Preliminary Assessment Report
Arnold Engineering
Fullerton, Orange County, California

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List of Acronyms

µg/kg	microgram per kilogram
µg/L	microgram per liter
APN	Assessor Parcel Number
bgs	below ground surface
CCR	California Code of Regulations
CDPH	California Department of Public Health
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CHHSL	California Human Health Screening Level
COWD	City of Orange Water Division
DCE	dichloroethylene
DTSC	Department of Toxic Substances Control
DWR	Department of Water Resources
EEC	Environmental Engineering & Contracting
EPA	United States Environmental Protection Agency
ERM	ERM EnviroClean-West, Inc.
FFD	City of Fullerton Fire Department
ft^2	square foot
GSWC	Golden State Water Company
HRS	Hazard Ranking System
HWTS	Hazardous Waste Tracking System
KEE	K E Environmental
MCL	Maximum Contaminant Level
MWD	Metropolitan Water District of Southern California
NOV	Notice of Violation
NPL	National Priorities List
OCAPCD	Orange County Air Pollution Control District
OCHCA	Orange County Health Care Agency
OCWD	Orange County Water District
PA	Preliminary Assessment
PCE	tetrachloroethylene
RCRIS	Resource Conservation and Recovery Information System
RWQCB	Regional Water Quality Control Board
SCAQMD	South Coast Air Quality Management District
SCSC	Superior Court of the State of California
SEMS	Superfund Enterprise Management System
SPGIT	Spatial Prioritization Geographical Information Tool
SVE	soil vapor extraction
TCA	trichloroethane
TCE	trichloroethylene
TPH	total petroleum hydrocarbons
VOC	volatile organic compound

List of Acronyms (Continued)

WESTON®	Weston Solutions, Inc.
WRCC	Western Regional Climate Center

1.0 INTRODUCTION

1.1 Regulatory Background

Under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), Weston Solutions, Inc. (WESTON®) has been tasked to conduct a Preliminary Assessment (PA) of the Arnold Engineering site in Fullerton, Los Angeles County, California.

The purpose of a PA is to review existing information on a site with potential releases of a hazardous substance and its environs to assess the threats, if any, posed to public health, welfare, or the environment and to determine if further investigation under CERCLA is warranted. The scope of a PA generally includes review of existing information available from federal, state, and local agencies.

Using existing information sources, a site is then evaluated using the U.S. Environmental Protection Agency (EPA) Hazard Ranking System (HRS) criteria to assess the relative threat associated with actual or potential releases of hazardous substances at the site. The HRS has been adopted by EPA to help set priorities for further evaluation and eventual remedial action at hazardous substance sites. The HRS is the primary method of determining a site's eligibility for placement on the National Priorities List (NPL). The NPL is a list compiled by EPA of uncontrolled hazardous substance releases in the United States that are priorities for long-term remedial evaluation and response. This report summarizes the findings of these preliminary investigative activities.

The Arnold Engineering site was identified as a potential hazardous waste site and entered into the Superfund Enterprise Management System (SEMS) (SEMS ID No.: CAN000900306) (EPA, 2017).

More information about the Superfund program is available on the EPA website at http://www.epa.gov/superfund/programs/npl_hrs/siteasmt.htm.

1.2 Apparent Problem

EPA determined that a PA was needed at the Arnold Engineering site because of the following apparent problems:

- Historically, onsite operations included manufacturing of aerospace structures for the commercial and military aerospace industry (DTSC, 2015).
- In 1994, subsequent to the removal of two clarifiers, elevated concentrations of tetrachloroethylene (PCE) were detected in soil samples. A soil vapor extraction (SVE) system operated intermittently from 1995 to 2011. However, soil gas sampling conducted in 2011 showed concentrations of PCE, trichloroethylene (TCE), and 1,1-dichloroethene (1,1-DCE) to still be present within onsite soils (DTSC, 2015).

- In May 2015, the Department of Toxic Substances Control (DTSC) completed a Site Screening of the Arnold Engineering site for EPA. It was determined, with respect to the regional groundwater flow, that the site is situated upgradient from several municipal supply wells that have been identified with elevated concentrations of volatile organic compounds (VOCs), including PCE and TCE. EPA agreed with DTSC's recommendation that a PA be conducted for the Arnold Engineering site (DTSC, 2015).

2.0 SITE DESCRIPTION

2.1 Location

The Arnold Engineering site is located at 1551 East Orangethorpe Avenue, Fullerton, California. The geographic coordinates for the site are 33° 51' 40.12" North latitude and 117° 54' 3.30" West longitude (Appendix A). The location of the site is shown in Figure 1.

2.2 Site Description

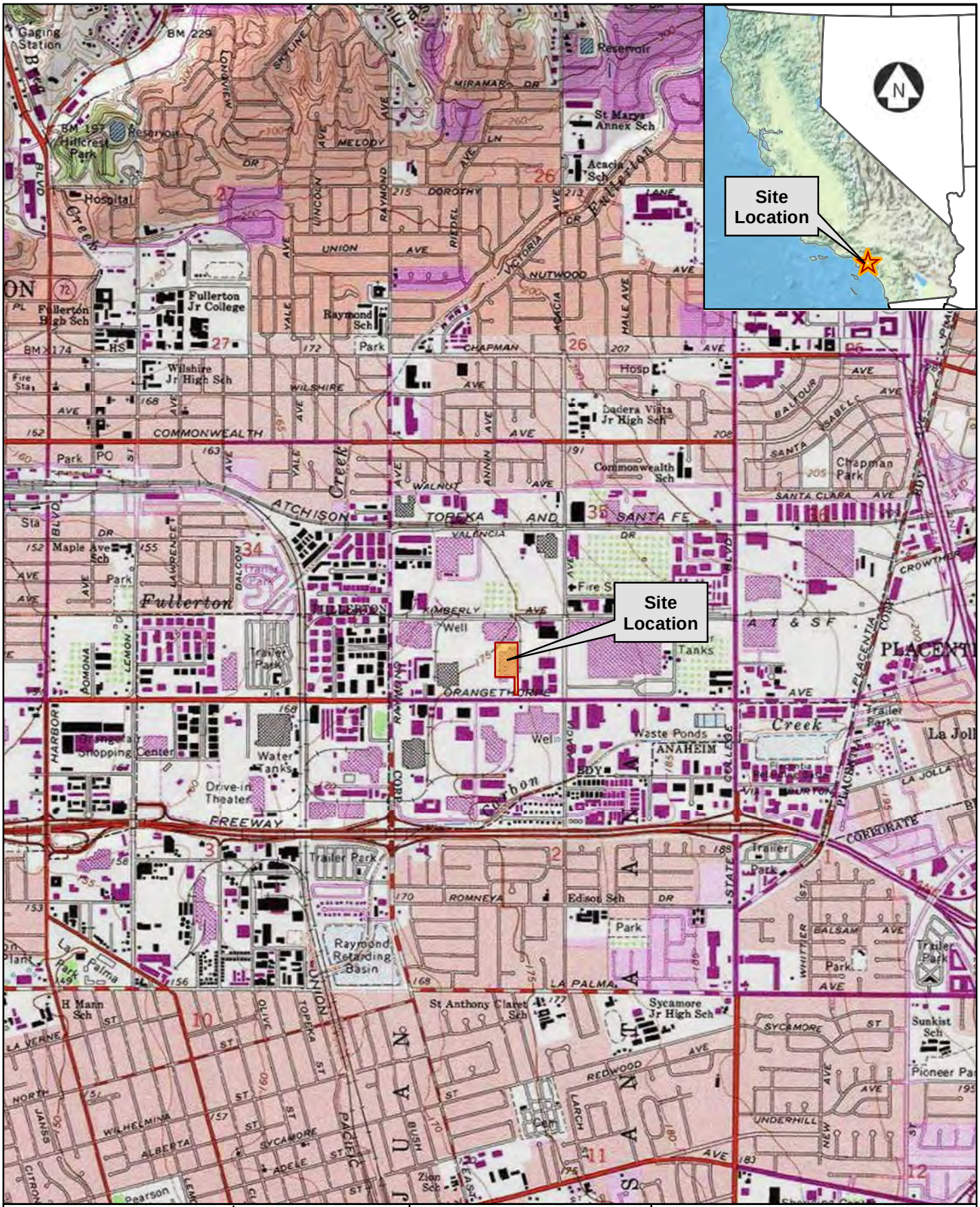
The Arnold Engineering site occupies approximately 12.27 acres in an urban industrial area. The site is bordered to the north and east by industrial warehouses; to the south by office buildings and Orangethorpe Avenue; and to the west by a paved parking lot. The site occupies Orange County Assessor Parcel Number (APN) 073-110-66 (DTSC, 2015; Google, 2015).

As of August 2016, the site was occupied by a single 246,122-square-foot (ft^2) building. A loading dock is located on the southeast corner of the building. The eastern and northern portions of the property, adjacent to the building, are used for storage. Parking areas are located in the southern and western portions of the facility. Historically, two outdoor clarifiers were located in the northeastern portion of the property (Former North Clarifier and Former South Clarifier), but were removed in 1994. The Degreaser Room was located in the northeast portion of the building, and an additional two clarifiers were located adjacent south of the Degreaser Room. A site layout map is presented in Figure 2 (Appendix B; Blueprint, undated; DTSC, 2015; Google, 2015).

2.3 Operational History

The earliest documented use of the Arnold Engineering site was in 1927. At this time, the property was used for agricultural purposes and was occupied by tree orchards. In 1956, the existing building was constructed and the site was occupied by Ensign Carburetor Company/Butane and Propane Equipment Manufacturing. From 1960 to 1985, Arnold Engineering owned and occupied the site. In 1984, McLachlan Investment Company acquired the site, but Arnold Engineering continued to operate in at least a portion of the site until 1993. From 1990 to at 1992, Woodmill Products occupied the site. In May 1994, Red Eagle Properties purchased the site from Resolution Trust Corporation. In 1995, Red Eagle Properties sold the site to Country Affair. In 2007, the site was acquired by Universal Molding Company (DTSC, 2015; EEC, 2006; FFD, 1992; KEE, 2006).

From approximately 1960 to 1993, Arnold Engineering operated at the site. Operations included manufacturing of aerospace structures for the commercial and military aerospace industry, including machine part components, sheet metal components, bench assemblies, large complex structures, and ground support equipment. Records indicate that operations used various VOCs, including PCE and TCE and other similar solvents and degreasers. In addition, operations included the use of multiple degreasers between 1960 and 1984. Arnold Engineering had permits issued through the county to operate a solvent degreaser in November 1961, June 1970, April 1975, and June 1976. In addition, a Degreaser Summary stated that 160 gallons of 1,1,1-TCA were used per month.



0 Scale in Miles 0.5

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EPA Region 9
Pacific Southwest

FIGURE 1
SITE LOCATION MAP
Arnold Engineering
1551 East Orangethorpe Avenue
Fullerton, Orange County, California

Project Number: 20074.063.110.1004

0 Scale in Feet 100

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FIGURE 2
SITE LAYOUT MAP
Arnold Engineering
1551 East Orangethorpe Avenue
Fullerton, Orange County, California

Project Number: 20074.063.110.1004

In 1975, the site conferred with the City of Fullerton Fire Department about installing a 1,000-gallon storage tank for TCE; however, there are no records indicating that the tank was installed. In May 1977, the South Coast Air Quality Management District (SCAQMD) issued a permit to Arnold Engineering Company to operate a 550-gallon storage tank for 1,1,1-TCA. A SCAQMD Facility Equipment List Report states that permits for the degreaser using 1,1,1-TCA were also issued in 1961, 1970, 1975, 1976, and 1984. In 1993, records indicate that 0.075 tons of alkaline solution with metals, 14.5 tons of unspecified solvent mixture, 8.34 tons of tank bottom waste, 0.02 tons of other organic solids, and 0.46 tons of photochemicals/photoprocessing waste were manifested from the site (Arnold, 1970; Arnold, 1973; DTSC, 2015; FFD, 1975; HWTS, 2014a; OCAPCD, 1961; OCAPCD, 1970; OCAPCD, 1975; OCAPCD, 1976; OCAPCD, undated; Reynolds, 2009b; SCSC, 2012; SCAQMD, 1977; SCAQMD, 2006).

In 1990, Woodmill Products occupied the site and manufactured picture frames and performed silk screening activities. Hazardous substances used in onsite operations included propane, sealer, petroleum naphtha solvent, and petroleum naphtha base. In 1994, Red Eagle Properties operated onsite. Operations are unknown, but records indicate that 7.6 tons of waste oil and mixed oil were manifested from the site. In 2006, when Country Affair owned the property, Elden Collections operated onsite as a custom furniture manufacturer. Business activities consisted of manufacturing and finishing wooden furniture. Paints, stains, lacquers, thinners, and acetone were used in operations. Operations also included the use of six paint booths (FFD, 1990; FFD, 1992; HWTS, 2014b; KEE, 2006).

In 2015, the site was operating as the “Fullerton Business Park” with multiple office buildings and warehouses occupied by multiple tenants, including Universal Molding Company, which has owned the property since 2007. Other tenants include Anaheim Extrusion Company and International Window Corporation. Universal Molding Company specializes in aluminum extrusion, metal, and roll forming operations. In 2011, 1.836 tons of waste oil, mixed oil, and other organic solids were manifested from the site. In 2013, 2.528 tons of chromium were manifested from the site (DTSC, 2015; HWTS, 2014c; HWTS, 2014d).

Currently, the site is occupied by U.S. Aluminum Corporation, which is operating as a manufacturer of vinyl and aluminum windows. Activities at the site include vinyl extrusion, glass cutting, and aluminum painting and coating, which includes a caustic wash process. Hazardous materials at the site include liquid paint in the aluminum painting line, chromium phosphate and hydrofluoric acid associated with the caustic wash process, and cutting/hydraulic oils associated with the various manufacturing processes across the facility (Appendix B).

Unaltered petroleum products, as well as any substances that are purposefully added to the indigenous petroleum product during the refining process, are excluded from consideration under CERCLA.

2.4 Regulatory Involvement

2.4.1 U. S. Environmental Protection Agency (EPA)

The Arnold Engineering site is listed in the Resource Conservation and Recovery Information System (RCRIS) database as "Universal Molding Co." (Handler ID: CAT000624668), a Small Quantity Generator at 1551 East Orangethorpe Avenue (RCRIS, 2015b).

2.4.2 California Environmental Protection Agency, Department of Toxic Substances Control (DTSC)

The Arnold Engineering site is listed in the DTSC Envirostor database as "Arnold Engineering" (Envirostor ID: 60002048) at 1551 East Orangethorpe Avenue. The site is listed as an "Evaluation" site that has been active as of August 12, 2014 (Envirostor, 2015a).

The site has an additional listing in the DTSC Envirostor database as "Fullerton Business Park-North" (Envirostor ID: 60000728) at 1551 Orangethorpe Avenue. The site is listed as an "Evaluation" site that was referred to a local agency as of July 24, 2007 (Envirostor, 2015b).

2.4.3 California Environmental Protection Agency, Regional Water Quality Control Board (RWQCB)

The Arnold Engineering site is listed in the RWQCB GeoTracker database as 'Fullerton Business Park' (GeoTracker ID: SLT8R2213999) at 1551 East Orangethorpe Avenue. The site is listed as a "Cleanup Program Site" that was closed as of December 19, 1995. The potential contaminants of concern are listed as VOCs (GeoTracker, 2015).

2.4.4 Orange County Health Care Agency (OCHCA)

In 1992, the site owner notified OCHCA that a tenant had abandoned its business at the Arnold Engineering site and that waste material, including paints, solvents and acids, were improperly stored. Approximately 100,000 gallons of non-hazardous standing water were present and were discharged appropriately. The potentially hazardous substances were placed in empty drums for analysis and appropriately disposed of (DTSC, 2015; ERM, 1992).

In 1994, the outdoor clarifiers located in the eastern portion of the property were removed under OCHCA oversight. Sampling was conducted, and analytical results indicated the presence of VOCs in onsite soil. Under the oversight of OCHCA, an SVE system was installed onsite and operated intermittently between 1995 and 2011. In 1995, OCHCA issued a Closure Letter to the site for the completion of remedial activities. In 2007, OCHCA issued a Remedial Action Agreement Notification to Fullerton Business Park–North site, and soil vapor sampling was conducted onsite in addition to the operation of an SVE treatment system. In January 2010, a final cleanup verification sampling event under OCHCA was requested. As of 2011, no work was being conducted at the site due to a lawsuit between the site owner and their contractor. Details of these sampling events are presented in Section 3.0 (DTSC, 2015; OCHCA, 1995; OCHCA, 2007).

2.4.5 Orange County Air Pollution Control District (OCAPCD)

OCAPCD granted permits to Arnold Engineering to operate a solvent degreaser in November 1961, June 1970, April 1975, and June 1976. An undated Degreaser Summary from OCAPCD states that 160 gallons per month of 1,1,1-TCA were used (OCAPCD, 1961; OCAPCD, 1970; OCAPCD, 1975; OCAPCD, 1976; OCAPCD, undated).

2.4.6 South Coast Air Quality Management District (SCAQMD)

In May 1977, SCAQMD issued a permit to Arnold Engineering Company to operate a 550-gallon storage tank for 1,1,1-TCA. A SCAQMD Facility Equipment List Report states that permits for the degreaser using 1,1,1-TCA were also issued in 1961, 1970, 1975, 1976, and 1984 (SCAQMD, 1977; SCAQMD, 2006).

2.4.7 City of Fullerton Fire Department (FFD)

In 1990, when Woodmill Products operated on the site, a Business Emergency Plan was submitted to FFD that included a Chemical Description Form. Chemicals used onsite were propane, sealer, petroleum naphtha solvent, and petroleum naphtha base. There are no Notices of Violation (NOVs) on record (FFD, 1990).

In 2005, FFD conducted an inspection on the site during the occupancy of Elden Collections. No violations were noted (FFD, 2005).

A NOV was issued to Universal Molding Company in 2011 for improper disposal of waste and not having a City of Fullerton business license (FFD, 2011).

In 2013, a Fire & Life Safety and Hazardous Material Inspection was conducted at the International Window Corporation facility on the Arnold Engineering site. Numerous NOVs were issued including improper hazardous waste storage and labeling (FFD, 2013).

2.5 Summary of Site Description

Address: 1551 East Orangethorpe Avenue, Fullerton, California (33° 51' 40.12" North latitude and 117° 54' 3.30" West), APN 073-110-66.

Description: 12.27-acre site with a single 246,122-ft^2 building

Agency Databases:

Database	Site Name in Database	Database ID
RCRIS	Universal Molding Co.	CAT000624668
DTSC Envirostor	Arnold Engineering	60002048
	Fullerton Business Park-North	60000728
RWQCB GeoTracker	Fullerton Business Park	SLT8R2213999

History:

Site Name	Owner	Year	Onsite Hazardous Substances	Violations
Ensign Carburetor Company/Butane and Propane Equipment Manufacturing	-	1956 - 1960	-	None on file
Arnold Engineering	Arnold Engineering	1960 – 1984	PCE, TCE, and 1,1,1-TCA	None on file
Arnold Engineering	McLachlan Investment Company	1984	-	None on file
Woodmill Products	-	1990 – 1992	Propane, sealer, and petroleum naphtha solvent and base	None on file
-	Resolution Trust Corp.	-	-	None on file
Red Eagle Properties	-	1994	Waste oil and mixed oil	None on file
-	Alan Needle Trust	1995	-	None on file
Elden Collections/Country Affair	-	1995 - 2006	Paints, stains, lacquers, thinners and acetone	None on file
Universal Molding Company, Anaheim Extrusion Company, and International Window Corporation	Universal Molding Company	Since 2007	Waste oil, mixed oil, other organic solids, chromium	Universal Molding: for improper disposal of waste and not having a city business license. International Window Corporation: improper hazardous waste storage and labeling.

- The information is unknown.

3.0 INVESTIGATIVE EFFORTS

In September 1994, the two outdoor clarifiers were removed from the Arnold Engineering site. The removal was conducted by consultants hired by the property owner at the time, Red Eagle Properties, and under OCHCA oversight. The clarifiers were installed in the mid-1970s, when Arnold Engineering Co. occupied the site. Both clarifiers, having an approximate 2,000-gallon capacity, were of concrete construction, and appeared to be fully intact with no signs of damage prior to the removal. The clarifiers were partially full of what appeared to be water from storm drain runoff. Prior to the removal, approximately 1,800 gallons of wastewater and rinse water were removed from the clarifiers. The excavation to remove each clarifier measured approximately 9 feet below ground surface (bgs), 14 feet in length, and 8 feet in width.

Subsequent to the removal, two soil samples (NC-1 from the north clarifier and SC-1 from the south clarifier) were collected from a depth of approximately 3 feet below the bottom of the clarifiers in each excavation. Each sample was analyzed for VOCs using EPA Method 8010, total petroleum hydrocarbons (TPH) using EPA Method 418.1, and California Code of Regulations (CCR) Title 22 Metals. Sample SC-1 exhibited PCE concentrations of 27,000 micrograms per kilogram (µg/kg). The industrial Regional Screening Level for PCE is 100,000 µg/kg. Trace amounts of metals were detected, but all detectable metals were below the regulatory action levels established in CCR Title 22 for persistent and bioaccumulative toxic substances. It was recommended that further characterization be conducted at the property to determine the vertical extent of soil contamination (Converse, 1994a; KEE, 2006).

In October 1994, one soil boring (BH-1) was advanced in the area of the former southern clarifier excavation to a depth of 40 feet bgs. Six soil samples were collected at 5-foot intervals from depths of 15 feet bgs to 40 feet bgs. Samples were analyzed for PCE in accordance with EPA Method 8010, and the results indicated that PCE was detected at a depth of 20 feet bgs at a concentration of 17 µg/kg, and at a depth of 30 feet bgs at a concentration of 38 µg/kg (Converse, 1994b).

In December 1994, six soil borings (BH-2 through BH-7) were advanced in the area surrounding the former southern clarifier. Soil samples were collected at each boring at a depth of 15 feet. Additional soil samples were collected at depths of 20 feet bgs and 25 bgs in three of the borings. PCE concentrations are presented in Table 1 (Converse, 1994c).

Table 1: 1994 PCE Soil Concentrations (µg/kg)

Depth (bgs)	Boring Number						
	BH-1	BH-2	BH-3	BH-4	BH-5	BH-6	BH-7
15	ND	3,500	270	ND	84,500	ND	130
20	17	320	ND	-	96,000	-	330
25	ND	1,950	8,900	-	88,000	-	ND
30	38	ND	-	-	-	-	-
35	ND	ND	-	-	-	-	-
40	ND	ND	-	-	-	-	-
The Industrial Regional Screening Level for PCE is 100,000 µg/kg							

µg/kg: micrograms per kilogram
bgs: below ground surface
ND: not detected
-: not sampled

In January 1995, nine additional soil borings (BH-4A through BH-6A and BH-8 through BH-13) were advanced in the vicinity of the removed clarifier to further assess the vertical and lateral extent of PCE-impacted soil. Soil samples were collected at 5-foot intervals from 15 feet bgs to 40 feet bgs and analyzed for PCE. Analytical results are presented in Table 2 (Converse, 1995a).

Table 2: 1995 PCE Soil Concentrations (µg/kg)

Depth (bgs)	Boring Number								
	BH-4A	BH-5A	BH-6A	BH-8	BH-9	BH-10	BH-11	BH-12	BH-13
15	-	-	-	32,000	ND	570	31	190	140
20	ND	-	ND	26,000	ND	ND	19	ND	16
25	12	-	20	92,000	18,000	ND	100	41	13
30	23	17,500	56	15,000	ND	ND	29	11	ND
35	29	1,070	ND	ND	ND	ND	ND	ND	ND
40	52	28	ND	ND	ND	45	16	50	ND
The Industrial Regional Screening Level for PCE is 100,000 µg/kg									

µg/kg: micrograms per kilogram
bgs: below ground surface
ND: not detected
-: not sampled

In March 1995, one boring (BH-14) was advanced with the intent of installing a groundwater monitoring well. The boring was located approximately 10 feet east of the former clarifier and was drilled to a depth of approximately 120 feet bgs. Groundwater was encountered at 114 feet bgs. Soil samples were collected from BH-14 at 5-foot intervals starting at 5 feet bgs, but the boring was not converted into a groundwater monitoring well. A second boring (BH-15), located inside the adjacent warehouse, was drilled to a total depth of 115 feet bgs. Soil samples were collected at 5-foot intervals starting at 5 feet bgs. A total of 23 soil samples collected from depths of 40 feet bgs or greater were selected for chemical analysis. Groundwater was not sampled at either boring. Selected analytical results are presented in Table 3 (Converse, 1995a).

From August 1995 to November 1995, an SVE treatment system operated at the site on behalf of the property owners at the time, Red Eagle Properties, and under the direction of OCHCA. Based on the stabilized influent VOCs data collected during the latter stages of remediation, the SVE system was shut down. It was then allowed to equalize without the influence of the SVE system

for 10 days. When the system was restarted, the collected data indicated that there was not a restart spike in VOC concentrations after the shutdown period. In December 1995, three soil probes were advanced (SP-1, SP-2, and SP-3) at locations adjacent to former borings BH-5/BH-5A, BH-8, and BH-9. Soil samples were collected at 5-foot intervals to a total depth between 25 feet bgs and 30 feet bgs. Analytical results are presented in Table 4. In December 1995, OCHCA issued a Closure Letter to the site for the completion of remedial activities (Converse, 1995b; OCHCA, 1995).

Table 3: 1995 VOC Sample Results (µg/kg)

Sample ID	Sample Depth (bgs)	PCE	TCE	1,1,1-TCA	1,1-DCE
		Industrial Regional Screening Levels			
		100,000	*6,000*	*36,000,000*	*1,000,000*
BH-14/8	40	23	19	ND	8.8
BH-14/11	55	11	20	ND	ND
BH-14/12	60	110	110	6.8	50
BH-14/13	65	ND	23	ND	19
BH-14/14	70	ND	8.2	ND	11
BH-14/15	75	ND	6.3	ND	6.7
BH-14/17	85	ND	91	ND	7.5
BH-14/21	105	ND	180	ND	19
BH-15/8	40	ND	91	ND	ND
BH-15/12	60	180	230	ND	160
BH-15/13	65	7.7	55	ND	20
BH-15/14	70	ND	20	ND	13
BH-15/17	85	ND	110	ND	29
BH-15/19	95	ND	420	ND	56
BH-15/21	105	ND	160	ND	ND

µg/kg: micrograms per kilogram
bgs: below ground surface
ND: not detected

Table 4: 1995 Closure Sample Results (µg/kg)

Boring ID	Sample Depth (bgs)	PCE	1,1,1-TCA	TCE
		Industrial Regional Screening Levels		
		100,000	*36,000,000*	*6,000*
SP-1	15	330	ND	ND
	20	12,800	670	ND
	25	13,700	19,600	480
	30	300	110	78
SP-2	15	6,200	590	1,100
	20	12,000	5,600	3,400
	25	25,300	6,000	1,000
	30	10,600	900	1,200
SP-3	20	1,300	ND	ND
	25	16,000	12,000	560

µg/kg: micrograms per kilogram
bgs: below ground surface
ND: not detected

In March 2006, a Phase I Environmental Site Assessment was conducted at the site for U.S. Bancorp. Based on observations and records reviewed, the Phase I concluded that historical onsite

activities have adversely affected the subsurface soil and groundwater. Additionally, the site was currently being named in a lawsuit with the Orange County Water District (OCWD), and the Phase I recommended that legal counsel review any sales agreement prior to completing the site purchase (EEC, 2006).

In October 2006, an additional Phase I Environmental Site Assessment was conducted on the site for Community Bank. The Phase I recommended that no further subsurface investigation was warranted at that time (KEE, 2006).

In 2007, OCHCA issued a Remedial Action Agreement Notification to the Fullerton Business Park –North site. Soil vapor sampling was conducted onsite in addition to the operation of an SVE treatment system, on the behalf of the current property owners, Universal Molding Company. In July 2007, a shallow soil gas survey was conducted at six locations, SV18 through SV23, where samples were collected approximately 1 foot beneath the concrete floor slab. The maximum concentrations of PCE and TCE for both sampling events were 1,079.4 micrograms per liter (µg/L) and 710.8 µg/L, respectively. The commercial/industrial land use California Human Health Screening Levels (CHHSLs) for PCE and TCE in shallow soil gas are 0.6 µg/L and 1.77 µg/L, respectively. Soil vapor sample SV22 contained the maximum concentrations and was located in an additional storage room on the northeast side of the building (OCHCA, 2007; Reynolds, 2007).

In October 2007 and February 2008, additional vapor sampling was conducted under OCHCA oversight to determine the effectiveness of the SVE system. In October 2007, the maximum PCE and TCE concentrations detected were both 110 µg/L in a sample collected from a vapor extraction well located in the vicinity of the former degreaser room. In February 2008, the maximum PCE and TCE concentrations were 21.7 µg/L and 26.6 µg/L, respectively, in a sample collected from the manufacturing room in the southern portion of the building. The commercial/industrial land use CHHSLs for PCE and TCE in shallow soil gas are 0.6 µg/L and 1.77 µg/L, respectively (Reynolds, 2008).

From January 2008 to November 2008, the SVE system operated continuously on the Arnold Engineering site under OCHCA oversight. At this time, 14 vapor extraction wells, 4 passive wells, and 11 temporary soil vapor probes existed on the site. During the 11-month period of operation, approximately 49.48 pounds of PCE were removed and approximately 6.57 pounds of TCE were removed. The SVE system was shut down on November 28, 2008. In March 2009, soil vapor verification sampling occurred at the site. Results indicated that remedial efforts reduced PCE and TCE vapor concentrations in the shallow soils at the site, including in the sub-slab and at 5 feet bgs. The site requested that OCHCA evaluate the results for case closure. However, at the direction of OCHCA, the SVE system was restarted in May 2009 to further remediate the shallow soils in the northeastern portion of the site building. The system operated continuously until October 2009. During this time, an additional 24.27 pounds of PCE and 0.88 pound of TCE were removed (Reynolds, 2009a; Reynolds, 2009b; Reynolds, 2009c).

In January 2010, to target the residual PCE area in the northeast portion of the building, two additional shallow 5-foot vapor extraction wells were installed under OCHCA oversight. The system operated from July 2010 through November 2010. In October 2010, soil vapor samples were collected and exhibited concentrations of VOCs. Maximum concentrations of PCE and TCE

were detected at 24.9 µg/L and 2.44 µg/L, respectively. The SVE system operated continuously from February 2011 through April 2011, then intermittently through May 2011. In June 2011, soil vapor samples were collected from the northeastern portion of the site building. Maximum concentrations of PCE were detected at 17.6 µg/L, and maximum concentrations of TCE were detected at 3.84 µg/L. The commercial/industrial land use CHHSLs for PCE and TCE in shallow soil gas are 0.6 µg/L and 1.77 µg/L, respectively. In July 2011, representatives of the site owners requested a final cleanup verification sampling event under OCHCA for closure consideration. However, as of 2011, no work was being conducted at the site a lawsuit between the site owner and their contractor (Reynolds, 2010; Reynolds, 2011; DTSC, 2015).

In May 2015, DTSC completed a Site Screening of the Arnold Engineering site for EPA. It was determined, with respect to the regional groundwater flow, that the site is situated upgradient from several municipal supply wells that have been identified with elevated concentrations of VOCs, including PCE and TCE. Details of the contaminated municipal drinking water wells are presented in Section 4.2.2. Although OCHCA has been involved in investigation and remediation of the site and the SVE system, groundwater contamination has not been addressed. DTSC recommended that the site remain in EPA's active site universe until the nature of the release or potential release cited in the screening assessment can be confirmed. EPA agreed with DTSC's recommendation that a PA be conducted for the Arnold Engineering site (DTSC, 2015).

No additional soil vapor, soil matrix, or groundwater sampling is known to have been conducted at the Arnold Engineering site.

4.0 HAZARD RANKING SYSTEM FACTORS

4.1 Sources of Contamination

For HRS purposes, a source is defined as an area where a hazardous substance has been deposited, stored, disposed, or placed, plus those soils that have become contaminated from migration of a hazardous substance.

- Reportedly, historical operations included the use of VOCs, including PCE, TCE, and 1,1,1-TCA; however, the storage practices of these substances are unknown (DTSC, 2015; HWTS, 2014a; Reynolds, 2009b; SCAQMD, 1977).
- In 1994 and 1995, onsite soil exhibited elevated concentrations of VOCs, including PCE, TCE, 1,1,1-TCA, and 1,1-DCE (Converse, 1994b; Converse, 1994c; Converse, 1995a; Converse, 1995b).

4.2 Groundwater Pathway

In determining a score for the groundwater migration pathway, the HRS evaluates: 1) the likelihood that sources at a site actually have released, or potentially could release, hazardous substances to groundwater; 2) the characteristics of the hazardous substances that are available for a release (i.e., toxicity, mobility, and quantity); and 3) the people (targets) who actually have been, or potentially could be, impacted by the release. For the targets component of the evaluation, the HRS focuses on the number of people who regularly obtain their drinking water from wells that are located within 4 miles of the site. The HRS emphasizes drinking water usage over other uses of groundwater (e.g., food crop irrigation and livestock watering) because, as a screening tool, it is designed to give the greatest weight to the most direct and extensively studied exposure routes.

4.2.1 Hydrogeological Setting

The Arnold Engineering site lies within the Coastal Plain of the Orange County Groundwater Basin, which underlies a coastal alluvial plain in the northwestern portion of Orange County. The basin is bounded by consolidated rocks exposed on the north in the Puente and Chino Hills, on the east in the Santa Ana Mountains, and on the south in the San Joaquin Hills. The basin is bounded by the Pacific Ocean on the southwest and by a low topographic divide approximated by the Orange County – Los Angeles County line on the northwest. The basin underlies the lower Santa Ana River watershed (DWR, 2004).

The Orange County Groundwater Basin is dominated by a deep structural depression containing a thick accumulation of fresh water-bearing interbedded marine and continental sand, silt, and clay deposits. The sediments containing easily recoverable fresh water extend to approximately 2,000 feet in depth. Upper, middle, and lower aquifer systems are recognized in the basin. The upper aquifer system includes Holocene alluvium, older alluvium, stream terraces, and upper Pleistocene deposits represented by the La Habra Formation. Generally, the upper aquifer system contains a lower percentage of water-bearing strata in the northwest and coastal portions of the area where clays and clayey silts dominate. The upper aquifer provides most of the irrigation for the basin.

The middle aquifer system includes the lower Pleistocene Coyote Hills and San Pedro Formations, which have an average thickness of 1,600 feet and are composed of sand, gravel, and minor amounts of clay. The middle aquifer system provides the majority of groundwater for the basin. The lower aquifer system includes the Upper Fernando Group of upper Pliocene age and is composed of sand and conglomerate 350 to 500 feet thick (DWR, 2004).

Groundwater beneath the site has been encountered at a depth of 114 feet bgs. Data from an adjacent property indicates that the groundwater flow direction in the vicinity is generally westerly with variation to the northwest and southwest. Geologic materials in the unsaturated zone between ground surface and the top of the aquifer are primarily silty sand, and the net precipitation in the area is approximately 11.84 inches annually (Converse, 1995a; Converse 1995b; SPGIT, 2014; DTSC, 2015; WRCC, 2015).

4.2.2 Groundwater Targets

The Arnold Engineering site is located within a known groundwater contamination plume that exists both upgradient and downgradient of the site. In May 2015, DTSC completed a Site Screening of the Arnold Engineering site for EPA. It was determined, with respect to the regional groundwater flow, that the site is situated upgradient from several municipal supply wells that have been identified with elevated concentrations of VOCs, including PCE and TCE (DTSC, 2015; SPGIT, 2014).

There are at least 25 drinking active water wells within 4 miles of the Arnold Engineering site. The nearest drinking water well to the site is Kimberly Well 01A, operated by the City of Fullerton. The well is located approximately 1,010 feet to the northwest (DTSC, 2015; GeoTracker, 2016; WESTON, 2017).

The City of Fullerton operates a drinking water system that consists of 11 active wells serving approximately 138,251 people. The City of Fullerton obtains its drinking water from groundwater from the Orange County Groundwater Basin and from surface water imported by the Metropolitan Water District of Southern California (MWD). The City is separated into three areas that are defined by the source of water likely to be provided. Area 1 receives primarily groundwater, Area 2 receives a mixture of groundwater and imported water, and Area 3 receives primarily imported water. The site lies within Area 1, which is primarily served by groundwater. Ten of the 11 groundwater wells operated by the City of Fullerton are within 4 miles of the site.

The City of Fullerton Kimberly 02 well, located approximately 2,822 feet to the northeast of the site, has exhibited elevated concentrations of PCE and TCE. PCE was first reported in the well in January 1986 at a concentration of 1.2 µg/L. In September 1988, a maximum concentration of 4.7 µg/L of PCE was detected in the well. The Maximum Contaminant Level (MCL) for PCE is 5.0 µg/L. The latest available data from the Kimberly 02 well showed a PCE concentration of 0.6 µg/L in June 2014. TCE was first reported in the Kimberly 02 well in April 1986 at a concentration of 0.7 µg/L. The maximum concentration of TCE was detected in July 1989 at 3.2 µg/L. The MCL for TCE is 5.0 µg/L. TCE has not been detected in the drinking water well since January 1993. Additional wells operated by the City of Fullerton (Kimberly Well 01 and Fire Station Well 13) have historically had elevated concentrations of PCE and TCE and have been abandoned (CDPH,

2014a; CDPH, 2014b; CDPH, 2016a; CDPH, 2016b; Fullerton, 2015; DTSC, 2015; GeoTracker, 2016).

