW33 | CAMW33-VAP-188.5-190' | 188.5-190 | 10/31/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW33 | CAMW33-VAP-194.5-195' | 194.5-195 | 10/31/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW33 | CAMW33-VAP-208.5-210' | 208.5-210 | 10/31/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.39 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW33 | CAMW33-VAP-218-219' | 218-219 | 11/3/2014 | <0.17 | <4.6 | 0.64 BJkq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | 0.51 Jq | <0.23 |
| CAMW33 | CAMW33-VAP-228-229' | 228-229 | 11/3/2014 | <0.17 | <4.6 | 0.43 BJkq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.012 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW33 | CAMW33-VAP-238.5-240' | 238.5-240 | 11/3/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.012 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW33 | CAMW33-VAP-248.5-250' | 248.5-250 | 11/4/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW33 | CAMW33-VAP-258.5-260' | 258.5-260 | 11/4/2014 | <0.17 | <4.6 | 0.59 BJkq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.012 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW36 | CAMW36-VAP-168'-171' | 168-171 | 11/4/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.06 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW36 | CAMW36-VAP-178'-181' | 178-181 | 11/5/2014 | <0.17 | <4.6 | 0.61 Jq | <0.38 | <0.51 | <0.50 | 2 | <0.64 | 0.32 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW36 | CAMW36-VAP-188'-191' | 188-191 | 11/5/2014 | <0.17 | <4.6 | 0.36 Jq | <0.38 | <0.51 | <0.50 | 0.43 Jq | <0.64 | 0.069 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW36 | CAMW36-VAP-198'-201' | 198-201 | 11/5/2014 | <0.17 | <4.6 | 0.24 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.26 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW36 | CAMW36-VAP-208'-211' | 208-211 | 11/6/2014 | 0.25 Jq | <4.6 | 8.8 | <0.38 | <0.51 | <0.50 | 0.43 Jq | 0.70 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | 0.38 Jq | <0.23 |
| CAMW38 | CAMW38-VAP-164'-167' | 164-167 | 11/13/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 UJ | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW38 | CAMW38-VAP-174'-177' | 174-177 | 11/14/2014 | <0.17 | <4.6 | 4.5 | <0.38 | <0.51 | <0.50 | 7.8 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | 0.68 Jq | -- | <0.30 | <0.23 |
| CAMW38 | CAMW38-VAP-184'-187' | 184-187 | 11/14/2014 | <0.17 | <4.6 | 17 | <0.38 | <0.51 | <0.50 | 6.2 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | 0.45 Jq | -- | <0.30 | <0.23 |
| CAMW38 | CAMW38-VAP-197.5-198.5' | 197.5-198.5 | 11/18/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.66 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW38 | CAMW38-VAP-207.5-209' | 207.5-209 | 11/19/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW38 | CAMW38-VAP-238.5-240 | 238.5-240 | 11/20/2014 | <0.17 | <4.6 | 0.41 BJkq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW38 | CAMW38-VAP-248.5-250 | 248.5-250 | 11/20/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Styrene | Tert-Butyl Alcohol (TBA) | Toluene | 1,1,2-Trichloroethane | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | Trichloroethene | 1,2,3-Trichloropropane | 1,2,3-Trichloropropane (Low Level) | Trichlorofluoromethane | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Xylenes (total) | Xylenes (m+p) | Xylenes (ortho) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAMW38 | CAMW38-VAP-258.5-260 | 258.5-260 | 11/20/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW43 | CAMW43-VAP-98.5-100' | 98.5-100 | 12/1/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.05 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW43 | CAMW43-VAP-118.5-120' | 118.5-120 | 12/1/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.69 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW43 | CAMW43-VAP-138.5-140' | 138.5-140 | 12/1/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.58 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW43 | CAMW43-VAP-158.5-160' | 158.5-160 | 12/1/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.25 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW43 | CAMW43-VAP-178.5-180' | 178.5-180 | 12/2/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.069 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW43 | CAMW43-VAP-198.5-200' | 198.5-200 | 12/2/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.03 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW43 | CAMW43-VAP-218.5-220' | 218.5-220 | 12/2/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.027 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW43 | CAMW43-VAP-238.5-240' | 238.5-240 | 12/3/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.019 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW43 | CAMW43-VAP-300.5-301.5 | 300.5-301.5 | 1/14/2015 | <0.17 | <4.6 | 3 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.67 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW46 | CAMW46-VAP-182'-185' | 182-185 | 12/17/2014 | <0.17 | <4.6 | 3.3 | <0.38 | <0.51 | <0.50 | 0.50 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW46 | CAMW46-VAP-192'-195' | 192-195 | 12/18/2014 | <0.17 | <4.6 | 1.4 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW46 | CAMW46-VAP-202'-205' | 202-205 | 12/18/2014 | <0.17 | <4.6 | 0.53 Jq | <0.38 | <0.51 | <0.50 | 0.37 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW46 | CAMW46-VAP-212'-215' | 212-215 | 12/19/2014 | <0.17 | <4.6 | 0.49 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.013 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW46 | CAMW46-VAP-221'-224' | 221-224 | 12/19/2014 | <0.17 | <4.6 | 0.39 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0050 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW46 | CAMW46-VAP-230'-233' | 230-233 | 1/5/2015 | <0.17 | <4.6 | 0.32 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.019 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW46 | CAMW46-VAP-243'-245' | 243-245 | 1/6/2015 | <0.17 | <4.6 | 18 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.02 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW46 | CAMW46-VAP-249'-252' | 249-252 | 1/6/2015 | <0.17 | <4.6 | 9.1 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.011 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW46 | CAMW46-VAP-259'-263' | 259-263 | 1/7/2015 | <0.17 | <4.6 | 22 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.015 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW49 | CAMW49-VAP-151.5-154' | 151.5-154 | 1/21/2015 | <0.17 | <4.6 | 1.2 Bk | <0.38 | <0.51 | <0.50 | 4.8 | <0.64 | 0.029 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW49 | CAMW49-VAP-161.5-164' | 161.5-164 | 1/21/2015 | <0.17 | <4.6 | 1.1 Bk | <0.38 | <0.51 | <0.50 | 0.59 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW49 | CAMW49-VAP-171-172' | 171-172 | 1/22/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.38 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW49 | CAMW49-VAP-180.5-181' | 180.5-181 | 1/22/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.53 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW49 | CAMW49-VAP-190-191' | 190-191 | 1/22/2015 | <0.17 | <4.6 | 0.27 BJkq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW49 | CAMW49-VAP-201.5-202' | 201.5-202 | 1/23/2015 | <0.17 | <4.6 | 0.65 BJkq | <0.38 | <0.51 | <0.50 | 1.5 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW49 | CAMW49-VAP-211-214' | 211-214 | 1/23/2015 | <0.17 | <4.6 | 0.26 BJkq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW49 | CAMW49-VAP-221'-224' | 221-224 | 1/26/2015 | <0.17 | <4.6 | 0.30 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW49 | CAMW49-VAP-232'-235' | 232-235 | 1/26/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 2.1 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW49 | CAMW49-VAP-242'-245' | 242-245 | 1/26/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 1.2 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW49 | CAMW49-VAP-252'-255' | 252-255 | 1/27/2015 | <0.17 | <4.6 | 0.36 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW52 | CAMW52-VAP-71-75' | 71-75 | 2/2/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 UJ | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW52 | CAMW52-VAP-81-82' | 81-82 | 2/3/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW52 | CAMW52-VAP-100.5-101.5' | 100.5-101.5 | 2/3/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.053 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW52 | CAMW52-VAP-111-113 | 111-113 | 2/3/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW52 | CAMW52-VAP-121.5-125.5 | 121.5-125.5 | 2/3/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.43 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW52 | CAMW52-VAP-141-143 | 141-143 | 2/4/2015 | <0.17 | <4.6 | 6.5 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.45 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW52 | CAMW52-VAP-151-153 | 151-153 | 2/4/2015 | <0.17 | <4.6 | 5.3 Jf | <0.38 | <0.51 | <0.50 | <0.37 | 0.78 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW52 | CAMW52-VAP-160.5-161.5 | 160.5-161.5 | 2/5/2015 | <0.17 | <4.6 | 26 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.29 | <1.7 | <0.78 | <0.41 | <0.39 | -- | 0.39 Jq | <0.23 |
| CAMW52 | CAMW52-VAP-171-172 | 171-172 | 2/5/2015 | <0.17 | 8.0 BJkq | 400 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.55 | <1.7 | <0.78 | <0.41 | <0.39 | -- | 1.5 | 0.82 Jq |
| CAMW52 | CAMW52-VAP-181-184 | 181-184 | 2/5/2015 | <0.17 | <4.6 | 0.79 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.021 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW52 | CAMW52-VAP-190.5-193 | 190.5-193 | 2/6/2015 | <0.17 | <4.6 | 2.2 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.032 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-102'-106' | 102-106 | 2/11/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 8 | <0.64 | 0.017 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-121.5'-123' | 121.5-123 | 2/12/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 6.8 | <0.64 | 0.024 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-132.5'-135' | 132.5-135 | 2/12/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 5.3 | <0.64 | 0.016 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-142'-145' | 142-145 | 2/12/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 7.1 | <0.64 | 0.016 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-152.5'-154.5' | 152.5-154.5 | 2/13/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 13 | <0.64 | 0.052 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Styrene | Tert-Butyl Alcohol (TBA) | Toluene | 1,1,2-Trichloroethane | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | Trichloroethene | 1,2,3-Trichloropropane | 1,2,3-Trichloropropane (Low Level) | Trichlorofluoromethane | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Xylenes (total) | Xylenes (m+p) | Xylenes (ortho) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAMW54 | CAMW54-VAP-162.5'-164.5' | 162.5-164.5 | 2/13/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 13 Jf | <0.64 | 0.022 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-172'-175' | 172-175 | 2/13/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 12 | <0.64 | 0.014 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-182.5-185.5 | 182.5-185.5 | 2/16/2015 | <0.17 | <4.6 | 0.28 Jq | <0.38 | <0.51 | <0.50 | 1.2 | <0.64 | 0.021 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-192.5-195.5 | 192.5-195.5 | 2/16/2015 | <0.17 | <4.6 | 0.35 Jq | <0.38 | <0.51 | <0.50 | 1.5 | <0.64 | 0.0076 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-202.5-205.5 | 202.5-205.5 | 2/16/2015 | <0.17 | <4.6 | 0.71 Jq | <0.38 | <0.51 | <0.50 | 3.2 | <0.64 | <0.012 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-212.5'-214' | 212.5-214 | 2/17/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.43 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-222.5'-223.5' | 222.5-223.5 | 2/17/2015 | <0.17 | <4.6 | 0.45 Jq | <0.38 | <0.51 | <0.50 | 1.6 | <0.64 | 0.0098 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-232.5'-233.5' | 232.5-233.5 | 2/18/2015 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-243.5'-246' | 243.5-246 | 2/18/2015 | <0.17 | 4.9 Jq | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| CAMW54 | CAMW54-VAP-252'-254' | 252-254 | 2/19/2015 | <0.17 | 23 Bk | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-01 | VAP-1-56-60 | 56-60 | 10/14/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | 19 | 16 | -- | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-01 | VAP-1-65-69 | 65-69 | 10/14/2013 | <0.22 | -- | <0.22 | 0.75 | -- | <0.34 | 110 | 50 | -- | 1.7 Jq | -- | <0.29 | 0.34 Jq | <0.41 | <0.36 | <0.41 |
| VAP-01 | VAP-1-70-74 | 70-74 | 10/15/2013 | <0.22 | -- | 0.24 Jq | 0.34 Jq | -- | <0.34 | 17 Jc | 34 | -- | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-01 | VAP-1-78-82 | 78-82 | 10/15/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | 2.4 | 11 | -- | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-01 | VAP-1-85-89 | 85-89 | 10/16/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | 4.5 | 7.6 | 9.3 | 0.46 Jq | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-01 | VAP-1-100-104 | 100-104 | 10/25/2013 | <0.22 | -- | <0.22 | 1.4 | -- | <0.34 | 200 | 32 | -- | 5.9 | -- | <0.29 | 0.49 Jq | <0.41 | <0.36 | <0.41 |
| VAP-01 | VAP-1-115-119 | 115-119 | 10/25/2013 | <0.22 | -- | <0.22 | 1.2 | -- | <0.34 | 280 | 15 | -- | 15 | -- | <0.29 | 0.65 | <0.41 | <0.36 | <0.41 |
| VAP-01 | VAP-1-122-126 | 122-126 | 10/25/2013 | <0.22 | -- | <0.22 | 0.79 | -- | <0.34 | 120 | 10 | -- | 6.6 | -- | <0.29 | 0.28 Jq | <0.41 | <0.36 | <0.41 |
| VAP-02 | VAP-2-56-60 | 56-60 | 10/25/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | <0.29 | <0.0008 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-02 | VAP-2-60-64 | 60-64 | 10/17/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | <0.29 | 0.21 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-02 | VAP-2-78-81 | 78-81 | 10/18/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | 1.2 | -- | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-02 | VAP-2-94-98 | 94-98 | 10/18/2013 | <0.22 | -- | 0.47 Jq | <0.31 | -- | <0.34 | <0.25 | 1.4 | 1.2 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-02 | VAP-2-108-112 | 108-112 | 10/18/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | 0.97 | 1.3 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-02 | VAP-02-120-124' | 120-124 | 10/31/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | <0.29 | 0.23 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-02 | VAP-02-152-156' | 152-156 | 10/31/2013 | <0.22 | -- | 0.27 Jq | <0.31 | -- | <0.34 | 0.26 Jq | 1.5 | -- | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-03 | VAP-03-61' | 61 | 12/2/2013 | <0.22 | -- | 3.2 | <0.31 | -- | <0.34 | <0.25 | <0.29 | <0.0008 | <0.16 | -- | <0.29 | <0.23 | 14 | 9.5 | 4.1 |
| VAP-03 | VAP-03-65-69' | 65-69 | 12/2/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | <0.29 | <0.0008 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-03 | VAP-03-73-77' | 73-77 | 12/2/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | <0.29 | <0.0008 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-03 | VAP-03-94-98' | 94-98 | 12/3/2013 | <0.22 | -- | 0.31 Jq | <0.31 | -- | <0.34 | <0.25 | 3.1 | -- | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-03 | VAP-03-111-115' | 111-115 | 12/3/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | 3.9 | -- | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-03 | VAP-03-130-134' | 130-134 | 12/3/2013 | <0.22 | -- | 0.26 Jq | <0.31 | -- | <0.34 | <0.25 | 0.30 Jq | 0.13 | <0.16 | -- | <0.29 | <0.23 | 1.2 | 0.66 | 0.49 Jq |
| VAP-03 | VAP-03-144-145' | 144-145 | 12/4/2013 | <0.22 | -- | 0.23 Jq | <0.31 | -- | <0.34 | <0.25 | <0.29 | 0.087 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-03 | VAP-03-149-153' | 149-153 | 12/4/2013 | <0.22 | -- | 0.37 Jq | <0.31 | -- | <0.34 | <0.25 | <0.29 | 0.21 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-04 | VAP-04-56-60' | 56-60 | 12/5/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | <0.29 | <0.0008 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-04 | VAP-04-67-71' | 67-71 | 12/5/2013 | <0.22 | -- | 0.30 Jq | <0.31 | -- | <0.34 | <0.25 | <0.29 | -- | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-04 | VAP-04-82-86' | 82-86 | 12/5/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | <0.29 | <0.0008 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-04 | VAP-04-110-114' | 110-114 | 12/6/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | <0.29 | <0.0008 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-04 | VAP-04-120-124' | 120-124 | 12/6/2013 | <0.22 | -- | <0.22 | <0.31 | -- | <0.34 | <0.25 | <0.29 | <0.0008 | <0.16 | -- | <0.29 | <0.23 | <0.41 | <0.36 | <0.41 |
| VAP-04 | VAP-04-150-154' | 150-154 | 12/6/2013 | <2.2 | -- | <2.2 | <3.1 | -- | <3.4 | <2.5 | <2.9 | <0.008 | <1.6 | -- | <2.9 | <2.3 | <4.1 | <3.6 | <4.1 |
| VAP-05 | VAP05-75-79' | 75-79 | 5/15/2014 | <0.17 | <4.6 | 0.67 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-05 | VAP05-95-99' | 95-99 | 5/16/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-05 | VAP05-103-107' | 103-107 | 5/16/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-05 | VAP05-115-119' | 115-119 | 5/16/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-05 | VAP05-125-129' | 125-129 | 5/19/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-05 | VAP05-147-150' | 147-150 | 5/19/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-06 | VAP06-83-87' | 83-87 | 5/12/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Styrene | Tert-Butyl Alcohol (TBA) | Toluene | 1,1,2-Trichloroethane | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | Trichloroethene | 1,2,3-Trichloropropane | 1,2,3-Trichloropropane (Low Level) | Trichlorofluoromethane | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Xylenes (total) | Xylenes (m+p) | Xylenes (ortho) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAP-06 | VAP06-93-97' | 93-97 | 5/12/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0050 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-06 | VAP06-120-124' | 120-124 | 5/13/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-06 | VAP06-126-130' | 126-130 | 5/13/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-06 | VAP06-138-142' | 138-142 | 5/13/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-06 | VAP06-151.5-152' | 151.5-152 | 5/13/2014 | <0.17 | <4.6 | 0.24 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-07 | VAP07-84-88' | 84-88 | 5/21/2014 | <0.17 | <4.6 | 0.34 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-07 | VAP07-98-102' | 98-102 | 5/21/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-07 | VAP07-111-115' | 111-115 | 5/22/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-07 | VAP07-125-129' | 125-129 | 5/22/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-07 | VAP07-131-135' | 131-135 | 5/22/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-07 | VAP07-156-160' | 156-160 | 5/22/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-07 | VAP07-170-174' | 170-174 | 5/22/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-08 | VAP08-64-68' | 64-68 | 5/14/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | 5.2 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-08 | VAP08-69-73' | 69-73 | 5/14/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.94 Jq | 12 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-08 | VAP08-77-81' | 77-81 | 5/14/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 1 | 34 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-08 | VAP08-88-92' | 88-92 | 5/14/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 1.6 | 9.9 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-08 | VAP08-98-102' | 98-102 | 5/14/2014 | <0.17 | <4.6 | 0.35 Jq | <0.38 | <0.51 | <0.50 | 1.9 | 2.8 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-08 | VAP08-107-111' | 107-111 | 5/15/2014 | <0.17 | <4.6 | 1.1 | <0.38 | <0.51 | <0.50 | 3 | 5.4 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-08 | VAP08-115-119' | 115-119 | 5/15/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 9.8 | 6.1 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-09 | VAP09-76-80' | 76-80 | 5/19/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.51 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-09 | VAP09-96-100' | 96-100 | 5/20/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 35 Jc | 1.1 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-09 | VAP09-116-120' | 116-120 | 5/20/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 8.5 | <0.64 | 0.39 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-09 | VAP09-138-142' | 138-142 | 5/20/2014 | <0.17 | <4.6 | 0.24 Jq | <0.38 | <0.51 | <0.50 | 9.5 | <0.64 | 0.45 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-09 | VAP09-145-149' | 145-149 | 5/20/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 1.9 | <0.64 | 0.27 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-09 | VAP09-152-156' | 152-156 | 5/20/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 12 | 11 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-09 | VAP09-159-163' | 159-163 | 5/21/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 13 | 5.8 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-10 | VAP10-72-76' | 72-76 | 5/28/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-10 | VAP10-81-85' | 81-85 | 5/28/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 2.6 | <0.64 | 0.13 | 2.1 Jq | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-10 | VAP10-96-100' | 96-100 | 5/28/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 3.7 | <0.64 | 0.54 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-10 | VAP10-104-108' | 104-108 | 5/28/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 2 | <0.64 | 0.56 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-10 | VAP10-118-122' | 118-122 | 5/29/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 23 | 7.6 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-10 | VAP10-141-145' | 141-145 | 5/29/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 15 | 11 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-10 | VAP10-152-156' | 152-156 | 5/29/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.74 Jq | 1.5 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-10 | VAP10-161-165' | 161-165 | 5/29/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 15 | 16 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-11 | VAP11-85-89' | 85-89 | 5/30/2014 | <0.86 | <23 | <1.2 | <1.9 | <2.5 | <2.5 | 760 | <3.2 | <0.0050 | <8.3 | <3.9 | <2.0 | <1.9 | -- | <1.5 | <1.1 |