The City of Anaheim operates a drinking water system that consists of 17 active wells and one stand-by well serving approximately 350,000 people. The City of Anaheim's water supply is a blend of groundwater and surface water imported by MWD. Approximately 76 percent of the system is supplied by groundwater wells; the remaining 24 percent is imported surface water. Nine of the 18 wells operated by the City of Anaheim are within 4 miles of the site (Anaheim, 2015; GeoTracker, 2016).

The Golden State Water Company – Placentia system operates a drinking water system that consists of five active wells serving approximately 46,543 people. The Golden State Water Company – Placentia system's water supply is a blend of groundwater and surface water imported by MWD. Approximately 55.3 percent of the system is supplied by groundwater wells; the remaining 44.7 percent is imported surface water. Four of the five wells operated by the Golden State Water Company – Placentia system are within 4 miles of the site (GSWC, 2015; GeoTracker, 2016; AppendixC-1).

The City of Orange Water Division (COWD) operates a drinking water system that consists of 15 active wells serving approximately 139,463 people. The City of Orange's water supply is a blend of groundwater and surface water imported by MWD. Approximately 71.1 percent of the system is supplied by groundwater wells; the remaining 28.9 percent is imported surface water. One of the 15 wells operated by the City of Orange is within 4 miles of the site (COWD, 2014; GeoTracker, 2016; Appendix C-2).

The Page Avenue Mutual Water Company operates a drinking water system that consists of one active drinking well serving approximately 115 people. All of the Page Avenue Mutual Water Company's water supply is from groundwater. The one well operated by Page Avenue Mutual Water Company is within 4 miles of the site (GeoTracker, 2016).

4.2.3 Groundwater Pathway Conclusion

The Arnold Engineering site is located within a known groundwater contamination plume with elevated concentrations of VOCs, including PCE, TCE, 1,1-DCE, and 1,1,1-TCA. Soil sampling conducted on the site has shown detectable concentrations of PCE, TCE, 1,1-DCE, and 1,1,1-TCA in onsite soils. Reportedly, historical operations included the use of VOCs, including PCE, TCE and 1,1,1-TCA. Based on the historical operations and soil sampling conducted on the site, there is the potential that the Arnold Engineering site may be contributing to the contaminated groundwater plume in the vicinity of the site. Groundwater beneath the site is estimated to be 114 feet bgs. Geologic materials in the unsaturated zone between ground surface and the top of the aquifer are primarily silty sand. There are at least 25 drinking water wells within 4 miles of the site (Converse, 1995a; Converse, 1995b; DTSC, 2015; Reynolds, 2009b; SCAQMD, 1977; WESTON, 2017).

4.3 Surface Water Pathway

To determine the score for the surface water pathway, the HRS evaluates: 1) the likelihood that sources at a site actually have released, or potentially could release, hazardous substances to surface water (e.g., streams, rivers, lakes, and oceans); 2) the characteristics of the hazardous substances that are available for a release (i.e., toxicity, persistence, bioaccumulation potential, and quantity); and 3) the people or sensitive environments (targets) who actually have been, or potentially could be, impacted by the release. For the targets component of the evaluation, the HRS focuses on drinking water intakes, fisheries, and sensitive environments associated with surface water bodies within 15 miles downstream of the site.

Surface water runoff from the Arnold Engineering site is expected to flow from the paved surfaces at the site into curbside municipal stormwater drains located along adjacent public roadways and easements. The nearest surface water body to the site is the Carbon Creek flood control channel, which is located approximately 0.25 mile southeast. Carbon Creek flows in a southwesterly direction and joins Coyote Creek before flowing into the San Gabriel River. There are no surface water intakes, fisheries, or sensitive environments associated with the San Gabriel River downstream of the site (Google, 2015; DTSC, 2015; SPGIT, 2014).

4.4 Soil Exposure and Air Migration Pathways

In determining the score for the soil exposure pathway, the HRS evaluates: 1) the likelihood that there is surficial contamination associated with the site (e.g., contaminated soil that is not covered by pavement or at least 2 feet of clean soil); 2) the characteristics of the hazardous substances in the surficial contamination (i.e., toxicity and quantity); and 3) the people or sensitive environments (targets) who actually have been, or potentially could be, exposed to the contamination. For the targets component of the evaluation, the HRS focuses on populations that are regularly and currently present on or within 200 feet of surficial contamination. The four populations that receive the most weight are residents, students, daycare attendees, and terrestrial sensitive environments.

In determining the score for the air migration pathway, the HRS evaluates: 1) the likelihood that sources at a site actually have released, or potentially could release, hazardous substances to ambient outdoor air; 2) the characteristics of the hazardous substances that are available for a release (i.e., toxicity, mobility, and quantity); and 3) the people or sensitive environments (targets) who actually have been, or potentially could be, impacted by the release. For the targets component of the evaluation, the HRS focuses on regularly occupied residences, schools, and workplaces within 4 miles of the site. Transient populations, such as customers and travelers passing through the area, are not counted.

As of August 2016, there were no residences, schools, daycare facilities, or terrestrial sensitive environments located on the Arnold Engineering site. The total number of employees working at the site is not known (Appendix B; Google, 2015; SPGIT, 2014).

5.0 REMOVAL EVALUATION CONSIDERATIONS

The National Contingency Plan [40 Code of Federal Regulations (CFR) 300.415 (b) (2)] authorizes EPA to consider emergency response actions at those sites that pose an imminent threat to human health or the environment. For the following reasons, a referral to Region 9's Emergency Response Office does not appear to be necessary:

- As of August 2016, there were no residences, schools, daycare facilities, or terrestrial sensitive environments located on the Arnold Engineering site. No sensitive environments were located on the site, and the surface of the site was entirely covered in pavement or buildings (Appendix B; SPGIT, 2014; Google, 2015).

6.0 SUMMARY

The Arnold Engineering site is located at 1551 East Orangethorpe Avenue, Fullerton, California. The site occupies approximately 12.27 acres in an urban industrial area on Orange County Assessor Parcel Number 073-110-66. As of March 2015, the site was occupied by a single 246,122-square foot building. Historically, two clarifiers were located along the eastern portion of the building, but were removed in 1994.

Since approximately 1960 to 1993, Arnold Engineering operated at the site. Operations included the manufacturing of aerospace structures for the commercial and military aerospace industry, including machine part components, sheet metal components, bench assemblies, large complex structures, and ground support equipment. Historical operations included the use of volatile organic compounds (VOCs), including tetrachloroethylene (PCE), trichloroethylene (TCE), and 1,1,1-trichloroethane (1,1,1-TCA).

The site is listed as a Small Generator (CAT000624668) in the RCRIS database. The site is listed in the Department of Toxic Substances Control (DTSC) Envirostor database (Envirostor ID: 60002048) as an "Evaluation" site that has been active as of August 12, 2014. The site has an additional listing in the DTSC Envirostor database as "Fullerton Business Park-North" (Envirostor ID: 60000728) and is listed as an "Evaluation" site that was referred to a local agency as of July 24, 2007. The Arnold Engineering site is listed in the Regional Water Quality Control Board (RWQCB) GeoTracker database (GeoTracker ID: SLT8R2213999) as a 'Cleanup Program Site' that was closed as of December 19, 1995.

In 1994, the clarifiers located in the eastern portion of the warehouse were removed under Orange County Health Care Agency (OCHCA) oversight. Sampling was conducted and analytical results indicated the presence of VOCs, including TCE and PCE in onsite soil. Under the oversight of OCHCA, a soil vapor extraction (SVE) system was installed onsite and operated intermittently between 1995 and 2011. As of 2011, no work was being conducted at the site due to a lawsuit between the site owner and their contractor.

The following pertinent Hazard Ranking System factors are associated with the site:

- The Arnold Engineering site is located within a known groundwater contamination plume that has shown elevated concentrations of VOCs, including PCE, TCE, 1,1-dichloroethene (1,1-DCE), and 1,1,1-TCA. Soil sampling conducted on the site has shown detectable concentrations of PCE, TCE, 1,1-DCE, and 1,1,1-TCA in onsite soils. Reportedly, historical operations involved the use of VOCs, including PCE, TCE, and 1,1,1-TCA. Based on the historical operations and soil sampling conducted on the site, there is the potential that the Arnold Engineering site may be contributing to the contaminated groundwater plume in the vicinity of the site.
- Groundwater beneath the site is estimated to be 114 feet below ground surface (bgs). Geologic materials in the unsaturated zone between ground surface and the top of the

aquifer are primarily silty sand. There are at least 25 drinking water wells within 4 miles of the site.

- Surface water runoff is expected to flow from the paved surfaces at the site into curb municipal stormwater drains along adjacent public roadways. The nearest surface water body to the site is the Carbon Creek flood control channel, which is located approximately 0.25 mile southeast. Carbon Creek flows in a southwesterly direction and joins Coyote Creek before flowing into the San Gabriel River. There are no surface water intakes, fisheries, or sensitive environments associated with the San Gabriel River downstream of the site.
- As of August 2016, there were no residences, schools, daycare facilities, or terrestrial sensitive environments located on the Arnold Engineering site. The total number of employees working at the site is not known.

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Appendix A:
Latitude and Longitude Calculations Worksheet

Latitude and Longitude Calculation Worksheet (7.5' quads)
Using an Engineer's Scale (1/50)

Site Name Arnold Engineering **CERCLIS #** CAN000903036

AKA

Address 1551 East Orangethorpe Avenue

City Fullerton **State** CA **ZIP** 92831

Site Reference Point Aerial – geometric center of site

USGS Quad Name **Scale**

Township **Range** **Section** 3 3 3

Map Datum ☐ 1927 ☐ 1983 **(Check one)** **Meridian**

Map coordinates at southeast corner of 7.5' quadrangle (attach photocopy)

Latitude E > **AN** **Longitude** E > **AW**

Map coordinates at southeast corner of 2.5' grid cell

Latitude E > **AN** **Longitude** E > **AW**

Calculations

LATITUDE(x)

A) Number of ruler graduations between 2.5' (150") grid lines **(a)**

B) Number of ruler graduations between south grid line and the site reference point **(b)**

C) Therefore, a/150 = b/x, where **x= Latitude in decimal seconds, north of the south grid line**

Expressed as minutes and seconds (1' = 60") = E > AN

Add to grid cell latitude = E > AN + E > AN

Site latitude = 33 º 51 ' 40 " N

LONGITUDE(y)

A) Number of ruler graduations between 2.5' (150") grid lines **(a)**

B) Number of ruler graduations between south grid line and the site reference point **(b)**

C) Therefore, a/150 = b/x, where **x= Longitude in decimal seconds, west of the east grid line**

Expressed as minutes and seconds (1" = 60") = E > AW

Add to grid cell longitude = E > AN + E > AN

Site longitude = 117 º 54 ' 03 " W

Appendix B:
Site Reconnaissance Interview and Observation Report/ Photographic Documentation

SITE RECONNAISSANCE INTERVIEW AND OBSERVATIONS REPORT/PHOTOGRAPHIC DOCUMENTATION

Date: **August 2016**
Site Name: **Arnold Engineering**
EPA ID No.: **CAN000900306**

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On August 8, 2016, WESTON and Kim Hoang (US EPA) conducted a site visit of the Arnold Engineering Site at 1551 E. Orangethorpe Avenue, in Fullerton, CA. WESTON and Ms. Hoang met with John Wall, the facility's Risk Management Director.

According to Mr. Wall, the facility is owned by US Aluminum Corporation, a subsidiary of International Aluminum Corporation, headquartered in Texas. The property consists of a brick-steel building on a predominantly paved lot. The floors of the facility are concrete, and have likely been resurfaced.

The facility currently operates as a manufacturer of vinyl and aluminum windows. Activities at the site include vinyl extrusion, glass cutting, aluminum painting/coating, which includes a caustic wash process. Hazardous materials at the site include liquid paint in the aluminum painting line, chromium phosphate and hydrofluoric acid associated with the caustic wash process, and cutting/hydraulic oils associated with the various manufacturing processes across the facility.

According to Mr. Wall, the facility operated primarily as an equipment area for California Custom Extrusions (owned by US Aluminum). In 2011, California Custom Extrusions consolidated manufacturing equipment from its Southgate and Vernon facilities, and began manufacturing aluminum and vinyl windows at this site. Mr. Wall stated that his company has never stored or used chlorinated solvents on the facility.

Evidence of the previous activities is present throughout the facility. There are blocked floor drains and abandoned borings visible in the un-refinished concrete floors. The aboveground piping and manifold from the now-dismantled, vapor-extraction system can still be seen mounted on the walls inside and outside the facility. In addition, there are several soil gas and monitoring wells on the site. None of these wells are currently being sampled.

Site: Arnold Engineering
Photograph No.: 1 **Date:** 8-09-2016
Direction: North **Photographer:** Ben Castellana
Subject: Newer, tilt-up portion of the building located on the southern face.

Site: Arnold Engineering
Photograph No.: 2 **Date:** 8-09-2016
Direction: Northwest **Photographer:** Ben Castellana
Subject: The older portion of the building is brick-steel construction. The yard is completely paved, with a functioning storm drain system. While raw materials (aluminum and vinyl materials) are stored in the yard, no hazardous materials are stored outside the building.

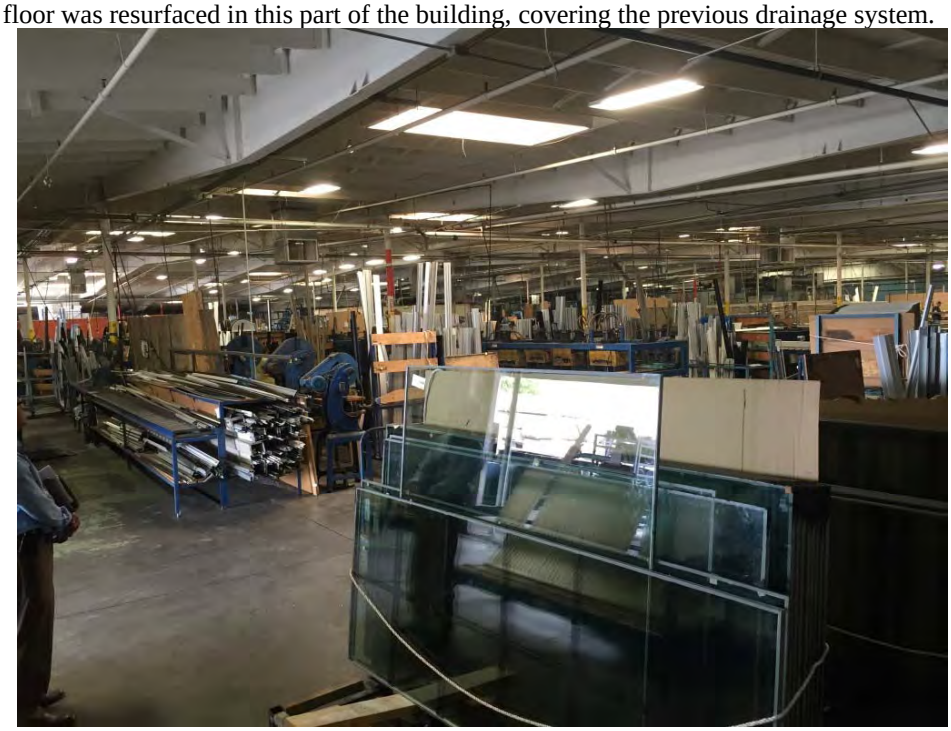
This document was prepared by Weston Solutions, Inc., expressly for EPA. It shall not be released or disclosed in whole or in part without the express written permission of EPA.

Site: Arnold Engineering
Photograph No.: 3 **Date:** 8-09-2016
Direction: West **Photographer:** Ben Castellana
Subject: Aluminum stock storage in the yard, along the east side of the building. The white PVC pipes in the background are the remains of the soil vapor extraction manifold.

Site: Arnold Engineering
Photograph No.: 4 **Date:** 8-09-2016
Direction: North **Photographer:** Ben Castellana
Subject: Monitoring well in the yard behind the facility.

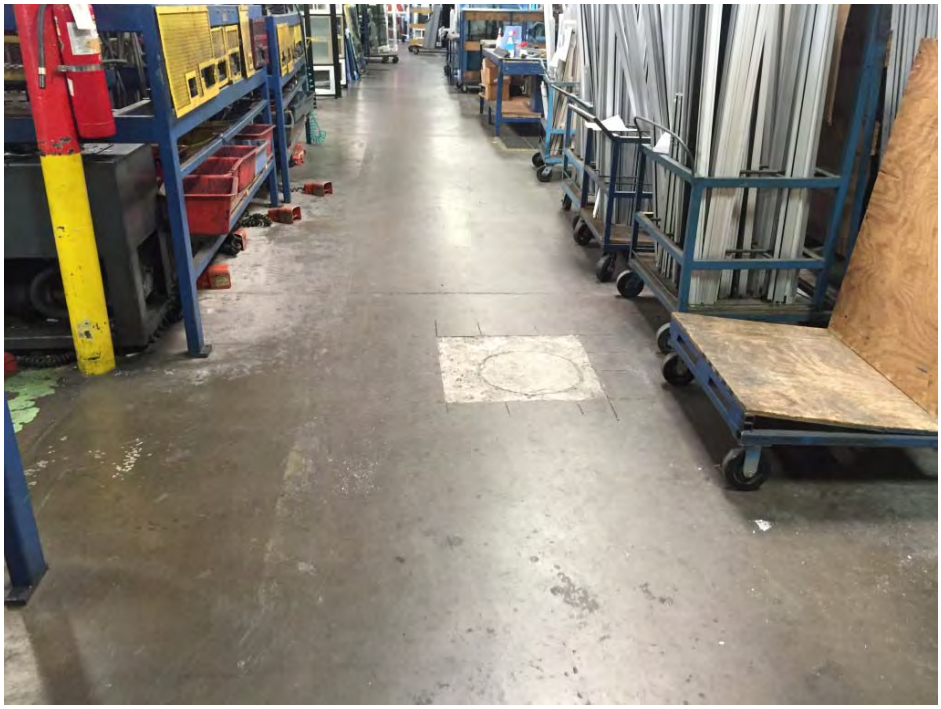
This document was prepared by Weston Solutions, Inc., expressly for EPA. It shall not be released or disclosed in whole or in part without the express written permission of EPA.

Site: Arnold Engineering
Photograph No.: 5 **Date:** 8-09-2016
Direction: North **Photographer:** Ben Castellana
Subject: Remnants of the soil vapor extraction system in the glass fabrication area in the northern part of the facility. The floor was resurfaced in this part of the building, covering the previous drainage system.



Site: Arnold Engineering
Photograph No.: 6 **Date:** 8-09-2016
Direction: Southwest **Photographer:** Ben Castellana
Subject: A view of the frame manufacturing floor in the center of the facility.

This document was prepared by Weston Solutions, Inc., expressly for EPA. It shall not be released or disclosed in whole or in part without the express written permission of EPA.



Site: Arnold Engineering
Photograph No.: 7 **Date:** 8-09-2016
Direction: Southwest **Photographer:** Ben Castellana
Subject: An abandoned boring (or well) in the floor of the frame manufacturing area in the center of the facility.

Site: Arnold Engineering
Photograph No.: 8 **Date:** 8-09-2016
Direction: South **Photographer:** Ben Castellana
Subject: The caustic wash bath where aluminum parts are pre-treated before painting. The caustic wash includes a chromium phosphate coating applied using a hydrofluoric acid accelerator.

This document was prepared by Weston Solutions, Inc., expressly for EPA. It shall not be released or disclosed in whole or in part without the express written permission of EPA.

Site: Arnold Engineering
Photograph No.: 9 **Date:** 8-09-2016
Direction: South **Photographer:** Ben Castellana
Subject: A wider view of the caustic wash area, where aluminum parts are prepped for painting.

Site: Arnold Engineering
Photograph No.: 10 **Date:** 8-09-2016
Direction: Southwest **Photographer:** Ben Castellana
Subject: The paint mixing room.

This document was prepared by Weston Solutions, Inc., expressly for EPA. It shall not be released or disclosed in whole or in part without the express written permission of EPA.

Site: Arnold Engineering
Photograph No.: 11 **Date:** 8-09-2016
Direction: South **Photographer:** Ben Castellana
Subject: The paint storage room with secondary containment.

This document was prepared by Weston Solutions, Inc., expressly for EPA. It shall not be released or disclosed in whole or in part without the express written permission of EPA.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

July 13, 2016

VIA FEDEX

Mr. Dominick Baione
Universal Molding Company
10807 Stanford Avenue
Lynwood, CA 90262

Subject: Arnold Engineering
1551 East Orangethorpe Avenue
Fullerton, CA 92831
CERCLIS EPA ID Number: CAN000900306

Dear Mr. Baione:

The U.S. Environmental Protection Agency (EPA) is conducting a Preliminary Assessment of the subject site pursuant to its response and enforcement responsibilities under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. §9601 et seq. The Preliminary Assessment is being conducted in order to determine if the subject facility could be associated with localized groundwater contamination.

The Preliminary Assessment calls for an EPA Site Assessment Manager, along with a designated field support contractor employed by Weston Solutions, Inc., to collect on-site and off-site photographs and conduct a "site walk" with a site representative. EPA and its representatives (contractors and State) will be conducting the site-walks at various sites in the area on August 4th and 5th. This letter requests that you provide EPA access to your property on one of these two days, depending on our mutual logistical constraints. A specific two hour window for your property will be scheduled with you or your designee and the EPA contracted Project Manager.

The EPA is taking the above action because of its responsibility to respond to contaminated sites under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. Section 9601. Section 104(e)(4)(A) of CERCLA specifically gives EPA a right to access private property, specifically providing that "any officer, employee, or representative is authorized to inspect and obtain samples from any vessel, facility, establishment, or other place or property or from any location of any suspected hazardous

substance or pollutant or contaminant." Failure to grant access to the EPA may result in a civil penalty of up to thirty-seven thousand, five hundred dollars ($37,500.00) per day of denied access.

Please note that sampling will not take place during this visit and will only be conducted if the information collected on the site is not sufficient to complete the Preliminary Assessment Report. If sampling is deemed necessary, EPA will notify you and coordinate the sampling effort with the site owner and/or operator as necessary to ensure that the data can be collected with a minimal impact on facility operations. When the Preliminary Assessment is completed, EPA will provide you with a copy of the Preliminary Assessment Report.

EPA respectfully requests that you sign and date the attached Consent for Access form and mail it using the pre-stamped envelope by July 26, 2016.

If you have any questions regarding the Preliminary Assessment, please contact me at (415) 972-3147 or Hoang.Kim@EPA.GOV, or contact Bethany Dreyfus of our Office of Regional Counsel at (415) 972-3886 or Dreyfus.Bethany@epa.gov. Logistical questions, including specific time and date for the subject visit, should be directed to either me or preferably our contractor designee, Christina Marquis with Weston Solutions at (818) 350-7308 or Christina.Marquis@WestonSolutions.com.

Sincerely,

Kim Hoang
Site Assessment Manager

Encl: Access Agreement w/ stamped envelope

cc: Christina Marquis, Project Manager, Weston Solutions, Inc.
Rafat Abbasi, CA Department of Toxic Substances Control

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

CONSENT FOR ACCESS
Arnold Engineering Facility

Property: 1551 East Orangethorpe Avenue
Fullerton, CA 92831
Assessor Parcel Number(s): 033-093-18
EPA ID Number: CAN000900306

I consent to officers, employees, contractors, and authorized representatives of the United States Environmental Protection Agency (EPA) entering and having continued access to the above-referenced Property for a Site-walk with photographs.

I realize that these actions taken by EPA are undertaken pursuant to its response and enforcement responsibilities under the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §9601 et seq.

This written permission is given by me voluntarily, on behalf of myself and all other co-owners of this property, with knowledge of my right to refuse and without threats or promises of any kind.

7/25/2016
Date

Signature

John Wall - Risk Manager
Print name, title

Please return this form using the pre-addressed and stamped envelope provided.

Appendix C:
Contact Log
and
Contact Reports

CONTACT LOG

SITE: Arnold Engineering
EPA ID: CAN000900306

NAME	AFFILIATION	CONTACT	DATE	INFORMATION
Dawn White	Golden State Water Company	Dawn.White@gswater.com	2/11/2016	See Contact Report 1
Robert C. Baehner	City of Orange	(714) 288-2475	2/25/16	See Contact Report 2

CONTACT REPORT 1

AGENCY/AFFILIATION: Golden State Water Company		
DEPARTMENT: Placentia CSA		
ADDRESS/CITY: 500 Cameron Street, Placentia		
COUNTY/STATE/ZIP: Orange County, California, 92870		
CONTACT(S)	TITLE	EMAIL
Dawn White		Dawn.White@gswater.com
PERSON MAKING CONTACT: Kim Hoang		DATE: 2/11/2016
SUBJECT: Drinking water well information		
SITE NAME: Arnold Engineering		EPA ID NO.: CAN000900306

Here is the information using 2015 supply production:

Placentia System			2015 Population	Population by source
	2015 AF	% of Total	46,643	
Bradford #3	270.5	4.5%		2,106
Bradford #4	1,248.5	20.9%		9,710
La Jolla #2	1,093.3	18.3%		8,501
Ruby #1	566.3	9.5%		4,403
Orangethorpe #1	130.5	2.2%		1,016
OC #37 (Placentia)	2,434.3	40.7%		18,927
OC #58 (Placentia)	241.6	4.0%		1,878
Sub-Total	5,966.3			46,643

CONTACT REPORT 2

AGENCY/AFFILIATION: City of Orange		
DEPARTMENT: Water Division		
ADDRESS/CITY: 189 South Water Street, Orange		
COUNTY/STATE/ZIP: Orange County, California, 92866		
CONTACT(S)	TITLE	EMAIL
Robert C. Baehner	Assistant Water Manager	bbaehner@cityoforange.org
PERSON MAKING CONTACT: Kim Hoang		DATE: 2/25/16
SUBJECT: Drinking water well information		
SITE NAME: Arnold Engineering		EPA ID NO.: CAN000900306

Current population that we are using is 139,463. There are 15 active wells and one inactive well. The wells provide approximately 71.1% (20,371.7 AF) to the entire system, and imported surface water provides approximately 28.9% (8,271.5 AF) to the entire system.

The percent contributions for the four wells within the target limit are as follows:

Well 8 = 5%
Well 9 = 4%
Well 15 = 4%
Well 21 = 10%

Since the City's water system is almost completely integrated or intertied together, water from these wells could theoretically make it to just about all points in the system over time.

Appendix D:
Transmittal List

TRANSMITTAL LIST

Date: **June 2017**
Site Name: **Arnold Engineering**
EPA ID No.: **CAN000900362**

****

A copy of the Preliminary Assessment (PA) report for the above-referenced site should be sent to the following recipients:

Universal Molding Company
c/o Mr. Dominick Baione
10807 Stanford Avenue
Lynwood, CA 90262

John Wall
9151 East Imperial Highway
Downey, CA 90242

John Scandura
Department of Toxic Substances Control
5796 Corporate Avenue
Cypress, California 90630

Nick Amini
Santa Ana Regional Water Quality Control Board
3737 Main Street, Suite 500
Riverside, CA 92501

Dave Mark
Orange County Water District
18700 Ward Street
Fountain Valley, CA 92708

U.S. Environmental Protection Agency, Superfund Records Center
c/o Kim Hoang
USEPA - Superfund Division
75 Hawthorne Street, SFD-6-1
San Francisco, CA 94105

Appendix E:
References

Reference:
Anaheim, 2015

WATER QUALITY REPORT

2015

ANAHEIM

PUBLIC UTILITIES

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LETTER FROM THE GENERAL MANAGER

Dear Anaheim Water Customer:

Each day, Anaheim Public Utilities employees strive to provide you with high quality water, reliable service and competitive rates, which are among the lowest in Orange County. Here in California, we are currently in the fourth year of a severe drought. Although we have invested in regional storage and recycling facilities through our wholesale suppliers, our stored water levels continue to decrease, and the entire state of California has been mandated to conserve water by the Governor. Our target is to reduce water use by 20% across the city. This is achievable if we all do our part to reduce water use in our homes, businesses, and city facilities. Let us help you with rebates for efficient toilets, clothes washers, weather-based timers, rotating nozzles, or turf replacement. Our collective actions today to conserve will help avoid penalties and more dramatic mandates in the future.

Anaheim Public Utilities delivers service to more than 348,000 residents and 15,000 businesses within our 50-square-mile community, conducting more than 44,000 water quality tests throughout the year. We have our own water quality testing laboratory and treatment plant which provides drinking water that meets or surpasses all federal and state standards established by the U.S. Environmental Protection Agency and the State Water Resource Control Board.

The Water Quality Report provides an overview of water quality and the testing results from 2014. If you have any questions about your water quality, please call **714.765.4556** or email **WATERQUALITY@ANAHEIM.NET**. Thank you for allowing Anaheim Public Utilities to provide you with your essential water needs.

DUKKU LEE
General Manager
Anaheim Public Utilities

LET'S DO OUR PART

Did you know that over half of a household's water use is for outdoor irrigation? Each day, thousands of gallons of water are used for watering lawns and gardens. Anaheim Public Utilities has developed guidelines for reducing water usage by limiting the number of days sprinklers may operate. For more information, visit **WWW.ANAHEIM.NET/SAVEWATER**, or follow us on Facebook.

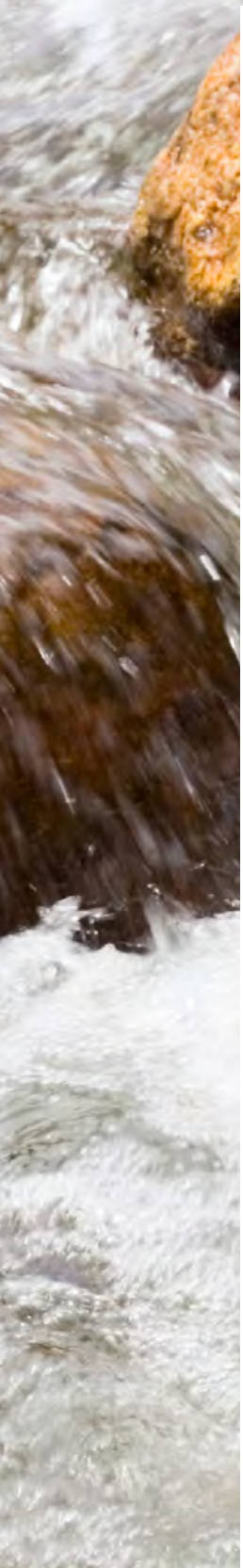
IN ADDITION TO THE NEW LANDSCAPE WATERING SCHEDULE, THE FOLLOWING MANDATORY WATER CONSERVATION MEASURES ARE IN EFFECT:

1. ADJUST LANDSCAPE WATERING TO ELIMINATE RUNOFF
2. USE A SHUT-OFF NOZZLE WHEN WASHING YOUR VEHICLE
3. USE A BROOM – NOT A HOSE – TO CLEAN DRIVEWAYS & PAVEMENT
4. TURN OFF FOUNTAINS THAT DO NOT USE A RECIRCULATING SYSTEM
5. RESTAURANTS MAY ONLY SERVE AND REFILL WATER, UPON REQUEST
6. HOTELS, MOTELS, AND OTHER COMMERCIAL LODGING ESTABLISHMENTS MUST DISPLAY NOTICES THAT LAUNDERING TOWELS AND LINENS DAILY IS OPTIONAL

WANT TO BE A WATER HERO? YOU CAN SHOW YOUR SUPPORT AND LET YOUR FRIENDS AND NEIGHBORS KNOW THAT YOU'RE DOING YOUR PART. GO TO **WWW.ANAHEIM.NET/SAVEWATER** AND CLICK ON THE WATER PLEDGE LINK, AND GET YOUR VERY OWN LET'S DO OUR PART WATER SAVING KIT* BY SHARING HOW YOU'RE CONSERVING WATER IN YOUR HOME OR BUSINESS. SHARE YOUR IDEAS AND LET OTHERS KNOW HOW THEY CAN SAVE WATER IN ANAHEIM!

*WHILE SUPPLIES LAST

LEARN MORE ABOUT THE DROUGHT HERE



ANAHEIM'S

SOURCES OF SUPPLY

ANAHEIM AND MORE THAN 20 CITIES AND RETAIL WATER DISTRICTS PUMP FROM THE GROUNDWATER BASIN TO PROVIDE WATER TO HOMES AND BUSINESSES.

WATCH HOW WATER GETS TO ANAHEIM

Anaheim's water supply is a blend of groundwater from our own wells, as well as water imported from Northern California and the Colorado River by the Metropolitan Water District of Southern California (MWD). Customers may also receive water from Anaheim's owned and operated Lenain Water Treatment Facility.

The source water for our wells is a natural aquifer that is replenished with water from the Santa Ana River, local rainfall, recycled, and imported water. Managed by the Orange County Water District, the groundwater basin is 350 square miles in area and lies beneath most of northern and central Orange County. Anaheim and more than 20 cities and retail water districts pump from the groundwater basin to provide water to homes and businesses.

BASIC INFORMATION ABOUT DRINKING WATER

The sources of drinking water (both tap water and bottled water) can include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of land or through layers of the ground, it dissolves naturally-occurring minerals and, in some cases, this may include radioactive material, and can pick up substances resulting from the presence of animal or human activity.

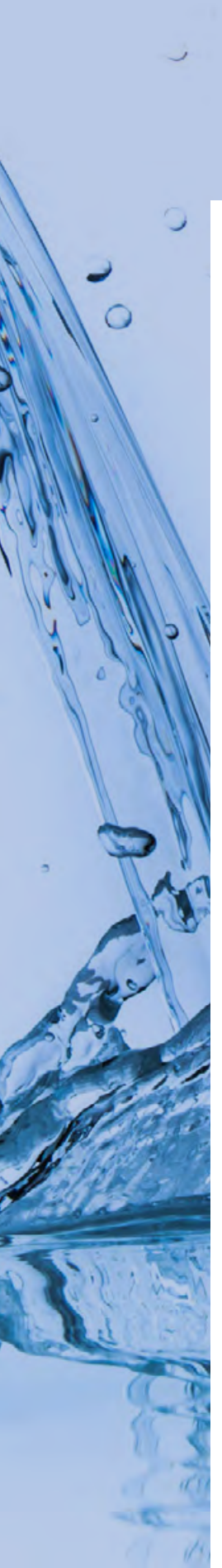
All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

In order to ensure that tap water is safe to drink, the U.S. Environmental Protection Agency (U.S. EPA) and the State Water Resource Control Board (State Board) prescribe regulations that limit the amount of certain contaminants in the water provided by public water systems. State Board regulations also establish limits for contaminants in bottled water that must provide the same protection for public health.

More information about contaminants and potential health effects can be obtained at **WATER.EPA.GOV/DRINK** or by calling the U.S. EPA's Safe Drinking Water Hotline at **800.426.4791**.

CONTAMINANTS THAT MAY BE PRESENT IN SOURCE WATER INCLUDE:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife
- Pesticides and herbicides, which may come from a variety of sources, such as agriculture, urban storm water runoff and residential uses
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining, and farming
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production. They can also come from gasoline stations, urban storm water runoff, agricultural application and septic systems
- Radioactive contaminants, which can be naturally occurring or the result of oil and gas production or mining activities



WATER QUALITY INFORMATION

THE EPA WOULD LIKE YOU TO KNOW

ABOUT LEAD IN TAP WATER

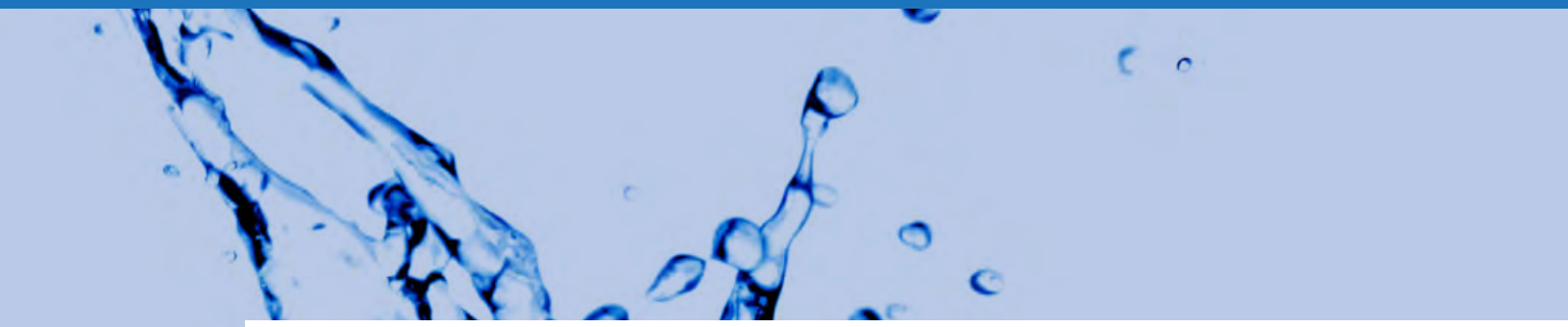
ANAHEIM PUBLIC UTILITIES IS RESPONSIBLE FOR PROVIDING HIGH-QUALITY DRINKING WATER, BUT CANNOT CONTROL THE VARIETY OF MATERIALS USED IN HOME PLUMBING COMPONENTS.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing.