| VAP-11 | VAP11-92-96' | 92-96 | 5/30/2014 | <0.34 | <9.1 | <0.47 | <0.77 | <1.0 | <1.0 | 190 | 6.7 Jq | | <3.3 | <1.6 | <0.82 | <0.77 | -- | <0.60 | <0.46 |
| VAP-11 | VAP11-100-104' | 100-104 | 5/30/2014 | <0.17 | 6.6 Jq | <0.24 | <0.38 | <0.51 | <0.50 | 37 | 4.6 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-11 | VAP11-136-140 | 136-140 | 5/30/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.79 Jq | <0.64 | 0.22 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-11 | VAP11-142-145' | 142-145 | 6/2/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-12 | VAP12-84-88' | 84-88 | 5/5/2014 | <0.17 | <4.6 | 0.47 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-12 | VAP12-91-95' | 91-95 | 5/6/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 140 | <0.64 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-12 | VAP12-107-111' | 107-111 | 5/6/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 55 | <0.64 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-12 | VAP12-114.5-115.5 | 114.5-115.5 | 5/7/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 110 | <0.64 | <0.0025 UJ | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-12 | VAP12-130-130.5 | 130-130.5 | 5/7/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 3.3 | <0.64 | <0.0025 UJ | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-12 | VAP12-148.5-151' | 148.5-151 | 5/8/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-12 | VAP12-157-159' | 157-159 | 5/8/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 2 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Styrene | Tert-Butyl Alcohol (TBA) | Toluene | 1,1,2-Trichloroethane | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | Trichloroethene | 1,2,3-Trichloropropane | 1,2,3-Trichloropropane (Low Level) | Trichlorofluoromethane | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Xylenes (total) | Xylenes (m+p) | Xylenes (ortho) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAP-12 | VAP12-166-168' | 166-168 | 5/8/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 2.2 | <0.64 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-13 | VAP13-85-89' | 85-89 | 5/23/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-13 | VAP13-93-97' | 93-97 | 5/23/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 16 | <0.64 | 0.01 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-13 | VAP13-106-110' | 106-110 | 5/23/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 86 | <0.64 | 0.012 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-13 | VAP13-113-117' | 113-117 | 5/27/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 40 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-13 | VAP13-130-134' | 130-134 | 5/27/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 30 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-13 | VAP13-148-152' | 148-152 | 5/27/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-13 | VAP13-165-169' | 165-169 | 5/28/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-14 | VAP14-85-89' | 85-89 | 5/28/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 9.5 | <0.64 | 0.046 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-14 | VAP14-114-118' | 114-118 | 5/28/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 12 | <0.64 | 0.03 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-14 | VAP14-147-151' | 147-151 | 5/28/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-14 | VAP14-164-168' | 164-168 | 5/28/2014 | <0.17 | <4.6 | 0.24 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-15 | VAP-15-59-63' | 59-63 | 5/29/2014 | <0.17 | 7.3 Jq | <0.24 | <0.38 | <0.51 | <0.50 | 11 | <0.64 | 0.38 Jc | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-15 | VAP-15-68-72 | 68-72 | 5/29/2014 | <0.17 | <4.6 | 0.85 Jq | <0.38 | <0.51 | <0.50 | 16 | 3.0 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-15 | VAP-15-75-79 | 75-79 | 5/30/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 19 | 4.2 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-15 | VAP-15-97-101' | 97-101 | 6/2/2014 | <0.17 | <4.6 | 0.26 Jq | 1.5 | <0.51 | <0.50 | 25 | 30 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-15 | VAP-15-134-138' | 134-138 | 6/2/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 23 | <0.64 | 1.3 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-15 | VAP-15-146-150' | 146-150 | 6/3/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 1.9 | <0.64 | 0.26 Jc | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-16 | VAP-16-56-60' | 56-60 | 6/3/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 170 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-16 | VAP-16-73-77' | 73-77 | 6/3/2014 | <0.17 | <4.6 | <0.24 | 4.2 | <0.51 | <0.50 | 710 | <0.64 | 0.032 | <1.7 | 0.86 Jq | <0.41 | 1.1 | -- | <0.30 | <0.23 |
| VAP-16 | VAP-16-80-84' | 80-84 | 6/4/2014 | <0.17 | <4.6 | <0.24 | 2.6 | 0.53 Jq | <0.50 | 210 | <0.64 | 0.086 | 25 | 1.2 Jq | <0.41 | 0.84 Jq | -- | <0.30 | <0.23 |
| VAP-16 | VAP16-97-101' | 97-101 | 6/4/2014 | <0.17 | <4.6 | <0.24 | 6.5 | 0.88 Jq | 0.81 Jq | 180 | <0.64 | 0.23 | 97 | <0.78 | <0.41 | 1 | -- | <0.30 | <0.23 |
| VAP-17 | VAP17-78-82' | 78-82 | 6/2/2014 | <0.17 | <4.6 | <0.24 | 0.54 Jq | <0.51 | <0.50 | 7.6 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-17 | VAP17-100-104' | 100-104 | 6/2/2014 | <0.17 | <4.6 | <0.24 | 0.44 Jq | <0.51 | <0.50 | 250 | <0.64 | 0.055 | 12 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-17 | VAP17-108-112' | 108-112 | 6/2/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 89 | <0.64 | 0.39 | 19 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-17 | VAP17-117-121' | 117-121 | 6/3/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 67 | <0.64 | 0.19 | 5.7 Jq | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-17 | VAP17-134-138' | 134-138 | 6/3/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 4.2 | <0.64 | 0.019 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-17 | VAP17-148-152' | 148-152 | 6/3/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.69 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-18 | VAP18-80-85' | 80-85 | 6/4/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 UJ | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-18 | VAP18-105-109' | 105-109 | 6/4/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 9.2 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-18 | VAP18-136-140' | 136-140 | 6/4/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 3.2 | <0.64 | <0.0025 UJ | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-18 | VAP18-150-154' | 150-154 | 6/5/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.70 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-18 | VAP18-163-167' | 163-167 | 6/5/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-19 | VAP-19-54-58 | 54-58 | 6/6/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-19 | VAP19-61-65' | 61-65 | 6/4/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 18 | 6 | | 2.6 Jq | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-19 | VAP19-67-71' | 67-71 | 6/5/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 20 | 6.4 | | 2.2 Jq | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-19 | VAP19-72-76' | 72-76 | 6/5/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 25 | 6.5 | | 3.0 Jq | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-19 | VAP19-122-126' | 122-126 | 6/5/2014 | <0.17 | <4.6 | <0.24 | 1.8 | <0.51 | <0.50 | 390 | 6.6 | | 24 | <0.78 | <0.41 | 1 | -- | <0.30 | <0.23 |
| VAP-20 | VAP20-50-55' | 50-55 | 6/9/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 17 | <0.64 | 0.073 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-20 | VAP20-62-66' | 62-66 | 6/9/2014 | <0.17 | <4.6 | <0.24 | 0.95 Jq | <0.51 | <0.50 | 170 Jc | 1.8 Jq | | 6.6 Jq | <0.78 | <0.41 | 0.53 Jq | -- | <0.30 | <0.23 |
| VAP-20 | VAP20-68-72' | 68-72 | 6/9/2014 | <0.17 | <4.6 | <0.24 | 1.1 | <0.51 | <0.50 | 240 | 3.1 Jq | | 11 | <0.78 | <0.41 | 0.67 Jq | -- | <0.30 | <0.23 |
| VAP-20 | VAP20-74-78' | 74-78 | 6/9/2014 | <0.17 | <4.6 | <0.24 | 1.4 | <0.51 | <0.50 | 300 | 3.5 Jq | | 11 | <0.78 | <0.41 | 0.69 Jq | -- | <0.30 | <0.23 |
| VAP-20 | VAP20-103-107' | 103-107 | 6/9/2014 | <0.17 | <4.6 | <0.24 | 2.3 | <0.51 | <0.50 | 360 | 1.7 Jq | | 9.0 Jq | <0.78 | <0.41 | 0.95 Jq | -- | <0.30 | <0.23 |
| VAP-20 | VAP20-112-116' | 112-116 | 6/9/2014 | <0.17 | <4.6 | <0.24 | 3 | <0.51 | <0.50 | 430 | 1.2 Jq | | 10 | <0.78 | <0.41 | 1.3 | -- | <0.30 | <0.23 |
| VAP-20 | VAP-20-124-128' | 124-128 | 6/10/2014 | <0.17 | <4.6 | <0.24 | 2 | <0.51 | <0.50 | 280 | 6.4 | | 12 | <0.78 | <0.41 | 1 | -- | <0.30 | <0.23 |
| VAP-20 | VAP-20-130-134' | 130-134 | 6/10/2014 | <0.17 | <4.6 | <0.24 | 2.1 | <0.51 | <0.50 | 270 | 3.4 Jq | | 9.6 Jq | <0.78 | <0.41 | 1 | -- | <0.30 | <0.23 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Styrene | Tert-Butyl Alcohol (TBA) | Toluene | 1,1,2-Trichloroethane | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | Trichloroethene | 1,2,3-Trichloropropane | 1,2,3-Trichloropropane (Low Level) | Trichlorofluoromethane | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Xylenes (total) | Xylenes (m+p) | Xylenes (ortho) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAP-21 | VAP-21-63-67' | 63-67 | 6/11/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-21 | VAP-21-78-82' | 78-82 | 6/11/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 8.8 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-21 | VAP-21-96-100' | 96-100 | 6/11/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 18 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-21 | VAP-21-105-109' | 105-109 | 6/11/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 28 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-21 | VAP-21-110-114' | 110-114 | 6/11/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 24 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-21 | VAP-21-133-137' | 133-137 | 6/11/2014 | <0.17 | <4.6 | <0.24 | 1.5 | <0.51 | <0.50 | 140 | <0.64 | 0.47 | 5.1 Jq | <0.78 | <0.41 | 0.52 Jq | -- | <0.30 | <0.23 |
| VAP-22 | VAP-22-105-109' | 105-109 | 6/9/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-22 | VAP-22-121-125' | 121-125 | 6/9/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 3.3 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-24 | VAP24-111-115' | 111-115 | 7/7/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.75 Jq | <0.64 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-24 | VAP24-118-121' | 118-121 | 7/7/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.79 Jq | <0.64 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-25 | VAP25-78-82' | 78-82 | 6/6/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-25 | VAP25-98-102' | 98-102 | 6/6/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 21 | <0.64 | 0.13 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-25 | VAP25-109-113' | 109-113 | 6/6/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 21 | <0.64 | 0.076 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-25 | VAP25-133-137' | 133-137 | 6/6/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 14 | <0.64 | 0.013 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-25 | VAP25-139-143' | 139-143 | 6/6/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 17 | <0.64 | 0.022 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-26 | VAP26-66-70' | 66-70 | 7/9/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-26 | VAP26-72-76' | 72-76 | 7/9/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-26 | VAP26-85-89' | 85-89 | 7/9/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-26 | VAP26-91-95' | 91-95 | 7/10/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-26 | VAP26-109-113' | 109-113 | 7/10/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | 0.03 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-26 | VAP26-120-124 | 120-124 | 7/10/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | 1.6 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-27 | VAP27-85-89 | 85-89 | 8/4/2014 | <0.17 | 8.1 Jq | <0.24 | <0.38 | <0.51 | <0.50 | 1.2 | 27 | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-27 | VAP27-92-96 | 92-96 | 8/4/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 1.2 | <0.64 | 0.55 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-27 | VAP27-120-124' | 120-124 | 8/6/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.75 Jq | <0.64 | 0.15 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-27 | VAP27-140-144' | 140-144 | 8/6/2014 | <0.17 | <4.6 | 0.36 Jq | <0.38 | <0.51 | <0.50 | <0.37 | 4.2 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-28 | VAP28-73-77' | 73-77 | 8/7/2014 | <0.17 | <4.6 | 0.35 Jq | <0.38 | <0.51 | <0.50 | 1.8 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-28 | VAP28-91-95' | 91-95 | 8/7/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 39 | 2.4 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-28 | VAP28-108-112' | 108-112 | 8/7/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 41 | 3.5 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-28 | VAP28-116-120' | 116-120 | 8/7/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 31 | 2.6 Jq | | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-28 | VAP28-144-148' | 144-148 | 8/8/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 21 | <0.64 | 0.061 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-28 | VAP28-151-155' | 151-155 | 8/8/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-29 | VAP29-81-85' | 81-85 | 8/8/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-29 | VAP29-86-90' | 86-90 | 8/8/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 UJ | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Styrene | Tert-Butyl Alcohol (TBA) | Toluene | 1,1,2-Trichloroethane | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | Trichloroethene | 1,2,3-Trichloropropane | 1,2,3-Trichloropropane (Low Level) | Trichlorofluoromethane | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Xylenes (total) | Xylenes (m+p) | Xylenes (ortho) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAP-29 | VAP29-98-102' | 98-102 | 8/11/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 94 | <0.64 | 0.058 | <1.7 | <0.78 | <0.41 | 1.1 | -- | <0.30 | <0.23 |
| VAP-29 | VAP29-106-110' | 106-110 | 8/11/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 75 | <0.64 | 0.061 | <1.7 | <0.78 | <0.41 | 0.98 Jq | -- | <0.30 | <0.23 |
| VAP-29 | VAP29-114-118' | 114-118 | 8/11/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 82 | <0.64 | 0.056 | <1.7 | <0.78 | <0.41 | 1.8 | -- | <0.30 | <0.23 |
| VAP-29 | VAP29-138-142' | 138-142 | 8/11/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 120 | <0.64 | 0.075 | <1.7 | <0.78 | <0.41 | 1.1 | -- | <0.30 | <0.23 |
| VAP-29 | VAP29-145-149' | 145-149 | 8/11/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 170 | <0.64 | 0.098 | <1.7 | <0.78 | <0.41 | 1.3 | -- | <0.30 | <0.23 |
| VAP-29 | VAP29-152-156' | 152-156 | 8/12/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 150 | <0.64 | 0.099 | <1.7 | <0.78 | <0.41 | 1.2 | -- | <0.30 | <0.23 |
| VAP-29 | VAP29-160-164' | 160-164 | 8/12/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 110 | <0.64 | 0.083 | <1.7 | <0.78 | <0.41 | 1.2 | -- | <0.30 | <0.23 |
| VAP-30 | VAP30-83-87' | 83-87 | 8/13/2014 | <0.17 | <4.6 | 0.62 BJkq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-30 | VAP30-110-114' | 110-114 | 8/13/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-30 | VAP30-126-130' | 126-130 | 8/13/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-30 | VAP30-136-140' | 136-140 | 8/13/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-30 | VAP30-148-152' | 148-152 | 8/13/2014 | <0.17 | 8.7 Jq | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-30 | VAP30-156-160' | 156-160 | 8/13/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-31 | VAP31-90-94' | 90-94 | 8/14/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 74 | <0.64 | 0.016 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-31 | VAP31-100-104' | 100-104 | 8/14/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 21 | <0.64 | 0.0063 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-31 | VAP31-120-124' | 120-124 | 8/15/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 5.5 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | 1.2 | -- | <0.30 | <0.23 |
| VAP-31 | VAP31-130-134' | 130-134 | 8/15/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-31 | VAP31-140-144' | 140-144 | 8/15/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-31 | VAP31-150-154' | 150-154 | 8/15/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-32 | VAP32-90-94' | 90-94 | 8/18/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.68 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-32 | VAP32-110-114' | 110-114 | 8/19/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-32 | VAP32-120-124' | 120-124 | 8/19/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-32 | VAP32-130-134' | 130-134 | 8/19/2014 | <0.17 | <4.6 | 0.33 BJkq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-32 | VAP32-137-141' | 137-141 | 8/20/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-33 | VAP33-80-84' | 80-84 | 8/19/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 51 | <0.64 | 0.0038 Jq | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-33 | VAP33-90-94' | 90-94 | 8/19/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 49 | <0.64 | 0.079 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-33 | VAP33-100-104' | 100-104 | 8/20/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 5.9 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-33 | VAP33-110-114' | 110-114 | 8/20/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-33 | VAP33-120-124' | 120-124 | 8/21/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-33 | VAP33-130-134' | 130-134 | 8/21/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-33 | VAP33-140-144' | 140-144 | 8/21/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-33 | VAP33-150-154' | 150-154 | 8/21/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-34 | VAP34-89-93' | 89-93 | 9/22/2014 | <0.17 | <4.6 | 0.41 Jq | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-34 | VAP34-125-129' | 125-129 | 9/22/2014 | <0.17 | 6.3 BJkq | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-34 | VAP34-143-147' | 143-147 | 9/22/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-35 | VAP35-101-105 | 101-105 | 9/23/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 4.7 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | 2.5 | -- | <0.30 | <0.23 |
| VAP-35 | VAP35-120-124 | 120-124 | 9/23/2014 | <0.17 | <4.6 | 0.62 Jq | <0.38 | <0.51 | <0.50 | 6.4 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | 1.6 | -- | <0.30 | <0.23 |
| VAP-35 | VAP35-125-129 | 125-129 | 9/23/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 11 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | 4 | -- | <0.30 | <0.23 |
| VAP-35 | VAP35-138-142 | 138-142 | 9/23/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 18 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | 4.7 | -- | <0.30 | <0.23 |
| VAP-35 | VAP35-165-169 | 165-169 | 9/23/2014 | <0.17 | 4.7 BJkq | <0.24 | <0.38 | <0.51 | <0.50 | 2.3 | <0.64 | <0.025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-36 | VAP36-96-100 | 96-100 | 9/24/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 5.1 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | 0.49 Jq | -- | <0.30 | <0.23 |
| VAP-36 | VAP36-101-105 | 101-105 | 9/24/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 4.4 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | 0.41 Jq | -- | <0.30 | <0.23 |
| VAP-36 | VAP36-125-129 | 125-129 | 9/24/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.51 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-36 | VAP36-151-155 | 151-155 | 9/24/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-37 | VAP37-78-82 | 78-82 | 9/25/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-37 | VAP37-106-110 | 106-110 | 9/25/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |

**Table 4.**
**Summary of Groundwater Analytical Results: Method SW8260B, Method SW8260 SIM and Method E524.2**
**Remedial Investigation**
**Chino Airport, Chino, California**

| Boring ID | Sample Name | Depth Range (ft bgs) | Sample Date | Styrene | Tert-Butyl Alcohol (TBA) | Toluene | 1,1,2-Trichloroethane | 1,2,3-Trichlorobenzene | 1,2,4-Trichlorobenzene | Trichloroethene | 1,2,3-Trichloropropane | 1,2,3-Trichloropropane (Low Level) | Trichlorofluoromethane | 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1,1,2,2-Tetrachloroethane | Tetrachloroethene | Xylenes (total) | Xylenes (m+p) | Xylenes (ortho) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VAP-37 | VAP37-111-115 | 111-115 | 9/25/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-37 | VAP37-135-139 | 135-139 | 9/25/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-37 | VAP37-140-142 | 140-142 | 9/25/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-38 | VAP38-100-104 | 100-104 | 9/26/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.25 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-38 | VAP38-138-142 | 138-142 | 9/26/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.25 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-38 | VAP38-157-161 | 157-161 | 9/26/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 2.2 | <0.64 | <0.12 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-38 | VAP38-171-175 | 171-175 | 9/26/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.62 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-39 | VAP39-100-104 | 100-104 | 9/26/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 7.5 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-39 | VAP39-107-111 | 107-111 | 9/26/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 2.9 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-39 | VAP39-117-121 | 117-121 | 9/26/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.012 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-39 | VAP39-138-142 | 138-142 | 9/26/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.012 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-39 | VAP39-148-152 | 148-152 | 9/26/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | <0.37 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-39 | VAP39-161-165 | 161-165 | 9/26/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 0.69 Jq | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-40 | VAP40-88-92 | 88-92 | 9/29/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 17 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-40 | VAP40-100-104 | 100-104 | 9/29/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 18 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-40 | VAP40-134-138 | 134-138 | 9/29/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 29 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-40 | VAP40-147-151 | 147-151 | 9/29/2014 | <0.17 | <4.6 | <0.24 | <0.38 | <0.51 | <0.50 | 15 | <0.64 | <0.0025 | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| VAP-40 | VAP40-168-172 | 168-172 | 9/29/2014 | <0.17 | <4.6 | 0.26 Jq | <0.38 | <0.51 | <0.50 | 5 | <0.64 | 0.0042 Jq | <1.7 | <0.78 | <0.41 | <0.39 | -- | <0.30 | <0.23 |
| Minimum Concentration | | | | 0.25 | 4.7 | 0.23 | 0.34 | 0.53 | 0.81 | 0.260 | 0.300 | 0.003 | 0.46 | 0.86 | 0.99 | 0 | 1 | 0 | 0 |
| Maximum Concentration | | | | 0.25 | 23 | 400 | 6.5 | 0.88 | 0.81 | 760 | 51 | 1.3 | 9.6 | 1.2 | 0.99 | 4.7 | 14 | 10 | 4.1 |
| No. Analyses | | | | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 327 | 278 | 327 | 327 | 327 | 327 | 33 | 327 | 327 |
| No. Samples above MDL | | | | 1 | 10 | 71 | 20 | 2 | 1 | 163 | 55 | 95 | 11 | 2 | 1 | 34 | 2 | 9 | 4 |
| Investigation Goal | | | | 100 | 12 | 150 | 5 | * | 5 | 5 | 0.005 | 0.005 | 150 | 1200 | 1 | 5 | 1750 | 1750 | 1750 |
| No. Samples above Investigation Goal | | | | 0 | 1 | 1 | 1 | | 0 | 103 | 55 | 91 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Frequency of Detection Above Investigation Goal | | | | 0.00% | 0.31% | 0.31% | 0.31% | 0.00% | 0.00% | 31.50% | 16.82% | 32.73% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |

Acronyms and Abbreviations:
IG - investigation goal
J - The analyte was positively identified and the result is usable; however, the analyte concentration is an estimated value.
f - The duplicate/replicate sample's relative percent difference was outside the control limit.
q - The analyte detection was below the practical quantitation limit (PQL)
B - The sample result is less than 5 times (10 times for common organic laboratory contaminants) the blank contamination. The result is considered not to have originated from the environmental sample, because cross-contamination is suspected.
k - The analyte was found in a field blank.
Notes:
* - IG not established for parameter.
All concentrations are in micrograms per liter (µg/L).
Gray shading indicates compound was not detected in sample.
Yellow highlighting indicates concentration is above the IG.

# FIGURES

P:\GIS\23333_1604_02\Site Location Map.mxd

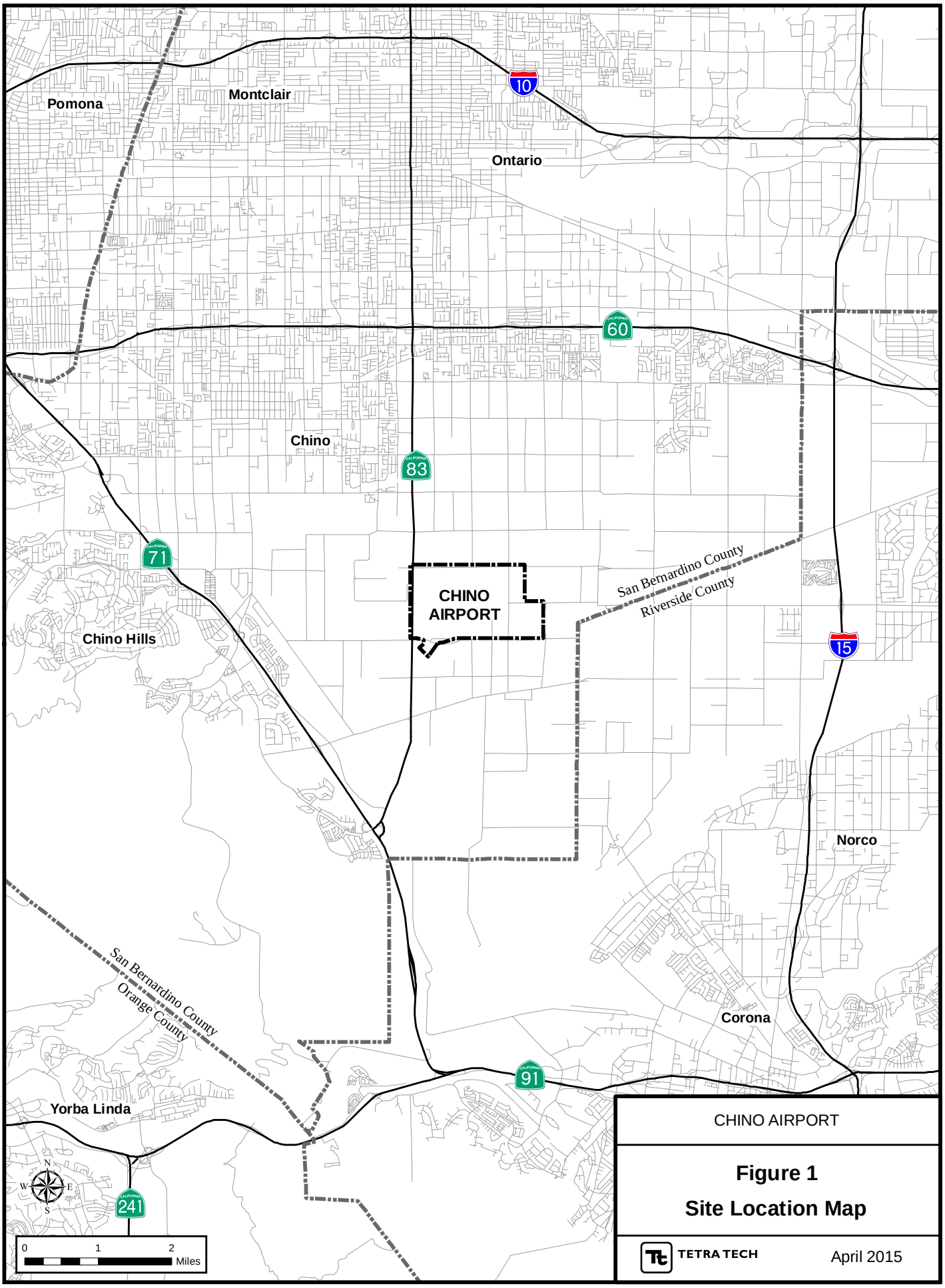


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**Figure 1**

**Site Location Map**

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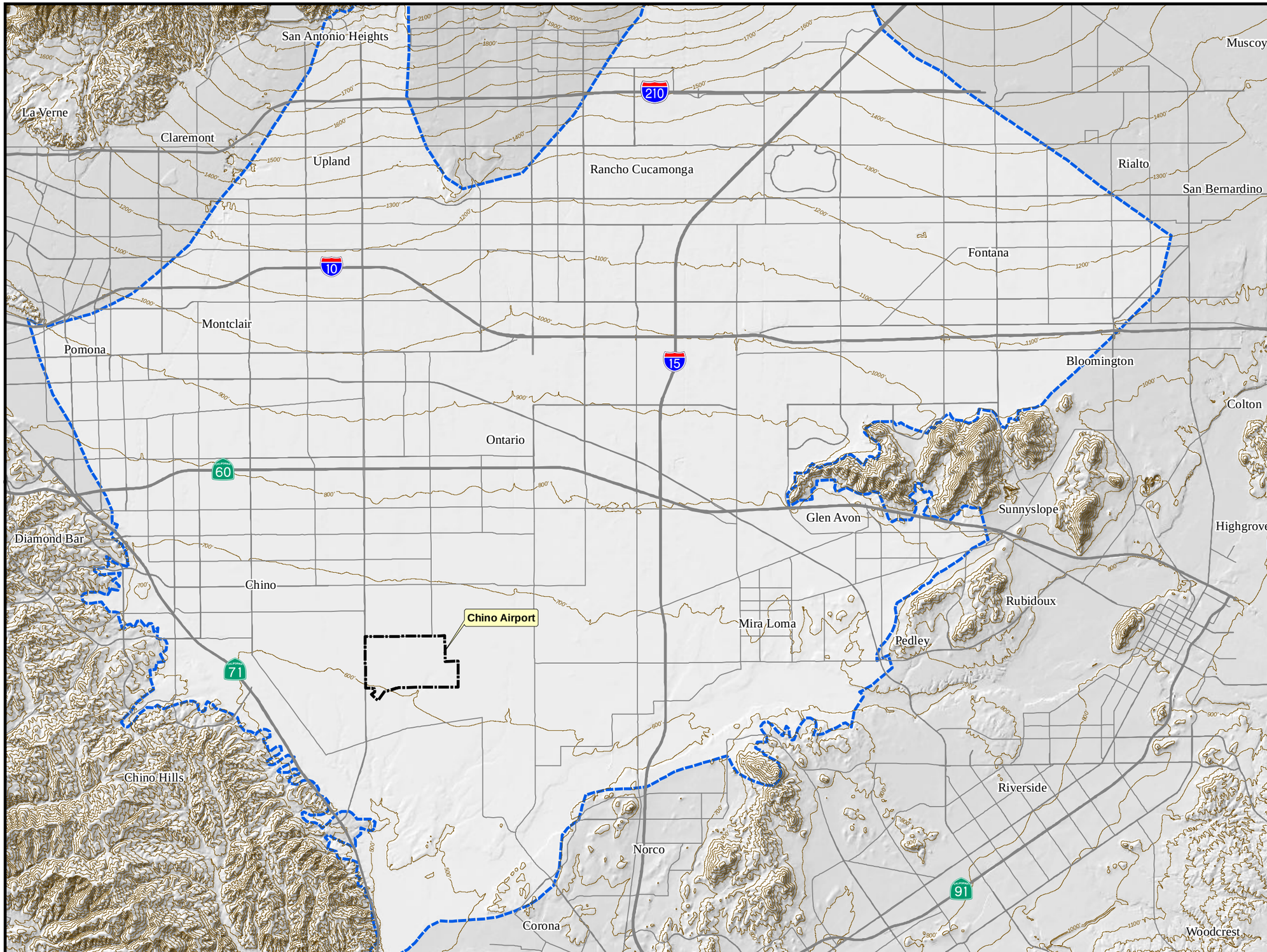
P:\GIS\23333_1604_02\Topo.mxd