Anaheim Public Utilities is responsible for providing high-quality drinking water, but cannot control the variety of materials used in home plumbing components.

When your water has been sitting for several hours, you can minimize the potential for lead exposure by running your tap for 30 seconds to two minutes before using it for drinking or cooking. If you are concerned about lead in your water, you may want to have it tested.

Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the U.S. EPA's Safe Drinking Water Hotline, **800.426.4791**, or online at **EPA.GOV/SAFEWATER/LEAD**.



IMMUNO COMPRIMISED PEOPLE

Some individuals may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people, such as persons with cancer undergoing chemo- therapy; those who have undergone organ transplants; those with HIV/AIDS or other immune system disorders; some elderly; and infants can be particularly at risk from infections.

These individuals or their caretakers should seek advice about drinking water from their health care providers.

The U.S. EPA/Centers for Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from **WATER.EPA.GOV/DRINK** or the Safe Drinking Water Hotline **800.426.4791**.

RADON ADVISORY

RADON IS A COLORLESS, ODORLESS GAS THAT IS FORMED FROM RADIOACTIVE DECAY OF URANIUM IN THE GROUND, WHICH IS FOUND THROUGHOUT THE U.S. IT CAN MOVE UP THROUGH THE GROUND AND INTO A HOME THROUGH CRACKS AND HOLES IN THE FOUNDATION.

Radon can build up to high levels in all types of homes and can get into indoor air when released from tap water during showering, dishwashing, and other household activities. Breathing air containing radon can lead to lung cancer. The radon entering a home through tap water, however, is negligible compared to the amount that can enter a home through soil.

The U.S. EPA Action Level for radon in indoor air is 4.0 picocuries per liter. Radon from your tap water contributes no more than 0.1 picocurie per liter in indoor air.

If you are concerned about radon in your home, test the air. If the level of radon is 4 picocuries per liter of air or higher, there are ways to address a radon problem that are cost effective.

For additional information, call the California radon program (**800.745.7236**), the U.S. EPA Safe Drinking Water Hotline (**800.426.4791**), or the National Safety Council Radon Hotline (**800.SOS.RADON**).

NEW REGULATION FOR HEXAVALENT CHROMIUM

IN JULY 2014 CALIFORNIA BECAME THE FIRST STATE IN THE NATION TO REGULATE HEXAVALENT CHROMIUM, ALSO KNOWN AS CHROME-6.

Previously, chrome-6 had been regulated as total chromium which includes other forms of the mineral. Chrome-6 can be present in water due to natural geologic conditions or from industrial pollution. In Orange County, groundwater often contains trace amounts of naturally occurring chrome-6 that are far below the new MCL. See the table containing water quality monitoring data for information on Anaheim's water.

WANT ADDITIONAL INFORMATION?

There is information on our website about your drinking water quality and water issues in general, visit **ANAHEIM.NET/UTILITIES** to learn more. Click on Public Utilities, then "Water Quality." Or, contact our water quality staff at **714.765.4556**.

WHAT ARE WATER
QUALITY STANDARDS?

Drinking water standards established by the U.S. EPA and State Water Resource Control Board set limits for substances that may affect consumer health or aesthetic qualities of drinking water. The chart in this report shows the following types of water quality standards:

MAXIMUM CONTAMINENT LEVEL (MCL):

The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the Public Health Goals (PHGs) or Maximum Contaminant Levels Goals (MCLGs) as is economically and technologically feasible.

MAXIMUM RESIDUAL DISINFECTANT LEVEL (MRDL):

The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

NOTIFICATIONS LEVEL (NL):

The level above which a water agency is required to notify its governing body if an unregulated contaminant is found in its drinking water.

PRIMARY DRINKING WATER STANDARD:

MCLs for contaminants that affect health, along with their monitoring and reporting requirements and water treatment requirements.

SECONDARY MCLS

Set to protect the odor, taste, and appearance of drinking water.

REGULATORY ACTION LEVEL (AL):

The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.

CITY OF ANAHEIM

WATER QUALITY

BASED ON 2014 DATA

Chemical	MCL	PHG (MCLG)	Groundwater Average Amount	Lenain Average Amount	MWD Average Amount	Range of Detections	Most Recent Sampling Date	Typical Source of Contaminant
Radiologicals								
Radon (pci/l)	Not Regulated	n/a	311	n/a	ND	ND - 319	2014	Soil Gas from Natural Deposits
Uranium (pci/l)	20	0.43	5.1	4.7	3.0	2.0 - 8.5	2014	Erosion of Natural Deposits
Gross Alpha (pci/l)	15	(0)	<3	ND	ND	ND - 3.8	2014	Erosion of Natural Deposits
Gross Beta (pci/l)	50(a)	(0)	n/a	n/a	5	ND - 6	2014	Decay of Natural or Man-made Deposits
Organic Chemicals								
Trichloroethylene (ppb)	5	1.7	<0.5	ND	ND	ND - 0.7	2014	Industrial Discharge
Inorganic Chemicals								
Aluminum (ppm)	1	0.6	ND	0.17	0.15	ND - 0.31	2014	Water Treatment Chemical
Arsenic (ppb)	10	0.004	<2	ND	ND	ND - 2.0	2014	Erosion of Natural Deposits
Barium (ppm)	1	2	<0.1	0.12	0.11	ND - 0.12	2014	Erosion of Natural Deposits
Chromium, Hexavalent (ppb)	10	0.02	<1	ND	ND	ND - 2.1	2014	Erosion of Natural Deposits
Fluoride (ppm)	2	1	0.44	0.33	0.8	0.29 - 1.0	2014	Erosion of Natural Deposits, Water Additive
Nitrate as NO3 (ppm)	45	45	12	ND	ND	ND - 19	2014	Fertilizers, Septic Tanks
Nitrate+Nitrite as N (ppm)	10	10	2.8	ND	ND	ND - 4.3	2014	Fertilizers, Septic Tanks
Secondary Standards*								
Aluminum (ppb)	200*	600	ND	170	150	ND - 310	2014	Water Treatment Chemical
Chloride (ppm)	500*	n/a	85	82	90	46 - 115	2014	Erosion of Natural Deposits
Color (units)	15*	n/a	ND	ND	1	ND - 1	2014	Natural Organic Materials
Odor (threshold odor number)	3*	n/a	ND	ND	2	ND - 2	2014	Naturally-occurring Organic Materials
Specific Conductance (mho/cm)	1,600*	n/a	900	919	984	654 - 1060	2014	Erosion of Natural Deposits
Sulfate (ppm)	500*	n/a	139	210	232	103 - 241	2014	Erosion of Natural Deposits
Total Dissolved Solids (ppm)	1,000*	n/a	562	600	625	444 - 651	2014	Erosion of Natural Deposits
Turbidity (ntu)	5*	n/a	0.06	0.04	ND	ND - 0.20	2014	Erosion of Natural Deposits
Unregulated Contaminants Requiring Monitoring								
Bicarbonate (as HCO3) (ppm)	Not Regulated	n/a	228	140	n/a	140 - 258	2014	Erosion of Natural Deposits
Boron (ppb)	NL=1,000	n/a	140	100	105	ND - 240	2014	Erosion of Natural Deposits

CITY OF ANAHEIM

WATER QUALITY

BASED ON 2014 DATA

Chemical	MCL	PHG (MCLG)	Groundwater Average Amount	Lenain Average Amount	MWD Average Amount	Range of Detections	Most Recent Sampling Date	Typical Source of Contaminant
Chromium, Total (ppb) (b)	50	n/a	n/a	<0.2	<0.2	ND - 0.5	2014	Erosion of Natural Deposits
Chromium, Hexavalent (ppb) (b)	10	0.02	n/a	0.03	0.04	ND - 2.1	2014	Erosion of Natural Deposits
Calcium (ppm)	Not Regulated	n/a	98	64	73	51 - 110	2014	Erosion of Natural Deposits
Dichlorodifluoromethane (ppb)	NL=1,000	n/a	<0.5	ND	ND	ND - 1.5	2014	Industrial Waste Discharge
Magnesium (ppm)	Not Regulated	n/a	18	26	26	16 - 27	2014	Erosion of Natural Deposits
pH (pH units)	Not Regulated	n/a	7.9	7.6	8.1	7.3 - 8.1	2014	Erosion of Natural Deposits
Potassium (ppm)	Not Regulated	n/a	4.1	4.4	4.6	3.3 - 4.9	2014	Erosion of Natural Deposits
Total Alkalinity (ppm as CaCO3)	Not Regulated	n/a	187	120	126	109 - 212	2014	Erosion of Natural Deposits
Total Hardness (grains/gal)	Not Regulated	n/a	19	16	17	14 - 21	2014	Erosion of Natural Deposits
Total Hardness (ppm as CaCO3)	Not Regulated	n/a	319	274	288	240 - 351	2014	Erosion of Natural Deposits
Total Organic Carbon (ppm)	Not Regulated	TT	0.32	2.4	2.6	ND - 2.9	2013	Various Natural and Man-made Sources
Chlorate (ppb)	NL = 800	n/a	n/a	222	124	21 - 380	2014	Byproduct of chlorine disinfection
Molybdenum (ppb)	Not Regulated	n/a	n/a	4.7	5.0	4.4 - 6.1	2014	Erosion of Natural Deposits
Strontium (ppb)	Not Regulated	n/a	n/a	1038	986	854 - 1120	2014	Erosion of Natural Deposits
Vanadium (ppb)	NL=50	n/a	4.1	2.5	2.6	2.2 - 5.6	2014	Erosion of Natural Deposits

ppm = Parts-per-million; **ppb** = parts-per-billion; **pCi/L** = picoCuries per liter; **NTU** = nephelometric turbidity units; **NL** = notification level; **n/a** = not applicable
ND = Not detected; < = average is less than the detection limit for reporting purposes; **MCL** = Maximum Contaminant Level; **MCLG** = federal MCL Goal; **PHG** = California Public Health Goal
mho/cm = Micromho per centimeter; **TT** = treatment technique; *Contaminant is regulated by a secondary standard to maintain aesthetic qualities (taste, odor, color).
(a) Gross Beta MCL = The State Board considers 50 pCi/L to be the level of concern. The official MCL is "4 millirem/year annual dose equivalent to the total body or any internal organ."
(b) UCMR3 (Federal Unregulated Contaminant Monitoring Rule / Phase 3) = Detection/reporting levels are much lower than current California regulatory detection/reporting level standards.

Turbidity – Treatment Plant Combined Filter Effluent	Treatment Technique	Turbidity Measurements	Sample Date	Typical Source of Contaminant
1 Highest single turbidity measurement	1 NTU	Lenain = 0.11 NTU	2014	Soil run-off
	1 NTU	MWD = 0.06 NTU	2014	Soil run-off
2 Percentage of samples less than 0.3 NTU	95%	Lenain = 100%	2014	Soil run-off
	95%	MWD = 100%	2014	Soil run-off

Turbidity is a measure of the cloudiness of the water, an indication of particulate matter, some of which might include harmful microorganisms. Low turbidity in the City of Anaheim's and Metropolitan's treated water is a good indicator of effective filtration. Filtration is called a "treatment technique." A treatment technique is a required process intended to reduce the level of contaminants in drinking water that are difficult and sometimes impossible to measure directly.

CITY OF ANAHEIM

WATER QUALITY

BASED ON 2014 DATA

Disinfection Byproducts	MCL (MRDL/MRDLG)	Average Amount	Range of Detections	Typical Source of Contaminant
Total Trihalomethanes (ppb)	80	Highest LRAA = 63	15 - 74	Byproducts of Chlorine Disinfection
Haloacetic Acids (ppb)	60	Highest LRAA = 16	2.4 - 20	Byproducts of Chlorine Disinfection
Chlorine Residual (ppm)	(4 / 4)	0.9	0.1 - 2.7	Disinfectant Added for Treatment
Aesthetic Quality				
Color (color units)	15*	ND	ND - 2	Erosion of Natural Deposits
Odor (threshold odor number)	3*	ND	ND - 1	Erosion of Natural Deposits
Turbidity (ntu)	5*	0.11	0.05 - 0.64	Erosion of Natural Deposits

Total trihalomethanes and haloacetic acids are tested quarterly at 12 locations. Chlorine residual disinfectant levels are tested weekly at 51 locations. Color, odor, and turbidity are tested quarterly at 11 locations. MRDL = Maximum Residual Disinfectant Level; MRDLG = Maximum Residual Disinfectant Level Goal; LRAA = Locational Running Annual Average; ND = not detected; ntu = nephelometric turbidity units; *Contaminant is regulated by a secondary standard to maintain aesthetic qualities (color, odor, clarity).

LEAD AND COPPER ACTION LEVELS AT RESIDENTIAL TAPS

	Action Level (AL)	Health Goal	90th Percentile Value	Sites Exceeding AL / Number of Sites	Typical Source of Contaminant
Lead (ppb)	15	0.2	ND<5	0 / 55	Corrosion of Household Plumbing
Copper (ppm)	1.3	0.3	0.17	0 / 55	Corrosion of Household Plumbing

Every three years, at least 50 residences are tested for lead and copper at-the-tap. The most recent set of samples was collected in 2012. Lead was detected in 3 samples; none exceeded the action level. Copper was detected in 27 samples; none exceeded the action level. The regulatory action level is the concentration which, if exceeded in more than ten percent of the homes tested, triggers treatment or other requirements that a water system must follow.

The City of Anaheim complied with the lead and copper action levels.

WHAT IS A

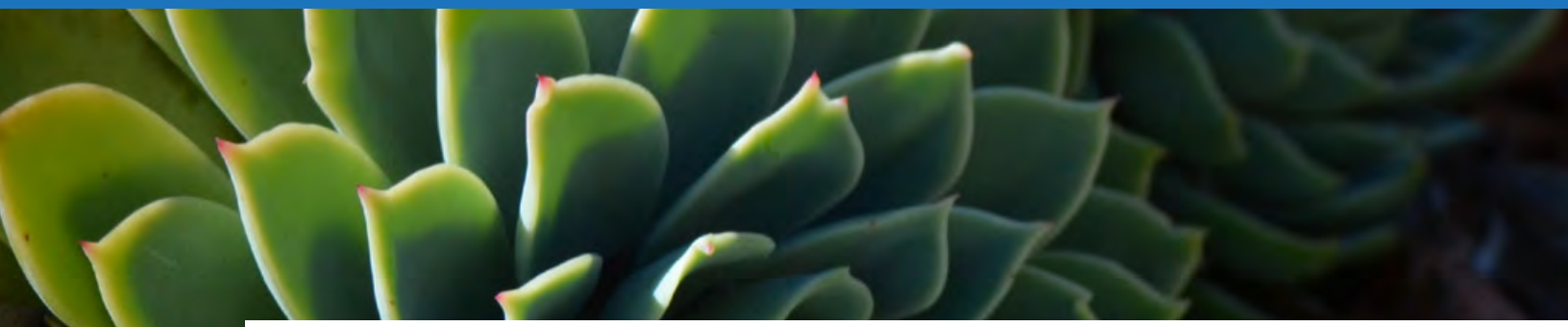
WATER QUALITY GOAL?

IN ADDITION TO MANDATORY WATER QUALITY STANDARDS, U.S. EPA AND CAL/EPA HAVE SET VOLUNTARY WATER QUALITY GOALS FOR SOME CONTAMINANTS. THE CHART IN THIS REPORT INCLUDES THREE TYPES OF WATER QUALITY GOALS:

1. MAXIMUM CONTAMINANT LEVEL GOAL (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by U.S. EPA.

2. MAXIMUM RESIDUAL DISINFECTANT LEVEL GOAL (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

3. PUBLIC HEALTH GOAL (PHG): The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.



SOURCE WATER ASSESSMENTS

IMPORTED WATER ASSESSMENT

The Metropolitan Water District of Southern California (MWD,) updated its source water assessment of the Colorado River and State Water Project supplies in 2012. Colorado River supplies are considered to be most vulnerable to recreation contamination, urban/storm water runoff, increasing urbanization, and wastewater. State Water Project supplies are considered to be most vulnerable to urban/storm water runoff, wildlife, agriculture, recreation and wastewater. A copy of the assessment can be obtained by contacting MWD by phone, at **213.217.6850**.

GROUND WATER ASSESSMENT

Anaheim has completed source water assessments of areas around each well and around the Walnut Canyon Reservoir, which provides imported water to the Lenain Water Treatment Facility. As in any urban area, Orange County's groundwater is considered potentially vulnerable to contamination from sources such as gas stations, dry cleaners, and industrial activities. To help prevent surface contamination of our wells, we seal the upper 400 to 500 feet of the well casing.

A copy of the complete assessment is available at the State Water Resources Control Board, Division of Drinking Water, 605 W. Santa Ana Boulevard, Building 28, Santa Ana, CA 92701. You may request a summary of the assessment by contacting the DPH Sanitary Engineer at **714.547.0430** or Anaheim's Environmental Services Division at **714.765.4277**.

CITY COUNCIL
PUBLIC UTILITIES BOARD

CITY COUNCIL

Tom Tait, Mayor
Lucille Kring, Mayor Pro Tem
Kris Murray, Council Member
Jordan Brandman, Council Member
James Vanderbilt, Council Member

Paul Emery, Interim City Manager

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David Wain, Board Member
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Lon Cahill, Board Member

Dukku Lee, Public Utilities General Manager

CONTACT

QUESTIONS ABOUT YOUR WATER? CONTACT US FOR ANSWERS

For information about this report or your water quality in general, please contact our Water Quality Laboratory at **714.765.4556**, or e-mail us at **waterquality@anaheim.net**. You may also address water quality and other utility issues by attending a Public Utilities Board meeting scheduled for 5 p.m. on the fourth Wednesday of each month, at Anaheim West Tower, 11th Floor Conference Room, Anaheim, California.

Contact the U.S. Environmental Protection Agency to learn more about the potential health effects of contaminants listed in this report, visit **water.epa.gov/drink** or call hotline at **800.426.4791.**

We comply with the *Americans with Disabilities Act*.

For this information in other formats, contact: **714.765.3300**, TTY **714.765.5125** or visit **anaheim.net/utilities**.

Este informe contiene informacion importante acerca del agua potable de Anaheim.
Para obtener un informe de la calidad del agua en espanol, llame por favor al 765-4151.
Mahalaga ang impormasyong ito. Mangyaring ipasalin ito.
此份有关你的食水报告,内有重要资料和讯息,请找 他人为你翻译及解释清楚。
Chi tiết này thật quan trọng. Xin nhờ người dịch cho quý vị.
이 안내는 매우 중요합니다. 본인을 위해 번역인을 사용하십시오.

Reference:
Arnold, 1970

OK 9/17/70 S.C.

1969 TRICHLOROETHYLENE SURVEY

Investigator Jarvi

FIRM Arnold Engr. Co.

ADDRESS 1551 E. Orangethorpe, Fullerton

DEGREASED P/O's #1253 (2 under one permit) plus two more new ones with no permit - will acquire ng

DATE 3-30-70 Don Farmer

1. Trichloroethylene (virgin) purchased. 250 gal/month
2. Amount returned for reclaim. 300 gal/month but 100 gal
3. Amount reclaimed trichloroethylene received.
4. Did you use other solvents? ~~[illegible]~~ trichloroethylene
5. Which ones? ~~[illegible]~~ trichloroethylene
6. How much of each? 3 gal/day

50 gal/mo ÷ 30 = 1.7 gal/day

Tri-clor used in 3
111 triclor in 2

NGSC55462

Reference:
Arnold, 1973

DEGREASER SURVEY

Firm: Arnold Engineering Co.

Address: 1551 E. Orangethorpe, Full-

Degreaser P/O: #1253, #70-2190, #70-2191, #70-2192

Date: 2-26-73

1. Type of Solvent: trichloroethane & trichloroethylene

2. Amount purchased (virgin): 2,720 gal + 1,590 gal

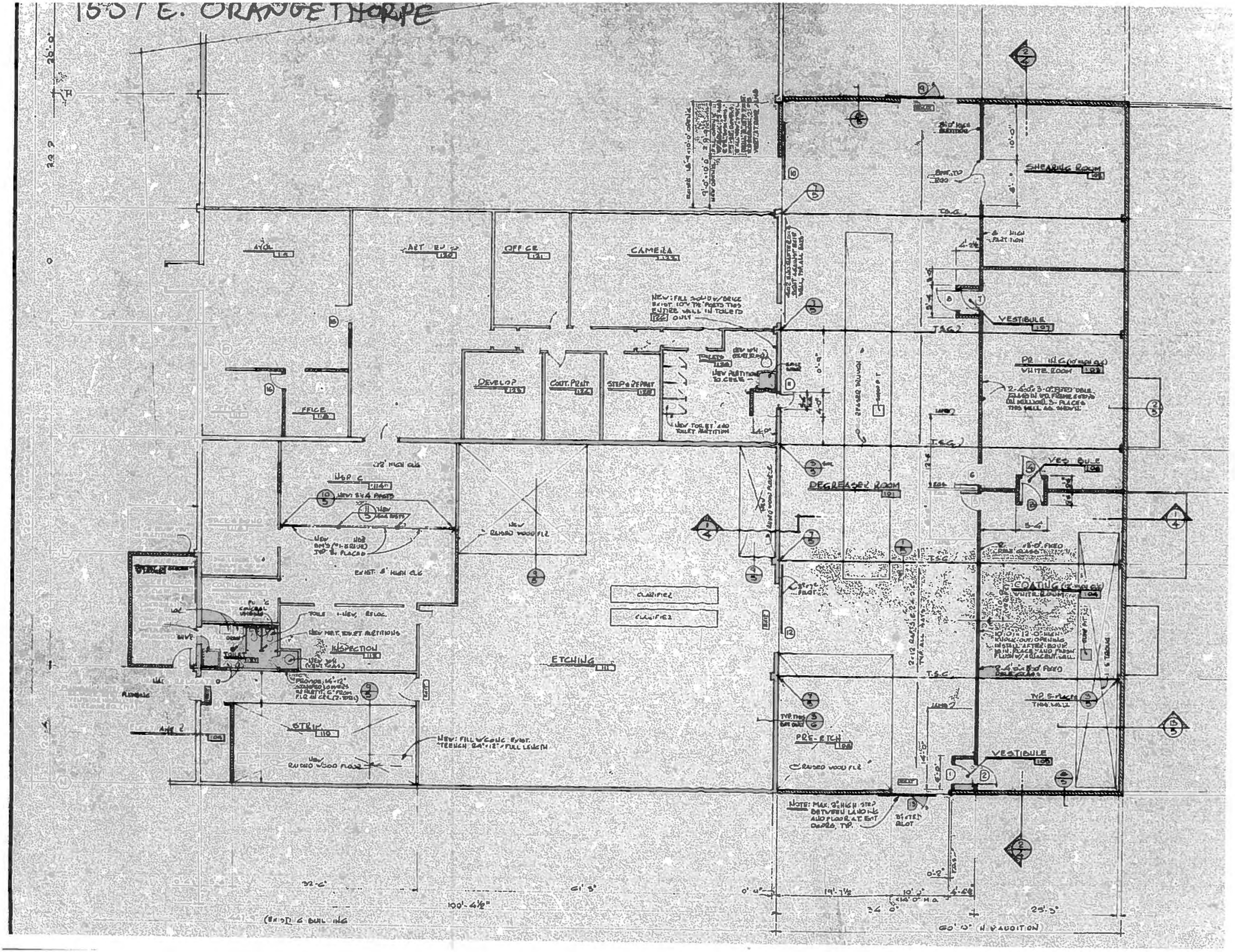
3. Amount returned for reclaim: 4200 gal + 550 gal

4. Amount of reclaimed solvent received: _____

NGSC55460

Reference:
Blueprint, undated

1551 E. ORANGETHORPE



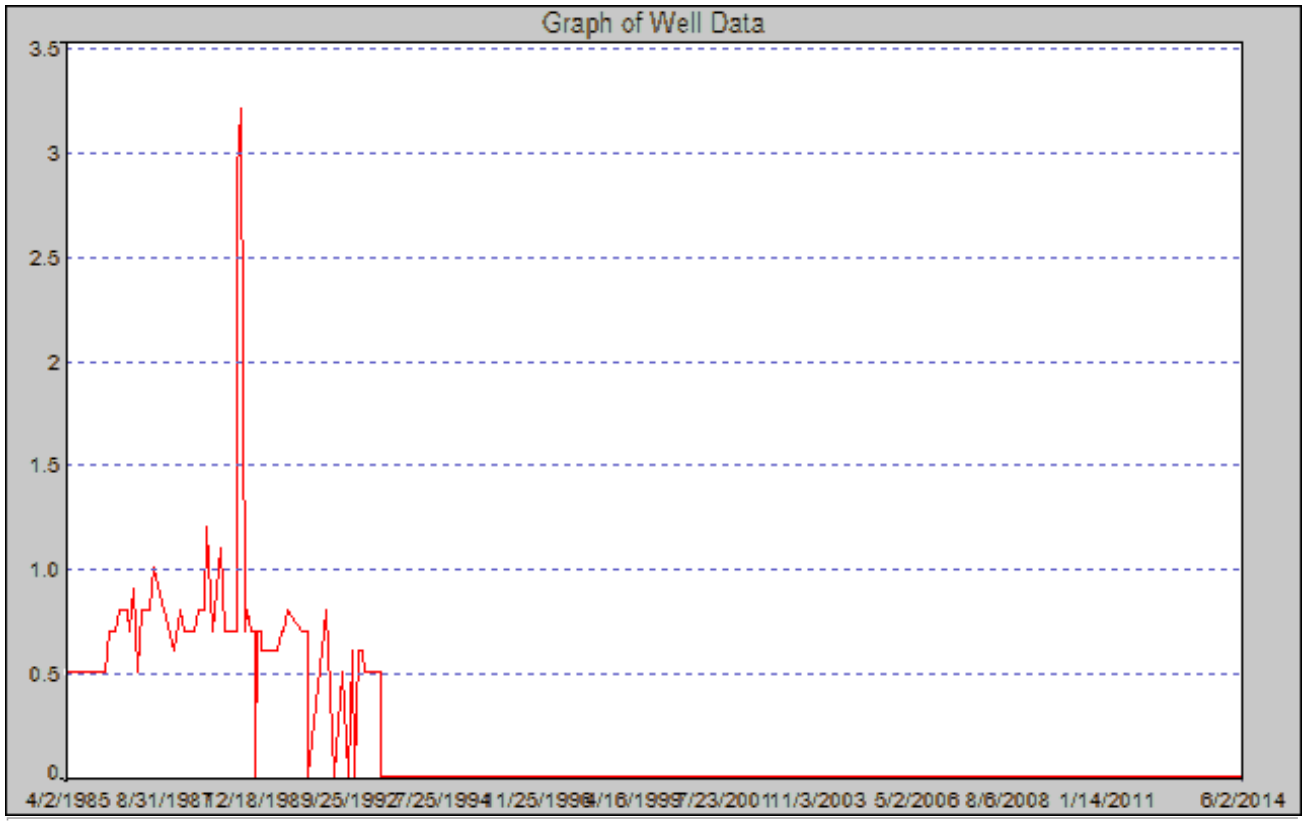
Reference:
CDPH, 2014a

Well Data Graph

CITY OF FULLERTON (FULLERTON)
KIMBERLY 02
303 W. Commonwealth
FULLERTON , CA 92832832

State Well #: 3010010-007
Well Source: Groundwater
Well Status: Active Raw

Well Details | Geographic Information | CDPH Water Quality Data | PWS Detailed Information



DATE	PARAMETER	RESULT	UNITS	MCL
6/2/2014	TRICHLOROETHYLENE	. 0	UG/L	5
2/11/2014	TRICHLOROETHYLENE	. 0	UG/L	5
11/7/2013	TRICHLOROETHYLENE	0	UG/L	5
8/13/2013	TRICHLOROETHYLENE	0	UG/L	5
5/8/2013	TRICHLOROETHYLENE	0	UG/L	5
2/13/2013	TRICHLOROETHYLENE	0	UG/L	5
10/29/2012	TRICHLOROETHYLENE	0	UG/L	5
8/15/2012	TRICHLOROETHYLENE	0	UG/L	5
5/16/2012	TRICHLOROETHYLENE	0	UG/L	5
2/21/2012	TRICHLOROETHYLENE	0	UG/L	5
11/7/2011	TRICHLOROETHYLENE	0	UG/L	5
8/1/2011	TRICHLOROETHYLENE	0	UG/L	5
5/19/2011	TRICHLOROETHYLENE	0	UG/L	5
3/1/2011	TRICHLOROETHYLENE	0	UG/L	5
1/14/2011	TRICHLOROETHYLENE	0	UG/L	5
8/25/2010	TRICHLOROETHYLENE	0	UG/L	5
6/1/2010	TRICHLOROETHYLENE	0	UG/L	5
3/1/2010	TRICHLOROETHYLENE	0	UG/L	5
11/3/2009	TRICHLOROETHYLENE	0	UG/L	5
8/5/2009	TRICHLOROETHYLENE	0	UG/L	5
5/5/2009	TRICHLOROETHYLENE	0	UG/L	5
2/4/2009	TRICHLOROETHYLENE	0	UG/L	5
11/4/2008	TRICHLOROETHYLENE	0	UG/L	5
8/6/2008	TRICHLOROETHYLENE	0	UG/L	5
5/5/2008	TRICHLOROETHYLENE	0	UG/L	5
2/5/2008	TRICHLOROETHYLENE	0	UG/L	5
11/6/2007	TRICHLOROETHYLENE	0	UG/L	5
8/1/2007	TRICHLOROETHYLENE	0	UG/L	5
5/8/2007	TRICHLOROETHYLENE	0	UG/L	5
2/14/2007	TRICHLOROETHYLENE	0	UG/L	5
11/6/2006	TRICHLOROETHYLENE	0	UG/L	5
8/3/2006	TRICHLOROETHYLENE	0	UG/L	5
5/2/2006	TRICHLOROETHYLENE	0	UG/L	5

2/6/2006	TRICHLOROETHYLENE	0	UG/L	5
11/2/2005	TRICHLOROETHYLENE	0	UG/L	5
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5/2/2005	TRICHLOROETHYLENE	0	UG/L	5
4/4/2005	TRICHLOROETHYLENE	0	UG/L	5
3/7/2005	TRICHLOROETHYLENE	0	UG/L	5
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1/5/2004	TRICHLOROETHYLENE	0	UG/L	5
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11/12/2002	TRICHLOROETHYLENE	0	UG/L	5
11/4/2002	TRICHLOROETHYLENE	0	UG/L	5
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7/10/2002	TRICHLOROETHYLENE	0	UG/L	5
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10/16/2000	TRICHLOROETHYLENE	0	UG/L	5
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5/23/2000	TRICHLOROETHYLENE	0	UG/L	5
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1/25/1999	TRICHLOROETHYLENE	0	UG/L	5
12/9/1998	TRICHLOROETHYLENE	0	UG/L	5
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9/28/1998	TRICHLOROETHYLENE	0	UG/L	5
8/31/1998	TRICHLOROETHYLENE	0	UG/L	5
7/27/1998	TRICHLOROETHYLENE	0	UG/L	5
6/29/1998	TRICHLOROETHYLENE	0	UG/L	5
5/28/1998	TRICHLOROETHYLENE	0	UG/L	5
4/27/1998	TRICHLOROETHYLENE	0	UG/L	5
3/30/1998	TRICHLOROETHYLENE	0	UG/L	5

1/26/1998	TRICHLOROETHYLENE	0	UG/L	5
11/25/1997	TRICHLOROETHYLENE	0	UG/L	5
10/27/1997	TRICHLOROETHYLENE	0	UG/L	5
9/29/1997	TRICHLOROETHYLENE	0	UG/L	5
8/25/1997	TRICHLOROETHYLENE	0	UG/L	5
7/28/1997	TRICHLOROETHYLENE	0	UG/L	5
6/30/1997	TRICHLOROETHYLENE	0	UG/L	5
5/27/1997	TRICHLOROETHYLENE	0	UG/L	5
4/28/1997	TRICHLOROETHYLENE	0	UG/L	5
3/31/1997	TRICHLOROETHYLENE	0	UG/L	5
2/24/1997	TRICHLOROETHYLENE	0	UG/L	5
1/27/1997	TRICHLOROETHYLENE	0	UG/L	5
11/25/1996	TRICHLOROETHYLENE	0	UG/L	5
10/28/1996	TRICHLOROETHYLENE	0	UG/L	5
9/30/1996	TRICHLOROETHYLENE	0	UG/L	5
8/26/1996	TRICHLOROETHYLENE	0	UG/L	5
7/29/1996	TRICHLOROETHYLENE	0	UG/L	5
4/24/1996	TRICHLOROETHYLENE	0	UG/L	5
3/25/1996	TRICHLOROETHYLENE	0	UG/L	5
2/27/1996	TRICHLOROETHYLENE	0	UG/L	5
1/29/1996	TRICHLOROETHYLENE	0	UG/L	5
1/2/1996	TRICHLOROETHYLENE	0	UG/L	5
11/27/1995	TRICHLOROETHYLENE	0	UG/L	5
10/30/1995	TRICHLOROETHYLENE	0	UG/L	5
9/25/1995	TRICHLOROETHYLENE	0	UG/L	5
8/28/1995	TRICHLOROETHYLENE	0	UG/L	5
7/31/1995	TRICHLOROETHYLENE	0	UG/L	5
6/26/1995	TRICHLOROETHYLENE	0	UG/L	5
5/30/1995	TRICHLOROETHYLENE	0	UG/L	5
3/27/1995	TRICHLOROETHYLENE	0	UG/L	5
2/28/1995	TRICHLOROETHYLENE	0	UG/L	5
1/11/1995	TRICHLOROETHYLENE	0	UG/L	5
11/28/1994	TRICHLOROETHYLENE	0	UG/L	5
10/31/1994	TRICHLOROETHYLENE	0	UG/L	5
9/26/1994	TRICHLOROETHYLENE	0	UG/L	5
7/25/1994	TRICHLOROETHYLENE	0	UG/L	5
4/26/1994	TRICHLOROETHYLENE	0	UG/L	5
3/28/1994	TRICHLOROETHYLENE	0	UG/L	5
2/28/1994	TRICHLOROETHYLENE	0	UG/L	5
1/31/1994	TRICHLOROETHYLENE	0	UG/L	5
12/29/1993	TRICHLOROETHYLENE	0	UG/L	5
10/25/1993	TRICHLOROETHYLENE	0	UG/L	5
8/30/1993	TRICHLOROETHYLENE	0	UG/L	5
4/26/1993	TRICHLOROETHYLENE	0	UG/L	5
3/29/1993	TRICHLOROETHYLENE	0	UG/L	5
2/22/1993	TRICHLOROETHYLENE	0	UG/L	5
1/25/1993	TRICHLOROETHYLENE	0	UG/L	5
1/21/1993	TRICHLOROETHYLENE	0.5	UG/L	5
10/26/1992	TRICHLOROETHYLENE	0.5	UG/L	5
9/28/1992	TRICHLOROETHYLENE	0.5	UG/L	5
8/31/1992	TRICHLOROETHYLENE	0.5	UG/L	5
7/27/1992	TRICHLOROETHYLENE	0.6	UG/L	5
6/29/1992	TRICHLOROETHYLENE	0.6	UG/L	5
5/26/1992	TRICHLOROETHYLENE	0	UG/L	5
4/28/1992	TRICHLOROETHYLENE	0.6	UG/L	5
3/30/1992	TRICHLOROETHYLENE	0	UG/L	5
3/25/1992	TRICHLOROETHYLENE	0	UG/L	5
1/27/1992	TRICHLOROETHYLENE	0.5	UG/L	5
11/25/1991	TRICHLOROETHYLENE	0	UG/L	5
9/30/1991	TRICHLOROETHYLENE	0.6	UG/L	5
9/4/1991	TRICHLOROETHYLENE	0.8	UG/L	5
8/26/1991	TRICHLOROETHYLENE	0.7	UG/L	5
4/4/1991	TRICHLOROETHYLENE	0	UG/L	5
4/1/1991	TRICHLOROETHYLENE	0.7	UG/L	5
1/28/1991	TRICHLOROETHYLENE	0.7	UG/L	5
9/24/1990	TRICHLOROETHYLENE	0.8	UG/L	5
8/27/1990	TRICHLOROETHYLENE	0.7	UG/L	5
7/30/1990	TRICHLOROETHYLENE	0.7	UG/L	5
6/25/1990	TRICHLOROETHYLENE	0.6	UG/L	5
5/29/1990	TRICHLOROETHYLENE	0.6	UG/L	5
4/30/1990	TRICHLOROETHYLENE	0.6	UG/L	5
2/26/1990	TRICHLOROETHYLENE	0.6	UG/L	5
2/5/1990	TRICHLOROETHYLENE	0.6	UG/L	5
1/30/1990	TRICHLOROETHYLENE	0.7	UG/L	5
12/18/1989	TRICHLOROETHYLENE	0.7	UG/L	5
12/4/1989	TRICHLOROETHYLENE	0	UG/L	5
12/1/1989	TRICHLOROETHYLENE	0.7	UG/L	5
11/27/1989	TRICHLOROETHYLENE	0.7	UG/L	5
10/30/1989	TRICHLOROETHYLENE	0.7	UG/L	5
9/25/1989	TRICHLOROETHYLENE	0.8	UG/L	5
8/28/1989	TRICHLOROETHYLENE	0.7	UG/L	5
7/31/1989	TRICHLOROETHYLENE	3.2	UG/L	5
6/26/1989	TRICHLOROETHYLENE	2.9	UG/L	5