0 1 2 Miles

**LEGEND**

- Chino Airport Property Boundary
- Road (interstate/primary)
- Road (secondary)
- Topographic Contour (100-ft interval)
- Chino Basin

CHINO AIRPORT

**Figure 3**
**Topographic Map of the Chino Basin**

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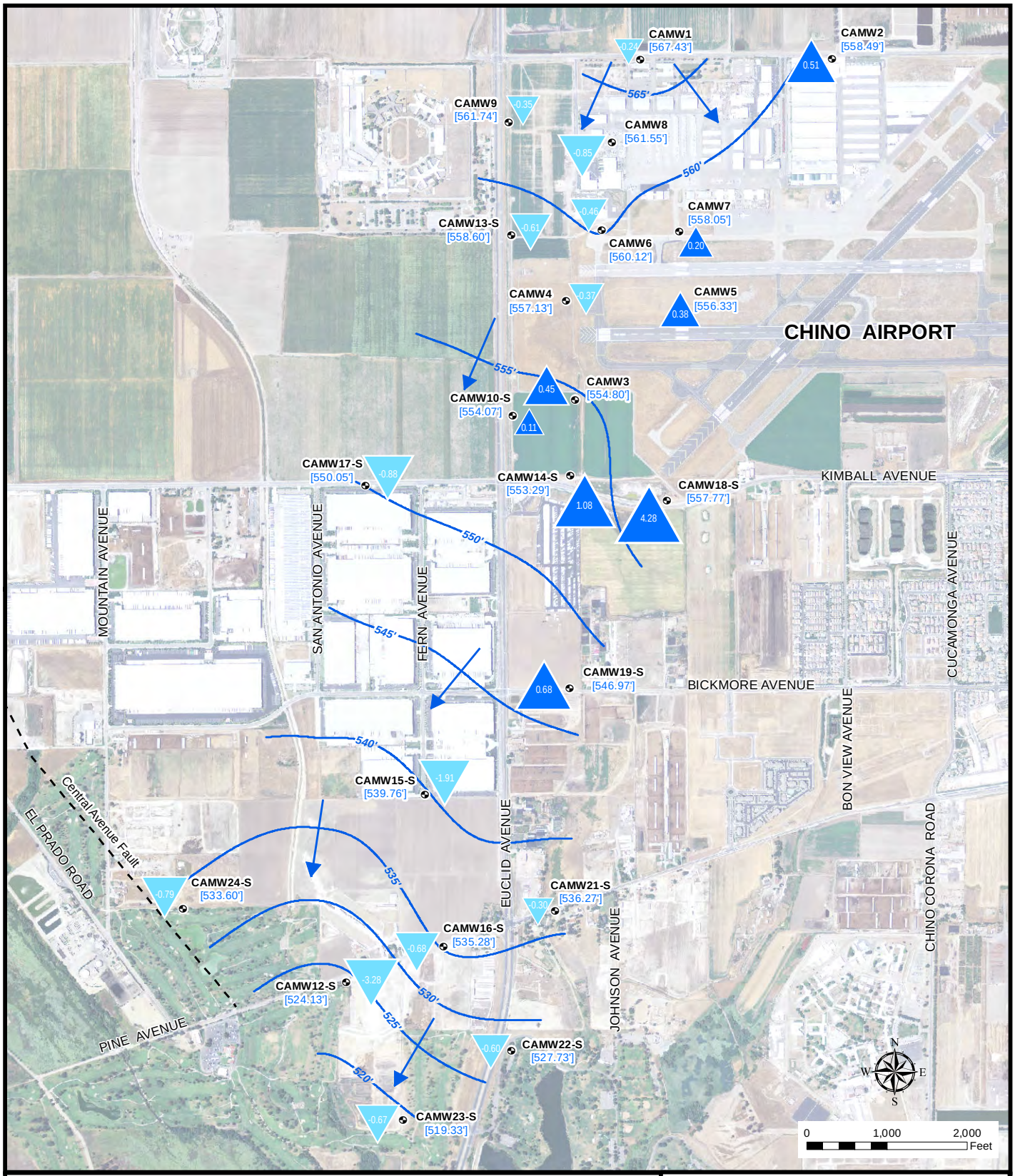
P:\GIS\23333_1604_02\GW_Level_Oct_2014.mxd




**LEGEND**

- Monitoring Well Location with Groundwater Elevation
- Decreasing Groundwater Elevation Change in Feet (from previous quarter)
- Increasing Groundwater Elevation Change in Feet (from previous quarter)
- 530' Groundwater Elevation Contour (October 2014)
- Fault Location
- Groundwater Flow Direction

Notes:
Groundwater elevations shown in feet msl.
msl - mean sea level

Fault from *Digital Database of Quaternary and Younger Faults from the Fault Activity Map of California, Version 2. Bryant, W.A., Treiman, T.A. July 2005.*

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**Figure 4**

**Groundwater Contour Map-October 2014**

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March 2015

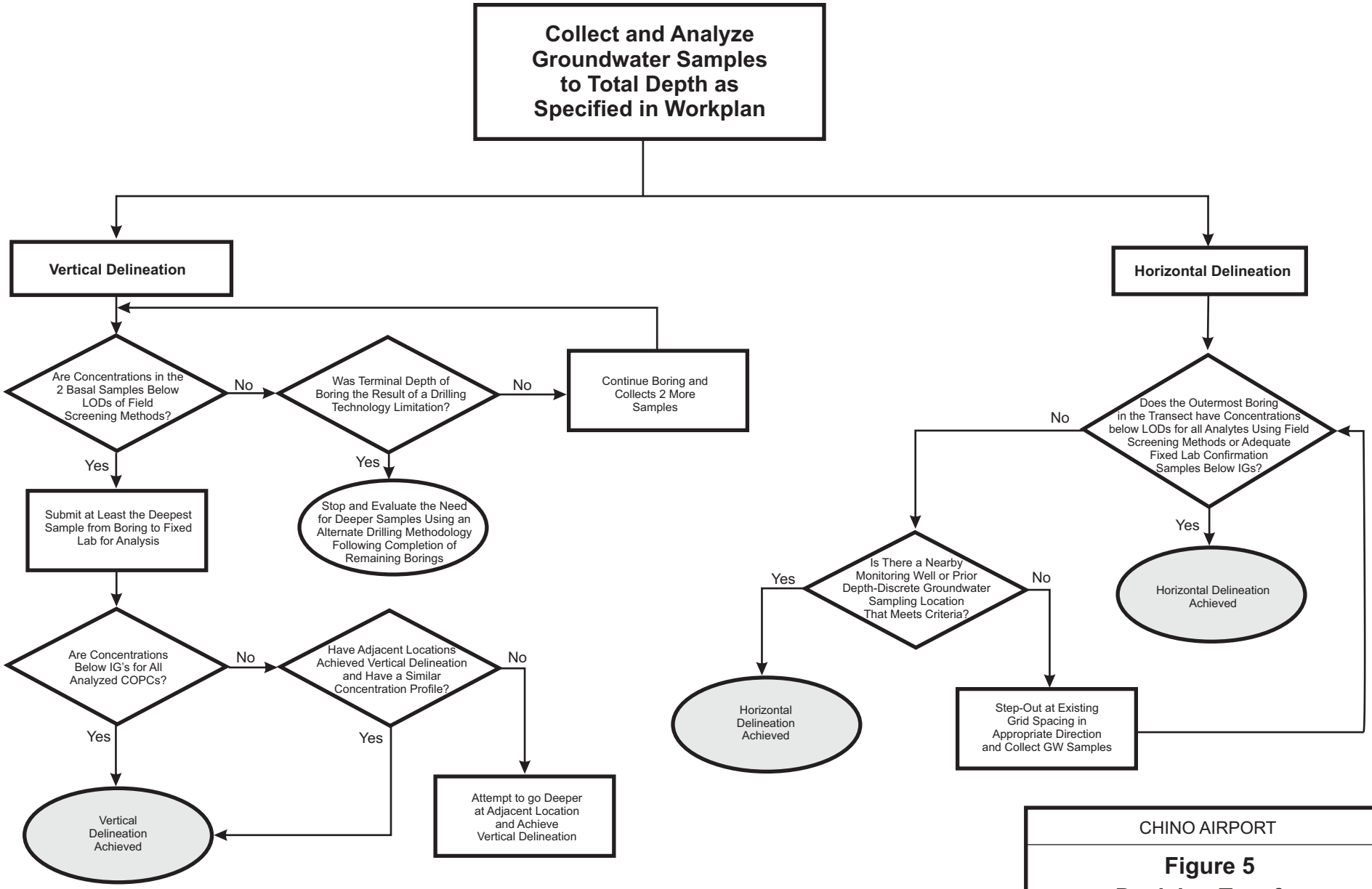


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**Figure 5**
**Decision Tree for Characterization of Groundwater**

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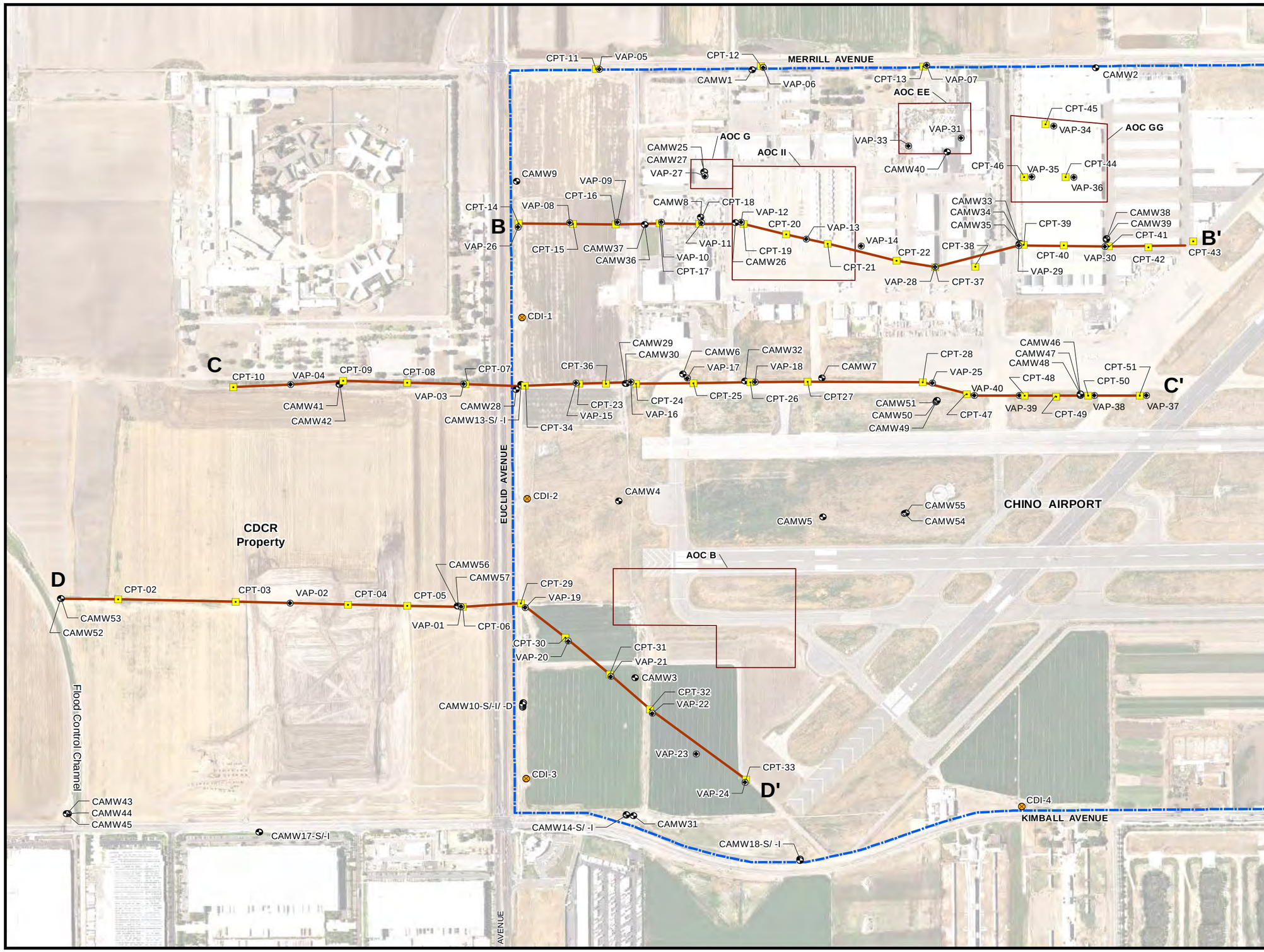
P:\GIS\Chino T23333-1503\CorelFLOW_DIA_GW.cdr

P:\GIS\23333_1604_02\X-Sect_Soil_Inv.mxd




0 500 1,000 Feet

Existing Monitoring Well

VAP - Vertical Aquifer Profiling Boring

CPT Boring

Desalter Well Location

Fence Diagram Line

Chino Airport Boundary

CHINO AIRPORT

**Figure 6**

**Investigation Site Plan**

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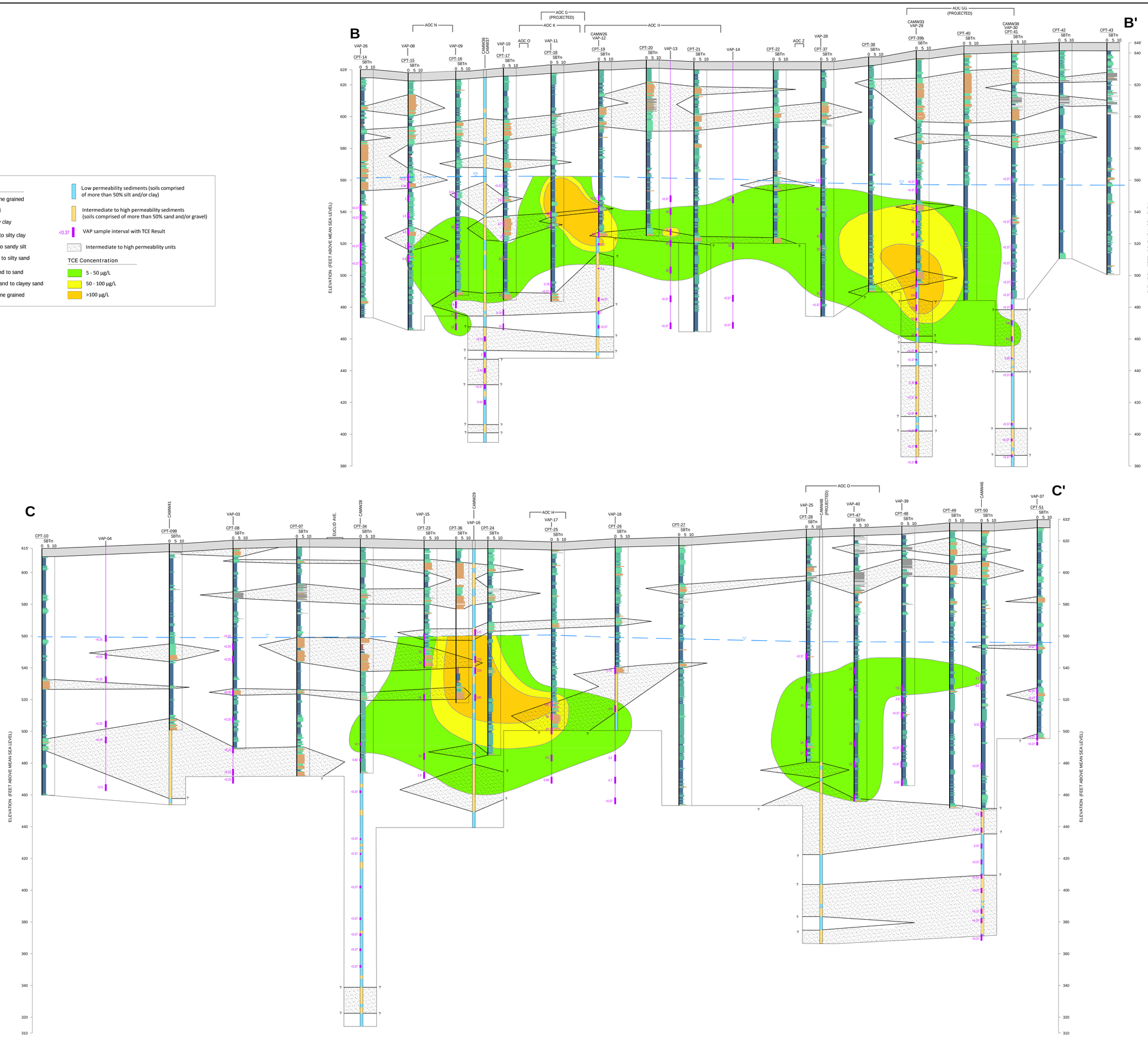