6/21/1989	TRICHLOROETHYLENE	0.7	UG/L	5	
5/30/1989	TRICHLOROETHYLENE	0.7	UG/L	5	
3/28/1989	TRICHLOROETHYLENE	0.7	UG/L	5	
2/28/1989	TRICHLOROETHYLENE	0.7	UG/L	5	
1/30/1989	TRICHLOROETHYLENE	1.1	UG/L	5	
11/9/1988	TRICHLOROETHYLENE	0.7	UG/L	5	
9/26/1988	TRICHLOROETHYLENE	1.2	UG/L	5	
8/29/1988	TRICHLOROETHYLENE	0.8	UG/L	5	
7/25/1988	TRICHLOROETHYLENE	0.8	UG/L	5	
7/5/1988	TRICHLOROETHYLENE	0.8	UG/L	5	
5/31/1988	TRICHLOROETHYLENE	0.7	UG/L	5	
4/25/1988	TRICHLOROETHYLENE	0.7	UG/L	5	
3/28/1988	TRICHLOROETHYLENE	0.7	UG/L	5	
2/29/1988	TRICHLOROETHYLENE	0.7	UG/L	5	
2/23/1988	TRICHLOROETHYLENE	0.7	UG/L	5	
1/25/1988	TRICHLOROETHYLENE	0.8	UG/L	5	
11/30/1987	TRICHLOROETHYLENE	0.6	UG/L	5	
8/31/1987	TRICHLOROETHYLENE	0.8	UG/L	5	
5/26/1987	TRICHLOROETHYLENE	1	UG/L	5	
4/27/1987	TRICHLOROETHYLENE	0.8	UG/L	5	
3/30/1987	TRICHLOROETHYLENE	0.8	UG/L	5	
2/23/1987	TRICHLOROETHYLENE	0.8	UG/L	5	
2/2/1987	TRICHLOROETHYLENE	0.8	UG/L	5	
12/29/1986	TRICHLOROETHYLENE	< 0.5	UG/L	5	
11/24/1986	TRICHLOROETHYLENE	0.9	UG/L	5	
10/27/1986	TRICHLOROETHYLENE	0.7	UG/L	5	
9/29/1986	TRICHLOROETHYLENE	0.8	UG/L	5	
8/25/1986	TRICHLOROETHYLENE	0.8	UG/L	5	
7/28/1986	TRICHLOROETHYLENE	0.8	UG/L	5	
6/25/1986	TRICHLOROETHYLENE	0.7	UG/L	5	
5/28/1986	TRICHLOROETHYLENE	0.7	UG/L	5	
4/30/1986	TRICHLOROETHYLENE	0.7	UG/L	5	
3/19/1986	TRICHLOROETHYLENE	< 0.5	UG/L	5	
3/12/1986	TRICHLOROETHYLENE	< 0.5	UG/L	5	
1/20/1986	TRICHLOROETHYLENE	< 0.5	UG/L	5	
4/2/1985	TRICHLOROETHYLENE	< 0.5	UG/L	5	

FROM DATE: **TO DATE:** **GRAPH SIZE** **NORMALIZED**

Medium Redraw

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ENVIROSTOR HOME | PROJECT SEARCH

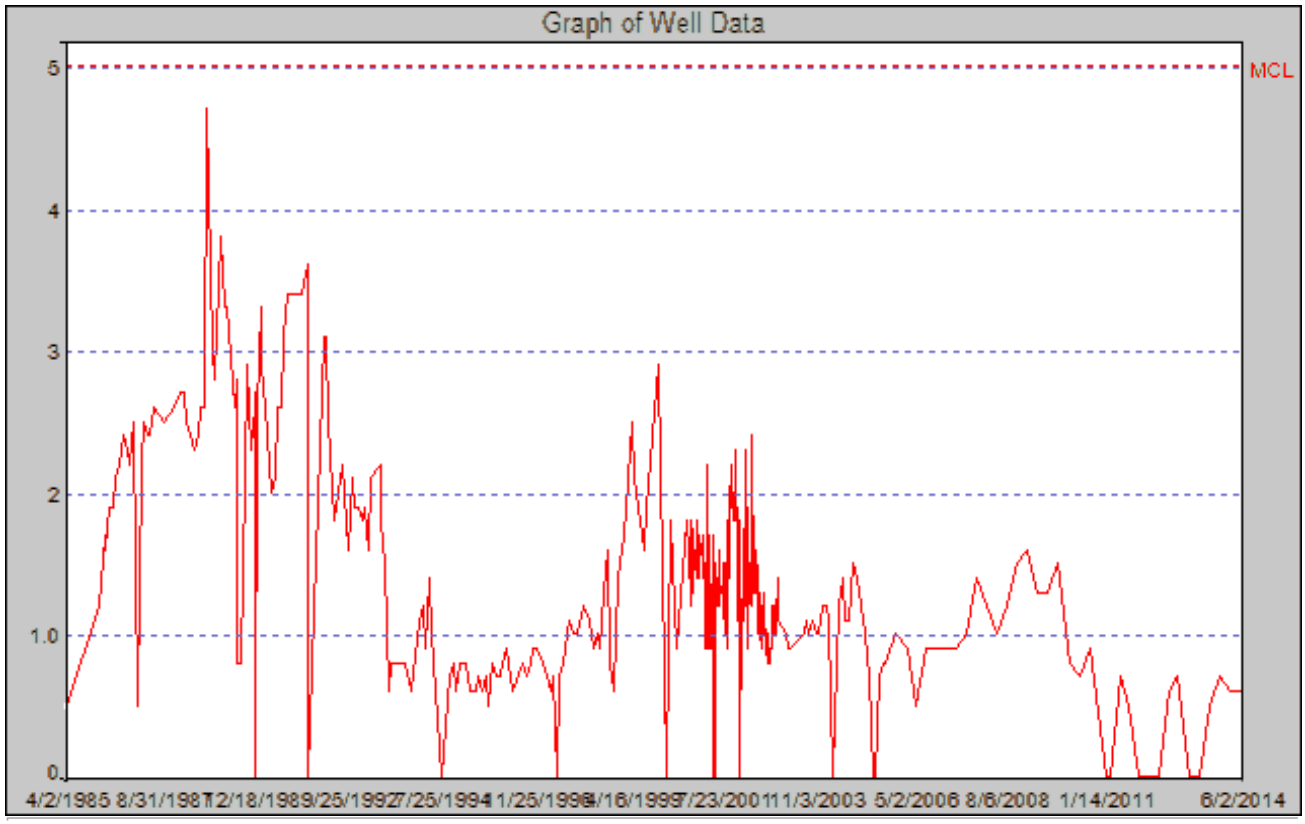
Reference:
CDPH, 2014b

Well Data Graph

CITY OF FULLERTON (FULLERTON)
KIMBERLY 02
303 W. Commonwealth
FULLERTON , CA 92832832

State Well #: 3010010-007
Well Source: Groundwater
Well Status: Active Raw

Well Details | Geographic Information | CDPH Water Quality Data | PWS Detailed Information



DATE	PARAMETER	RESULT	UNITS	MCL
6/2/2014	TETRACHLOROETHYLENE	. 0.6	UG/L	5
2/11/2014	TETRACHLOROETHYLENE	. 0.6	UG/L	5
11/7/2013	TETRACHLOROETHYLENE	0.7	UG/L	5
8/13/2013	TETRACHLOROETHYLENE	0.5	UG/L	5
5/8/2013	TETRACHLOROETHYLENE	0	UG/L	5
2/13/2013	TETRACHLOROETHYLENE	0	UG/L	5
10/29/2012	TETRACHLOROETHYLENE	0.7	UG/L	5
8/15/2012	TETRACHLOROETHYLENE	0.6	UG/L	5
5/16/2012	TETRACHLOROETHYLENE	0	UG/L	5
2/21/2012	TETRACHLOROETHYLENE	0	UG/L	5
11/7/2011	TETRACHLOROETHYLENE	0	UG/L	5
8/1/2011	TETRACHLOROETHYLENE	0.5	UG/L	5
5/19/2011	TETRACHLOROETHYLENE	0.7	UG/L	5
3/1/2011	TETRACHLOROETHYLENE	0	UG/L	5
1/14/2011	TETRACHLOROETHYLENE	0	UG/L	5
8/25/2010	TETRACHLOROETHYLENE	0.9	UG/L	5
6/1/2010	TETRACHLOROETHYLENE	0.7	UG/L	5
3/1/2010	TETRACHLOROETHYLENE	0.8	UG/L	5
11/3/2009	TETRACHLOROETHYLENE	1.5	UG/L	5
8/5/2009	TETRACHLOROETHYLENE	1.3	UG/L	5
5/5/2009	TETRACHLOROETHYLENE	1.3	UG/L	5
2/4/2009	TETRACHLOROETHYLENE	1.6	UG/L	5
11/4/2008	TETRACHLOROETHYLENE	1.5	UG/L	5
8/6/2008	TETRACHLOROETHYLENE	1.2	UG/L	5
5/5/2008	TETRACHLOROETHYLENE	1	UG/L	5
2/5/2008	TETRACHLOROETHYLENE	1.2	UG/L	5
11/6/2007	TETRACHLOROETHYLENE	1.4	UG/L	5
8/1/2007	TETRACHLOROETHYLENE	1	UG/L	5
5/8/2007	TETRACHLOROETHYLENE	0.9	UG/L	5
2/14/2007	TETRACHLOROETHYLENE	0.9	UG/L	5
11/6/2006	TETRACHLOROETHYLENE	0.9	UG/L	5
8/3/2006	TETRACHLOROETHYLENE	0.9	UG/L	5
5/2/2006	TETRACHLOROETHYLENE	0.5	UG/L	5

2/6/2006	TETRACHLOROETHYLENE	0.9	UG/L	5
11/2/2005	TETRACHLOROETHYLENE	1	UG/L	5
8/1/2005	TETRACHLOROETHYLENE	0.8	UG/L	5
7/5/2005	TETRACHLOROETHYLENE	0.8	UG/L	5
6/6/2005	TETRACHLOROETHYLENE	0.7	UG/L	5
5/2/2005	TETRACHLOROETHYLENE	0	UG/L	5
4/4/2005	TETRACHLOROETHYLENE	0	UG/L	5
3/7/2005	TETRACHLOROETHYLENE	0.7	UG/L	5
2/1/2005	TETRACHLOROETHYLENE	1	UG/L	5
11/8/2004	TETRACHLOROETHYLENE	1.4	UG/L	5
10/4/2004	TETRACHLOROETHYLENE	1.5	UG/L	5
9/7/2004	TETRACHLOROETHYLENE	1.1	UG/L	5
8/2/2004	TETRACHLOROETHYLENE	1.1	UG/L	5
7/6/2004	TETRACHLOROETHYLENE	1.4	UG/L	5
6/1/2004	TETRACHLOROETHYLENE	1.2	UG/L	5
5/3/2004	TETRACHLOROETHYLENE	0.8	UG/L	5
4/5/2004	TETRACHLOROETHYLENE	0	UG/L	5
3/1/2004	TETRACHLOROETHYLENE	1.1	UG/L	5
2/3/2004	TETRACHLOROETHYLENE	1.2	UG/L	5
1/5/2004	TETRACHLOROETHYLENE	1.2	UG/L	5
12/1/2003	TETRACHLOROETHYLENE	1	UG/L	5
11/3/2003	TETRACHLOROETHYLENE	1	UG/L	5
10/6/2003	TETRACHLOROETHYLENE	1.1	UG/L	5
9/2/2003	TETRACHLOROETHYLENE	1	UG/L	5
8/4/2003	TETRACHLOROETHYLENE	1.1	UG/L	5
7/24/2003	TETRACHLOROETHYLENE	1	UG/L	5
3/24/2003	TETRACHLOROETHYLENE	0.9	UG/L	5
3/3/2003	TETRACHLOROETHYLENE	0.9	UG/L	5
2/18/2003	TETRACHLOROETHYLENE	0.9	UG/L	5
2/10/2003	TETRACHLOROETHYLENE	1	UG/L	5
2/3/2003	TETRACHLOROETHYLENE	1	UG/L	5
11/25/2002	TETRACHLOROETHYLENE	1.1	UG/L	5
11/18/2002	TETRACHLOROETHYLENE	1.4	UG/L	5
11/12/2002	TETRACHLOROETHYLENE	1.1	UG/L	5
11/4/2002	TETRACHLOROETHYLENE	1	UG/L	5
10/28/2002	TETRACHLOROETHYLENE	1	UG/L	5
10/21/2002	TETRACHLOROETHYLENE	1.1	UG/L	5
10/14/2002	TETRACHLOROETHYLENE	1.2	UG/L	5
10/7/2002	TETRACHLOROETHYLENE	1	UG/L	5
9/30/2002	TETRACHLOROETHYLENE	1.2	UG/L	5
9/23/2002	TETRACHLOROETHYLENE	0.9	UG/L	5
9/16/2002	TETRACHLOROETHYLENE	0.9	UG/L	5
9/9/2002	TETRACHLOROETHYLENE	0.8	UG/L	5
9/3/2002	TETRACHLOROETHYLENE	0.8	UG/L	5
8/26/2002	TETRACHLOROETHYLENE	1	UG/L	5
8/19/2002	TETRACHLOROETHYLENE	0.8	UG/L	5
8/12/2002	TETRACHLOROETHYLENE	0.9	UG/L	5
7/29/2002	TETRACHLOROETHYLENE	1.2	UG/L	5
7/22/2002	TETRACHLOROETHYLENE	1	UG/L	5
7/15/2002	TETRACHLOROETHYLENE	1.3	UG/L	5
7/10/2002	TETRACHLOROETHYLENE	1	UG/L	5
7/8/2002	TETRACHLOROETHYLENE	1.1	UG/L	5
7/1/2002	TETRACHLOROETHYLENE	1.2	UG/L	5
6/24/2002	TETRACHLOROETHYLENE	0.9	UG/L	5
6/17/2002	TETRACHLOROETHYLENE	1	UG/L	5
6/10/2002	TETRACHLOROETHYLENE	1.3	UG/L	5
6/3/2002	TETRACHLOROETHYLENE	1.2	UG/L	5
5/28/2002	TETRACHLOROETHYLENE	1	UG/L	5
5/20/2002	TETRACHLOROETHYLENE	1.4	UG/L	5
5/14/2002	TETRACHLOROETHYLENE	1.6	UG/L	5
5/6/2002	TETRACHLOROETHYLENE	1.3	UG/L	5
4/29/2002	TETRACHLOROETHYLENE	1.5	UG/L	5
4/22/2002	TETRACHLOROETHYLENE	1.6	UG/L	5
4/15/2002	TETRACHLOROETHYLENE	1.3	UG/L	5
4/8/2002	TETRACHLOROETHYLENE	2.4	UG/L	5
4/1/2002	TETRACHLOROETHYLENE	1.3	UG/L	5
3/25/2002	TETRACHLOROETHYLENE	1.2	UG/L	5
3/18/2002	TETRACHLOROETHYLENE	1.5	UG/L	5
3/11/2002	TETRACHLOROETHYLENE	1.5	UG/L	5
3/4/2002	TETRACHLOROETHYLENE	0.9	UG/L	5
2/25/2002	TETRACHLOROETHYLENE	1.8	UG/L	5
2/19/2002	TETRACHLOROETHYLENE	1.7	UG/L	5
2/11/2002	TETRACHLOROETHYLENE	2.1	UG/L	5
2/6/2002	TETRACHLOROETHYLENE	1.8	UG/L	5
2/4/2002	TETRACHLOROETHYLENE	1.2	UG/L	5
1/28/2002	TETRACHLOROETHYLENE	2.3	UG/L	5
1/21/2002	TETRACHLOROETHYLENE	1.2	UG/L	5
1/14/2002	TETRACHLOROETHYLENE	1.1	UG/L	5
1/11/2002	TETRACHLOROETHYLENE	1.3	UG/L	5
1/7/2002	TETRACHLOROETHYLENE	1.2	UG/L	5
12/17/2001	TETRACHLOROETHYLENE	0	UG/L	5
12/10/2001	TETRACHLOROETHYLENE	1.7	UG/L	5
12/3/2001	TETRACHLOROETHYLENE	1.8	UG/L	5

11/26/2001	TETRACHLOROETHYLENE	1.1	UG/L	5
11/19/2001	TETRACHLOROETHYLENE	1.9	UG/L	5
11/13/2001	TETRACHLOROETHYLENE	1.8	UG/L	5
11/5/2001	TETRACHLOROETHYLENE	2.3	UG/L	5
10/29/2001	TETRACHLOROETHYLENE	1.8	UG/L	5
10/24/2001	TETRACHLOROETHYLENE	1.8	UG/L	5
10/22/2001	TETRACHLOROETHYLENE	2	UG/L	5
10/15/2001	TETRACHLOROETHYLENE	1.8	UG/L	5
10/8/2001	TETRACHLOROETHYLENE	2.2	UG/L	5
10/1/2001	TETRACHLOROETHYLENE	1.9	UG/L	5
9/24/2001	TETRACHLOROETHYLENE	2.1	UG/L	5
9/17/2001	TETRACHLOROETHYLENE	2	UG/L	5
9/10/2001	TETRACHLOROETHYLENE	1.4	UG/L	5
9/4/2001	TETRACHLOROETHYLENE	1.7	UG/L	5
8/27/2001	TETRACHLOROETHYLENE	1.8	UG/L	5
8/20/2001	TETRACHLOROETHYLENE	0.9	UG/L	5
8/13/2001	TETRACHLOROETHYLENE	1.5	UG/L	5
7/30/2001	TETRACHLOROETHYLENE	1	UG/L	5
7/23/2001	TETRACHLOROETHYLENE	1.2	UG/L	5
7/19/2001	TETRACHLOROETHYLENE	1.5	UG/L	5
7/16/2001	TETRACHLOROETHYLENE	1.2	UG/L	5
7/9/2001	TETRACHLOROETHYLENE	1.3	UG/L	5
7/2/2001	TETRACHLOROETHYLENE	1.3	UG/L	5
6/25/2001	TETRACHLOROETHYLENE	1.3	UG/L	5
6/18/2001	TETRACHLOROETHYLENE	1.4	UG/L	5
6/11/2001	TETRACHLOROETHYLENE	1.2	UG/L	5
6/4/2001	TETRACHLOROETHYLENE	1.6	UG/L	5
5/21/2001	TETRACHLOROETHYLENE	1.2	UG/L	5
5/14/2001	TETRACHLOROETHYLENE	1.5	UG/L	5
5/7/2001	TETRACHLOROETHYLENE	0	UG/L	5
4/30/2001	TETRACHLOROETHYLENE	0	UG/L	5
4/26/2001	TETRACHLOROETHYLENE	0	UG/L	5
4/23/2001	TETRACHLOROETHYLENE	1.7	UG/L	5
4/16/2001	TETRACHLOROETHYLENE	1.5	UG/L	5
4/9/2001	TETRACHLOROETHYLENE	1.5	UG/L	5
4/2/2001	TETRACHLOROETHYLENE	1.2	UG/L	5
3/26/2001	TETRACHLOROETHYLENE	0.9	UG/L	5
3/19/2001	TETRACHLOROETHYLENE	1.3	UG/L	5
3/12/2001	TETRACHLOROETHYLENE	1.7	UG/L	5
3/5/2001	TETRACHLOROETHYLENE	0.9	UG/L	5
2/26/2001	TETRACHLOROETHYLENE	2.2	UG/L	5
2/20/2001	TETRACHLOROETHYLENE	1.3	UG/L	5
2/14/2001	TETRACHLOROETHYLENE	1	UG/L	5
2/14/2001	TETRACHLOROETHYLENE	0.9	UG/L	5
2/12/2001	TETRACHLOROETHYLENE	1	UG/L	5
2/5/2001	TETRACHLOROETHYLENE	0.9	UG/L	5
1/31/2001	TETRACHLOROETHYLENE	1.5	UG/L	5
1/29/2001	TETRACHLOROETHYLENE	1.3	UG/L	5
1/22/2001	TETRACHLOROETHYLENE	1.7	UG/L	5
1/15/2001	TETRACHLOROETHYLENE	1.4	UG/L	5
1/8/2001	TETRACHLOROETHYLENE	1.7	UG/L	5
12/18/2000	TETRACHLOROETHYLENE	1.5	UG/L	5
12/11/2000	TETRACHLOROETHYLENE	1.7	UG/L	5
12/4/2000	TETRACHLOROETHYLENE	1.4	UG/L	5
11/20/2000	TETRACHLOROETHYLENE	1.8	UG/L	5
11/13/2000	TETRACHLOROETHYLENE	1.4	UG/L	5
11/6/2000	TETRACHLOROETHYLENE	1.5	UG/L	5
10/30/2000	TETRACHLOROETHYLENE	1.6	UG/L	5
10/16/2000	TETRACHLOROETHYLENE	1.3	UG/L	5
10/9/2000	TETRACHLOROETHYLENE	1.7	UG/L	5
10/2/2000	TETRACHLOROETHYLENE	1.8	UG/L	5
9/25/2000	TETRACHLOROETHYLENE	1.2	UG/L	5
9/11/2000	TETRACHLOROETHYLENE	1.6	UG/L	5
9/5/2000	TETRACHLOROETHYLENE	1.6	UG/L	5
8/30/2000	TETRACHLOROETHYLENE	1.8	UG/L	5
5/23/2000	TETRACHLOROETHYLENE	0.9	UG/L	5
3/27/2000	TETRACHLOROETHYLENE	1.8	UG/L	5
2/23/2000	TETRACHLOROETHYLENE	0	UG/L	5
12/7/1999	TETRACHLOROETHYLENE	2.9	UG/L	5
8/24/1999	TETRACHLOROETHYLENE	1.9	UG/L	5
7/26/1999	TETRACHLOROETHYLENE	1.6	UG/L	5
4/26/1999	TETRACHLOROETHYLENE	2.1	UG/L	5
4/16/1999	TETRACHLOROETHYLENE	2.5	UG/L	5
1/25/1999	TETRACHLOROETHYLENE	1.7	UG/L	5
12/9/1998	TETRACHLOROETHYLENE	1.4	UG/L	5
10/26/1998	TETRACHLOROETHYLENE	0.6	UG/L	5
9/28/1998	TETRACHLOROETHYLENE	0.8	UG/L	5
8/31/1998	TETRACHLOROETHYLENE	1.6	UG/L	5
7/27/1998	TETRACHLOROETHYLENE	1.3	UG/L	5
6/29/1998	TETRACHLOROETHYLENE	0.9	UG/L	5
5/28/1998	TETRACHLOROETHYLENE	1	UG/L	5
4/27/1998	TETRACHLOROETHYLENE	0.9	UG/L	5
3/30/1998	TETRACHLOROETHYLENE	1.1	UG/L	5

1/26/1998	TETRACHLOROETHYLENE	1.2	UG/L	5
11/25/1997	TETRACHLOROETHYLENE	1	UG/L	5
10/27/1997	TETRACHLOROETHYLENE	1	UG/L	5
9/29/1997	TETRACHLOROETHYLENE	1.1	UG/L	5
8/25/1997	TETRACHLOROETHYLENE	1	UG/L	5
7/28/1997	TETRACHLOROETHYLENE	0.8	UG/L	5
6/30/1997	TETRACHLOROETHYLENE	0.7	UG/L	5
5/27/1997	TETRACHLOROETHYLENE	0	UG/L	5
4/28/1997	TETRACHLOROETHYLENE	0.7	UG/L	5
3/31/1997	TETRACHLOROETHYLENE	0.6	UG/L	5
2/24/1997	TETRACHLOROETHYLENE	0.7	UG/L	5
1/27/1997	TETRACHLOROETHYLENE	0.8	UG/L	5
11/25/1996	TETRACHLOROETHYLENE	0.9	UG/L	5
10/28/1996	TETRACHLOROETHYLENE	0.9	UG/L	5
9/30/1996	TETRACHLOROETHYLENE	0.8	UG/L	5
8/26/1996	TETRACHLOROETHYLENE	0.7	UG/L	5
7/29/1996	TETRACHLOROETHYLENE	0.8	UG/L	5
4/24/1996	TETRACHLOROETHYLENE	0.6	UG/L	5
3/25/1996	TETRACHLOROETHYLENE	0.8	UG/L	5
2/27/1996	TETRACHLOROETHYLENE	0.9	UG/L	5
1/29/1996	TETRACHLOROETHYLENE	0.8	UG/L	5
1/2/1996	TETRACHLOROETHYLENE	0.7	UG/L	5
11/27/1995	TETRACHLOROETHYLENE	0.7	UG/L	5
10/30/1995	TETRACHLOROETHYLENE	0.8	UG/L	5
9/25/1995	TETRACHLOROETHYLENE	0.5	UG/L	5
8/28/1995	TETRACHLOROETHYLENE	0.7	UG/L	5
7/31/1995	TETRACHLOROETHYLENE	0.6	UG/L	5
6/26/1995	TETRACHLOROETHYLENE	0.7	UG/L	5
5/30/1995	TETRACHLOROETHYLENE	0.6	UG/L	5
3/27/1995	TETRACHLOROETHYLENE	0.6	UG/L	5
2/28/1995	TETRACHLOROETHYLENE	0.8	UG/L	5
1/11/1995	TETRACHLOROETHYLENE	0.8	UG/L	5
11/28/1994	TETRACHLOROETHYLENE	0.6	UG/L	5
10/31/1994	TETRACHLOROETHYLENE	0.8	UG/L	5
9/26/1994	TETRACHLOROETHYLENE	0.7	UG/L	5
7/25/1994	TETRACHLOROETHYLENE	0	UG/L	5
4/26/1994	TETRACHLOROETHYLENE	1	UG/L	5
3/28/1994	TETRACHLOROETHYLENE	1.4	UG/L	5
2/28/1994	TETRACHLOROETHYLENE	0.9	UG/L	5
1/31/1994	TETRACHLOROETHYLENE	1.2	UG/L	5
12/29/1993	TETRACHLOROETHYLENE	1.1	UG/L	5
10/25/1993	TETRACHLOROETHYLENE	0.6	UG/L	5
8/30/1993	TETRACHLOROETHYLENE	0.8	UG/L	5
4/26/1993	TETRACHLOROETHYLENE	0.8	UG/L	5
3/29/1993	TETRACHLOROETHYLENE	0.6	UG/L	5
2/22/1993	TETRACHLOROETHYLENE	1.5	UG/L	5
1/25/1993	TETRACHLOROETHYLENE	1.8	UG/L	5
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9/28/1992	TETRACHLOROETHYLENE	1.6	UG/L	5
8/31/1992	TETRACHLOROETHYLENE	1.9	UG/L	5
7/27/1992	TETRACHLOROETHYLENE	1.8	UG/L	5
6/29/1992	TETRACHLOROETHYLENE	1.9	UG/L	5
5/26/1992	TETRACHLOROETHYLENE	1.9	UG/L	5
4/28/1992	TETRACHLOROETHYLENE	2.1	UG/L	5
3/30/1992	TETRACHLOROETHYLENE	1.6	UG/L	5
3/25/1992	TETRACHLOROETHYLENE	1.6	UG/L	5
1/27/1992	TETRACHLOROETHYLENE	2.2	UG/L	5
11/25/1991	TETRACHLOROETHYLENE	1.8	UG/L	5
9/30/1991	TETRACHLOROETHYLENE	2.5	UG/L	5
9/4/1991	TETRACHLOROETHYLENE	3.1	UG/L	5
8/26/1991	TETRACHLOROETHYLENE	3.1	UG/L	5
4/4/1991	TETRACHLOROETHYLENE	0	UG/L	5
4/1/1991	TETRACHLOROETHYLENE	3.6	UG/L	5
1/28/1991	TETRACHLOROETHYLENE	3.4	UG/L	5
9/24/1990	TETRACHLOROETHYLENE	3.4	UG/L	5
8/27/1990	TETRACHLOROETHYLENE	3.1	UG/L	5
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6/25/1990	TETRACHLOROETHYLENE	2.6	UG/L	5
5/29/1990	TETRACHLOROETHYLENE	2.1	UG/L	5
4/30/1990	TETRACHLOROETHYLENE	2	UG/L	5
2/26/1990	TETRACHLOROETHYLENE	2.6	UG/L	5
2/5/1990	TETRACHLOROETHYLENE	2.9	UG/L	5
1/30/1990	TETRACHLOROETHYLENE	3.3	UG/L	5
12/18/1989	TETRACHLOROETHYLENE	2.6	UG/L	5
12/4/1989	TETRACHLOROETHYLENE	0	UG/L	5
12/1/1989	TETRACHLOROETHYLENE	2.7	UG/L	5
11/27/1989	TETRACHLOROETHYLENE	2.6	UG/L	5
10/30/1989	TETRACHLOROETHYLENE	2.3	UG/L	5
9/25/1989	TETRACHLOROETHYLENE	2.9	UG/L	5
8/28/1989	TETRACHLOROETHYLENE	2.1	UG/L	5
7/31/1989	TETRACHLOROETHYLENE	0.8	UG/L	5
6/26/1989	TETRACHLOROETHYLENE	0.8	UG/L	5

6/21/1989	TETRACHLOROETHYLENE	2.8	UG/L	5
5/30/1989	TETRACHLOROETHYLENE	2.6	UG/L	5
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2/28/1989	TETRACHLOROETHYLENE	3.3	UG/L	5
1/30/1989	TETRACHLOROETHYLENE	3.8	UG/L	5
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11/9/1988	TETRACHLOROETHYLENE	3	UG/L	5
9/26/1988	TETRACHLOROETHYLENE	4.7	UG/L	5
8/29/1988	TETRACHLOROETHYLENE	2.6	UG/L	5
7/25/1988	TETRACHLOROETHYLENE	2.6	UG/L	5
7/5/1988	TETRACHLOROETHYLENE	2.4	UG/L	5
5/31/1988	TETRACHLOROETHYLENE	2.3	UG/L	5
4/25/1988	TETRACHLOROETHYLENE	2.4	UG/L	5
3/28/1988	TETRACHLOROETHYLENE	2.5	UG/L	5
2/29/1988	TETRACHLOROETHYLENE	2.7	UG/L	5
2/23/1988	TETRACHLOROETHYLENE	2.7	UG/L	5
1/25/1988	TETRACHLOROETHYLENE	2.7	UG/L	5
11/30/1987	TETRACHLOROETHYLENE	2.6	UG/L	5
8/31/1987	TETRACHLOROETHYLENE	2.5	UG/L	5
5/26/1987	TETRACHLOROETHYLENE	2.6	UG/L	5
4/27/1987	TETRACHLOROETHYLENE	2.4	UG/L	5
3/30/1987	TETRACHLOROETHYLENE	2.4	UG/L	5
2/23/1987	TETRACHLOROETHYLENE	2.5	UG/L	5
2/2/1987	TETRACHLOROETHYLENE	2.2	UG/L	5
12/29/1986	TETRACHLOROETHYLENE	< 0.5	UG/L	5
11/24/1986	TETRACHLOROETHYLENE	2.5	UG/L	5
10/27/1986	TETRACHLOROETHYLENE	2.2	UG/L	5
9/29/1986	TETRACHLOROETHYLENE	2.3	UG/L	5
8/25/1986	TETRACHLOROETHYLENE	2.4	UG/L	5
7/28/1986	TETRACHLOROETHYLENE	2.2	UG/L	5
6/25/1986	TETRACHLOROETHYLENE	2.1	UG/L	5
5/28/1986	TETRACHLOROETHYLENE	1.9	UG/L	5
4/30/1986	TETRACHLOROETHYLENE	1.9	UG/L	5
3/19/1986	TETRACHLOROETHYLENE	1.6	UG/L	5
3/12/1986	TETRACHLOROETHYLENE	1.7	UG/L	5
1/20/1986	TETRACHLOROETHYLENE	1.2	UG/L	5
4/2/1985	TETRACHLOROETHYLENE	< 0.5	UG/L	5

FROM DATE: **TO DATE:** **GRAPH SIZE** **NORMALIZED**

Medium Redraw

Public Well data is for reference only. Not for reproduction in any form.
Please see the DHS confidentiality agreement for terms of use.

ENVIROSTOR HOME | PROJECT SEARCH

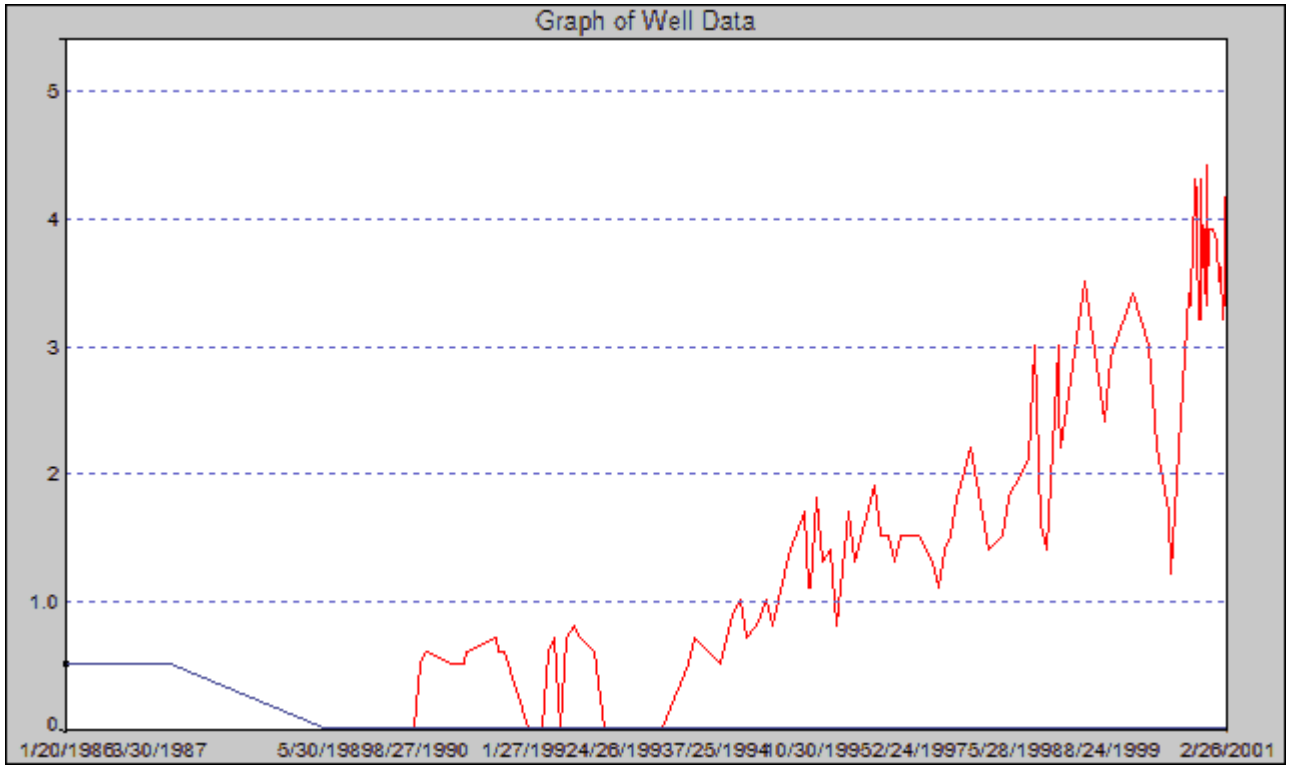
Reference:
CDPH, 2016a

Well Report

CITY OF FULLERTON (FULLERTON)
KIMBERLY 01 - ABANDONED
303 W. Commonwealth
FULLERTON , CA 92832832
(Show This Well on Map)

State Well #: 3010010-006
Well Source: Groundwater
Well Status: Inactive Raw

Detailed Well Information | DPH Water Quality Data



Chemical	Color	Visible?
TETRACHLOROETHYLENE	Red	Visible?: ☑
TRICHLOROETHYLENE	Blue	Visible?: ☑

FROM DATE: TO DATE: GRAPH SIZE: Small NORMALIZED: ☐ Redraw

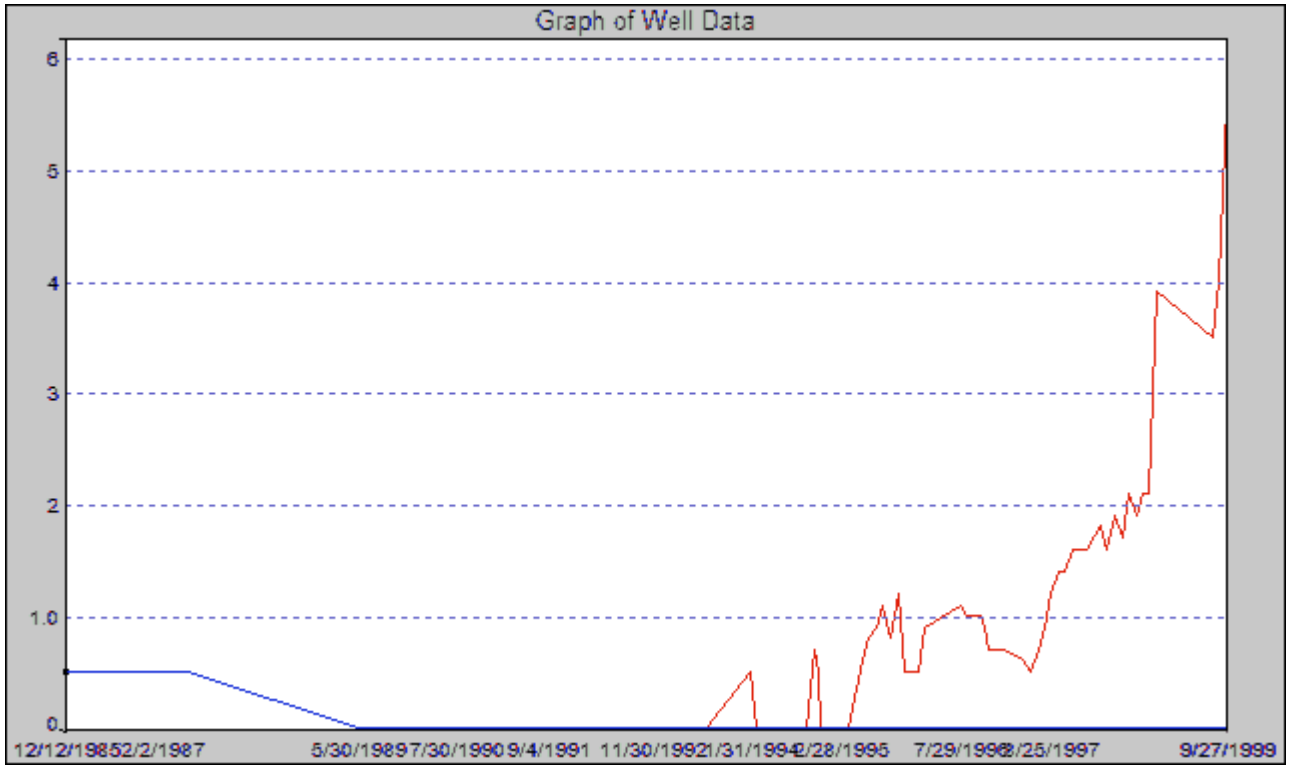
Reference:
CDPH, 2016b

Well Report

CITY OF FULLERTON (FULLERTON)
FIRE STATION WELL 13 - ABANDONED
303 W. Commonwealth
FULLERTON , CA 92832832
(Show This Well on Map)

State Well #: 3010010-005
Well Source: Groundwater
Well Status: Inactive Raw

Detailed Well Information | DPH Water Quality Data



Chemical	Color	Visible?
TETRACHLOROETHYLENE	Red	Visible?: ☑
TRICHLOROETHYLENE	Blue	Visible?: ☑

FROM DATE: TO DATE: GRAPH SIZE: Small NORMALIZED: ☐ Redraw

Reference:
Converse, 1994a

Consulting Engineers and Geologists

CONVERSE CONSULTANTS ORANGE COUNTY

15245 Alton Parkway
Suite 100
Irvine, CA 92718-2307

714/453-2880
FAX 714/453-2888

October 18, 1994

Mr. Mike McCall
Orange County Health Care Agency
Hazardous Materials Management Section
2009 East Edinger Avenue
Santa Ana, California 92705

Subject: **CLARIFIER REMOVAL AND SOIL ANALYSIS**
Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California
(Converse Project No. 94-42871-02)

Dear Mr. McCall:

Converse Consultants Orange County (Converse), on behalf of Red Eagle Properties, is pleased to present this Clarifier Removal and Soil Analysis Summary Report. This report documents the general activities at the referenced property associated with the discovery, removal and disposal of the two clarifiers and approximately 1,800 gallons of waste water. For site vicinity, see Figure 1.