NOTES

0 200
Scale in Feet
Vertical Exaggeration = 10x Horizontal
20

**TETRA TECH**
301 E. VANDERBILT WAY, SUITE 450
SAN BERNARDINO, CALIFORNIA 92408
(909) 381-1674

PROJECT NO. 23333-1604.02

| | | |
|---|---|---|
| DRAWN BY: | | |
| CHECKED BY: | | |
| APPROVED BY: | | |

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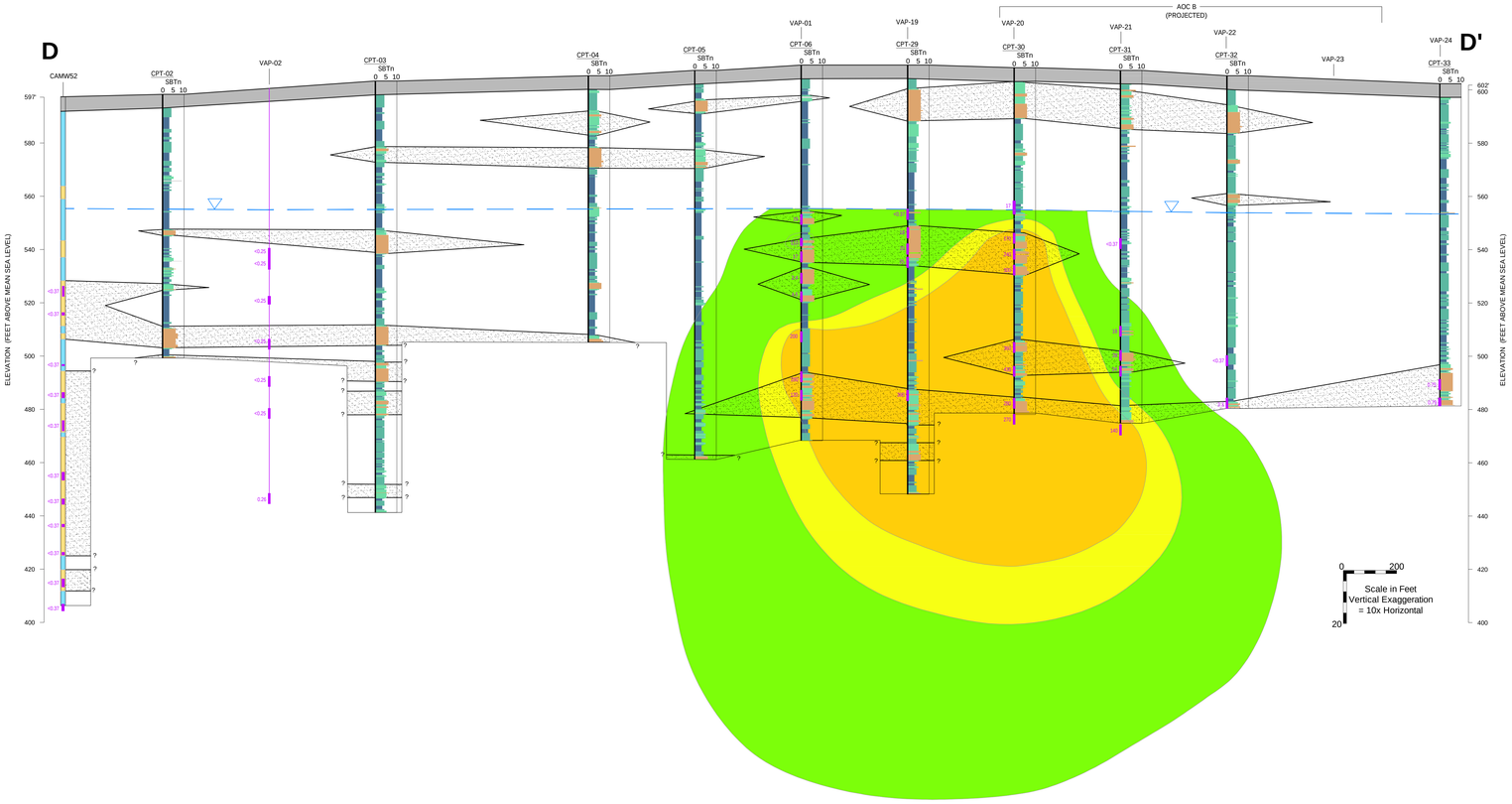
**Figure 7**
**Hydrostratigrapic Fence Diagrams**
**B-B' and C-C'**

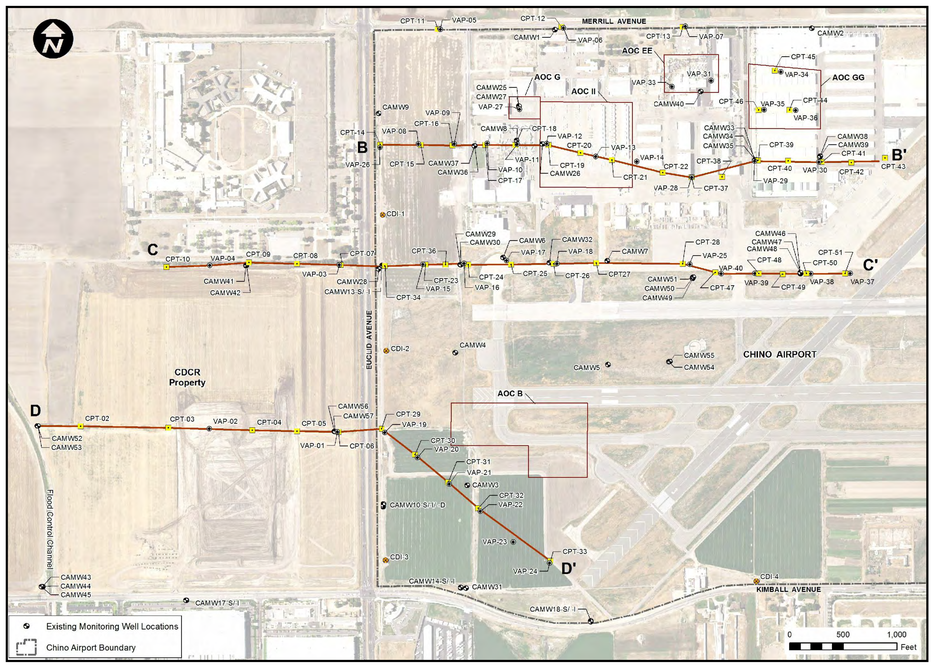



SBTn Legend

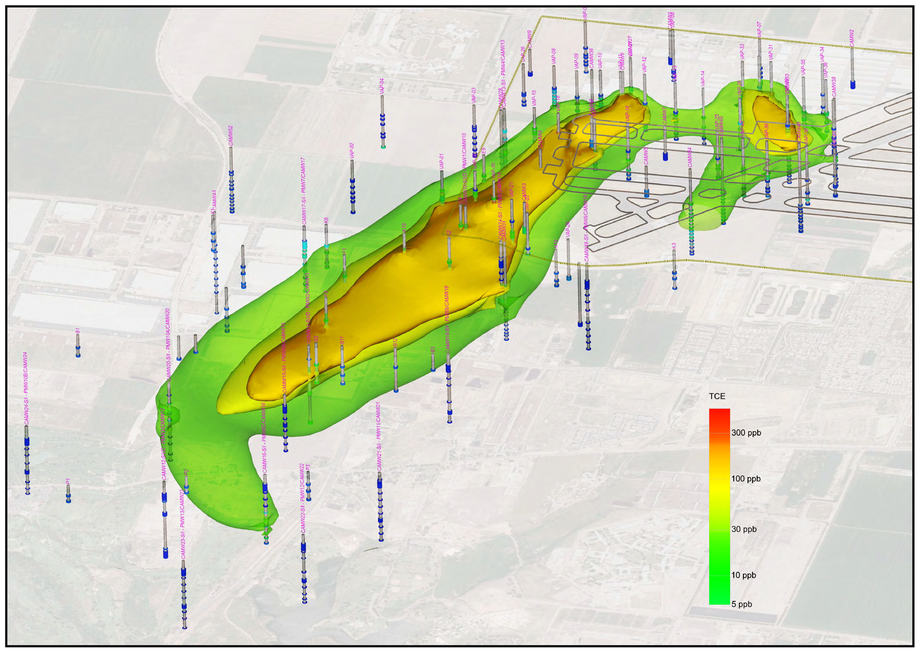
- Sensitive fine grained
- Organic soil
- Clay to silty clay
- Clayey silt to silty clay
- Silty sand to sandy silt
- Clean sand to silty sand
- Gravely sand to sand
- Very stiff sand to clayey sand
- Very stiff fine grained
- Low permeability sediments (soils comprised of more than 50% silt and/or clay)
- Intermediate to high permeability sediments (soils comprised of more than 50% sand and/or gravel)
- <0.37 VAP sample interval with TCE Result
- Intermediate to high permeability units

TCE Concentration

- 5 - 50 µg/L
- 50 - 100 µg/L
- >100 µg/L




Cross Section Locations




Northwest Oblique View of TCE Plume at
5 µg/L, 50 µg/L and 100 µg/L Isoconcentrations

NOTES

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PROJECT NO. 23333-1604.02

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CHECKED BY:
APPROVED BY:

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**Figure 8**
**Hydrogeologic Fence Diagram**
**D-D'**

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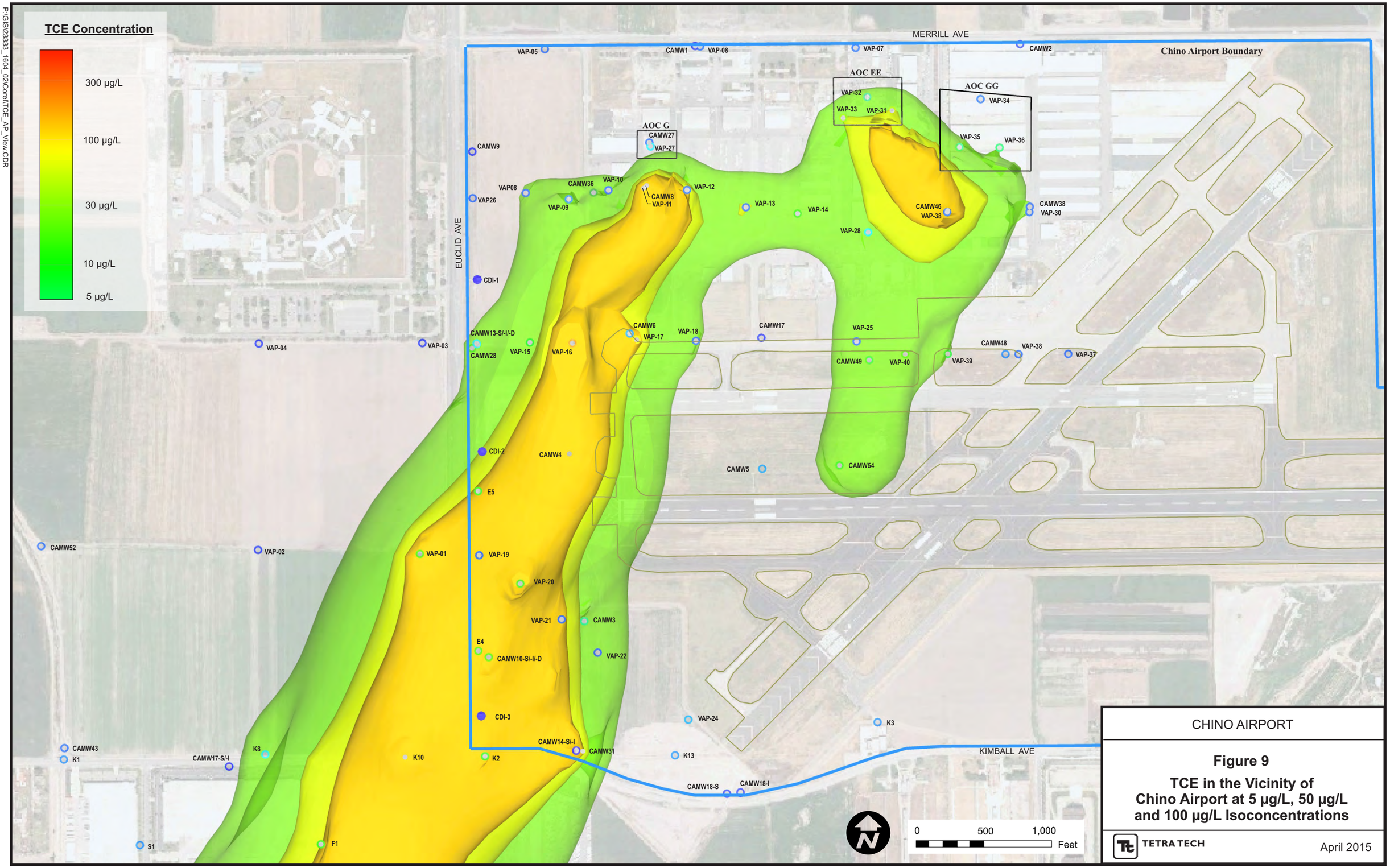


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**Figure 9**

**TCE in the Vicinity of Chino Airport at 5 µg/L, 50 µg/L and 100 µg/L Isoconcentrations**

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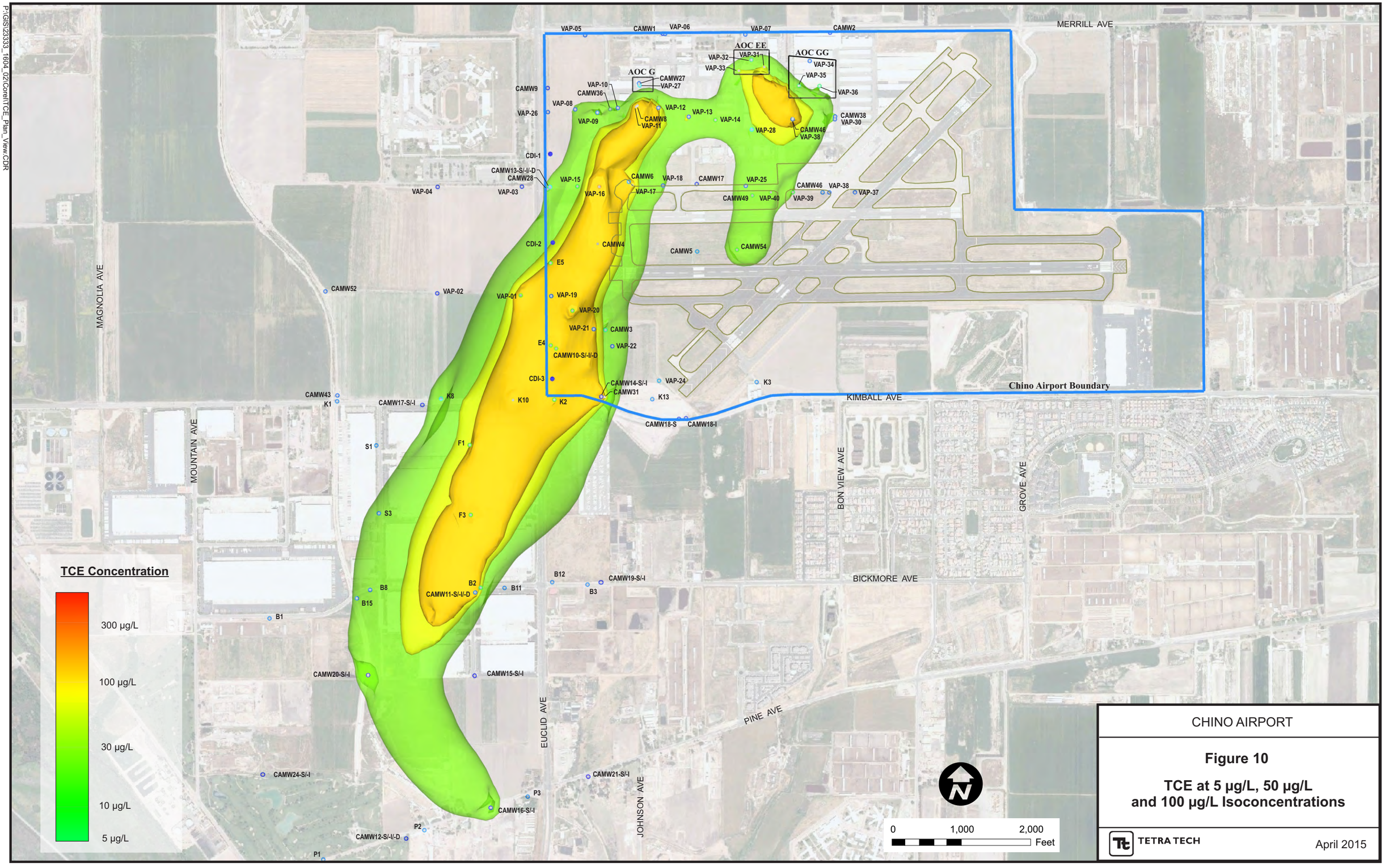
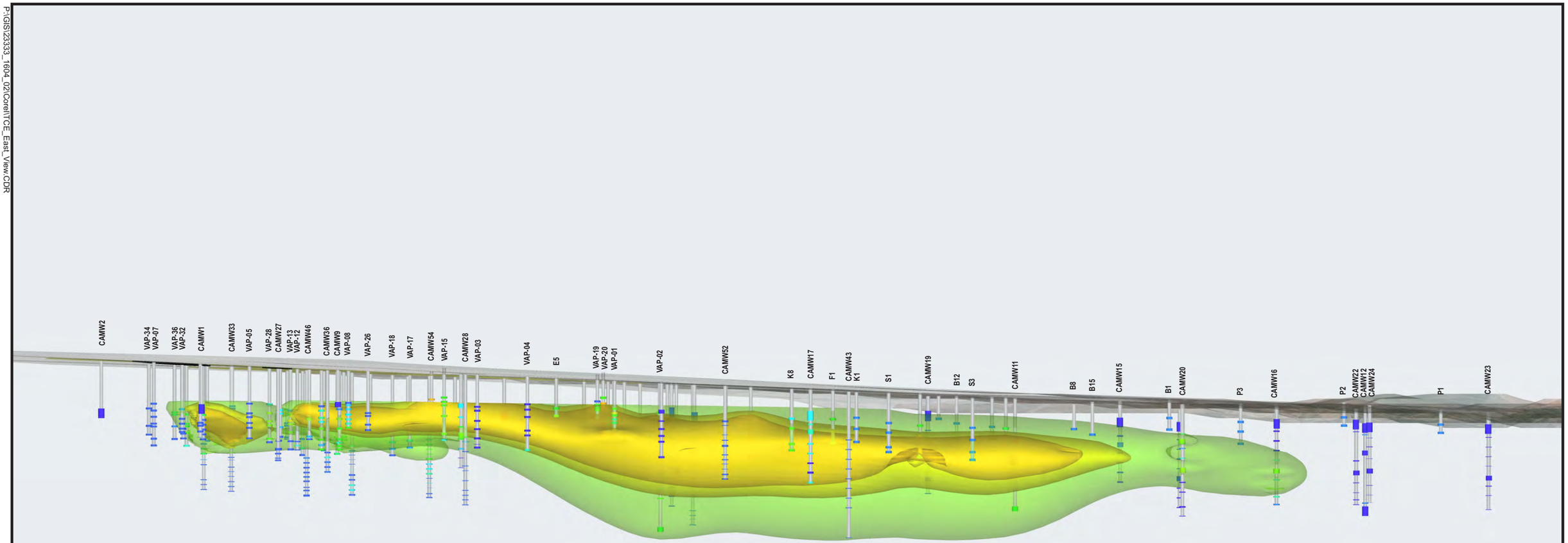
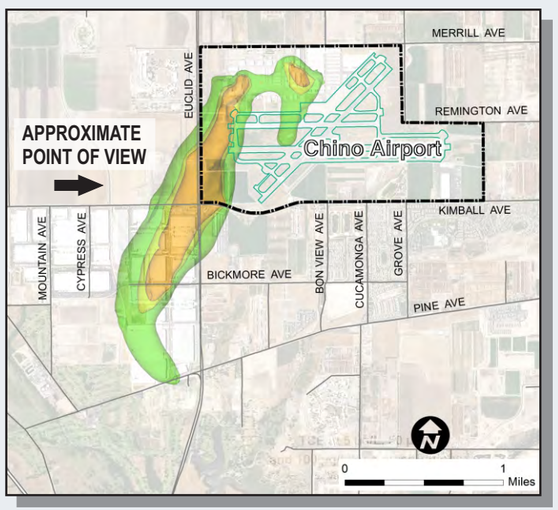