Background

The two clarifiers were initially discovered during a previous Preliminary Site Assessment of the subject property conducted by Converse in 1992. The clarifiers were located in the northeast section of the property (see Figure 2).

Both clarifiers were similar in size, concrete construction, and appeared to be fully intact with no signs of damage. The clarifiers were partially full of what appeared to be water from storm drain runoff. There were no obvious odors, and there was no visible piping associated with the clarifiers. No contamination was observed on or around the empty ports prior to excavation of the clarifiers.

A Wholly Owned Subsidiary of
The Converse Professional Group

Clarifier Removal Activities

On September 6, 1994, approximately 1,800 gallons of waste water and rinse water was removed from the clarifiers by Nieto and Sons Trucking Inc. Each clarifier was originally estimated at 1,000 gallon capacity; however, during waste water removal, the volume of the clarifiers was estimated at 2,000 gallons each due to the amount of waste water extracted from the clarifiers. Each clarifier was properly cleaned and the rinseate purged from the clarifier. See Appendix A for a copy of the Uniform Hazardous Waste Manifest.

On September 7, 1994, the two clarifiers were excavated and destroyed by Ledsam Contracting, Inc. This work was observed by Converse personnel. The concrete material for the clarifiers was removed from the site and taken to a local concrete recycling center. The excavation to remove each clarifier extended approximately nine feet below the ground surface (bgs), 14 feet in length, and eight feet in width.

The soil was visible and exposed at the bottom of each excavation after the clarifiers were removed. Visually, the soil was slightly darker in color than the soil in the walls of the excavation. A slight petroleum odor was noticeable from each excavation. Under your direction and approval, one soil sample was obtained from a depth of approximately three (3) feet below the bottom of the clarifiers in each excavation. The soil samples were obtained from the backhoe bucket. After the samples had been obtained, each clarifier excavation was backfilled; the backfilling was not observed by Converse.

Soil Analytical Results

Two soil samples (NC-1 from the north clarifier and SC-1 from the south clarifier) were submitted to a state certified laboratory for analysis. The soil samples were analyzed in accordance with United States Environmental Protection Agency (EPA) methods 8010 (halogenated volatile organics) and 418.1 (total recoverable petroleum hydrocarbons [TRPH]), and California Code of Regulations Title 22 metals.

Sample NC-1 revealed 16 parts per million (ppm) of TRPH. Trace amounts of several metals were detected, but all detectable metals were below the regulatory action levels established in CCR Title 22 for persistent and bioaccumulative toxic substances. No target compounds of halogenated volatile organics were detected in NC-1.

Sample SC-1 revealed 27,000 ppb of tetrachloroethene (PCE) and 3,600 ppm of TRPH in the soil. Trace amounts of several metals were detected, but all detectable metals were below the regulatory action levels established in CCR Title 22 for persistent and bioaccumulative toxic substances.

For a complete copy of the analytical results, see Appendix B.

Soil Conditions and Other Observations

Generally, the subsurface soil conditions at the site consisted of slightly moist, light brown, sandy silt/silty sand. The depth to ground water in the area is approximately 60 feet bgs, with the gradient to the southwest.

The finish grade elevation, in the area of the clarifiers, is approximately 374 feet above mean sea level. There has been approximately 9 feet of compacted fill placed above the bottom of the former clarifiers.

Conclusions

Based on the findings from the clarifier removal and the analytical results, the soil beneath the former southern clarifier has been contaminated by PCE and TRPH. The northern clarifier appears to require no additional investigation activities associated with the TRPH soil contamination, based on the relatively low concentration (16 ppm) detected in the soil.

Converse recommends a limited site characterization be conducted at the property to determine the vertical extent of contamination in the soil. This characterization should consist of advancing one soil boring to a maximum depth of 40 feet bgs or first water, whichever is encountered first. Soil samples should be obtained at five-foot intervals during drilling, and the soil samples should be analyzed by a state certified laboratory in accordance with EPA methods 8010 and 418.1.

Limitations

The findings presented herein are based on our evaluation of currently available data and were prepared in accordance with generally accepted environmental principles common to

the local area in which we practice. We make no other warranty, either expressed or implied.

Converse is not responsible for the accuracy of information provided by others. This report should not be regarded as a guarantee that no subsurface contamination is present at the property beyond what has been disclosed. There may be subsurface conditions that cannot be reasonably predicted with the services performed to-date.

If you have any questions, please contact us at (714) 453-2880.

Sincerely,

CONVERSE CONSULTANTS ORANGE COUNTY

J. Michael Batten
Project Geologist

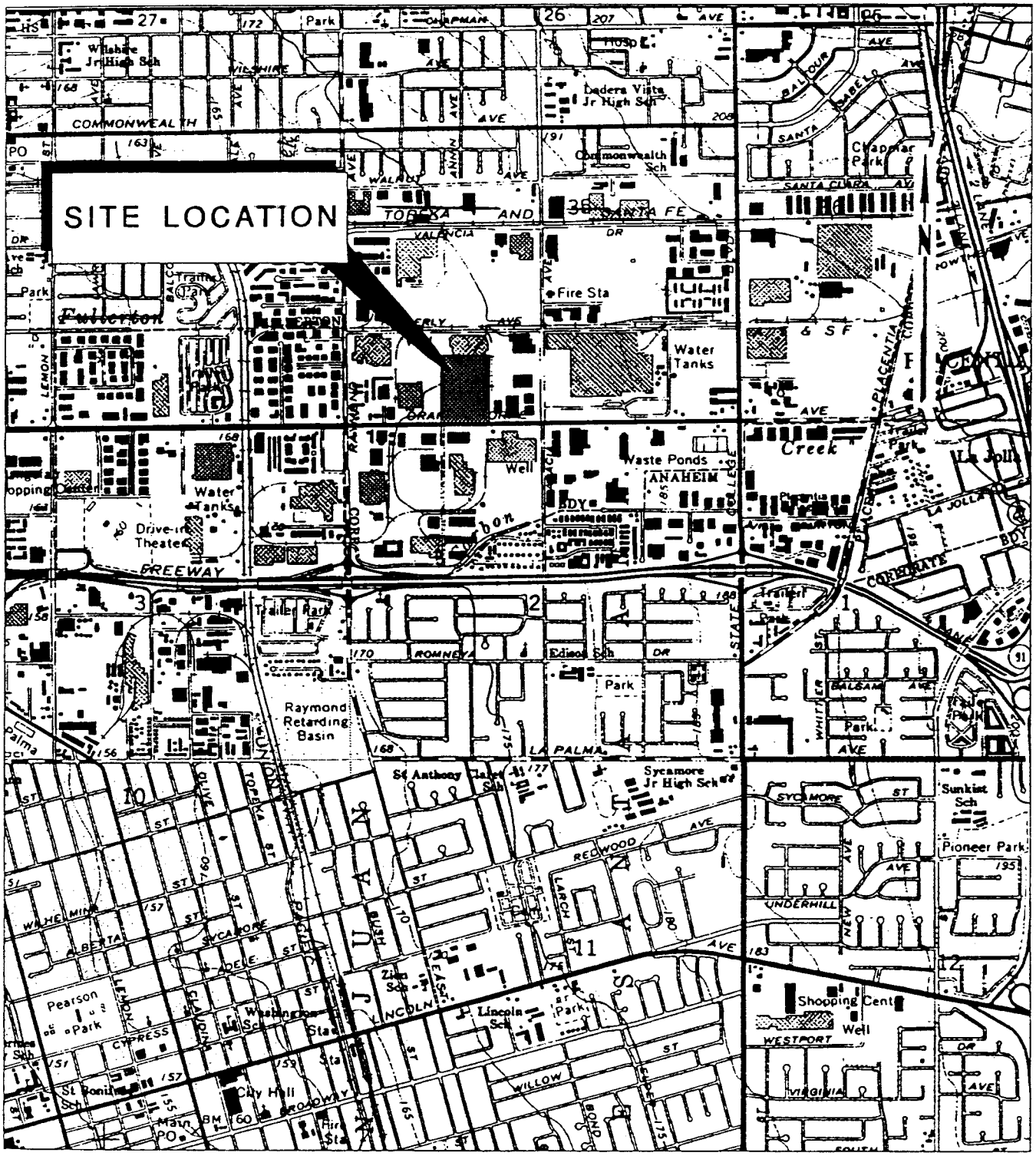
Thomas J. Scheil, RGE 753
Vice President and
Principal Engineer

SM/JMB/TJS

Enclosures: Figure 1 - Vicinity Map
Figure 2 - Site Map
Appendix A - Uniform Hazardous Waste Manifest
Appendix B - Analytical Report

Distribution: 1 addressee
2 Mr. Carl Ross, Red Eagle Properties
1 Mr. Mark Boen, Red Eagle Properties

FIGURES



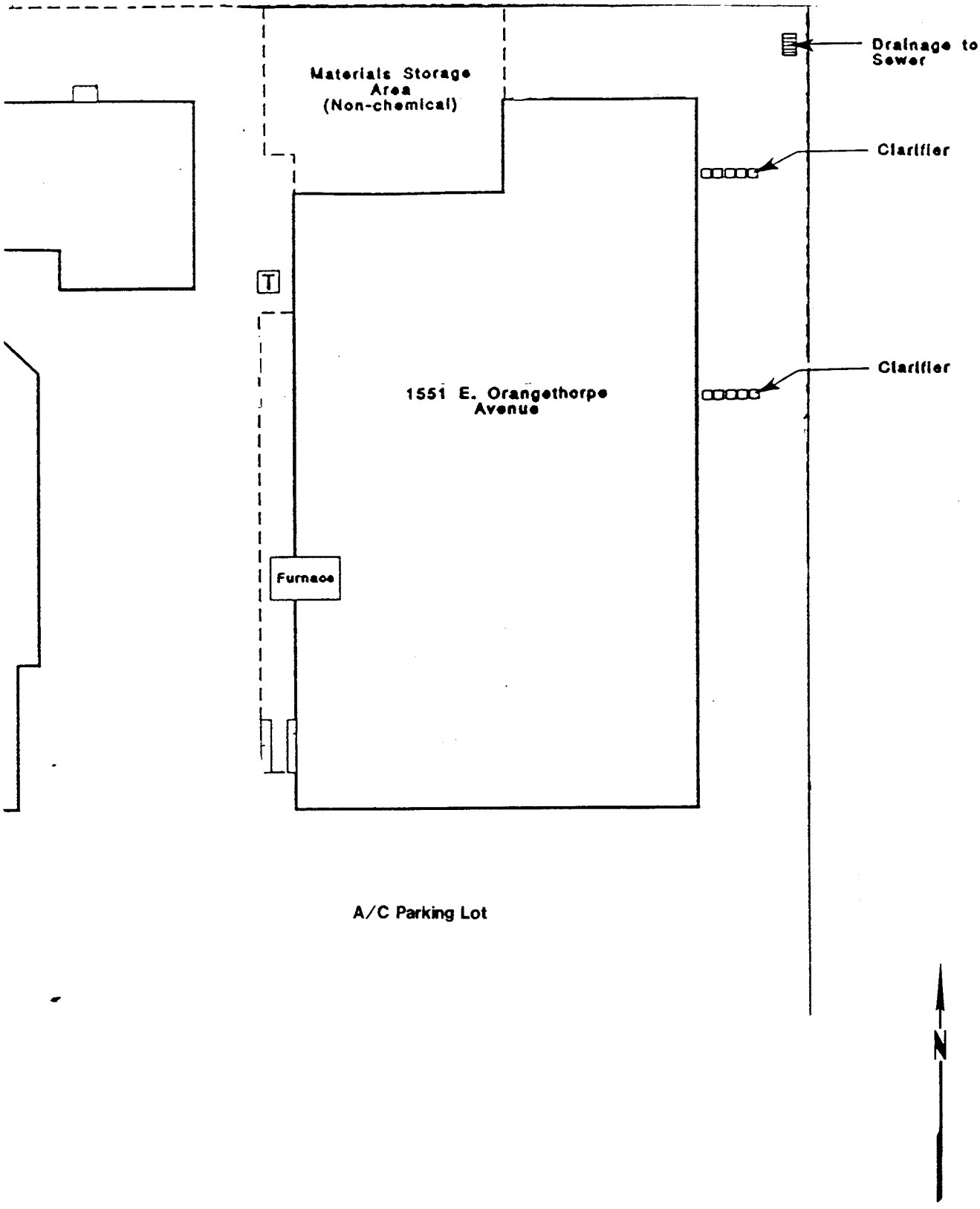
VICINITY MAP

CLARIFIER REMOVAL AND SOIL ANALYSIS
1551 East Orangethorpe Avenue
Fullerton, California

Project No.
94-42871-02

Converse Consultants Orange County
Geotechnical Engineering and Applied Sciences

Figure No.
1



SITE MAP

CLARIFIER REMOVAL AND SOIL ANALYSIS
1551 East Orangethorpe Avenue
Fullerton, California

Project No.
94-42871-02

Figure No.
2

Converse Consultants Orange County
Geotechnical Engineering and Applied Sciences

APPENDIX A

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAG000978649 | Manifest Document No. 42847 47 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
MR. CARL ROSS
REDEAGLE PROPERTIES, INC.
2020 LYNX TRAIL
ONTARIO, CA. 91761

4. Generator's Phone (909 947 - 7933

5. Transporter 1 Company Name
NIETO AND SONS TRUCKING, INC.

6. US EPA ID Number
CAT080001611 6

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
DEMENNO KERDOON
2000 N. ALAMEDA
COMPTON, CA 90222

10. US EPA ID Number
CAT080013352

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. NON RCRA HAZARDOUS WASTE LIQUID	001	TT	2000	G
b.				
c.				
d.				

15. Special Handling Instructions and Additional Information
job site : 1551 E. ORANGETHORPE
FULLERTON, CA 92631
alternate disposal site * PETROLEUM RECYCLING CORP. * 1835 E. 29th STREET 310-595-7431 * SIGNAL HILL, CA 9080 CAT080011059

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
X CARL ROSS		09	06	94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
RICHARD LUCERO		09	06	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

DO NOT WRITE BELOW THIS LINE.

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

GENERATOR

93142841

DTSC 8022A (9/93)
EPA 8700—22

Blue: GENERATOR SENDS THIS COPY TO DTSC WITHIN 30 DAYS.
To: P.O. Box 400, Sacramento, CA 95812-0400

APPENDIX B

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Client Project ID: Prowestern Fullerton
Sample Descript: Soil, SC-1
Lab Number: DI02334

Sampled: Sep 7, 1994
Received: Sep 7, 1994
Analyzed: Sep 16, 1994
Reported: Sep 21, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	2,000	N.D.
Bromoform	2,000	N.D.
Bromomethane	2,000	N.D.
Carbon tetrachloride	2,000	N.D.
Chlorobenzene	2,000	N.D.
Chloroethane	10,000	N.D.
2-Chloroethylvinyl ether	10,000	N.D.
Chloroform	2,000	N.D.
Chloromethane	2,000	N.D.
Dibromochloromethane	2,000	N.D.
1,2-Dichlorobenzene	4,000	N.D.
1,3-Dichlorobenzene	4,000	N.D.
1,4-Dichlorobenzene	4,000	N.D.
1,1-Dichloroethane	2,000	N.D.
1,2-Dichloroethane	2,000	N.D.
1,1-Dichloroethene	2,000	N.D.
cis-1,2-Dichloroethene	2,000	N.D.
trans-1,2-Dichloroethene	2,000	N.D.
1,2-Dichloropropane	2,000	N.D.
cis-1,3-Dichloropropene	2,000	N.D.
trans-1,3-Dichloropropene	2,000	N.D.
Methylene chloride	4,000	N.D.
1,1,2,2-Tetrachloroethane	2,000	N.D.
Tetrachloroethene	**2,000**	**27,000**
1,1,1-Trichloroethane	2,000	N.D.
1,1,2-Trichloroethane	2,000	N.D.
Trichloroethene	2,000	N.D.
Trichlorofluoromethane	2,000	N.D.
Vinyl chloride	4,000	N.D.

SEP 30 1994

RECEIVED

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 400.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	103%

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West	Client Project ID:	Prowestern	Sampled: Sep 7, 1994
15245 Alton Parkway, Suite 100		Fullerton	Received: Sep 7, 1994
Irvine, CA 92718-2307	Sample Descript:	Soil, NC-1	Analyzed: Sep 16, 1994
Attention: J. Michael Batten	Lab Number:	DI02335	Reported: Sep 21, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	97%

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 502) 968-8272 FAX (602) 968-1338

Converse Environmental West	Client Project ID:	Prowestern	Sampled: Sep 7, 1994
15245 Alton Parkway, Suite 100		Fullerton	Received: Sep 7, 1994
Irvine, CA 92718-2307	Analysis Method:	EPA 418.1 (I.R. with clean-up)	Analyzed: Sep 15, 1994
Attention: J. Michael Batten	First Sample #:	DI02334	Reported: Sep 21, 1994

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Number	Sample Description Soil	Petroleum Hydrocarbons mg/Kg (ppm)
DI02334	SC-1	3,600
DI02335	NC-1	16

Detection Limit:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Del Mar Analytical

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Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Client Project ID: Prowestern
Fullerton
Sample Descript: Soil, SC-1
Lab Number: DI02334

Sampled: Sep 7, 1994
Received: Sep 7, 1994
Analyzed: Sep 13-20, 1994
Reported: Sep 21, 1994

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0	N.D.
Arsenic	6010	5	500	1.0	N.D.
Barium	6010	100	10000	0.50	13
Beryllium	6010	0.75	75	0.10	N.D.
Cadmium	6010	1	100	0.10	N.D.
Chromium, VI	7196	5	500	0.25	N.D.
Chromium, total	6010	560	2500	0.50	2.6
Cobalt	6010	80	8000	0.50	1.2
Copper	6010	25	2500	0.50	4.2
Lead	6010	5	1000	1.0	1.4
Mercury	7471	0.2	20	0.0020	N.D.
Molybdenum	6010	350	3500	0.50	N.D.
Nickel	6010	20	2000	0.50	1.7
Selenium	6010	1	100	1.0	N.D.
Silver	6010	5	500	0.50	N.D.
Thallium	6010	7	700	5.0	N.D.
Vanadium	6010	24	2400	0.50	7.1
Zinc	6010	250	5000	0.50	11

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Del Mar Analytical

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Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Client Project ID: Prowestern Fullerton
Sample Descript: Soil, NC-1
Lab Number: DI02335

Sampled: Sep 7, 1994
Received: Sep 7, 1994
Analyzed: Sep 13-20, 1994
Reported: Sep 21, 1994

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0	N.D.
Arsenic	6010	5	500	1.0	N.D.
Barium	6010	100	10000	0.50	55
Beryllium	6010	0.75	75	0.10	N.D.
Cadmium	6010	1	100	0.10	0.13
Chromium, VI	7196	5	500	0.25	N.D.
Chromium, total	6010	560	2500	0.50	10
Cobalt	6010	80	8000	0.50	4.3
Copper	6010	25	2500	0.50	14
Lead	6010	5	1000	1.0	3.8
Mercury	7471	0.2	20	0.0020	0.033
Molybdenum	6010	350	3500	0.50	N.D.
Nickel	6010	20	2000	0.50	7.2
Selenium	6010	1	100	1.0	N.D.
Silver	6010	5	500	0.50	N.D.
Thallium	6010	7	700	5.0	N.D.
Vanadium	6010	24	2400	0.50	22
Zinc	6010	250	5000	0.50	40

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Del Mar Analytical

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Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Method Blank

Analyzed: Sep 16, 1994
Reported: Sep 21, 1994
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	101%

Del Mar Analytical

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Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Method Blank

Analyzed: Sep 15, 1994
Reported: Sep 21, 1994
Matrix: Soil

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Description	Petroleum Hydrocarbons mg/Kg (ppm)
Method Blank	N.D.

Detection Limit:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Del Mar Analytical

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Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Method Blank

Analyzed: Sep 13-20, 1994
Reported: Sep 21, 1994
Matrix: Soil

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0	N.D.
Arsenic	6010	5	500	1.0	N.D.
Barium	6010	100	10000	0.50	N.D.
Beryllium	6010	0.75	75	0.10	N.D.
Cadmium	6010	1	100	0.10	N.D.
Chromium, VI	7196	5	500	0.25	N.D.
Chromium, total	6010	560	2500	0.50	N.D.
Cobalt	6010	80	8000	0.50	N.D.
Copper	6010	25	2500	0.50	N.D.
Lead	6010	5	1000	1.0	N.D.
Mercury	7471	0.2	20	0.0020	N.D.
Molybdenum	6010	350	3500	0.50	N.D.
Nickel	6010	20	2000	0.50	N.D.
Selenium	6010	1	100	1.0	N.D.
Silver	6010	5	500	0.50	N.D.
Thallium	6010	7	700	5.0	N.D.
Vanadium	6010	24	2400	0.50	N.D.
Zinc	6010	250	5000	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Del Mar Analytical

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QC DATA REPORT

EPA METHOD: **3060/7196**
Matrix: Soil

DATE: 9/13/94

SAMPLE # Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Chromium +6	0	0.33	0.37	0.35	112%	106%	5.6%	109%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; (MS-R1) / SP X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Del Mar Analytical

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QC DATA REPORT

EPA METHOD: **418.1**
Matrix: Soil

DATE: 9/15/94

SAMPLE # Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Hydrocarbons	0	60	51	55	85%	92%	7.5%	88%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

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QC DATA REPORT

EPA METHOD **8010**
Matrix: Soil

DATE: 9/16/94

SAMPLE # DI02335

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,1-Dichloroethene	0	25	27	23	108%	92%	16.0%	100%
1,1,1-Trichloroethane	0	25	25	24	100%	96%	4.1%	98%
Trichloroethene	0	25	26	26	104%	104%	0.0%	104%
Chlorobenzene	0	25	24	24	96%	96%	0.0%	96%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

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QC DATA REPORT

METHOD: **Metals**
Instrument: ICP
Matrix: SOIL

Date: 9/20/94

Sample #: Blank

Analyte	R1	SP	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Arsenic	0	1000	951	940	95%	94%	1.2%	95%
Barium	0	1000	1034	1057	103%	106%	2.2%	105%
Beryllium	0	1000	1001	1014	100%	101%	1.3%	101%
Cadmium	0	1000	983	971	98%	97%	1.2%	98%
Chromium	0	1000	1086	1030	109%	103%	5.3%	106%
Cobalt	0	1000	989	979	99%	98%	1.0%	98%
Copper	0	1000	1079	1117	108%	112%	3.5%	110%
Lead	0	1000	1062	1081	106%	108%	1.8%	107%
Molybdenum	0	1000	970	936	97%	94%	3.6%	95%
Nickel	0	1000	999	983	100%	98%	1.6%	99%
Selenium	0	1000	994	1090	99%	109%	9.2%	104%
Silver	0	1000	917	933	92%	93%	1.7%	93%
Thallium	0	1000	1050	1054	105%	105%	0.4%	105%
Vanadium	0	1000	996	1011	100%	101%	1.5%	100%
Zinc	0	1000	1033	1038	103%	104%	0.5%	104%

R1..... Result of Sample Analysis
Sp..... Spike Concentration Added to Sample
MS..... Matrix Spike Result
MSD..... Matrix Spike Duplicate Result
PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100
PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100
RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Del Mar Analytical

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QC DATA REPORT

EPA METHOD: 7471
Matrix: Soil

DATE: 9/20/94

SAMPLE # DI02334

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
Mercury	0	8.0	7.7	7.0	96%	88%	9.5%	92%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; (MS-R1) / SP X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

CHAIN OF CUSTODY

Orange County Health Care Agency
Environmental Health Division
2009 E. Edinger Ave., Santa Ana, CA 92705
Telephone: (714) 667-3700

1. **ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.**

2. **PLEASE WRITE LEGIBLY.**

3. **ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.**

4. **TO BE COMPLETED BY LABORATORY ANALYST**

LAB NO.: 1197

DATE RECEIVED: 9/7/94

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: Yes COUNTY SEAL(S) INTACT: Yes

CONTAINER IN GOOD CONDITION: Yes

DATE ANALYSIS COMPLETED: 9/20/94

ANALYST: JML

5. **TO BE COMPLETED BY SAMPLE COLLECTOR**

SITE NAME/ADDRESS: 1551 E. Orangethorpe, Fullerton 92631

DATE OF COLLECTION: 9/6/94

SAMPLE COLLECTOR/COMPANY: Steve Maffei
Converse Consulting

TELEPHONE NO.: (714) 453-2880

HCA REPRESENTATIVE: McCall

6.

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS	TIME OF COLLECTION
SC-1	EPA 418.1, 8010 & (TTLC & STLC (if needed) for Title 22 heavy metals) southern clarifier		
NC-1	EPA 418.1, 8010, & (TTLC for Title 22 heavy metals) STLC if necessary northern clarifier		

7. **CHAIN OF CUSTODY**

	SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
1.	Mike McCall	OCHCA	9/6/94 - 9/6/94
2.	J. Michael Rotter	Converse	9/7/94 - 9/7/94
3.	Libby Vangelos	Del Mar Analytical	9/7/94 10:25 am.
4.			-
5.			-
6.			-

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Del Mar Analytical

2852 Alton Ave.
Irvine, CA 92714
(714) 261-1022
FAX (714) 261-1228

1014 E. Cooley Dr., Suite A
Colton, CA 92324
(909) 370-4667
FAX (909) 370-1046

16525 Sherman Way, Suite C-11
Van Nuys, CA 91406
(818) 779-1844
FAX (818) 779-1843

943 South 48th St., Suite 114
Tempe, AZ 85281
(602) 968-8272
FAX (602) 968-1338

23776

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Client Name/Address: Converse Consultants
15245 Alton
Irvine

Project: Prowestern/Fullerton

Project Manager: J. Michael Batten

Sampler: JMB

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	8010	418.1	CAC Metals						Special Instructions
SC-1	soil	brass	1	9/7/94 09:40	None	X	X	X						
NC-1	soil	brass	1	9/7/94	None	X	X	X						

Relinquished By:	Date/Time:	Received By:	Date/Time:
J. Michael Batten	9/7/94 10:24		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab By: Libby Vanderloo	Date/Time: 9/7/94 10:24 am

Note: Samples will be disposed of after 30 days.

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity: (check)
intact ✓ on ice ✓

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Client Project ID: Prowestern
Fullerton
Sample Descript: Soil, SC-1
Lab Number: DI02334

Sampled: Sep 7, 1994
Received: Sep 7, 1994
Analyzed: Sep 16, 1994
Reported: Sep 21, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	2,000	N.D.
Bromoform	2,000	N.D.
Bromomethane	2,000	N.D.
Carbon tetrachloride	2,000	N.D.
Chlorobenzene	2,000	N.D.
Chloroethane	10,000	N.D.
2-Chloroethylvinyl ether	10,000	N.D.
Chloroform	2,000	N.D.
Chloromethane	2,000	N.D.
Dibromochloromethane	2,000	N.D.
1,2-Dichlorobenzene	4,000	N.D.
1,3-Dichlorobenzene	4,000	N.D.
1,4-Dichlorobenzene	4,000	N.D.
1,1-Dichloroethane	2,000	N.D.
1,2-Dichloroethane	2,000	N.D.
1,1-Dichloroethene	2,000	N.D.
cis-1,2-Dichloroethene	2,000	N.D.
trans-1,2-Dichloroethene	2,000	N.D.
1,2-Dichloropropane	2,000	N.D.
cis-1,3-Dichloropropene	2,000	N.D.
trans-1,3-Dichloropropene	2,000	N.D.
Methylene chloride	4,000	N.D.
1,1,2,2-Tetrachloroethane	2,000	N.D.
Tetrachloroethene	**2,000**	**27,000**
1,1,1-Trichloroethane	2,000	N.D.
1,1,2-Trichloroethane	2,000	N.D.
Trichloroethene	2,000	N.D.
Trichlorofluoromethane	2,000	N.D.
Vinyl chloride	4,000	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 400.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for
Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	103%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West	Client Project ID:	Prowestern Fullerton	Sampled: Sep 7, 1994
15245 Alton Parkway, Suite 100			Received: Sep 7, 1994
Irvine, CA 92718-2307	Sample Descript:	Soil, NC-1	Analyzed: Sep 16, 1994
Attention: J. Michael Batten	Lab Number:	DI02335	Reported: Sep 21, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for
Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	97%

Del Mar Analytical

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16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West	Client Project ID: Prowestern	Sampled:	Sep 7, 1994
15245 Alton Parkway, Suite 100	Fullerton	Received:	Sep 7, 1994
Irvine, CA 92718-2307	Analysis Method: EPA 418.1 (I.R. with clean-up)	Analyzed:	Sep 15, 1994
Attention: J. Michael Batten	First Sample #: DI02334	Reported:	Sep 21, 1994

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Number	Sample Description Soil	Petroleum Hydrocarbons mg/Kg (ppm)
DI02334	SC-1	3,600
DI02335	NC-1	16

Detection Limit:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for

Gary Steube
Laboratory Director

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1228
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Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Client Project ID: Prowestern Fullerton
Sample Descript: Soil, SC-1
Lab Number: DI02334

Sampled: Sep 7, 1994
Received: Sep 7, 1994
Analyzed: Sep 13-20, 1994
Reported: Sep 21, 1994

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0	N.D.
Arsenic	6010	5	500	1.0	N.D.
Barium	6010	100	10000	0.50	13
Beryllium	6010	0.75	75	0.10	N.D.
Cadmium	6010	1	100	0.10	N.D.
Chromium, VI	7196	5	500	0.25	N.D.
Chromium, total	6010	560	2500	0.50	2.6
Cobalt	6010	80	8000	0.50	1.2
Copper	6010	25	2500	0.50	4.2
Lead	6010	5	1000	1.0	1.4
Mercury	7471	0.2	20	0.0020	N.D.
Molybdenum	6010	350	3500	0.50	N.D.
Nickel	6010	20	2000	0.50	1.7
Selenium	6010	1	100	1.0	N.D.
Silver	6010	5	500	0.50	N.D.
Thallium	6010	7	700	5.0	N.D.
Vanadium	6010	24	2400	0.50	7.1
Zinc	6010	250	5000	0.50	11

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for
Gary Steube
Laboratory Director

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1228
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Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Client Project ID: Prowestern
Fullerton
Sample Descript: Soil, NC-1
Lab Number: DI02335

Sampled: Sep 7, 1994
Received: Sep 7, 1994
Analyzed: Sep 13-20, 1994
Reported: Sep 21, 1994

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0	N.D.
Arsenic	6010	5	500	1.0	N.D.
Barium	6010	100	10000	0.50	55
Beryllium	6010	0.75	75	0.10	N.D.
Cadmium	6010	1	100	0.10	0.13
Chromium, VI	7196	5	500	0.25	N.D.
Chromium, total	6010	560	2500	0.50	10
Cobalt	6010	80	8000	0.50	4.3
Copper	6010	25	2500	0.50	14
Lead	6010	5	1000	1.0	3.8
Mercury	7471	0.2	20	0.0020	0.033
Molybdenum	6010	350	3500	0.50	N.D.
Nickel	6010	20	2000	0.50	7.2
Selenium	6010	1	100	1.0	N.D.
Silver	6010	5	500	0.50	N.D.
Thallium	6010	7	700	5.0	N.D.
Vanadium	6010	24	2400	0.50	22
Zinc	6010	250	5000	0.50	40

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for
Gary Steube
Laboratory Director

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1228
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Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Method Blank

Analyzed: Sep 16, 1994
Reported: Sep 21, 1994
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	10	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for
Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	101%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Method Blank

Analyzed: Sep 15, 1994
Reported: Sep 21, 1994
Matrix: Soil

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Description	Petroleum Hydrocarbons mg/Kg (ppm)
Method Blank	N.D.

Detection Limit:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for
Gary Steube
Laboratory Director

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1228
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Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: J. Michael Batten

Method Blank

Analyzed: Sep 13-20, 1994
Reported: Sep 21, 1994
Matrix: Soil

Analyte	EPA Method	STLC Max. Limit mg/L (ppm)	TTLC Max. Limit mg/Kg (ppm)	Detection Limit mg/Kg (ppm)	TTLC Sample Result mg/Kg (ppm)
Antimony	6010	15	500	5.0	N.D.
Arsenic	6010	5	500	1.0	N.D.
Barium	6010	100	10000	0.50	N.D.
Beryllium	6010	0.75	75	0.10	N.D.
Cadmium	6010	1	100	0.10	N.D.
Chromium, VI	7196	5	500	0.25	N.D.
Chromium, total	6010	560	2500	0.50	N.D.
Cobalt	6010	80	8000	0.50	N.D.
Copper	6010	25	2500	0.50	N.D.
Lead	6010	5	1000	1.0	N.D.
Mercury	7471	0.2	20	0.0020	N.D.
Molybdenum	6010	350	3500	0.50	N.D.
Nickel	6010	20	2000	0.50	N.D.
Selenium	6010	1	100	1.0	N.D.
Silver	6010	5	500	0.50	N.D.
Thallium	6010	7	700	5.0	N.D.
Vanadium	6010	24	2400	0.50	N.D.
Zinc	6010	250	5000	0.50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for

Gary Steube
Laboratory Director

CHAIN OF CUSTODY

Orange County Health Care Agency
Environmental Health Division
2009 E. Edinger Ave., Santa Ana, CA 92705
Telephone: (714) 667-3700

1. **ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.**

2. **PLEASE WRITE LEGIBLY.**

3. **ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.**

4. **TO BE COMPLETED BY LABORATORY ANALYST**

LAB NO.: 1197

DATE RECEIVED: 9/7/94

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: Yes COUNTY SEAL(S) INTACT: Yes

CONTAINER IN GOOD CONDITION: Yes

DATE ANALYSIS COMPLETED: 9/20/94

ANALYST: [illegible]

5. **TO BE COMPLETED BY SAMPLE COLLECTOR**

SITE NAME/ADDRESS: 1551 E. Orangethorpe, Fullerton 92631

DATE OF COLLECTION: 9/6/94

SAMPLE COLLECTOR/COMPANY: Steve Maffei
Converse Consulting

TELEPHONE NO.: (714) 453-2880

HCA REPRESENTATIVE: McCall

6.

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS	TIME OF COLLECTION
SC-1	EPA 418.1, 8010 & (TTLC & STLC (if needed) for Title 22 heavy metals) southern clarifier		
NC-1	EPA 418.1, 8010, & (TTLC for Title 22 heavy metals) STLC if necessary northern clarifier		

7. **CHAIN OF CUSTODY**

1. Mike McCall	OCHCA	9/6/94 - 9/6/94	1025
2. J. Michael Converse	Converse	9/7/94 - 9/7/94	
3. Libby Vanaclocha	Del Mar Analytical	9/7/94 10:25 am.	
4.		-	
5.		-	
6.		-	
SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES	

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Del Mar Analytical

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FAX (818) 779 1843

943 South 48th St., Suite 114
Tempe, AZ 85281
(602) 968-8272
FAX (602) 968 1338

23776

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Client Name/Address: Converse Consultants, 15245 Alton, Irvine

Project: Prowestern/Fullerton

Project Manager: J. Michael Batten

Sampler: JMB

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	8010	418.1	CAC Metals						Special Instructions
SC 1	soil	brass	1	9/7/94 09:40	None	X	X	X						
NC-1	soil	brass	1	9/7/94	None	X	X	X						

Relinquished By: J. Michael Batten Date/Time: 9/7/94 10:24

Received By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Relinquished By: Date/Time:

Received in Lab By: L. Ch. Vanalos Date/Time: 9/7/94 10:24 ar

Note: Samples will be disposed of after 30 days

Turnaround Time: (check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal X

Sample Integrity: (check)

intact ✓ on ice ✓

Reference:
Converse, 1994b

CONVERSE CONSULTANTS
ORANGE COUNTY

Consulting Engineering
and Applied Sciences

15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307

Telephone (714) 453-2880
Facsimile (714) 453-2888

November 11, 1994

Mr. Louis Lodrigueza
Orange County Health Care Agency
2009 East Edinger Avenue
Santa Ana, California 92705

Subject: **SITE CHARACTERIZATION SUMMARY REPORT**
Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California
(Converse Project No. 94-42871-03)

Dear Mr. Lodrigueza:

Converse Consultants Orange County (Converse), on behalf of Red Eagle Properties, is pleased to present this Site Characterization Summary Report. This report documents the general activities at the referenced property associated with tetrachloroethene (PCE) and petroleum hydrocarbon contamination, discovered during the removal of the southern clarifier. For site vicinity, see Figure 1.

Background

Two clarifiers were discovered during a previous Preliminary Site Assessment of the subject property conducted by Converse in 1992. The clarifiers were located in the northeast section of the property. The clarifiers were removed in September 1994 (see Converse report dated October 18, 1994).

Two soil samples (NC-1 from the north clarifier and SC-1 from the south clarifier) were obtained from the bottom of the clarifier excavations from depths of approximately 12 feet below ground surface (bgs) under the direction of Mr. Mike McCall of the Orange County Health Care Agency (OCHCA) and submitted to a state certified laboratory for analysis. The soil samples were analyzed in accordance with United States Environmental Protection Agency (EPA) methods 8010 (halogenated volatile organics) and 418.1 (total recoverable petroleum hydrocarbons [TRPH]), and California Code of Regulations Title 22 metals.

Sample NC-1 revealed 16 parts per million (ppm) of TRPH. Trace amounts of several metals were detected, but all detected metals were below the regulatory action levels established in CCR Title 22 for persistent and bioaccumulative toxic substances. No target compounds of halogenated volatile organics were detected in NC-1.

Sample SC-1 revealed 27,000 ppb of PCE and 3,600 ppm of TRPH in the soil. Trace amounts of several metals were detected, but all detected metals were below the regulatory action levels established in CCR Title 22 for persistent and bioaccumulative toxic substances. See Figure 2 for the site layout map.

Converse recommended that a limited site characterization be conducted at the property to determine the vertical extent of contamination in the soil, and submitted a work plan to the OCHCA for approval (see Converse Work Plan, dated October 18, 1994). The excavation was backfilled using a mixture of the excavated soil and imported fill material on September 7, 1994 (Converse did not observe the backfilling activities).

Field Activities

On October 21, 1994, Converse advanced one soil boring (BH-1) using a Geoprobe Systems sampling technique to a depth of 40 feet bgs in the center of the former southern clarifier excavation (see Figure 3). Soil samples were obtained a five-foot intervals (beginning at 10 feet bgs). Due to malfunctioning equipment, field screening of the soil samples using an organic vapor analyzer were not possible. At the completion of the boring, the borehole was backfilled with bentonite chips and hydrated with purified water. See Appendix A for field methodologies.

Soil Analytical Results

Six (6) soil samples were submitted to a state certified laboratory for analysis. The samples were analyzed in accordance with EPA methods 8010 (PCE) and 418.1 (TRPH). The analytical results are tabulated as follows:

TABLE I
Soil Analytical Results
Fullerton Business Park North
Fullerton, California

Sample No.	PCE (ppb)	TRPH (ppm)
BH-1 @ 15'	ND(5.0)	ND(5.0)
BH-1 @ 20'	17	ND(5.0)
BH-1 @ 25'	ND(5.0)	10
BH-1 @ 30'	38	12
BH-1 @ 35'	ND(5.0)	9.5
BH-1 @ 40'	ND(5.0)	12

PCE = Tetrachloroethene
TRPH = Total Recoverable Petroleum Hydrocarbons
ppb = parts per billion (ug/Kg)
ppm = parts per million (mg/Kg)
ND = not detected (detection limit)

The sample obtained from 10 feet bgs was not analyzed, since the depth of the samples taken during the clarifier removal was approximately 12 feet bgs. For a complete copy of the analytical results, see Appendix B.

Soil Conditions and Other Observations

Generally, the subsurface soil conditions consist of medium to coarse grained sand to approximately 9 to 12 feet bgs (backfill). The remaining soils observed to 35 feet consist of interbedded sandy silts to silty clays. Medium grained sand was encountered at 40 feet bgs. See Appendix C for the boring log of BH-1.

Ground water is estimated at a depth of approximately 60 feet bgs in the area, based on information obtained from near-by monitoring wells. The gradient is believed to be towards the southwest.

Conclusions

Based on the findings from the vertical characterization activities, it does not appear that serious contamination of the soil from PCE or TRPH exists at depth beneath the former clarifier. Concentrations of PCE detected during the characterization study ranged from not detected to 38 ppb, and TRPH concentrations detected ranged from not detected to 12 ppm. (In Fullerton, these levels can be attributed to background organics in the soil.)

Since the depth of contamination beneath the former clarifier is minor (the sample analyzed from 15 feet bgs did not show detectable concentrations of the target contaminants), and ground water is believed to be approximately 30 feet below the identified vertical extent of PCE contamination, Converse is of the opinion that no further investigation is necessary at this site, and we request closure of the case for this site.

Limitations

The findings presented herein are based on our evaluation of currently available data and were prepared in accordance with generally accepted environmental principles common to the local area in which we practice. We make no other warranty, either expressed or implied.

Converse is not responsible for the accuracy of information provided by others. This report should not be regarded as a guarantee that no subsurface contamination is present at the property beyond what has been disclosed. There may be subsurface conditions that cannot be reasonably predicted with the services performed to-date.

If you have any questions, please contact us at (714) 453-2880.

Sincerely,

CONVERSE CONSULTANTS ORANGE COUNTY

J. Michael Batten
Project Geologist

Thomas J. Scheil, RGE 753
Vice President and
Principal Engineer

JMB/GSS/TJS

References: Converse Consultants Orange County, "Clarifier Removal and Soil Analysis, Fullerton Business Park North," October 18, 1994.

Converse Consultants Orange County, "Work Plan for Site Characterization, Fullerton Business Park North," October 18, 1994.

Enclosures:
Figure 1 - Vicinity Map
Figure 2 - Site Layout Map
Figure 3 - Detail Map
Appendix A - Field Methodologies
Appendix B - Analytical Report
Appendix C - Boring Log

Distribution:
1 addressee
1 Mr. Robert Holub, Santa Ana Regional Water Quality Control Board
2 Mr. Carl Ross, Red Eagle Properties
1 Mr. Mark Boen, Red Eagle Properties

FIGURES

Reference: U.S.G.S Topographic Map. 7.5 Minute Series. Anaheim, California Quadrangle. Dated 1965. (Photorevised 1981).

0 2000 4000

SCALE IN FEET

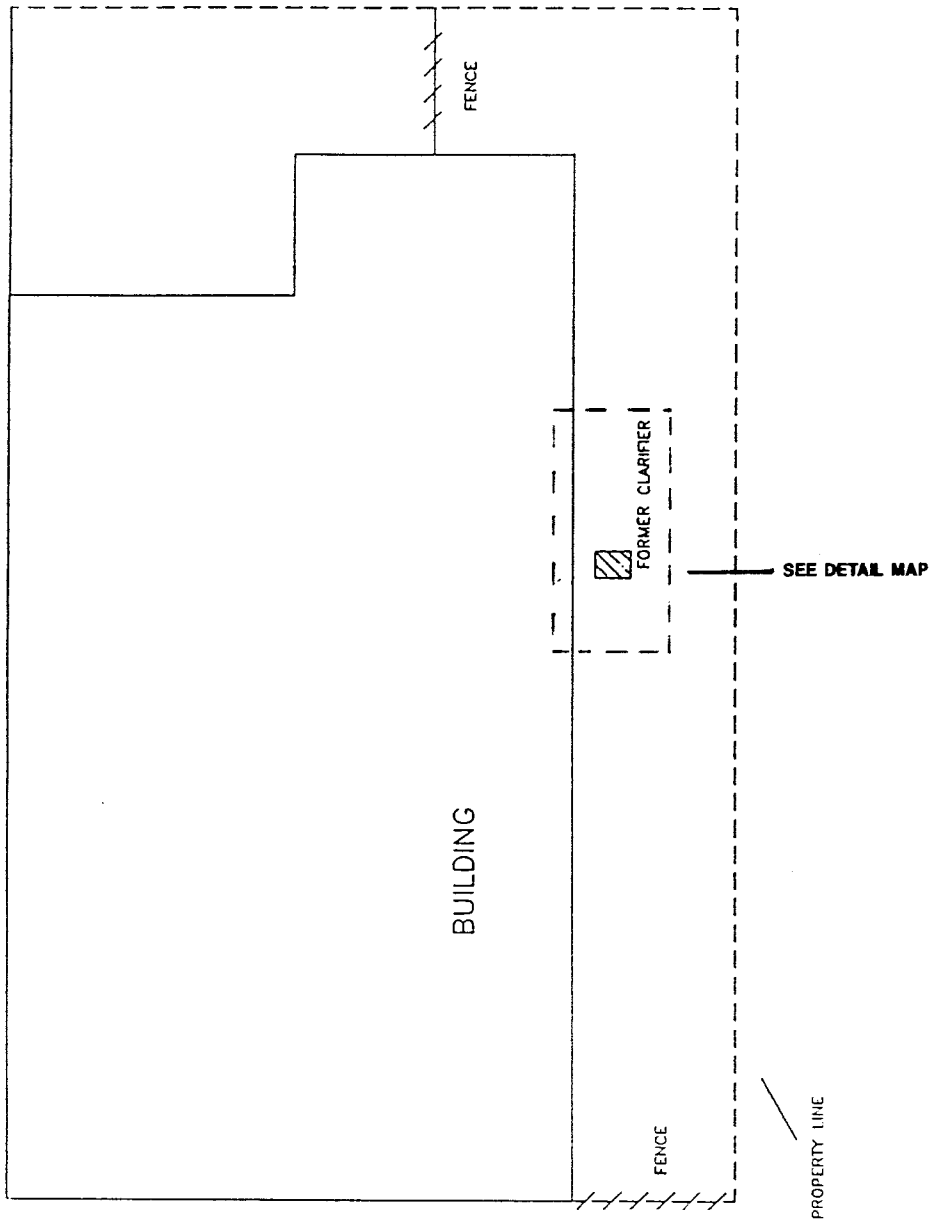
VICINITY MAP

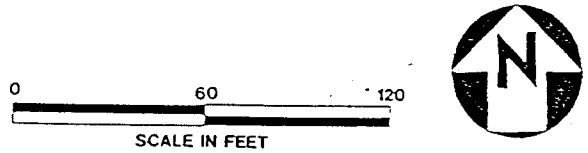
SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No. 94-42871-03

Figure No. 1

Converse Consultants Orange County
Geotechnical Engineering and Applied Sciences





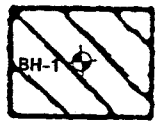
Converse Consultants
Orange County
Consulting Engineering and Applied Sciences

SITE LAYOUT MAP

Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California

DATE: 11/14/94	PROJECT NO: 94-42871-03	FIGURE NO: 2
SCALE: 1" = 60'	CHECKED BY:

NOTE:
This figure is part of Converse Consultants Orange County report dated 11/11/94.



FORMER CLARIFIER

N

Converse Consultants
Orange County
Consulting Engineering and Applied Sciences

DETAIL MAP

Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California

DATE: 11/14/94	PROJECT NO: 94-42871-03	FIGURE NO: 3
SCALE: 1" = 60'	CHECKED BY:	

NOTE:
This figure is part of Converse Consultants Orange County report dated 11/14/94 .

APPENDIX A

FIELD METHODOLOGIES

Geoprobe Advancement

The exploration program for this study consisted of Geoprobe probe advancement and drive sampling for the collection of soil samples. The probe was advanced on October 21, 1994 by Pacific On-Site Services using a Geoprobe Systems probing machine.

Probe advancement was conducted such that the location was open to the atmosphere (air-filled) during advancement. No fluids, including clean water, or additives were used during probe advancement.

Drive Sampling

Drive soil samples were collected from the probe location BH-1 at specified depth intervals (typically 5-foot). Soil samples were obtained by driving a 1-inch diameter steel driving tube at the end of a percussion drill steel. The sampling tube was equipped with a steel drive head which was withdrawn, via the extending rod, at the upper limit of the desired sample interval. The tube was then driven into the undisturbed soil and an approximately 100 gram sample was collected over a 1-foot vertical interval. The sample was then brought to the ground surface by withdrawing the sections of drill steel.

After the sampler was removed from the probe location, the soil sample for chemical analyses was inspected to verify that there was no head space in the sample. If gravel extended from the sample, or head space was observed in the soil sample, the sample was considered invalid and an additional attempt was made to collect a valid sample. If the retrieved sample was considered valid, the brass sleeve was covered with teflon sheeting and tightly capped.

Once at the ground surface, the soil sampling tube was capped, placed into a polyethylene bag, labeled, and placed into a cooler with ice to maintain a temperature of 39°F (4°C) during transport and storage prior to chemical analysis. Soil samples were collected, stored, transported and analyzed in accordance with EPA Sample Collection Codes. A Chain-of-Custody record was maintained throughout the operation. Del Mar Analytical in Irvine, California (State certified laboratory) chemically analyzed selected samples in accordance with EPA Methods 8010 and 418.1.

After a soil sample was collected, the sampling equipment was washed with alcanox and rinsed.

Chain-of-Custody Procedures

Chain-of-Custody procedures were maintained for all soil samples collected. This form was completed by the sample collector before releasing the samples for transportation to the laboratory. The chain-of-custody form was routed with the samples through transportation and analyses. Completed chain-of-custody forms were returned to Converse along with the results from the analytical laboratory. These forms are retained by Converse in the Central Project Files, and are included in Appendix B.

APPENDIX B

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1228
1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 94-42871-03
Red Eagle/Fullerton
Sample Descript: Soil, BH-1 @ 15'
Lab Number: DJ04047

Sampled: Oct 21, 1994
Received: Oct 21, 1994
Analyzed: Oct 27, 1994
Reported: Oct 28, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Tetrachloroethene	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Robert D. Edwards for
Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	81%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 94-42871-03
Red Eagle/Fullerton
Sample Descript: Soil, BH-1 @ 20'
Lab Number: DJ04048

Sampled: Oct 21, 1994
Received: Oct 21, 1994
Analyzed: Oct 27, 1994
Reported: Oct 28, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Tetrachloroethene	5.0	17

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for
Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	81%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West	Client Project ID:	94-42871-03	Sampled: Oct 21, 1994
15245 Alton Parkway, Suite 100		Red Eagle/Fullerton	Received: Oct 21, 1994
Irvine, CA 92718-2307	Sample Descript:	Soil, BH-1 @ 25'	Analyzed: Oct 27, 1994
Attention: Mike Batten	Lab Number:	DJ04049	Reported: Oct 28, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Tetrachloroethene	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for
Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	82%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 94-42871-03
Red Eagle/Fullerton
Sample Descript: Soil, BH-1 @ 30'
Lab Number: DJ04050

Sampled: Oct 21, 1994
Received: Oct 21, 1994
Analyzed: Oct 27, 1994
Reported: Oct 28, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Tetrachloroethene	5.0	38

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for
Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	81%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West	Client Project ID:	94-42871-03	Sampled: Oct 21, 1994
15245 Alton Parkway, Suite 100		Red Eagle/Fullerton	Received: Oct 21, 1994
Irvine, CA 92718-2307	Sample Descript:	Soil, BH-1 @ 35'	Analyzed: Oct 27, 1994
Attention: Mike Batten	Lab Number:	DJ04051	Reported: Oct 28, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Tetrachloroethene	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for
Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	82%

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16525 Sherman Way, Suite C-11, Van Nuys, CA 91406 (818) 779-1844 FAX (818) 779-1843
2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West	Client Project ID:	94-42871-03	Sampled: Oct 21, 1994
15245 Alton Parkway, Suite 100		Red Eagle/Fullerton	Received: Oct 21, 1994
Irvine, CA 92718-2307	Sample Descript:	Soil, BH-1 @ 40'	Analyzed: Oct 27, 1994
Attention: Mike Batten	Lab Number:	DJ04052	Reported: Oct 28, 1994

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Tetrachloroethene	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	84%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 94-42871-03
Red Eagle/Fullerton
Analysis Method: EPA 418.1 (I.R. with clean-up)
First Sample #: DJ04047

Sampled: Oct 21, 1994
Received: Oct 21, 1994
Analyzed: Oct 27, 1994
Reported: Oct 28, 1994

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Number	Sample Description Soil	Petroleum Hydrocarbons mg/Kg (ppm)
DJ04047	BH-1 @ 15'	N.D.
DJ04048	BH-1 @ 20'	N.D.
DJ04049	BH-1 @ 25'	10
DJ04050	BH-1 @ 30'	12
DJ04051	BH-1 @ 35'	9.5
DJ04052	BH-1 @ 40'	12

Detection Limit:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Oct 27, 1994
Reported: Oct 28, 1994
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Tetrachloroethene	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Roberta D. Edwards for
Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	83%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Environmental West
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Oct 27, 1994
Reported: Oct 28, 1994
Matrix: Soil

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Description	Petroleum Hydrocarbons mg/Kg (ppm)
Method Blank	N.D.

Detection Limit:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

QC DATA REPORT

EPA METHOD **8010**
Matrix: Soil

DATE: 10/27/94

SAMPLE # DJ04052

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppb	ppb	ppb	ppb	%	%	%	%
1,1-Dichloroethene	0	25	29	28	116%	112%	3.5%	114%
1,1,1-Trichloroethane	0	25	25	26	100%	104%	3.9%	102%
Trichloroethene	0	25	22	23	88%	92%	4.4%	90%
Chlorobenzene	0	25	27	27	108%	108%	0.0%	108%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Del Mar Analytical

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1014 E. Cooley Dr., Suite A, Colton, CA 92324 (909) 370-4667 FAX (909) 370-1046
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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

QC DATA REPORT

EPA METHOD: **418.1**
Matrix: Soil

DATE: 10/27/94

SAMPLE # Blank

Analyte	R1	Sp	MS	MSD	PR1	PR2	RPD	MEAN PR
	ppm	ppm	ppm	ppm	%	%	%	%
Hydrocarbons	0	60	55	57	92%	95%	3.6%	93%

Definition of Terms:

R1..... Result of Sample Analysis

Sp..... Spike Concentration Added to Sample

MS..... Matrix Spike Result

MSD..... Matrix Spike Duplicate Result

PR1..... Percent Recovery of MS; ((MS-R1) / SP) X 100

PR2..... Percent Recovery of MSD; ((MSD-R1) / SP) X 100

RPD..... Relative Percent Difference; ((MS-MSD)/(MS+MSD)/2)) X 100

Del Mar Analytical

Del Mar Analytical

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16525 Sherman Way, Suite C-11
Van Nuys, CA 91406
(818) 779-1844
FAX (818) 779-1843

943 South 48th St., Suite 114
Tempe, AZ 85281
(602) 968-8272
FAX (602) 968-1338

23774

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Client Name/Address: Converse / Irvine

Project: 94-42.871-03 Red Eagle / Fullerton

Project Manager: Michael Batten

Sampler: JMB

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	8010 (PCE)	418.1							Special Instructions
						Analysis Required								
BH-1@10'	soil	brass	1	10/21	none									HOLD
BH-1@15'						X	X		UST Investigation					
BH-1@20'						X	X							
BH-1@25'						X	X							
BH-1@30'						X	X							
BH-1@35'						X	X							
BH-1@40'						X	X							

Relinquished By: J. Michael Batten Date/Time: 15:05 10/21/94

Received By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Relinquished By: Date/Time:

Received in Lab By: Libby Vangelos Date/Time: 3:05 pm 10/21/94

Note: Samples will be disposed of after 30 days.

Turnaround Time: (check)

same day ____ 72 hours ____

24 hours ____ 5 days X

48 hours ____ normal ____

Sample Integrity: (check)

intact ✓ on ice ✓

APPENDIX C

CONVERSE ENVIRONMENTAL WEST - O.C.

SHEET 1 OF 2

LOG OF: BH-1

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	N/A
PROJECT NO.	94-42871-03	DRILLER(S)	PACIFIC ON-SITE
SITE GEOLOGIST(S)	JMB	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 40.50	WELL CONST TD(ft) N/A
ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	
GRADE LEVEL(ft)	N/A	CITY FULLERTON	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	10/21/94	ATD		N/A
WELL CONST	N/A	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	10/21/94	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl Scr Smd Sfn Slt Cl

PID/OVA CALIBRATION DATE: 10/20/94 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0					ASPHALT
1		5			dry	SP	SAND:MED. TO COARSE GRAIN,LT. BROWN,DRY.
2		10			sm	ML	SANDY SILT TO SILTY CLAY:DRK. BROWN,SLIGHTLY MOIST.
3		15			m	SM	SANDY SILT:DRK. BROWN,MOIST.
4		20			m	SM	SILTY SAND:FINE GRAIN,MOIST.
		25					

DESCRIPTION
OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-03

LOG OF: BH-1

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl | Scr | Smd | Sfn | Slt | Cl

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25					OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
5		30			■	CL	SILTY CLAY:TRACE SAND,DRK. BROWN,MOIST.
6		35			■	ML	SANDY-CLAYEY SILT:MED. BROWN,MED. TO FINE GRAIN SAND.
7		40			dry	SP	SAND:MED. GRAIN,LT. BROWN,MOIST.
		45					PROBE TOTAL DEPTH = 40.5 FEET BGS. NO GROUNDWATER WAS ENCOUNTERED.
		50					
		55					
		60					
		65					

Reference:
Converse, 1994c

CONVERSE CONSULTANTS
ORANGE COUNTY

Consulting Engineering
and Applied Sciences

15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307

Telephone (714) 453-2880
Facsimile (714) 453-2888

December 13, 1994

Mr. Louis Lodrigueza
Orange County Health Care Agency
2009 East Edinger Avenue
Santa Ana, California 92705

Subject: **SUMMARY REPORT**
ADDITIONAL SITE CHARACTERIZATION
Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California
(Converse Project No. 94-42871-03)

Dear Mr. Lodrigueza:

Converse Consultants Orange County (Converse), on behalf of Red Eagle Properties, is pleased to present this Summary Report for Additional Site Characterization activities at the referenced property. This report documents the general activities at the referenced property associated with tetrachloroethene (PCE) contamination, discovered during the removal of the southern clarifier. For site vicinity, see Figure 1.

Background

Two clarifiers were discovered during a previous Preliminary Site Assessment of the subject property conducted by Converse in 1992. The clarifiers were located in the northeast section of the property. The clarifiers were removed in September 1994 (see Converse report dated October 18, 1994).

Two soil samples (NC-1 from the north clarifier and SC-1 from the south clarifier) were obtained from the bottom of the clarifier excavations from depths of approximately 12 feet below ground surface (bgs) under the direction of Mr. Mike McCall of the Orange County Health Care Agency (OCHCA) and submitted to a state certified laboratory for analysis. The soil samples were analyzed in accordance with United States Environmental Protection Agency (EPA) methods 8010 (halogenated volatile organics) and 418.1 (total recoverable petroleum hydrocarbons [TRPH]), and California Code of Regulations Title 22 metals.

Sample NC-1 revealed 16 parts per million (ppm) of TRPH. Trace amounts of several metals were detected, but all detected metals were below the regulatory action levels established in CCR Title 22 for persistent and bioaccumulative toxic substances. No target compounds of halogenated volatile organics were detected in NC-1.

Sample SC-1 revealed 27,000 ppb of PCE and 3,600 ppm of TRPH in the soil. Trace amounts of several metals were detected, but all detected metals were below the regulatory action levels established in CCR Title 22 for persistent and bioaccumulative toxic substances. See Figure 2 for the site layout map.

Converse conducted a limited site characterization study on October 21, 1994. The study consisted of advancing one boring to a depth of 40 feet below ground surface and obtaining soil samples at five foot intervals. The soil samples were then analyzed for PCE in accordance with EPA method 8010 and TRPH in accordance with EPA method 418.1. Low levels of PCE and TRPH were found in the soil (see Converse report dated November 11, 1994).

We were then advised by you that the Regional Water Quality Control Board verbally requested three additional borings be advanced to verify that contamination had not spread laterally.

Field Activities

On December 2, 1994, Converse advanced six (6) soil borings (BH-2 through BH-7) using a Geoprobe Systems sampling technique. Initial depths of 15 feet bgs were targeted for investigation. Soil samples were obtained from 15 feet bgs, and were field screened using an organic vapor analyzer (OVA). Soil samples were then submitted to an on-site mobil laboratory for analysis. Borings from which the soil sample exhibited elevated levels of PCE were advanced further, and samples were obtained at five-foot intervals. Additional borings were located based on soil analytical results from previous borings. At the completion of the boring activities, the boreholes were backfilled with bentonite chips and hydrated with purified water. See Appendix A for field methodologies.

Soil Analytical Results

A total of 17 soil samples were submitted to the mobil laboratory for analysis. The samples were analyzed in accordance with EPA methods 8010 (PCE). The analytical results, along with the results from boring BH-1 (see Converse report dated November 11, 1994) are tabulated as follows:

TABLE I
PCE LEVELS IN SOIL SAMPLES
FULLERTON BUSINESS PARK NORTH
FULLERTON, CA

DEPTH BELOW GROUND SURFACE	BORING NUMBER						
	BH-1	BH-2	BH-3	BH-4	BH-5	BH-6	BH-7
15'bgs	ND	3,500	270	ND	84,500	ND	130
20'bgs	17	320	ND	--	96,000	--	330
25'bgs	ND	1,950	8,900		88,000		ND
30'bgs	38	ND	= =		= =		= =
35'bgs	ND	ND					
40'bgs	ND	ND					

results in ppb
ND = not detected
-- = boring terminated at 16 feet
= = = boring terminated at 26 feet

For a complete copy of the analytical results, see Appendix B.

Soil Conditions and Other Observations

Generally, the subsurface soil conditions consist primarily of clayey silts and silty clays encountered at approximately 15 feet bgs and extending to approximately 20 feet bgs. Some fine grained sand with silt was encountered at 20 feet bgs in BH-2 and BH-3, extending to approximately 40 feet bgs in BH-2, where more clayey silt was encountered. See Appendix C for the boring logs.

Ground water was not encountered in any borings, and is estimated at a depth of approximately 60 feet bgs in the area, based on information obtained from near-by monitoring wells. The gradient is believed to be towards the southwest.

Conclusions

Based on the findings from the additional characterization activities, it appears that contamination of the soil from PCE exists laterally to the west and northwest of the former clarifier. Concentrations of PCE detected during the characterization study ranged from not detected to 96,000 ppb (96 ppm). However, based on the nature of the soils (silts and clays) and the existence of concrete and asphalt barriers, we believe it is unlikely that the detected contamination will effect the occupants of the building on the property.

Limitations

The findings presented herein are based on our evaluation of currently available data and were prepared in accordance with generally accepted environmental principles common to the local area in which we practice. We make no other warranty, either expressed or implied.

Converse is not responsible for the accuracy of information provided by others. This report should not be regarded as a guarantee that no subsurface contamination is present at the property beyond what has been disclosed. There may be subsurface conditions that cannot be reasonably predicted with the services performed to-date.

If you have any questions, please contact us at (714) 453-2880.

Sincerely,

CONVERSE CONSULTANTS ORANGE COUNTY

J. Michael Batten
Project Geologist

Thomas J. Scheil, RGE 753
Vice President and
Principal Engineer

JMB/GSS/TJS

References: Converse Consultants Orange County, "Clarifier Removal and Soil Analysis, Fullerton Business Park North," October 18, 1994.

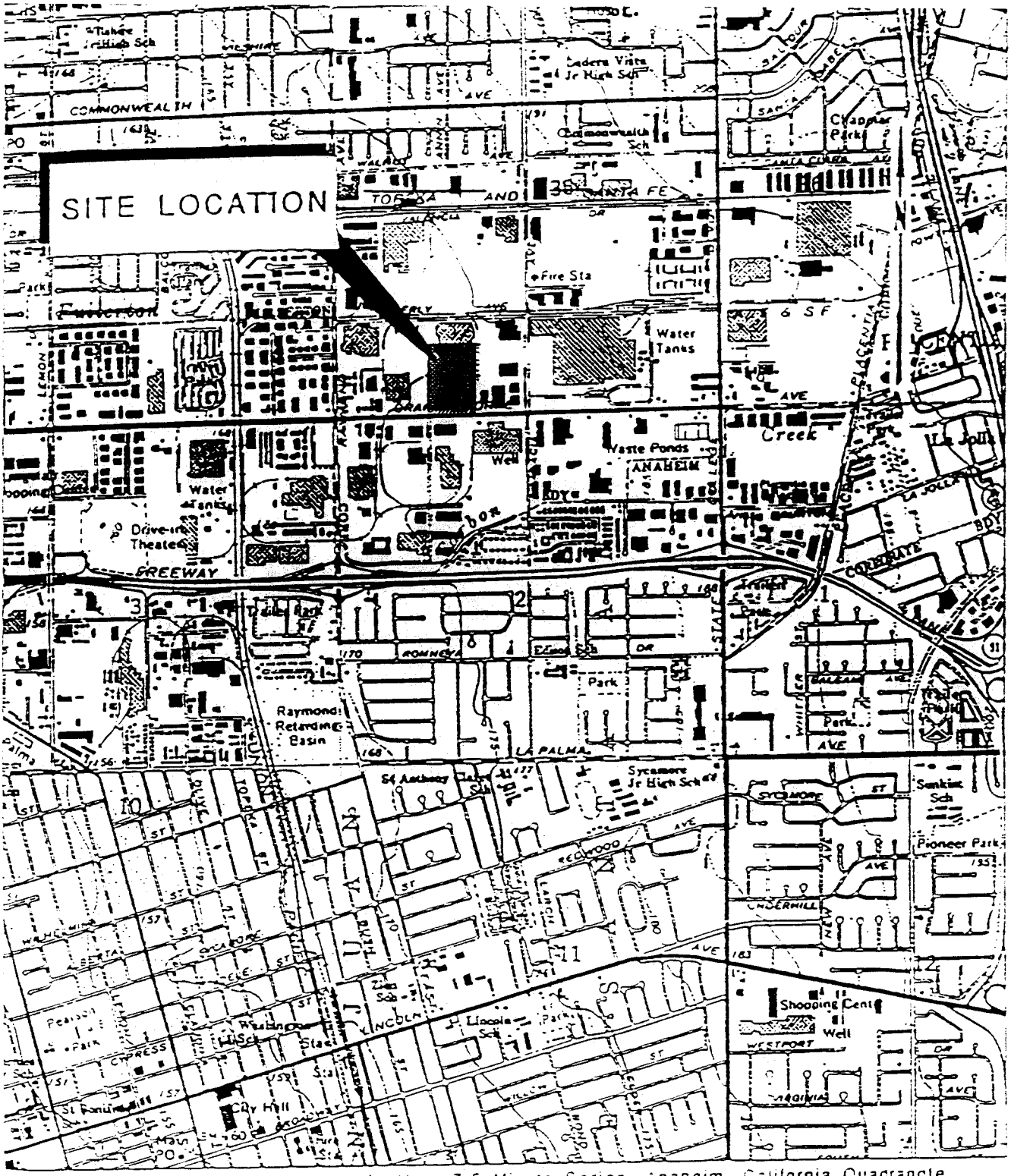
Converse Consultants Orange County, "Work Plan for Site Characterization, Fullerton Business Park North," October 18, 1994.

Converse Consultants Orange County, "Site Characterization Summary Report, Fullerton Business Park North," November 11, 1994.

Enclosures: Figure 1 - Vicinity Map
Figure 2 - Site Layout Map
Figure 3 - Detail Map
Appendix A - Field Methodologies
Appendix B - Analytical Report
Appendix C - Boring Logs

Distribution: 1 addressee
1 Mr. Robert Holub, Santa Ana Regional Water Quality Control Board
2 Mr. Carl Ross, Red Eagle Properties
1 Mr. Mark Boen, Red Eagle Properties

FIGURES



Reference: U.S.G.S Topographic Map, 7.5 Minute Series, Anaheim, California Quadrangle, Dated 1965, (Photorevised 1981).