**TCE Concentration**

- 300 µg/L
- 100 µg/L
- 30 µg/L
- 10 µg/L
- 5 µg/L




**5X Vertical Exaggeration**

CHINO AIRPORT

**Figure 11**

**Side View Looking East of TCE at 5 µg/L, 50 µg/L and 100 µg/L Isoconcentrations**

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April 2015

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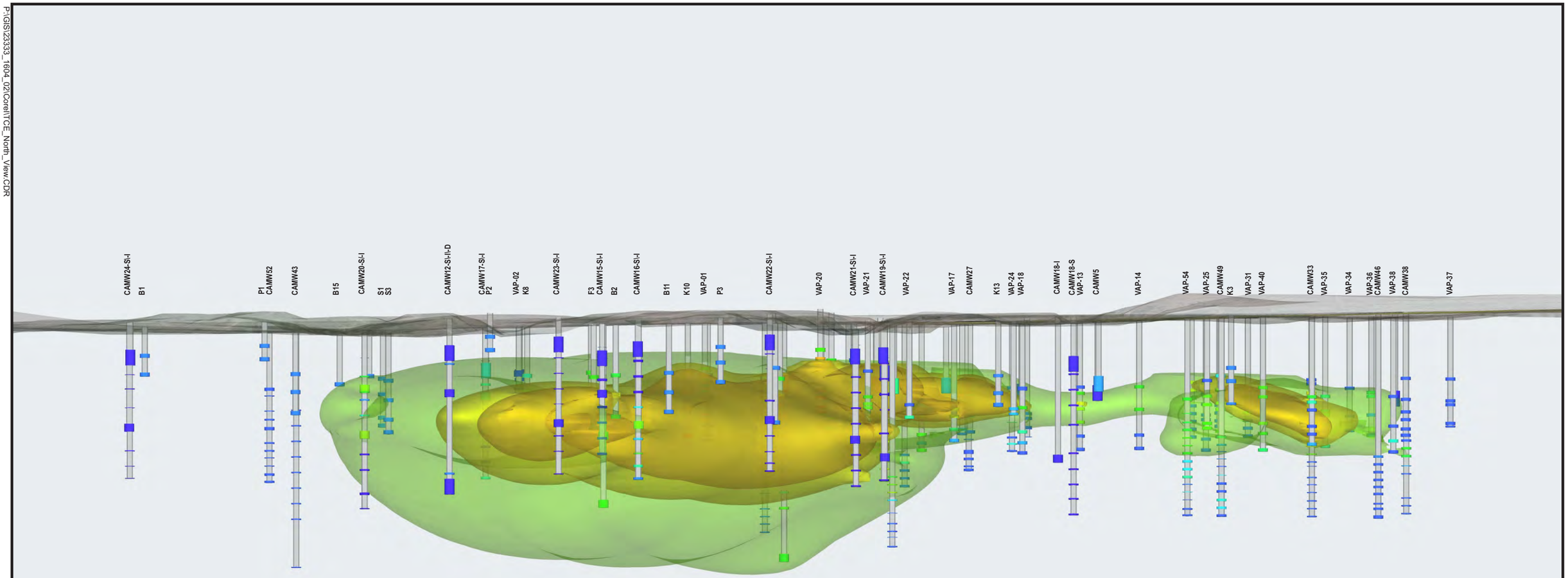
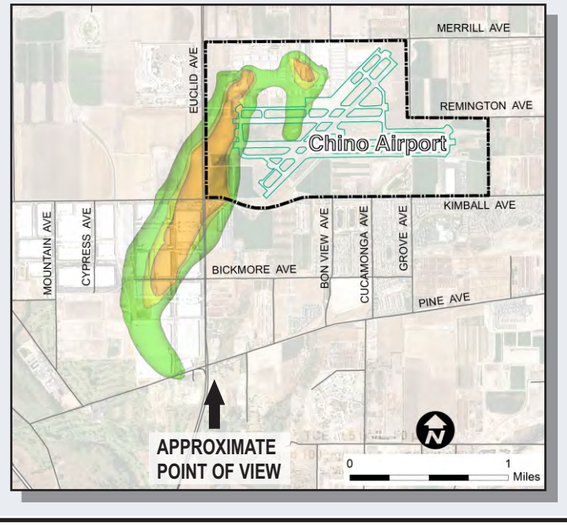
P:\GIS\23333_1604_02\Corel\TCE_North_View.CDR