0 2000 4000

SCALE IN FEET

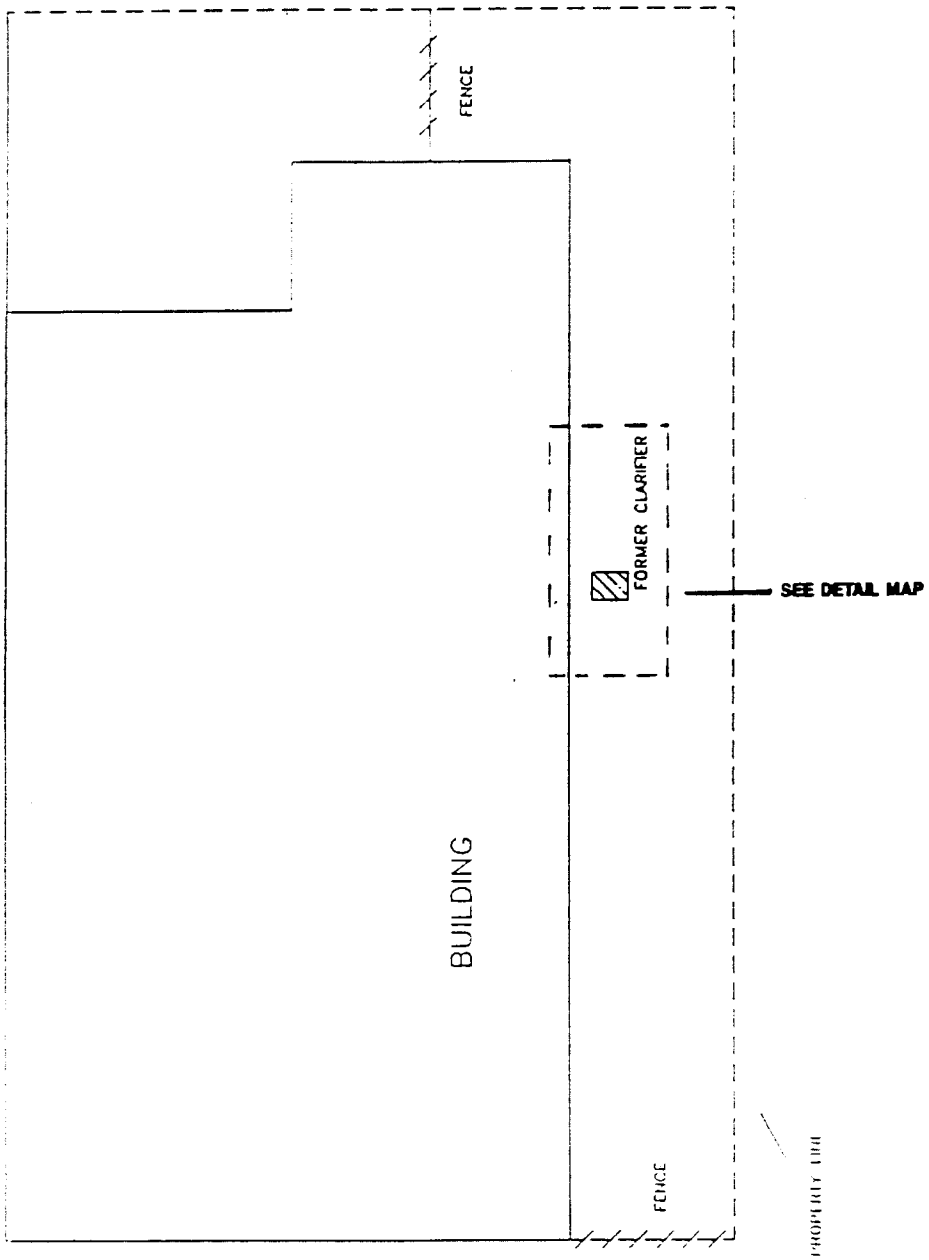
VICINITY MAP

SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No.
94-42871-03

Converse Consultants
Geotechnical Engineering and Applied Sciences

Figure No.
1



0 60 120

SCALE IN FEET

N

Converse Consultants
Orange County
Consulting Engineering and Applied Sciences

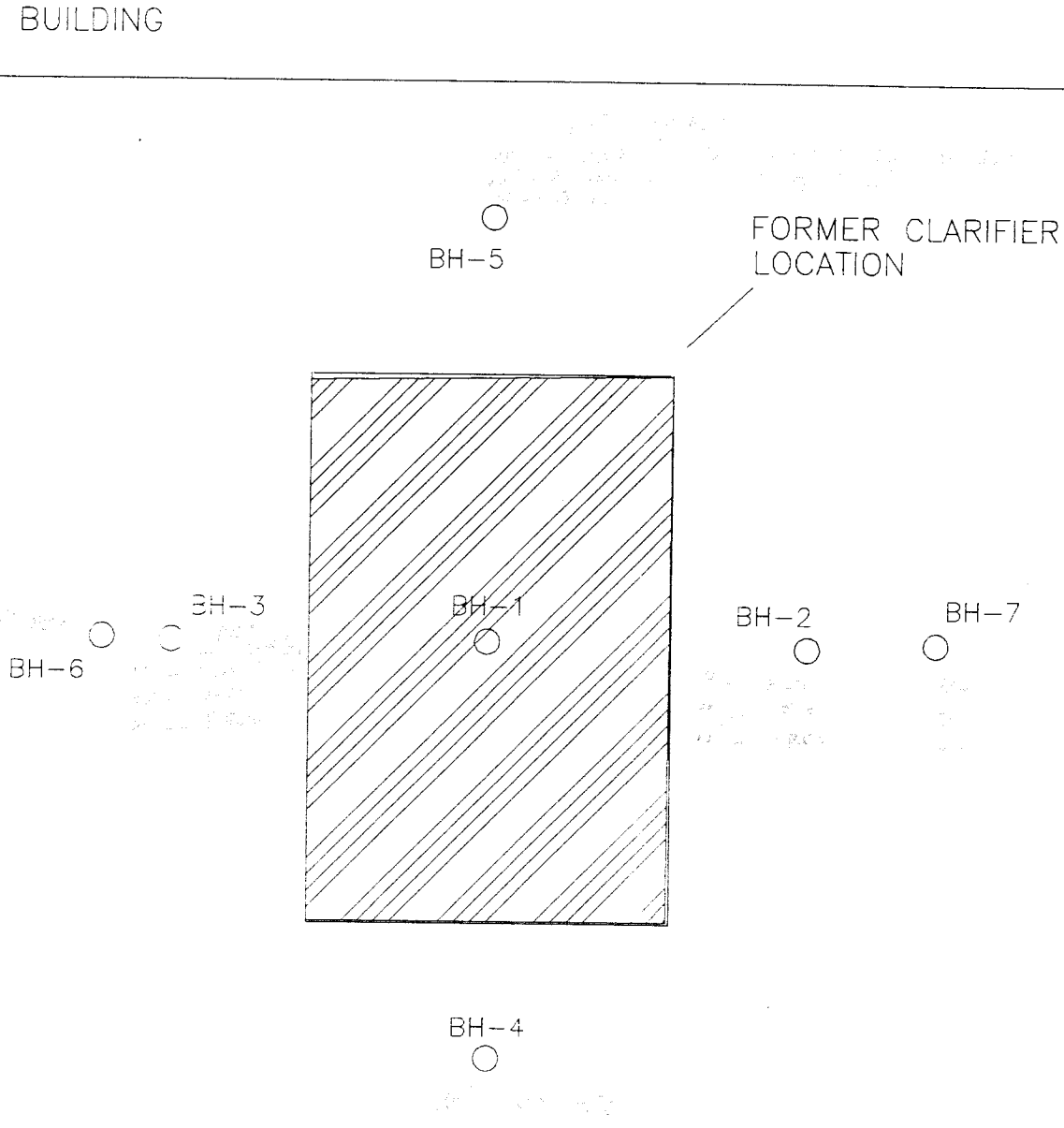
SITE LAYOUT MAP

Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California

DATE: 11/14/94	PROJECT NO: 94-42871-03	FIGURE NO: 2
SCALE: 1" = 60'	CHECKED BY:	

NOTE:

This figure is part of Converse Consultants Orange County report dated



NOTE:
This figure is part of Converse Consultants Orange County report dated _____

Converse Consultants Orange County
Consulting Engineering and Applied Sciences

SITE LAYOUT MAP

Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California

DATE: 12/12/94	PROJECT NO: 9442871-03	FIGURE NO: 3
SCALE: 1" = 4'	CHECKED BY:	

APPENDIX A

FIELD METHODOLOGIES

Geoprobe Advancement

The exploration program for this study consisted of Geoprobe probe advancement and drive sampling for the collection of soil samples. The probe was advanced on December 2, 1994 by Pacific On-Site Services using a Geoprobe Systems probing machine.

Probe advancement was conducted such that the locations were open to the atmosphere (air-filled) during advancement. No fluids, including clean water, or additives were used during probe advancement.

Drive Sampling

Drive soil samples were collected from the probe locations at specified depth intervals (typically 5-foot). Soil samples were obtained by driving a 1-inch diameter steel driving tube at the end of a percussion drill steel. The sampling tube was equipped with a steel drive head which was withdrawn, via the extending rod, at the upper limit of the desired sample interval. The tube was then driven into the undisturbed soil and an approximately 100 gram sample was collected over a 1-foot vertical interval. The sample was then brought to the ground surface by withdrawing the sections of drill steel.

After the sampler was removed from the probe location, the soil sample for chemical analyses was inspected to verify that there was no head space in the sample. If gravel extended from the sample, or head space was observed in the soil sample, the sample was considered invalid and an additional attempt was made to collect a valid sample. If the retrieved sample was considered valid, the brass sleeve was covered with teflon sheeting and tightly capped.

Once at the ground surface, the soil sampling tube was capped, placed into a polyethylene bag, labeled, and immediately submitted to an on-site mobil laboratory for analaysis. Soil samples were collected, stored, transported and analyzed in accordance with EPA Sample Collection Codes. A Chain-of-Custody record was maintained throughout the operation. Analytical Laboratories of Orange, California (State certified laboratory) chemically analyzed selected samples in accordance with EPA Method 8010.

After a soil sample was collected, the sampling equipment was washed with alcanox and rinsed.

Chain-of-Custody Procedures

Chain-of-Custody procedures were maintained for all soil samples collected. This form was completed by the sample collector before releasing the samples to the laboratory. The chain-of-custody form was routed with the samples through transportation and analyses.

Completed chain-of-custody forms were returned to Converse along with the results from the analytical laboratory. These forms are retained by Converse in the Central Project Files, and are included in Appendix B.

APPENDIX B

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900
FAX 714/538-1209

DEC 0 6 1994
RECEIVED

CLIENT

Converse Consultants
Attn: Michael Batten
15245 Alton Pkwy.
Suite 100
Irvine, CA 92718

LAB NO ML00776
REPORTED 12/05/94

SAMPLE Soil
RECEIVED 12/02/94

IDENTIFICATION Red Eagle
1551 Orangethorpe, Fullerton

BASED ON SAMPLE As Submitted to Our Mobile Laboratory

Tetrachloroethene EPA 8010

BH2 @ 15'	3,500 µg/kg
BH3 @ 15'	270 µg/kg
BH4 @ 15'	ND<10 µg/kg
BH2 @ 20'	320 µg/kg
BH2 @ 25'	1,950 µg/kg
BH5 @ 15'	84,500 µg/kg
BH3 @ 20'	ND<10 µg/kg
BH3 @ 25'	8,900 µg/kg
BH6 @ 15'	ND<10 µg/kg
BH7 @ 15'	130 µg/kg
BH7 @ 20'	330 µg/kg
BH7 @ 25'	ND<10 µg/kg
BH2 @ 30'	ND<10 µg/kg
BH2 @ 35'	ND<10 µg/kg
BH2 @ 40'	ND<10 µg/kg
BH5 @ 20'	96,000 µg/kg
BH5 @ 25'	88,000 µg/kg

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical ·
Microbiological ·
Environmental ·

10M

APPENDIX C

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-2

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE
SITE GEOLOGIST(S)	JMB	RIG/METHOD	GEOPROBE
LOGGED BY	JMB	SCREEN INTERVAL	N/A
		DRLR TD(ft) 41.00	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	
GRADE LEVEL(ft)		CITY FULLERTON	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	12/2/94	ATD		N/A
WELL CONST	N/A	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	12/2/94	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 12/1/94 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0					ASPHALT
		5					
1		10			sm	CL	SILTY CLAY:SLIGHTLY MOIST,INCREASING SILT.
2		15			sm	ML	SANDY SILT:SLIGHTLY MOIST,INCREASING SAND.
					sm	ML	SILTY CLAY TO CLAYEY SILT:SLIGHTLY MOIST,INCREASING SILT,SOME SAND.
3		20			sm	SM	SILTY SAND:SLIGHTLY MOIST,FINE GRAIN SAND.
		25			sm	SM	SILTY SAND:SLIGHTLY MOIST,FINE GRAIN SAND.

DESCRIPTION
OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-03
LOG OF: BH-2

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
		25											
4											sm	ML	SANDY SILT:FINE GRAIN,SLIGHTLY MOIST.
		30											
5											sm	SM	SILTY SAND:FINE GRAIN,SLIGHTLY MOIST.
		35											
6											sm	ML	CLAYEY SILT:INCREASING SILT,SLIGHTLY MOIST.
		40											PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO GROUND WATER ENCOUNTERED DURING PROBING.
		45											
		50											
		55											
		60											
		65											

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-3

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE
SITE GEOLOGIST(S)	JMB	RIG/METHOD	GEOPROBE
LOGGED BY	JMB	SCREEN INTERVAL	N/A
		DRLR TD(ft) 26.00	WELL CONST TD(ft) N/A
ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	
GRADE LEVEL(ft)		CITY FULLERTON	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	12/2/94	ATD		N/A
WELL CONST	N/A	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	12/2/94	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 12/1/94 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0					ASPHALT
		5					
1		10			d	SP	SAND:DRY,COARSE GRAIN,UNCONFORMITY.
2		15			d	ML	CLAYEY SILT:UNCONFORMITY,W/SAND AND CLAY.
3		20			sm	SM	SILTY SAND:FINE GRAIN,SLIGHTLY MOIST.
		25			sm	SM	AS ABOVE:

DESCRIPTION
OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

PROJECT NO 94-42871.03 LOG OF: BH-3

Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25											PROBER'S TOTAL DEPTH = 26 FEET BELOW GROUND SURFACE. NO GROUND WATER ENCOUNTERED DURING PROBINGS.
		30											
		35											
		40											
		45											
		50											
		55											
		60											
		65											

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.

SHEET 1 OF 1

LOG OF: BH-4

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE
SITE GEOLOGIST(S)	JMB	RIG/METHOD	GEOPROBE
LOGGED BY	JMB	SCREEN INTERVAL	N/A
		DRLR TD(ft) 16.00	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)
GRADE LEVEL(ft)
TOP OF CASING(ft) N/A

LOCATION T R SEC. 1/4
CITY FULLERTON CO OR
COORDINATES(ft)

RECORD:	DATE/TIME
DRLG/CORING	12/2/94
WELL CONST	N/A
WELL DEVELOP	N/A
BACKFILL	12/2/94

GROUNDWATER:	DEPTH(ft)	DATE/TIME
ATD		N/A
SWL*		N/A
SPL*	N/A	N/A

(* PRIOR TO INITIAL DEVELOPMENT)

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 12/1/94 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											ASPHALT
		5											
1		10									d	Cl	SILTY CLAY: DRY, GENERAL UNCONFORMITY WITH COARSE GRAIN SAND AND CLAY.
		15											PROBER'S TOTAL DEPTH = 16 FEET BELOW GROUND SURFACE. NO GROUND WATER ENCOUNTERED DURING PROBINGS.
		20											
		25											

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.

SHEET 1 OF 2

LOG OF: BH-5

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE
SITE GEOLOGIST(S)	JMB	RIG/METHOD	GEOPROBE
LOGGED BY	JMB	SCREEN INTERVAL	N/A
		DRLR TD(ft) 26.00	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)
GRADE LEVEL(ft) _____
TOP OF CASING(ft) N/A

LOCATION T ___ R ___ SEC. 1/4
CITY FULLERTON CO OR
COORDINATES(ft)

RECORD:	DATE/TIME
DRLG/CORING	12/2/94
WELL CONST	N/A
WELL DEVELOP	N/A
BACKFILL	12/2/94

GROUNDWATER:	DEPTH(ft)	DATE/TIME
ATD		N/A
SWL*		N/A
SPL*	N/A	N/A

(* PRIOR TO INITIAL DEVELOPMENT)

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 12/1/94 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS (Gvl Scr Smd Sfn Slt Cl)	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0					ASPHALT
		5					
		10					
1		15			d	ML	CLAYEY SILT: DRY, GENERAL UNCONFORMITY WITH COARSE GRAIN SAND AND CLAY.
2		20			d	ML	SANDY SILT: INCREASING SAND.
3		25			sm	SM	SILTY SAND: SLIGHTLY MOIST, FINE GRAIN SAND.

DESCRIPTION
OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

PROJECT NO 94-42871-03

LOG OF: BH-5

> 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25											PROBER'S TOTAL DEPTH = 26 FEET BELOW GROUND SURFACE. NO GROUND WATER ENCOUNTERED DURING PROBINGS.
		30											
		35											
		40											
		45											
		50											
		55											
		60											
		65											

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.

SHEET 1 OF 1

LOG OF: BH-6

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE
SITE GEOLOGIST(S)	JMB	RIG/METHOD	GEOPROBE
LOGGED BY	JMB	SCREEN INTERVAL	N/A
		DRLR TD(ft) 16.00	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)
GRADE LEVEL(ft)
TOP OF CASING(ft) N/A

LOCATION T R SEC. 1/4
CITY FULLERTON CO OR
COORDINATES(ft)

RECORD:	DATE/TIME
DRLG/CORING	12/2/94
WELL CONST	N/A
WELL DEVELOP	N/A
BACKFILL	12/2/94

GROUNDWATER:	DEPTH(ft)	DATE/TIME
ATD		N/A
SWL*		N/A
SPL*	N/A	N/A

(* PRIOR TO INITIAL DEVELOPMENT)

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 12/1/94 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											ASPHALT
		5											
		10											
1											d	ML	CLAYEY SILT: DRY, GENERAL UNCONFORMITY WITH COARSE GRAIN SAND AND CLAY.
		15											PROBER'S TOTAL DEPTH = 16 FEET BELOW GROUND SURFACE. NO GROUND WATER ENCOUNTERED DURING PROBINGS.
		20											
		25											

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-7

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE
SITE GEOLOGIST(S)	JMB	RIG/METHOD	GEOPROBE
LOGGED BY	JMB	SCREEN INTERVAL	N/A
		DRLR TD(ft) 26.00	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)
GRADE LEVEL(ft)
TOP OF CASING(ft) N/A

LOCATION T R SEC. 1/4
CITY FULLERTON CO OR
COORDINATES(ft)

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	12/2/94	ATD		N/A
WELL CONST	N/A	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	12/2/94	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 12/1/94 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											ASPHALT
		5											
1		10									d	CL	SILTY CLAY:DRY,FINES.
2		15									sm	CL	AS ABOVE:
3		20									sm	SM	SILTY SAND:FINE GRAIN SAND,SLIGHTLY MOIST.
		25											

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-03

LOG OF: BH-7

Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
		25											PROBER'S TOTAL DEPTH = 26 FEET BELOW GROUND SURFACE. NO GROUND WATER ENCOUNTERED DURING PROBINGS.
		30											
		35											
		40											
		45											
		50											
		55											
		60											
		65											

Reference:
Converse, 1995a

CCOC Project No. 94-42871-04
OCHCA Case No. 94IC29
May 18, 1995

SUMMARY REPORT OF ADDITIONAL SITE CHARACTERIZATION
Fullerton Business Park North
Fullerton, California

May 18/95

Prepared For:

Mr. Louis Lodrigueza
Orange County Health Care Agency
2009 East Edinger Avenue
Santa Ana, California 92705

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May 18, 1995

Mr. Louis Lodrigueza
Orange County Health Care Agency
2009 East Edinger Avenue
Santa Ana, California 92705

Subject: **SUMMARY REPORT II OF ADDITIONAL SITE CHARACTERIZATION**
Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California
OCHCA Case No. 94IC29
Converse Project No. 94-42871-04

Dear Mr. Lodrigueza:

Converse Consultants Orange County (Converse), on behalf of Red Eagle Properties, is pleased to present this summary report for additional site characterization activities for the above-referenced property. This investigation was conducted at your request in an attempt to further assess the lateral and vertical extent of previously identified subsurface tetrachloroethene (PCE) contamination, and investigate the potential impact to ground water.

Converse understands that submittal and approval of a corrective action plan (CAP) is required prior to remediating the previously identified subsurface soil contamination located on the subject property.

If you have any questions, please contact Henry Ames at (714) 453-2880.

Sincerely,

CONVERSE CONSULTANTS ORANGE COUNTY

Henry B. Ames
Project Geologist

Thomas J. Scheil, RGE 753
Vice President and
Principal Engineer

CJC/HBA/GSS/TJS

Distribution: 2/Addressee
1/Mr. Augustine Anijielo, Santa Ana Regional Water Quality Control Board
2/Mr. Carl Ross, Red Eagle Properties
1/Mr. Mark Boen, Red Eagle Properties

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1.0 INTRODUCTION

1.1 Site Description

The subject site, known as the Fullerton Business Park North, is located on the north side of Orangethorpe Avenue between Acacia and Raymond Avenues in the City of Fullerton, California. The site is relatively level with a surface elevation of 175 feet above mean sea level. For Vicinity Map, see Figure No. 1.

The site currently contains five buildings. Two buildings located in the northeast corner of the site are used for research and development. The third and fourth buildings, located in the southwest and southeast corners of the site, are used as multitenant office buildings. The fifth and largest building is located in the northeast corner of the site, and is generally used as a warehouse for miscellaneous items. For Site Layout Map, see Figure No. 2. For Investigation Area, see Figure No. 3.

1.2 Geology and Hydrogeology

The site is located in the northern portion of Orange County. Surficial deposits at the site are Holocene age alluvial and colluvial deposits (U.S.G.S., 1981) originating as river deposits from the Santa Ana River, located about 2 miles east to southeast of the site, and detritus from the nearby Coyote Hills located about 1 mile north of the site. Although the Santa Ana River is currently channelized, it historically encompassed a relatively large flood plain, including the subject site.

The previous contaminant characterization work conducted at the site was limited to a depth of 40 feet below ground surface (bgs), the maximum depth probed. The subsurface soils generally consist of sand from the surface to about 15 feet bgs, underlain by sandy clays to clayey silts to about 20 feet bgs, underlain by a silty sand that varies in depth from 25 to 30 feet bgs, underlain by interbedded sandy and clayey silts to about 35 feet bgs, underlain by sand to about 40 feet bgs. Bed thicknesses varying with distance resulting in undulating contacts between soil types, and in many cases, soil layers are not laterally continuous in an east-west direction. Geologic cross sections A-A' and B-B' (Figure Nos. 4 and 5) generally depict the subsurface stratigraphy.

The site is located on the northern edge of the Talbert water-bearing zone (aquifer). In the vicinity of the site, the surface of the Talbert aquifer is reportedly at about 60 to 90 feet bgs, and ranges in thickness from about 60 to 100 feet (U.S. Department of the Interior, 1959). Regional groundwater flow direction in the Talbert Aquifer is southerly towards the Santa Ana Gap and the Pacific Ocean.

1.3 Background

Two onsite clarifiers were discovered during a previous Preliminary Site Assessment of the subject property conducted by Converse in 1992. The clarifiers were located in the northeast

section of the property, on the south east side of the existing warehouse. The clarifiers were removed in September 1994. Chemical analyses of soil samples collected during the clarifier removals indicated elevated Total Recovery Petroleum Hydrocarbons (TRPH) and Tetrachloroethene (PCE) concentrations (Converse, 1994a) from soil adjacent to the southern-most clarifier. Converse recommended further investigation to assess the extent of PCE-impacted soil in the vicinity of this clarifier.

Between October and December, 1994, Converse advanced seven (7) soil borings (BH-1 through BH-7) using a Geoprobe Systems sampling technique. Boring BH-1 was located in the center of the removed clarifier. Borings BH-2 through BH-4 were located approximately 4 to 5 feet away from the clarifier on each side. Borings BH-6 and BH-7 were located further away from the clarifier on the north and south sides. See Figure No. 3 for boring locations. Initial depths of 15 feet below ground surface (bgs) were targeted for investigation. Borings from which the 15' bgs soil sample exhibited elevated levels of PCE (determined using chemical analyses by an onsite mobile laboratory) were advanced deeper with soil samples obtained at five-foot intervals (borings BH-1, BH-2, BH-3, BH-5, and BH-7). Detectable PCE concentrations were reported in soil samples from each boring except for borings BH-4 and BH-6. Relatively high PCE concentrations were reported in samples from boring BH-5 (from 84,500 to 96,000 µg/kg).

In January, 1995, Converse advanced nine (9) additional soil borings (BH-4A through BH-6A and BH-8 through BH-13) in the vicinity of the removed clarifier in an attempt to further assess the vertical and lateral extent of PCE-impacted soil. Borings were again advanced using a Geoprobe Systems sampling technique. Borings BH-4A, BH-5A and BH-6A were located directly adjacent to former borings BH-4, BH-5 and BH-6 to confirm previous results. The remainder of the borings were located north and west of the former clarifier, with borings BH-10, BH-12 and BH-13 located inside the adjacent warehouse. See Figure No. 3 for boring locations. Boring locations were based on reported PCE concentrations in soil from the December 1994 investigation.

In summary, relatively high PCE concentrations were reported in soil samples from borings BH-5A and BH-8, located west and northwest of the former clarifier. Samples from the remainder of the sample locations contained detectable PCE concentrations, although at relatively lower concentrations than in soil from BH-5A and BH-8. The highest reported PCE concentrations in each boring occurred consistently between about 20 and 25 feet bgs, within samples from the silty sand unit. Most of the sample locations reported interspersed detectable and nondetectable PCE concentrations with depth, which has been attributed to the non-uniform subsurface geology. Only five of the ten soil samples collected from a depth of 40 feet bgs reportedly contained detectable PCE concentrations (ranging from 16 to 52 µg/kg: borings BH-4A, BH-5A, BH-10, BH-11 and BH-12).

Table 1 summarizes the previous chemical analyses results.

1.4 Scope of Work and Objectives

The initial scope of work for this phase of the exploration included the drilling and sampling of two soil borings (BH-14 and BH-15), located east and west of the former clarifier, to the groundwater table. Soil samples collected at 5-foot intervals from the surface to 40 feet bgs were used for lithologic descriptions. Selected soil samples from 40 feet bgs to the groundwater table were submitted to Del Mar Laboratory for chemical analyses to further assess the vertical extent of PCE-impacted soil. Based on an assumed depth to groundwater of 60 feet bgs, and given the deepest known PCE-impacted soil at 40 feet, it was considered that groundwater might be impacted; therefore, Converse proposed to convert both borings to groundwater monitoring wells. However, groundwater was not encountered until approximately 115 feet bgs, and approximately 50 feet of non-impacted PCE soil was identified directly above the groundwater table. It was therefore concluded that groundwater would not be impacted, and neither of the proposed groundwater monitoring wells were installed.

Converse acquired boring permits from the Orange County Health Care Agency, Water Quality Section for the two borings drilled (BH-14 and BH-15).

2.0 FIELD INVESTIGATION

2.1 Soil Sampling Program

On March 2, 1995, Converse advanced boring BH-14 using a hollow stem, continuous flight auger (HSA) drill rig with the intent of installing a ground water monitoring well based on the assumption that ground water was approximately 60 feet bgs. Boring BH-14 was located approximately 10 feet east of the former clarifier. The boring was drilled to a total depth of approximately 120 feet bgs with free ground water encountered at approximately 114 feet bgs. Soil samples were collected at 5 foot intervals starting at 5 feet bgs for chemical analyses and lithologic description. Soils were described in accordance with the United Soil Classification System (USCS) by an experienced Converse geologist. Soil from each 5-foot sample interval was also field screened for Volatile Organic Compounds (VOCs) using an organic vapor analyzer (OVA).

Based on a vertical limit of PCE-impacted soil at about 45 feet bgs, the possibility for groundwater at 65-foot depth to be impacted was sufficient enough to warrant the installation of a groundwater monitoring well. However, due to the unanticipated depth to ground water at 114 feet bgs, the potential for the PCE contamination to impact the ground water was considered unlikely given that almost 50 feet of non-impacted soil between the identified base of the PCE-impacted soil and groundwater (as identified by non-detectable PCE concentrations; see Section 2.2). Therefore, Converse elected not to convert the boring into a ground water monitoring well.

On March 7, 1995, Converse drilled a second boring (BH-15), located inside the adjacent warehouse, using a limited access hollow stem auger drill rig. The boring was drilled to a total depth of 115 feet bgs in an effort to more fully assess the vertical boundaries of PCE-impacted soil. Soil samples were collected at 5 foot interval starting at 5 feet bgs. Soil from each 5-foot sample interval was again field screened for VOCs using an OVA. Soil samples collected from both borings were properly sealed, labeled, entered on a chain-of-custody record, and delivered to Del Mar Analytical, Irvine, California.

Converse's field methodologies are detailed in Appendix A. Boring logs for borings BH-14 and BH-15 are included in Appendix B.

2.2 Chemical Analyses

Chemical analysis was performed by Del Mar Analytical, a State of California, Department of Health Services (DHS) certified laboratory.

A total of 23 soil samples collected from depths of 40 feet bgs or greater were selected for chemical analyses. The remainder of the samples were placed on hold. Each of these 23 samples were tested for Purgeable Halocarbons (including PCE) by EPA Test Method 8010 and/or for Total Recoverable Petroleum Hydrocarbons (TRPH, or heavy hydrocarbons) using EPA Test Method 418.1. The analytical results are summarized in Table 2.

The analytical results from the soil samples collected from depths between 40 and 55 feet bgs (borings BH-14 and BH-15) revealed PCE concentrations between non-detect (5 samples) and 23 ppb.

The highest reported PCE concentrations in borings BH-14 and BH-15 occurred consistently at 60 feet bgs (110 and 180 ppb respectively). Boring BH-14 had detectable PCE concentrations of 11 ppb at 55 feet bgs with non-detect from 65 feet to 105 feet bgs. The soil samples analyzed from boring BH-15 had no detectable PCE contamination at 55 feet bgs, 7.7 ppb at 65 feet bgs, with non-detectable concentrations from 70 feet to 105 feet bgs.

An approximately 10 to 15-foot thick silty clay was encountered starting at about 55 feet bgs in boring BH-14 and about 62 feet bgs in boring BH-15. Because of the thickness of this clay unit and given the detectable PCE concentrations reported in the vicinity of 60 feet in each boring, underlain by soils with nondetectable PCE concentrations, Converse had one soil sample tested for permeability (ASTM Method D5084-90, for the measurement of hydraulic conductivity of saturated porous materials - using a flexible wall permeameter). The soil sample collected from 62.5 feet bgs (boring BH-14) revealed a laboratory permeability of 1.4×10^{-6} centimeters per second (cm/sec).

None of the 16 soils samples submitted for TRPH analyses (from boring BH-14 and BH-15) were reported as having detectable TRPH concentrations.

The laboratory reports and chain-of-custody records are included in Appendix C.

3.0 FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

3.1 Findings and Conclusions

In general, the subsurface soil conditions to about 40 feet bgs in the vicinity of the former clarifier (as defined by borings BH-1 through BH-15) generally consist of the following:

Depths	Soil Type
0 - 15	Sand
15 - 20	Sandy Clay grading with depth to Clayey Silt
20 - 25 or 30	Silty Sand
25 or 30 - 35	Clayey to Sandy Silt with interbeds of Silty Clay
35 - 40	Sand

Bed thicknesses varying with distance resulting in undulating contacts between soil types. In many cases, beds are not laterally continuous in an east-west direction. Geologic cross sections A-A' and B-B' (Figure Nos. 4 and 5) generally depict the subsurface stratigraphy to 40 feet bgs.

Subsurface soil conditions from 40 to 115 feet bgs, as defined by borings BH-14 and BH-15, include interbedded sands and silty sands to about 60 feet, underlain by a 10 to 15-foot thick silty clay having a tested permeability of 1.4×10^{-6} cm/sec. Soils beneath this silty clay consist of interbedded sandy silts, silty sands, and sandy clays to a depth of about 115 feet, where fine-grained, saturated sand is encountered.

Ground water was encountered in both borings at a depth of about 115 feet bgs. It is assumed this groundwater is the Talbert Aquifer. A thin, perched groundwater unit was encountered at 60 feet bgs in boring BH-15. This groundwater was perched on top of the relatively impermeable clay located at about 60 feet bgs. Given the recent heavy rains, it is possible that this groundwater unit is ephemeral, rather than perennial. The perched groundwater was not identified in boring BH-14.

The highest reported PCE concentrations in borings BH-14 and BH-15 occurred consistently at about 60 feet bgs in soil directly above an approximately 10 to 15-foot thick, relatively impermeable clay. Approximately 50 feet of soil with non-detectable PCE-concentrations were identified beneath the relatively impermeable clay and above the groundwater table. Based on these data, we have concluded that groundwater beneath the site has NOT been impacted by a release of PCE from the former clarifier, and the base of the PCE-impacted soil is defined at about 60 feet bgs.

The higher reported PCE concentrations (greater than 180 ppb) in samples analyzed from the site appear to be within the top 35 feet of soil, with the highest concentrations reported in samples from near the middle to the base of the silty sand located at about 20 to 25 or 30 feet bgs, and the top of the clays and silts that directly underlie the silty sand. It is believed that the silts and clays located at about 25 or 30 to 35 feet bgs have acted as a partial barrier to the downward migration of the bulk of the contamination, and may have contributed to some minor lateral migration along the tops of these units.

The lateral extent of PCE-impacted soil has not been defined to a non-detectable level. However, it has been determined that soil above 40 feet bgs, with relatively high PCE concentrations (in excess of 1,000 µg/kg) is confined to an area within approximately 25 feet of the former clarifier, and soil with PCE concentrations greater than about 50 µg/kg has been defined to an area within approximately 50 feet of the former clarifier.

3.2 Recommendations

Based on the results of this and previous investigations, Converse does not believe that additional site assessment work in the vicinity of the former clarifier is warranted, and that the site has been sufficiently characterized so that remediation activities can be initiated. In order to initiate remediation, Converse understands OCHCA requires the submittal of a Corrective Action Plan (CAP) detailing the proposed remediation activities.

At this time, and based on the results obtained to date, Converse recommends remediation of the PCE impacted soils by implementing a soil vapor extraction and granular activated carbon treatment methodology. With your concurrence, under the direction of Red Eagle Properties, Converse is prepared to submit a CAP describing the proposed extraction location(s) and treatment equipment specifications for the implementation of a soil vapor extraction system. The proposed remedial system will be designed to attempt to mitigate the PCE soil contamination to a depth of 40 feet bgs.

4.0 LIMITATIONS

The findings presented herein are based on our evaluation of currently available data and were prepared in accordance with generally accepted environmental principles common to the local area in which we practice. We make no other warranty, either express or implied.

Converse is not responsible for the accuracy of information provided by others. This report should not be regarded as a guarantee that no subsurface contamination is present at the property beyond what has been disclosed. There may be subsurface conditions that cannot be reasonably predicted with the services performed to-date.

REFERENCES

REFERENCES

Converse Consultants Orange County, 1994a, Clarifier Removal and Soil Analysis, Fullerton Business Park North, dated October 18, 1994.

Converse Consultants Orange County, 1994b, Site Characterization Summary Report, Fullerton Business Park North, dated November 11, 1994.

Converse Consultants Orange County, 1995, Summary Report, Additional Site Characterization, Fullerton Business Park North, dated January 26, 1995.

United States Geological Society, 1981, Geologic Map of Orange County, California, Showing Mines and Mineral Deposits, Scale 1:48,000, dated 1981.