**TCE Concentration**

- 300 µg/L
- 100 µg/L
- 30 µg/L
- 10 µg/L
- 5 µg/L




**5X Vertical Exaggeration**

CHINO AIRPORT

**Figure 12**

**Side View Looking North of TCE at 5 µg/L, 50 µg/L and 100 µg/L Isoconcentrations**

TETRA TECH

April 2015

P:\GIS\2333_1604_02\Cores\cis-1,2-DCE_AP_View.CDR

CHINO AIRPORT

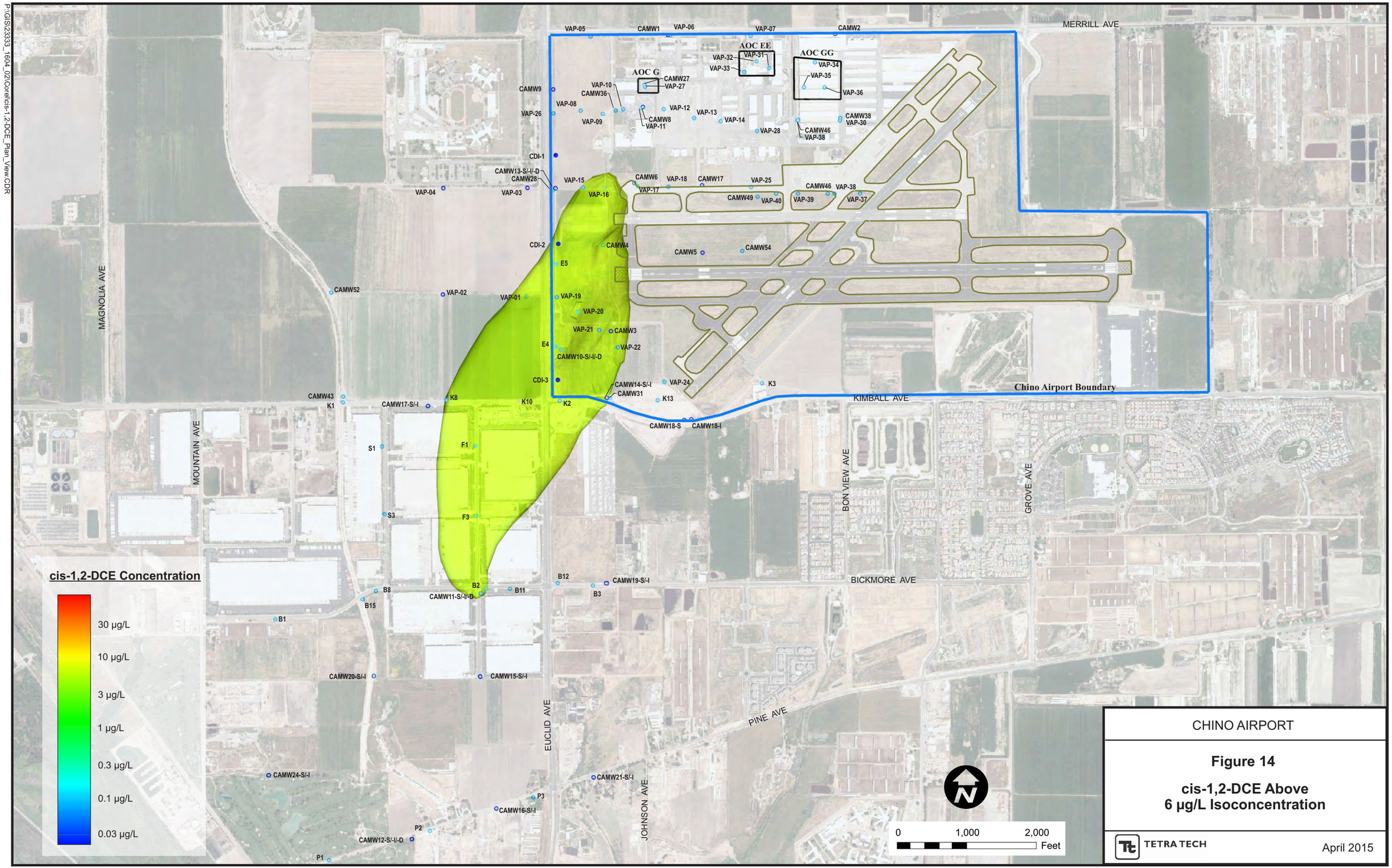
**Figure 13**

**cis-1,2-DCE in the Vicinity of Chino Airport Above 6 µg/L Isoconcentration**

TETRA TECH

April 2015

P:\GIS\23333_1604_02\CorelCis-1,2-DCE_Plan_View.CDR




CHINO AIRPORT

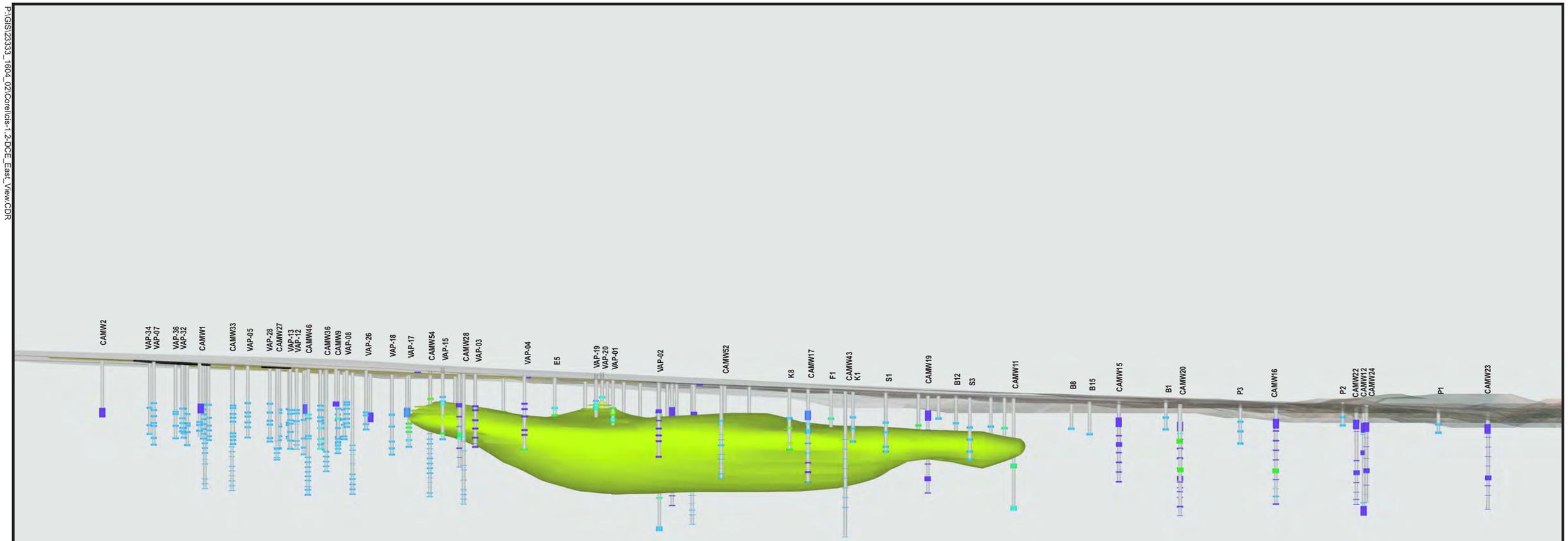
**Figure 14**

**cis-1,2-DCE Above 6 µg/L Isoconcentration**

TETRA TECH

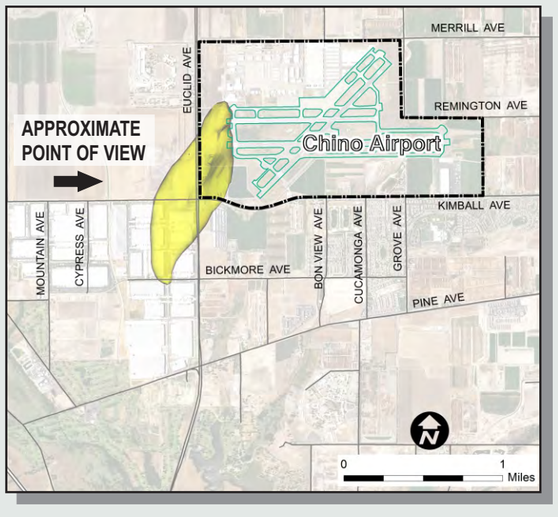
April 2015

P:\GIS\23333_1604_02\Corel\cis-1,2-DCE_East_View.CDR




**cis-1,2-DCE Concentration**

- 30 µg/L
- 10 µg/L
- 3 µg/L
- 1 µg/L
- 0.3 µg/L
- 0.1 µg/L
- 0.03 µg/L




**5X Vertical Exaggeration**

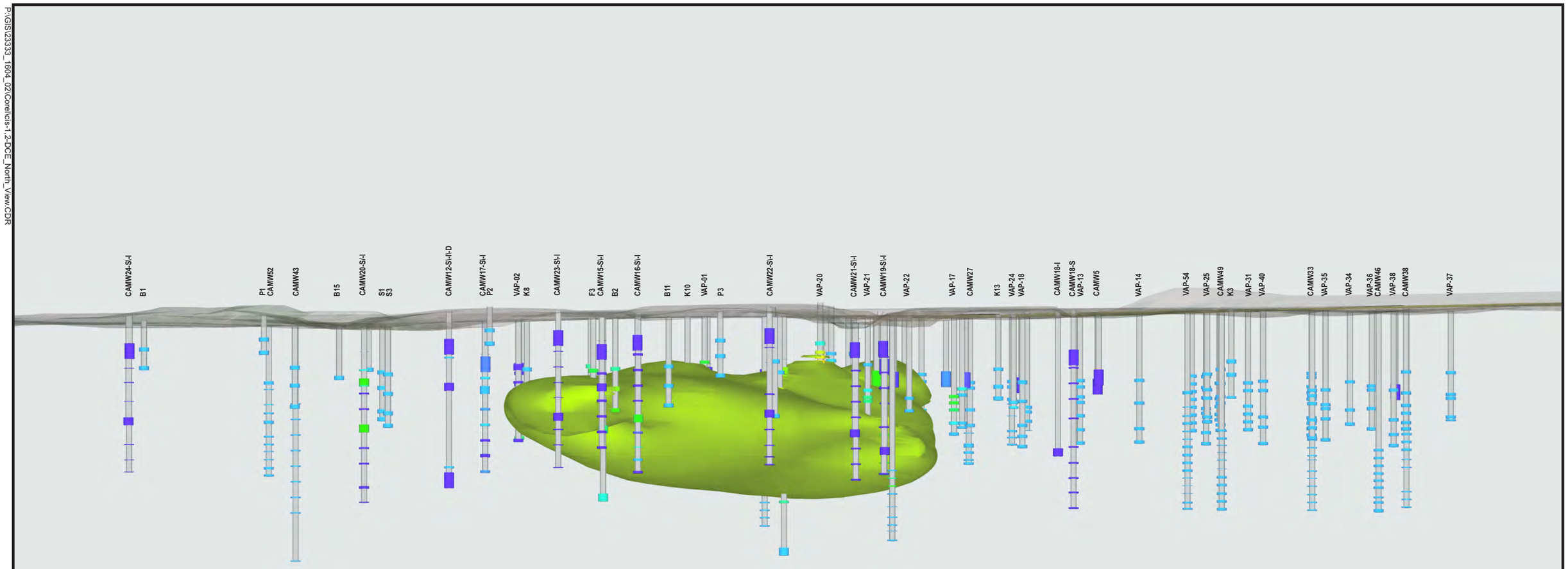
CHINO AIRPORT

**Figure 15**
**Side View Looking East of cis-1,2-DCE Above 6 µg/L Isoconcentration**

TETRA TECH

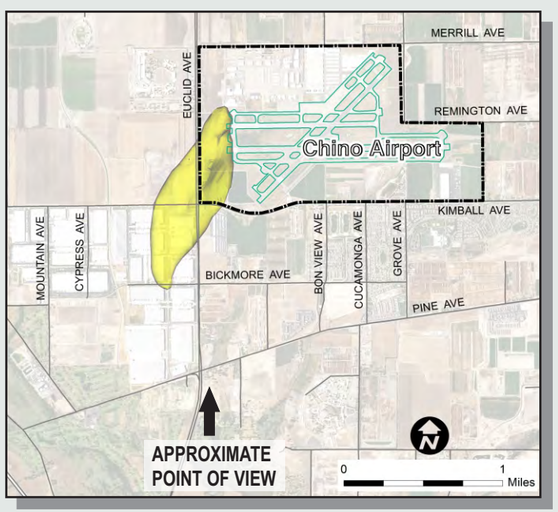
April 2015

P:\GIS\23333_1604_02\Corel\cis-1,2-DCE_North_View.CDR




**cis-1,2-DCE Concentration**

- 30 µg/L
- 10 µg/L
- 3 µg/L
- 1 µg/L
- 0.3 µg/L
- 0.1 µg/L
- 0.03 µg/L




**5X Vertical Exaggeration**

CHINO AIRPORT

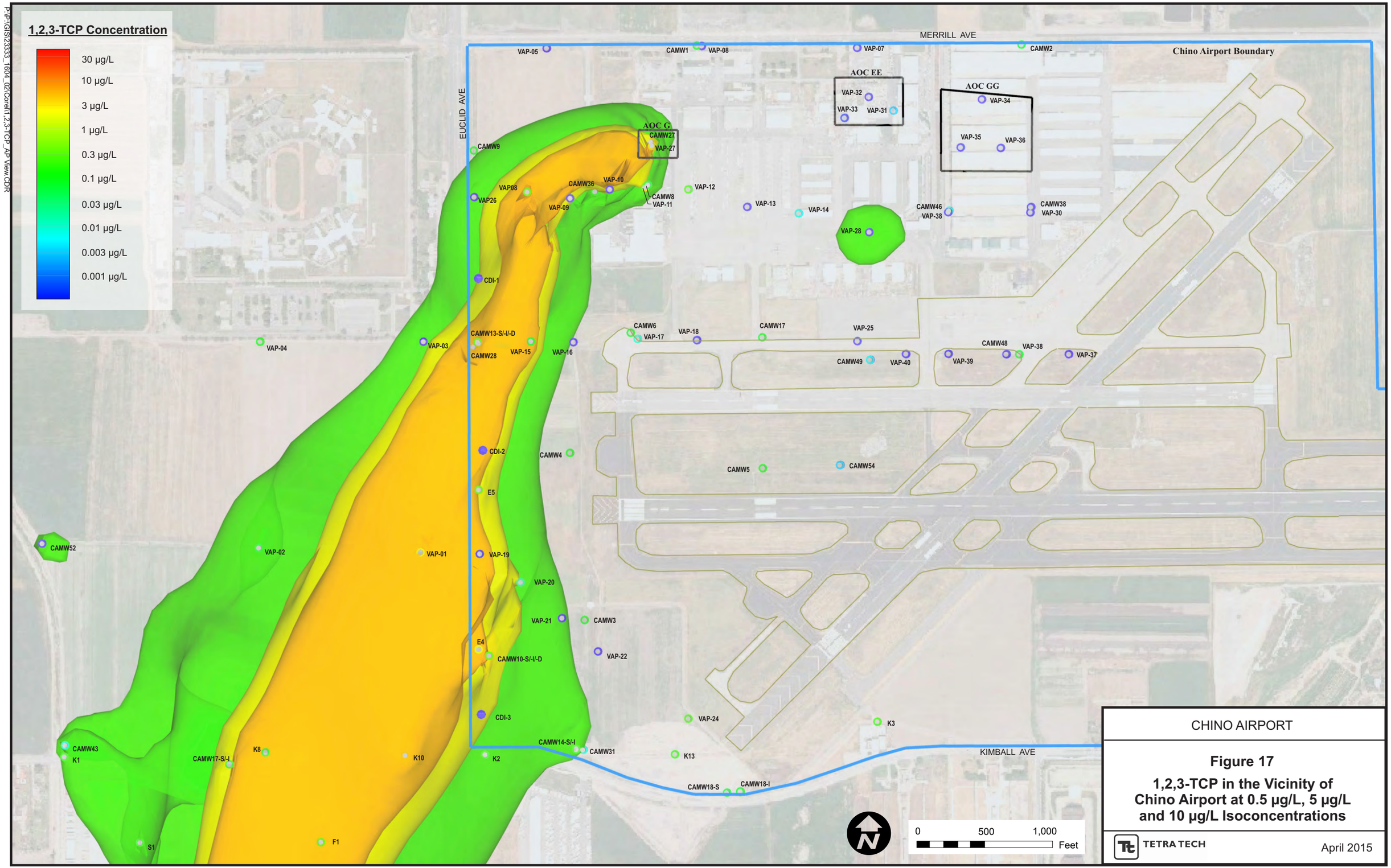
**Figure 16**

**Side View Looking North of cis-1,2-DCE Above 6 µg/L Isoconcentration**

TETRA TECH

April 2015

P:\P\GIS\23333_1604_02\Corel\1,2,3-TCP_AP View.CDR




CHINO AIRPORT

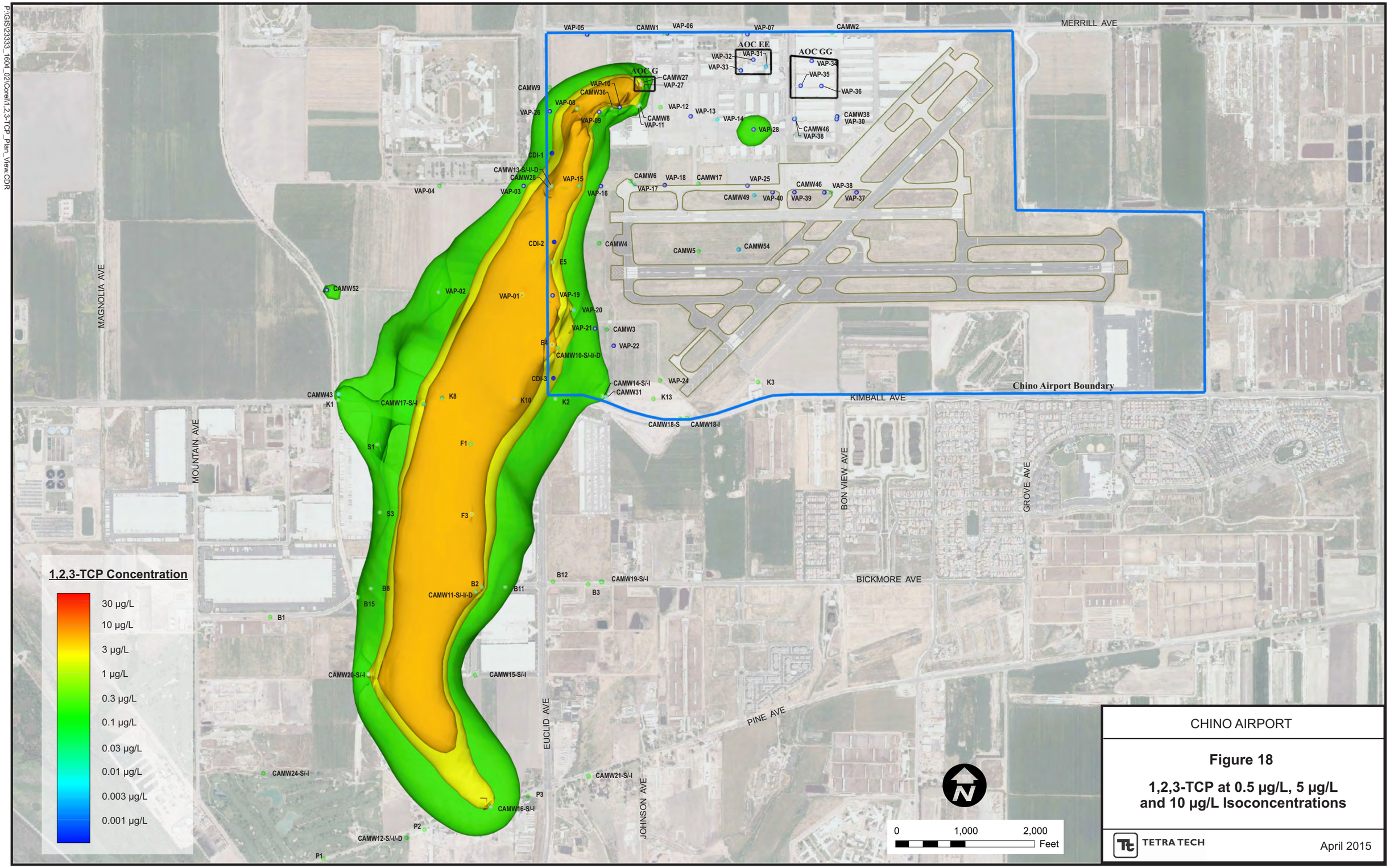
**Figure 17**

**1,2,3-TCP in the Vicinity of Chino Airport at 0.5 µg/L, 5 µg/L and 10 µg/L Isoconcentrations**

TETRA TECH

April 2015

P:\GIS\23333_1604_02\Corel\1,2,3-TCP_Plan_View.CDR



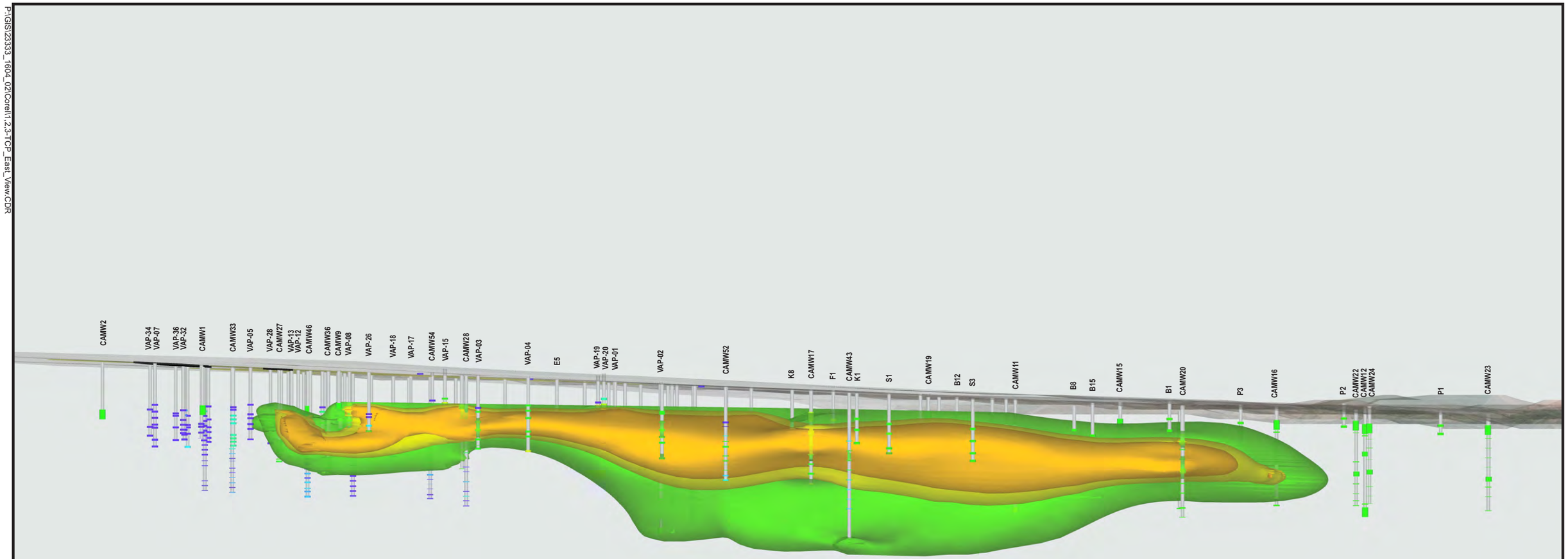

CHINO AIRPORT

**Figure 18**

**1,2,3-TCP at 0.5 µg/L, 5 µg/L and 10 µg/L Isoconcentrations**

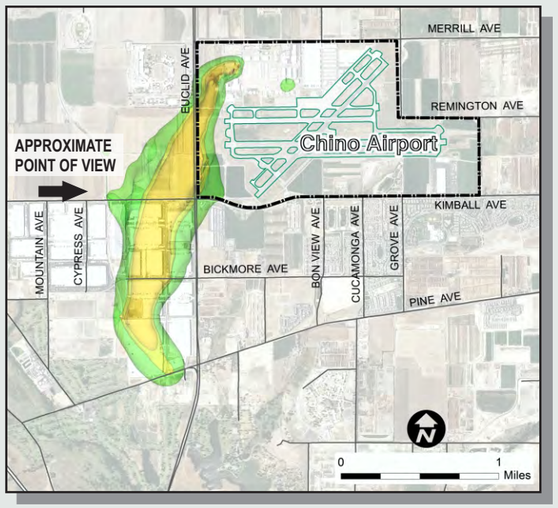
TETRA TECH

April 2015




**1,2,3-TCP Concentration**

- 30 µg/L
- 10 µg/L
- 3 µg/L
- 1 µg/L
- 0.3 µg/L
- 0.1 µg/L
- 0.03 µg/L
- 0.01 µg/L
- 0.003 µg/L
- 0.001 µg/L




**5X Vertical Exaggeration**

CHINO AIRPORT

**Figure 19**

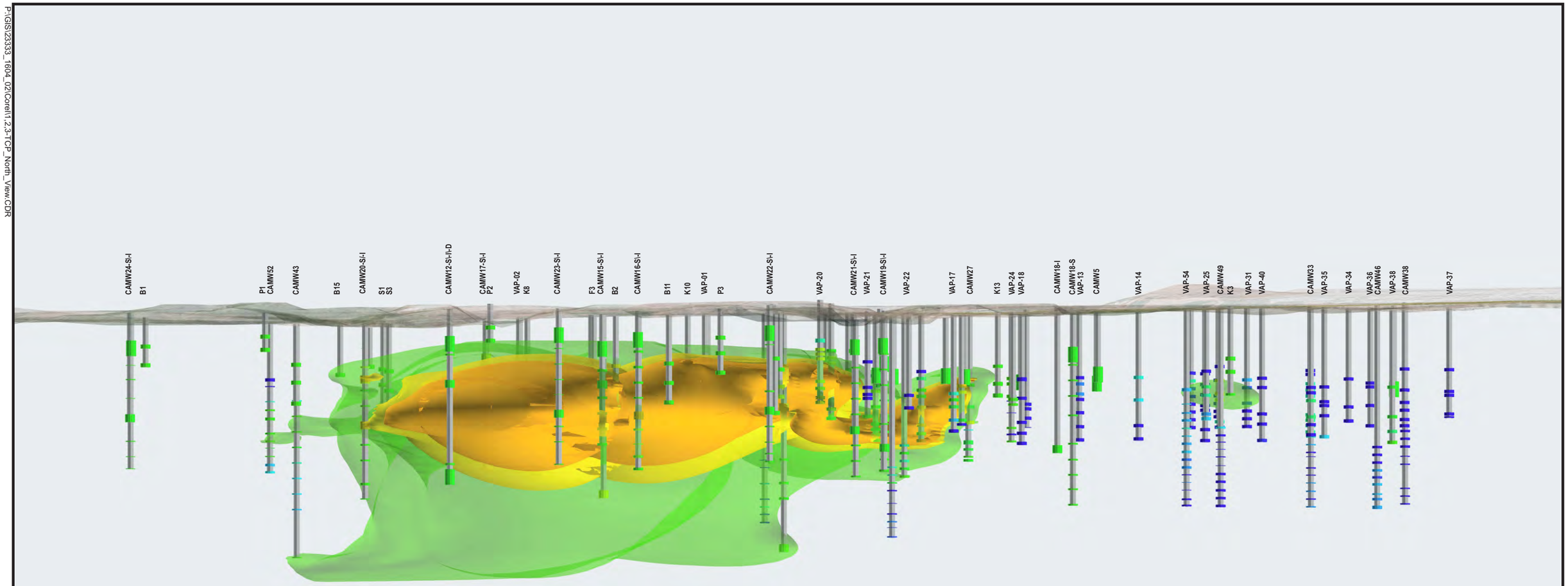
**Side View Looking East of 1,2,3-TCP at 5 µg/L, 50 µg/L and 100 µg/L Isoconcentrations**

TETRA TECH

April 2015

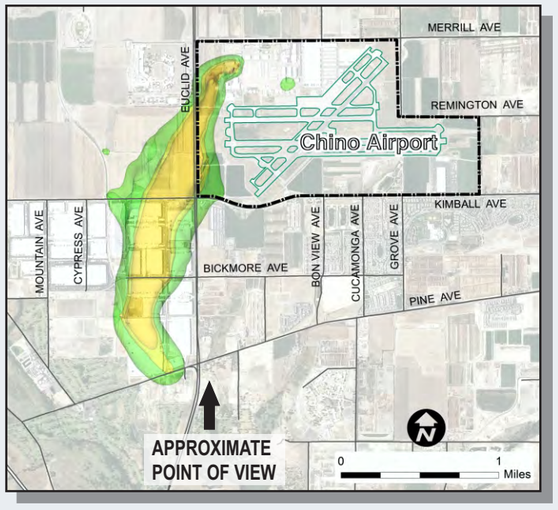
P:\GIS\23333_1604_02\Corel\1,2,3-TCP_East_View.CDR

P:\GIS\23333_1604_02\Corel\1,2,3-TCP_North_View.CDR




**1,2,3-TCP Concentration**

- 30 µg/L
- 10 µg/L
- 3 µg/L
- 1 µg/L
- 0.3 µg/L
- 0.1 µg/L
- 0.03 µg/L
- 0.01 µg/L
- 0.003 µg/L
- 0.001 µg/L




**5X Vertical Exaggeration**

CHINO AIRPORT

**Figure 20**

**Side View Looking North of 1,2,3-TCP at 0.5 µg/L, 5 µg/L and 10 µg/L Isoconcentrations**

TETRA TECH

April 2015

CHINO AIRPORT

**Figure 21**

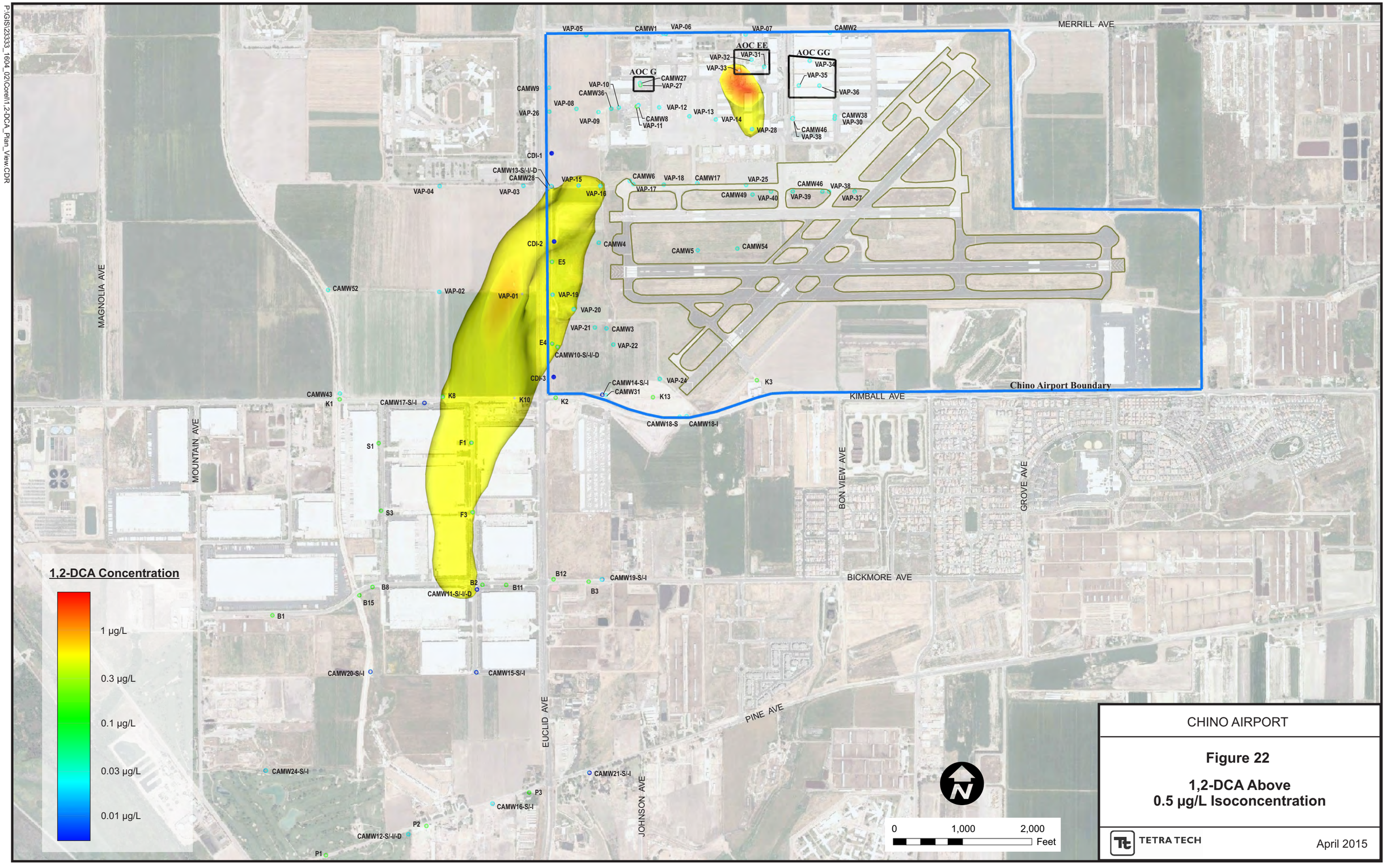
**1,2-DCA in the Vicinity of Chino Airport Above 0.5 µg/L Isoconcentration**

TETRA TECH

April 2015

P:\GIS\2333_1604_02\Corel\1,2-DCA_AP_View.CDR

P:\GIS\23333_1604_02\Corel\1,2-DCA_Plan_View.CDR




CHINO AIRPORT

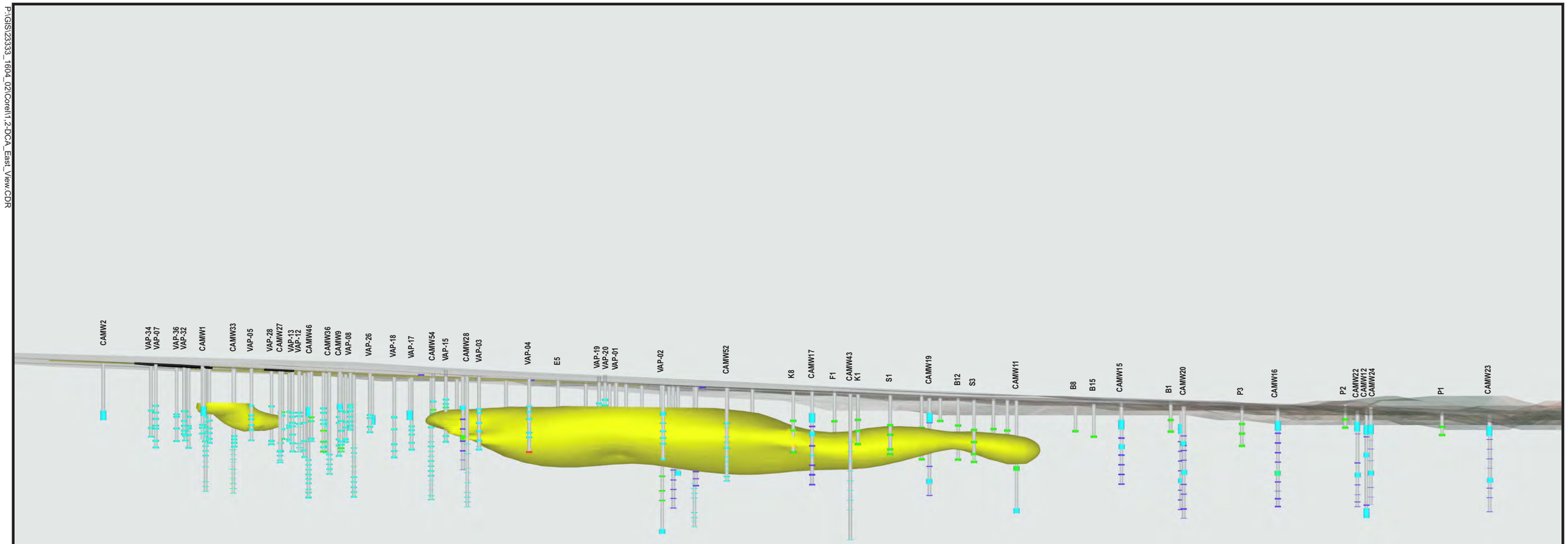
**Figure 22**

**1,2-DCA Above 0.5 µg/L Isoconcentration**

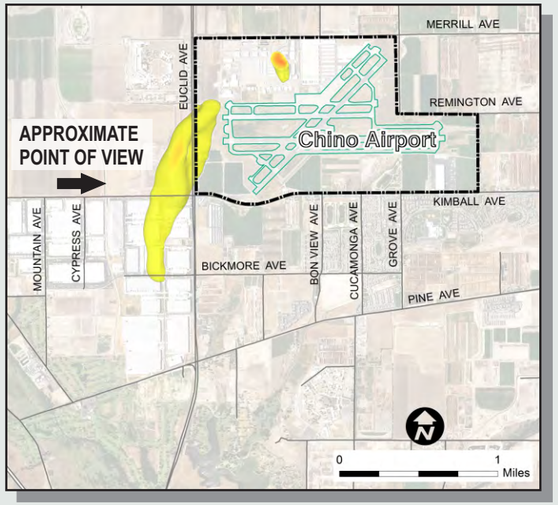
TETRA TECH

April 2015

P:\GIS\23333_1604_02\Corel\1,2-DCA_East_View.CDR




**1,2-DCA Concentration**




**5X Vertical Exaggeration**

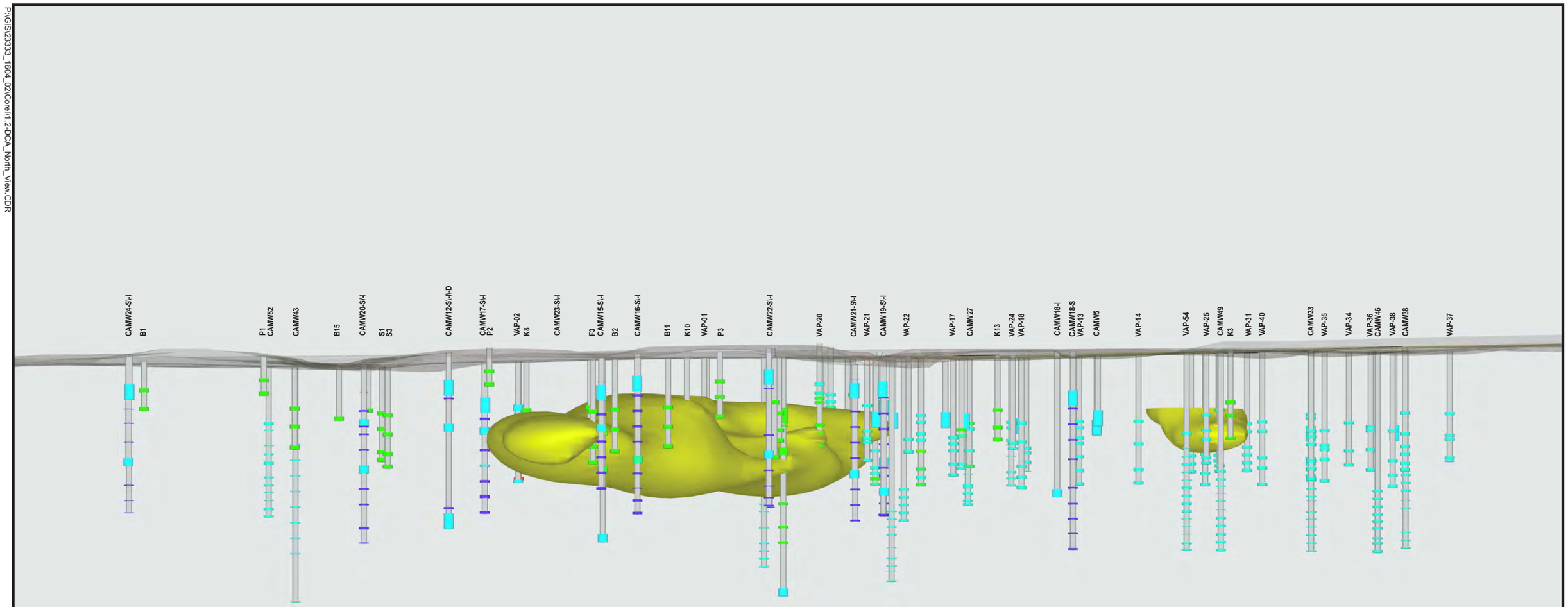
CHINO AIRPORT

**Figure 23**
**Side View Looking East of 1,2-DCA Above 0.5 µg/L Isoconcentration**

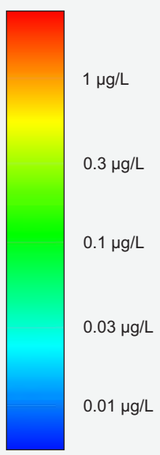
TETRA TECH

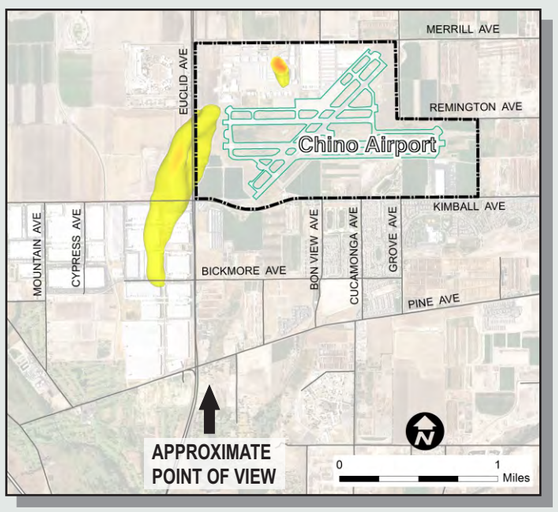
April 2015

P:\GIS\23333_1604_02\Corel\1,2-DCA_North_View.CDR




**1,2-DCA Concentration**




**5X Vertical Exaggeration**

CHINO AIRPORT

**Figure 24**

**Side View Looking North of 1,2-DCA Above 0.5 µg/L Isoconcentration**

TETRA TECH

April 2015