United States Department of the Interior, 1959, Hydrology of the Long Beach-Santa Ana Area, California, Geological Survey Water-Supply Paper 1471, dated 1959

TABLES

Table 1
SUMMARY OF PREVIOUS PCE CHEMICAL ANALYSES RESULTS
(Concentrations listed in micrograms per kilogram ((ppb))

Sample Depth (feet)	BOREHOLE IDENTIFICATION															
	BH-1	BH-2	BH-3	BH-4	BH-4A	BH-5	BH-5A	BH-6	BH-6A	BH-7	BH-8	BH-9	BH-10	BH-11	BH-12	BH-13
15	ND	3,500	270	ND	---	84,500	---	ND	---	130	32,000	ND	570	31	190	140
20	17	320	ND	---	ND	96,000	---	---	ND	330	26,000	ND	ND	19	ND	16
25	ND	1,950	8,900	---	12	88,000	---	---	20	ND	92,000	18,000	ND	100	41	13
30	38	ND	---	---	23	---	17,500	---	56	---	15,000	ND	ND	29	11	ND
35	ND	ND	---	---	29	---	1,070	---	ND	---	ND	ND	ND	ND	ND	ND
40	ND	ND	---	---	52	---	28	---	ND	---	ND	ND	45	16	50	ND
Date Sampled	10/94	12/94	12/94	12/94	1/95	12/94	1/95	12/94	1/95	~~1/95~~ 12/94	1/95	1/95	1/95	1/95	1/95	1/95

Table 2
SUMMARY OF SOIL SAMPLE CHEMICAL ANALYSES

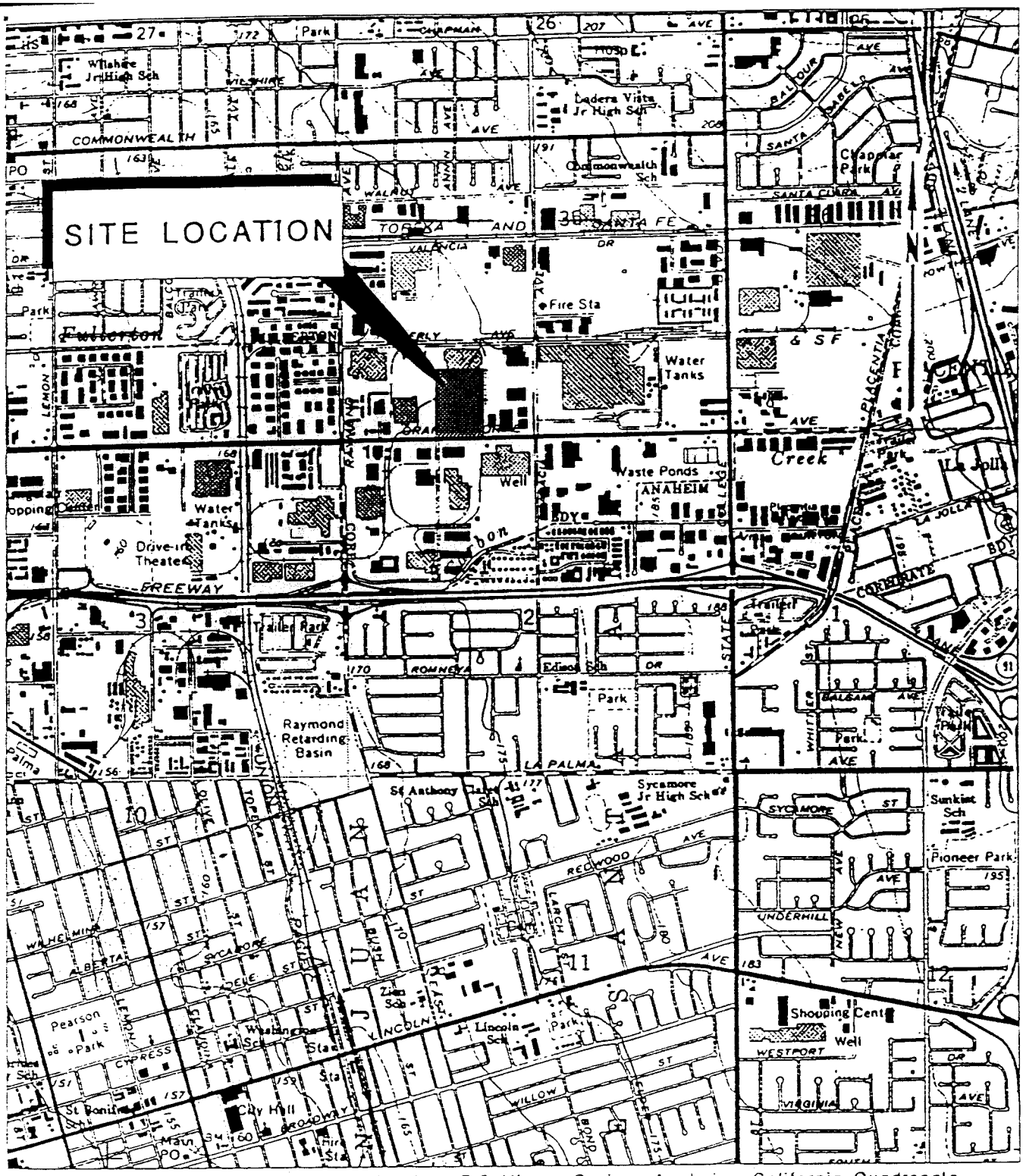
Sample ID	Sample Depth (Feet)	Soil Type	TRPH (mg/kg)	Purgeable Halocarbons (µg/kg)			
				PCE	TCE	1,1,1-TCA	1,1-DCE
BH-14/6	30	silty clay	---	---	---	---	---
BH-14/7	35	sand	---	---	---	---	---
BH-14/8	40	sandy silt	ND	23	19	ND	8.8
BH-14/9	45	sand	ND	ND	ND	ND	ND
BH-14/10	50	sand	---	ND	ND	ND	ND
BH-14/11	55	sand	ND	11	20	ND	ND
BH-14/12	60	silty clay	---	110	110	6.8	50
BH-14/13	65	sandy silt	ND	ND	23	ND	19
BH-14/14	70	silty clay	---	ND	8.2	ND	11
BH-14/15	75	silty clay	ND	ND	6.3	ND	6.7
BH-14/16	80	silty sand	---	---	---	---	---
BH-14/17	85	silty clay	ND	ND	91	ND	7.5
BH-14/18	90	sandy silt	---	---	---	---	---
BH-14/19	95	silty clay	ND	ND	ND	ND	ND
BH-14/20	100	silty sand	---	---	---	---	---
BH-14/21	105	silty clay	ND	ND	180	ND	19

Table 2
SUMMARY OF SOIL SAMPLE CHEMICAL ANALYSES

Sample ID	Sample Depth (Feet)	Soil Type	TRPH (mg/kg)	Purgeable Halocarbons (µg/kg)			
				PCE	TCE	1,1,1-TCA	1,1-DCE
BH-15/8	40	sandy silt	ND	ND	91	ND	ND
BH-15/9	45	sand	ND	ND	ND	ND	ND
BH-15/11	55	sand	ND	ND	ND	ND	ND
BH-15/12	60	sandy silt	---	180	230	ND	160
BH-15/13	65	sandy silt	ND	7.7	55	ND	20
BH-15/14	70	silty clay	---	ND	20	ND	13
BH-15/15	75	sandy silt	ND	ND	ND	ND	ND
BH-15/16	80	silty sand	---	---	---	---	---
BH-15/17	85	sandy silt	ND	ND	110	ND	29
BH-15/18	90	silty sand	---	---	---	---	---
BH-15/19	95	silty sand	ND	ND	420	ND	56
BH-15/20	100	sand	---	---	---	---	---
BH-15/21	105	clayey silt	ND	ND	160	ND	ND
Detection Limit			5.0	5.0	5.0	5.0	5.0

PCE - Tetrachloroethene
TCE - Trichloroethene
1,1,1-TCA - 1,1,1-Trichloroethane
1,1-DCE - 1,1-Dichloroethene
TRPH - Total Recoverable Petroleum Hydrocarbons
µg/kg - micrograms per kilogram (roughly equivalent to parts per billion (ppb))
mg/kg - milligrams per kilogram (roughly equivalent to parts per million (ppm))
ND - concentration not detected at or above the laboratory's detection limit (shown at bottom of Table 2)
--- Sample not tested for analyte

FIGURES



Reference: U.S.G.S Topographic Map, 7.5 Minute Series, Anaheim, California Quadrangle, Dated 1965, (Photorevised 1981).

0 2000 4000

SCALE IN FEET

VICINITY MAP

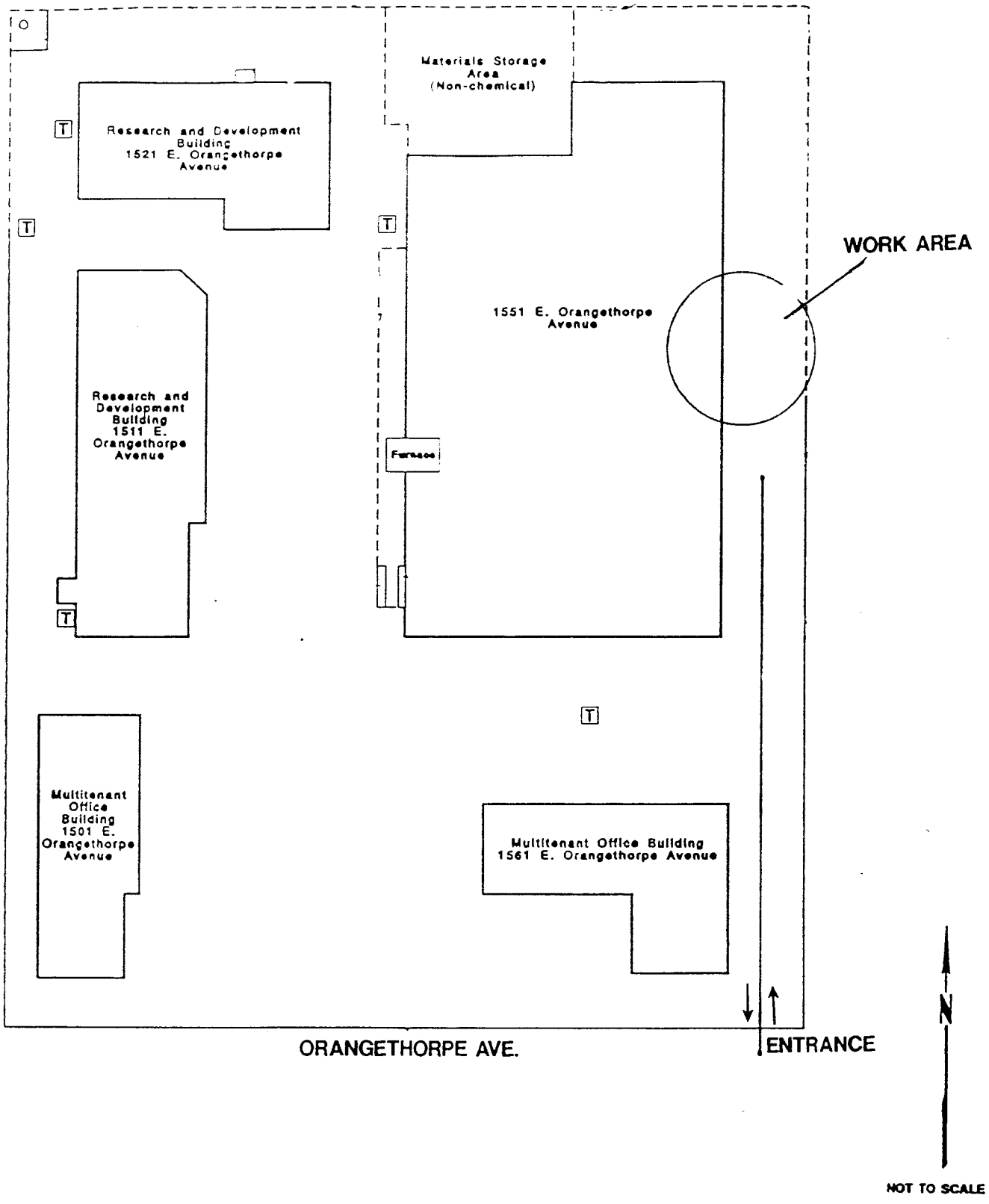
SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No.
94-42871-04

Figure No.
1

Converse Consultants
Orange County

Geotechnical Engineering and Applied Sciences



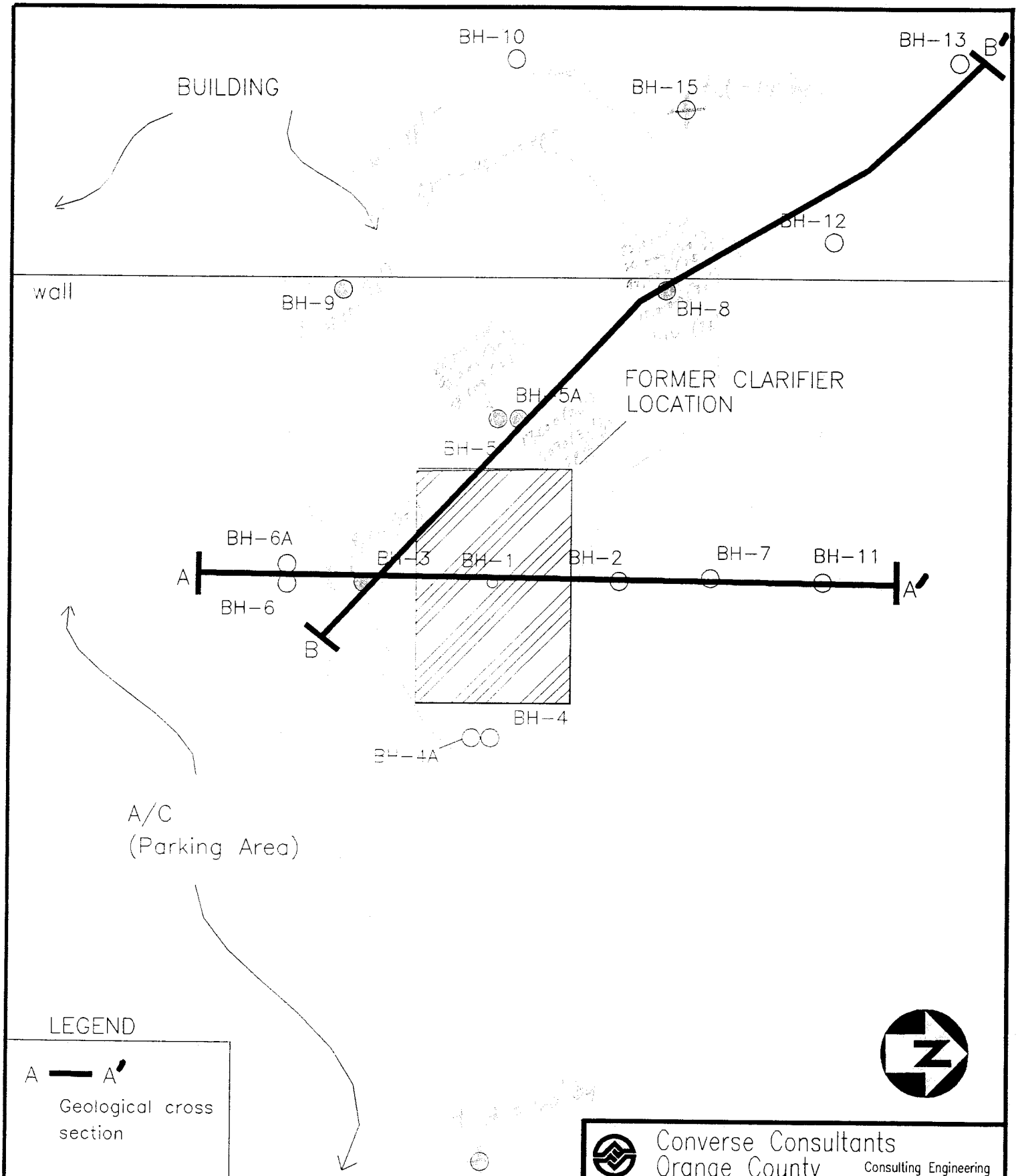
SITE LAYOUT MAP

SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No.
94-42871-04

Converse Consultants Orange County
Geotechnical Engineering and Applied Sciences

Figure No.
2



LEGEND

A — A' Geological cross section

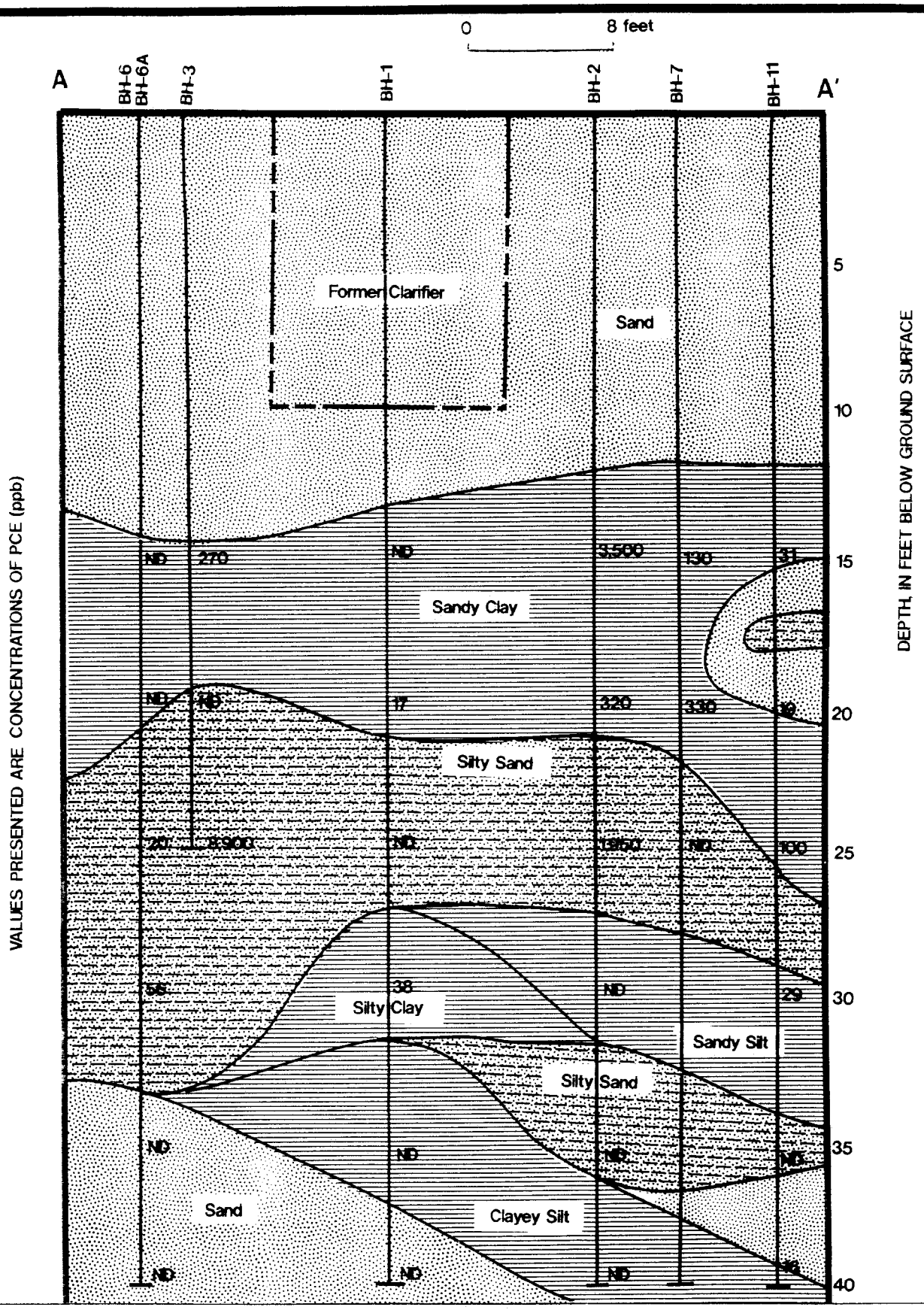
NOTE:
This figure is part of Converse Consultants Orange County report dated **MAY 18, 1995**

Converse Consultants
Orange County
Consulting Engineering and Applied Sciences

SITE LAYOUT MAP

Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California

DATE: 5/15/95	PROJECT NO: 94-422871-04	FIGURE NO: 3
SCALE: 1" = 8'	CHECKED BY:	



GEOLOGIC X-SECTION A-A'

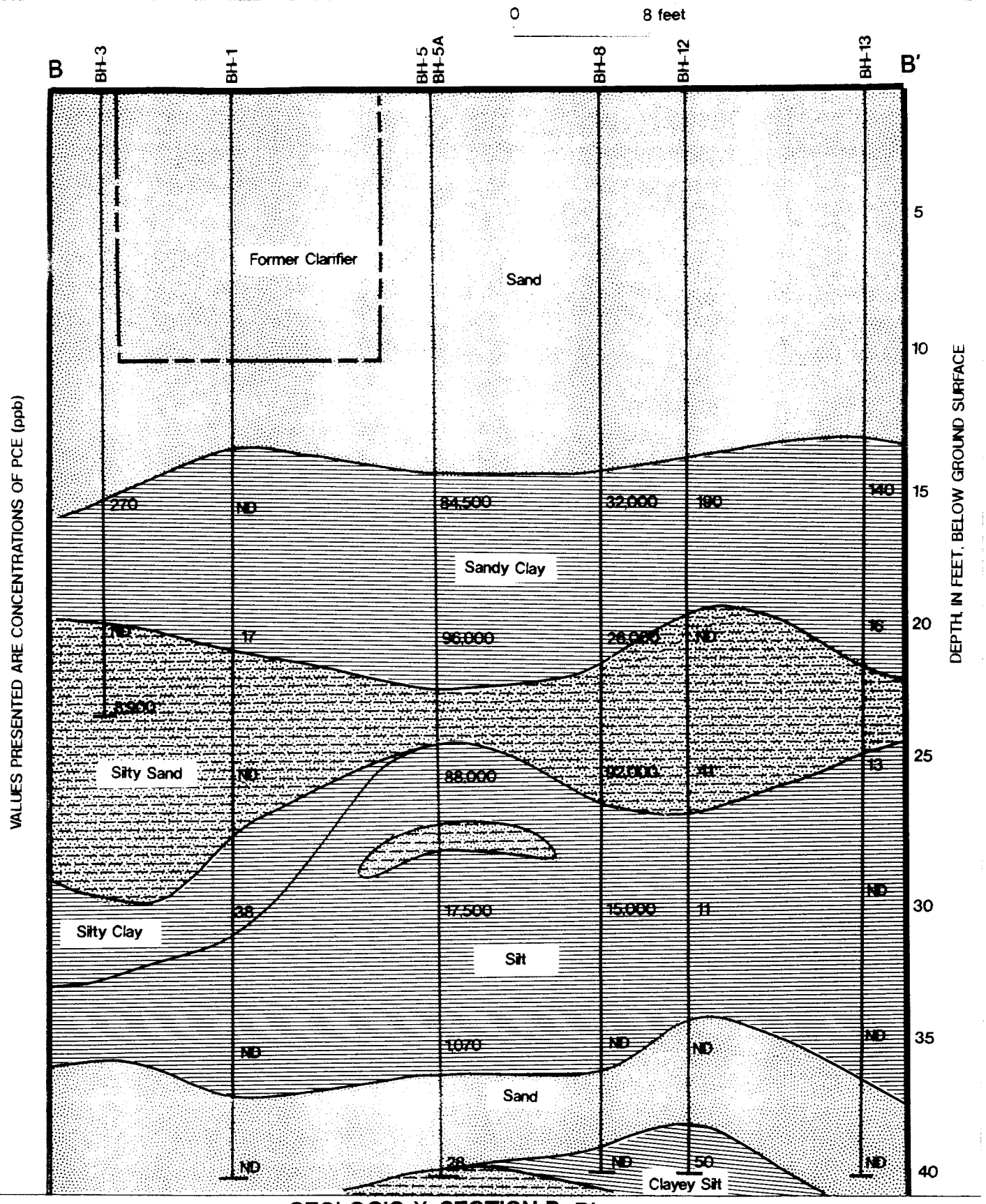
SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No.
94-42871-04

Drawing No.
4

Converse Consultants
Orange County

Geotechnical Engineering
and Applied Sciences



GEOLOGIC X-SECTION B-B'

SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No.
94-42871-04

Converse Consultants Orange County
Geotechnical Engineering and Applied Sciences

Drawing No.
5

APPENDIX A

Appendix A

FIELD METHODOLOGIES

Prior to drilling, Converse properly marked each boring location in the field in accordance with Underground Service Alert (USA) requirements. USA was notified a minimum of 48 hours prior to the field investigation. In addition, each boring location was cleared by the property owner for underground hazards prior to drilling. As an additional utility clearance, each boring was initially hand augered to about 5 feet bgs.

Following hand augering, each boring was drilled to the final total depth using a truck mounted, hollow-stem, continuous-flight auger drill rig equipped with 8-inch diameter auger. The concrete slab of the building at borehole BH-15 was concrete cored prior to drilling.

Soil samples were be collected from each borehole at 5-foot intervals beginning at 5-feet bgs and continuing until groundwater was encountered. Samples were collected using a 1.5-foot long, 2.5-inch inner diameter California modified split spoon sampler equipped with 2.5 inch outer diameter brass sleeves. One sleeve from each sampled interval was sealed on both ends with Teflon™ tape, capped, labelled with the sample identification, date and time, and placed in a sealable plastic bag. Each sample was entered on a chain-of-custody record, and immediately stored in an on-site ice chest pending delivery to the laboratory.

Converse also collected soil from each sampled interval and placed it inside a sealable plastic bag. Each bagged sample was allowed to volatilize for a minimum of 15 minutes, and the "head space" of each bag was field measured using a Century Organic Vapor Analyzer (OVA) for Volatile Organic Compounds (VOCs). These field measurements were entered on the field logs.

Each of the borings was detail logged from the soil samples collected at five foot-intervals, with general descriptions provided between five-foot sample intervals based on logging of the soil cuttings. Each boring was logged using the United Soil Classification System (USCS) by an experienced Converse geologist. Soil descriptions, included notations on physical evidence of contamination (when applicable) are presented on the boring logs.

Drilling equipment was steam cleaned prior to use and between borings. Sampling equipment was cleaned between sampling intervals using a non-phosphate solution, rinsed with tap water, and final rinsed with deionized water.

Following completion of the soil sampling, each boring was backfilled with hydrated bentonite chips and capped at the surface with either asphalt or concrete to match the surrounding pavement.

Soil cuttings were containerized in DOT approved, 55-gallon drums. The drums were properly labelled and stored onsite pending receipt of the chemical analyses results. Based on the chemical concentration levels in the soil (if present), Converse will assist Red Eagle Properties with the offsite transport and disposal/recycling of the soil at an appropriate, licensed disposal or recycling facility.

Soil samples were selected for chemical analyses based on field measurements for VOCs and notations on physical evidence of contamination. Proper Chain-of-Custody procedures were followed for all samples. Chemical analyses was performed by Del Mar Analytical, a State of California, Department of Health Services (DHS) certified laboratory.

Soil samples selected for chemical analyses were tested for the following:

- Total Recoverable Petroleum Hydrocarbons (TRPH) using EPA Test Method 418.1;
- Purgeable Halocarbons using EPA Test Method 8010;

All samples were chemically analyzed within the EPA designated 14 day holding time for purgeable halocarbons, and 28 day holding time for TRPH.

APPENDIX B

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-14

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	DRILL-LINE
PROJECT NO.	94-42871-04	DRILLER(S)	DRILL-LINE
SITE GEOLOGIST(S)	JMB/SSM	RIG/METHOD	HSA
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 120.00	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)

GRADE LEVEL(ft) 180 (EST)

TOP OF CASING(ft) N/A

LOCATION T 3S R 10W SEC 35 1/4

CITY FULLERTON CO OR

COORDINATES(ft)

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	3/2/95	ATD	114.00	114.0
WELL CONST	N/A	SWL*	N/A	N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	3/2/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE

Gvl -Gravel > 2.0 mm

Scr -Coarse Sand 2.00-0.50 mm

Smd -Medium Sand 0.50-0.25 mm

Sfn -Fine Sand 0.25-0.062 mm

Slt -Silt <0.062 mm

Cl -Clay/Mud

Gvl | Scr | Smd | Sfn | Slt | Cl

PID/OVA CALIBRATION DATE: 3/2/95 CALIBRATION UNITS: 95 ppm

THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0					ASPHALT SURFACE
1	0	5			sm	SP	SAND: MEDIUM TO COARSE GRAINED, SEMI-MOIST.
2	0	10			sm	SP	SAME AS ABOVE:
3	0	15			sm	ML	CLAYEY SILT/SILTY CLAY: INCREASING CLAY, SOME FINE GRAINED SAND.
4	1	20			sm	ML	SANDY SILT: FINE GRAINED SAND, SOME CLAY.
		25					

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04

LOG OF: BH-14

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl | Scr | Smd | Sfn | Slt | Cl

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
							OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
5	0	25			m	SP	SAND: FINE TO MEDIUM GRAINED.
6	0	30			m	CL	SILTY CLAY: SOME FINE GRAINED SAND, DARK BROWN.
7	0	35			m	SP	SAND: FINE TO MEDIUM GRAINED, LIGHT BROWN.
8	1	40			m	SM	SANDY SILT: SOME CLAY, BROWN.
9	5	45			m	SP	SAND: FINE TO MEDIUM GRAINED, TRACE SILT, LIGHT BROWN.
10	1	50			m	SP	SAME AS ABOVE:
11	5	55			m m	SP CL	SAND: FINE TO MEDIUM GRAINED. SILTY CLAY: DARK BROWN, SOME FINES.
12	2	60			m	CL	SILTY CLAY: VERY STIFF, DARK BROWN.
		65					

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04

LOG OF: BH-14

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl | Scr | Smd | Sfn | Slt | Cl

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
							OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
13	0				m	ML	SANDY SILT: SOME CLAY, FINE GRAINED SAND.
14	0	70			m	CL	SILTY CLAY: DARK BROWN.
15	1	75			vm	CL	SAME AS ABOVE: STIFF, SOME FINE GRAINED SAND.
16	0	80			vm	ML	SILTY SAND: FINE GRAINED SAND.
17	2	85			vm	CL	SILTY CLAY: DARK BROWN.
18	0	90			vm	ML	SANDY SILT: LIGHT BROWN, FINE GRIANED SAND.
19	3	95			m vm	CL ML	SILTY CLAY: SOME FINE GRAINED SAND. SILTY SAND: FINE GRAINED SAND.
20	1	100			vm	ML	SILTY SAND: FINE GRAINED SAND, BROWN.
		105					

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04
LOG OF: BH-14
SHEET 4 OF 4

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl | Scr | Smd | Sfn | Slt | Cl

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
							OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
21	5				vm	CL	SILTY CLAY: SOME FINE GRAINED SAND, DARK BROWN.
		110					
22	2				wet	SP	SAND: MEDIUM TO COARSE GRAINED, SOME GRAVEL, SATURATED.
		115					
		120					DRILLER'S TOTAL DEPTH = 120.0 FEET BELOW GROUND SURFACE (BGS). FREE GROUND WATER ENCOUNTERED AT 114.0 BGS.
		125					
		130					
		135					
		140					
		145					

CONVERSE ENVIRONMENTAL WEST - O.C.

SHEET 1 OF 4

LOG OF: BH-15

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	DRILL LINE
PROJECT NO.	94-42871-04	DRILLER(S)	DRILL-LINE
SITE GEOLOGIST(S)	JMB/SSM	RIG/METHOD	LAR-HSA
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 116.50	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)

GRADE LEVEL(ft) 180 (EST)

TOP OF CASING(ft) N/A

LOCATION T3S R 10W SEC.35 1/4

CITY FULLERTON CO OR

COORDINATES(ft)

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	3/7/95	ATD	115.00	115.0
WELL CONST	N/A	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	3/7/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE

Gvl -Gravel > 2.0 mm

Scr -Coarse Sand 2.00-0.50 mm

Smd -Medium Sand 0.50-0.25 mm

Sfn -Fine Sand 0.25-0.062 mm

Slt -Silt <0.062 mm

Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 3/2/95 CALIBRATION UNITS: 95 ppm

THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS (Gvl Scr Smd Sfn Slt Cl)	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0					CONCRETE FOUNDATION
1	0	5			sm	SP	SAND: FINE TO MEDIUM GRAINED, LIGHT BROWN.
2	0	10			sm	SP	SAME AS ABOVE:
3	15	15			m	CL	SANDY, SILTY CLAY: DARK BROWN, MOIST, MICACEOUS.
4	9	20			m	ML	SANDY SILT: DARK BROWN, MICACEOUS, MOIST.
		25					

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04

LOG OF: BH-15

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl | Scr | Smd | Sfn | Slt | Cl

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
							OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
5	200	25			m	SM	SILTY SAND: FINE GRAINED, MICACEOUS.
6	10	30			m	ML	SANDY SILT: FINE GRAINED SAND, DARK BROWN, SOME CLAY.
		35				CL	CLAY LAYER
7	0				m	SM	SILTY SAND: FINE GRAINED, BROWN, MICACEOUS.
8	0	40			m	ML	SANDY SILT: DARK BROWN, TRACE CLAY. INCREASING CLAY
9	7	45			sm	SW	SAND: FINE GRAINED, BROWN.
10	0	50			m	SW	SAND: MEDIUM GRAINED, LIGHT BROWN
11	10	55			m	SP	SAND: FINE TO MEDIUM GRAINED, LIGHT BROWN.
		60			w	SW	SAND: PERCHED LENS,MOIST,MEDIUM GRAINED.
12	3				m	ML	SANDY SILT: PERMEABILITY SAMPLE AT @ 62.5-63.0 FEET 1 X 10E-6 cm/sec.
					m	CL	SILTY CLAY: LOW PLASTICITY, DARK BROWN.
					m	ML	SANDY SILT: FINE GRAINED SAND.
		65			m	CL	SILTY CLAY: DARK BROWN, LOW PLASTICITY.

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04

LOG OF: BH-15

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
													OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
13	0										m	ML	SANDY SILT: SOME CLAY, FINE GRAINED SAND.
14	0	70									m	CL	SILTY CLAY: HIGH PLASTICITY, DARK BROWN.
15	0	75									m	ML	SANDY SILT: FINE GRAINED SAND, DARK BROWN.
16	0	80									m	SM	SILTY SAND: FINE GRAINED SAND, INCREASING SILT.
17	0	85									m	ML	SANDY SILT: DARK BROWN, FINE GRAINED SAND, SLIGHT PLASTICITY, SOME CLAY. INCREASING SILT
18	0	90									m	SM	SILTY SAND: LIGHT BROWN, FINE GRIANED, DARK BROWN.
19	0	95									m	SM	SILTY SAND: FINE TO MEDIUM GRAINED, BROWN.
20	0	100									m	SW	SAND: FINE GRAINED, BROWN.
		105											

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04
LOG OF: BH-15

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

Gvl	Scr	Smd	Sfn	Slt	Cl

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
							OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
21	5				m	ML	CLAYEY SILT: SLIGHT PLASTICITY, BROWN.
22	6	110			m	SM	SILTY SAND: FINE GRAINED.
		115			wet	SW	DECREASING SILT SAND: FINE GRAINED, SATURATED. DRILLER'S TOTAL DEPTH = 116.5 FEET BELOW GROUND SURFACE (BGS) FREE GROUND WATER ENCOUNTERED AT 115.0 BGS.
		120					
		125					
		130					
		135					
		140					
		145					

APPENDIX C

Del Mar Analytical

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103

Sample Descript: Soil, BH-14/8
Lab Number: EC00597

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**8.8**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1.2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1.3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**23**
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**19**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

RECEIVED

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	119%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103
Sample Descript: Soil, BH-14/9
Lab Number: EC00598

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	100%

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nts
ay, Suite 100
2307
ten

Client Project ID: #944287103

Sample Descript: Soil, BH-14/11
Lab Number: EC00599

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

	Detection Limit µg/Kg (ppb)		Sample Result µg/Kg (ppb)
nane	5.0		N.D.
	5.0		N.D.
	5.0		N.D.
ge	5.0		N.D.
	5.0		N.D.
	25		N.D.
ether	25		N.D.
	5.0		N.D.
	5.0		N.D.
thane	5.0		N.D.
ne	10		N.D.
ne	10		N.D.
ne	10		N.D.
e	5.0		N.D.
e	5.0		N.D.
e	5.0		N.D.
nene	5.0		N.D.
ethene	5.0		N.D.
ne	5.0		N.D.
opene	5.0		N.D.
opropene	5.0		N.D.
e	10		N.D.
oethane	5.0		N.D.
ne	**5.0**		**11**
ane	5.0		N.D.
ane	5.0		N.D.
	5.0		**20**
ethane	5.0		N.D.
	5.0		N.D.

N.D. were not present above the stated limit of detection.

YTICAL, IRVINE (ELAP #1197)

Surrogate Standard Recovery:	
4-Bromofluorobenzene	95%

tor

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103
Sample Descript: Soil, BH-14/13
Lab Number: EC00600

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**19**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**23**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	92%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103
Sample Descript: Soil, BH-14/15
Lab Number: EC00601

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**6.7**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**6.3**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	117%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103

Sample Descript: Soil, BH-14/17
Lab Number: EC00602

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**7.5**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**91**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	96%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103
Sample Descript: Soil, BH-14/19
Lab Number: EC00603

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	94%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103
Sample Descript: Soil, BH-14/21
Lab Number: EC00604

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**19**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**180**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	114%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103

Analysis Method: EPA 418.1 (I.R. with clean-up)
First Sample #: EC00597

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 6, 1995
Reported: Mar 13, 1995

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Number	Sample Description Soil	Petroleum Hydrocarbons mg/Kg (ppm)
EC00597	BH-14/8	N.D.
EC00598	BH-14/9	N.D.
EC00599	BH-14/11	N.D.
EC00600	BH-14/13	N.D.
EC00601	BH-14/15	N.D.
EC00602	BH-14/17	N.D.
EC00603	BH-14/19	N.D.
EC00604	BH-14/21	N.D.

Detection Limit:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 11, 1995
Reported: Mar 13, 1995
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	118%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 6, 1995
Reported: Mar 13, 1995
Matrix: Soil

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Description	Petroleum Hydrocarbons mg/Kg (ppm)
Method Blank	N.D.

Detection Limit:	5.0

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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1/3

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

39222

Client Name/Address:
Converse Consultants
15245 Alton Pkwy #100
Irvine, Ca.

Project:
~~[redacted]~~
4-142971-03

Project Manager:
Mike Batten

Sampler:
Steve Maffioli

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	Soil - PCE only	418.1	Special Instructions
mw-1/8	Soil	Brass	1	3/2/95	N/A	X	X	
mw-1/9	↓	↓	↓	↓	↓	↓	↓	
mw-1/11								
mw-1/13								
mw-1/15								
mw-1/17								
mw-1/19								
mw-1/21	↓	↓	↓	↓	↓	↓	↓	

Relinquished By: Steve Maffioli Date/Time: 3/2/95 4:18 pm

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Note: Samples will be disposed of after 30 days.

Received By: Date/Time:

Received By: Date/Time:

Received in Lab By: Date/Time: 3/2/95 1120

Turnaround Time: (check)

same day		72 hours	
24 hours		5 days	
48 hours		normal	X

Sample Integrity: (check)

intact ✓ on ice ✓

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CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38222

Client Name/Address: Converse Consultants, 1524 Alton Pkwy #100

Project: 9442871-04

Project Manager: Mike Batten

Sampler: Steve Maffioli

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	Analysis Required: HOC-D	Special Instructions
MW-1/1	Soil	Brass	1	3/2/95	N/A	X	
MW-1/2						X	
MW-1/3						X	
MW-1/4						X	
MW-1/5						X	
MW-1/6						X	
MW-1/7						X	
MW-1/10						X	
MW-1/14						X	
MW-1/16						X	
MW-1/18						X	

Relinquished By: Steve Maffioli — Date/Time: 3/2/95 - 4:18pm

Relinquished By: — Date/Time:

Relinquished By: — Date/Time:

Note: Samples will be disposed of after 30 days.

Received By: — Date/Time:

Received By: — Date/Time:

Received in Lab By: — Date/Time: 3/2/95 4:18

Turnaround Time: (check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal ____

Sample Integrity: (check)

intact ✓ on ice ✓

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33

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38223

Client Name/Address: Converse

Project:

Project Manager: MIKE BATTEN

Sampler:

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	Analysis Required: HCID								Special Instructions
MW-1/22	Soil	BRASS	1	3/2/95	—	X								
MW-1/12	↓	↓	↓	↓	—	X								
MW-1/20	↓	↓	↓	↓	—	X								

Relinquished By: [signature] Date/Time: 3/2/95 4:18 pm

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Note: Samples will be disposed of after 30 days.

Received By: Date/Time:

Received By: Date/Time:

Received in Lab By: [signature] Date/Time: 3/2/95 4:18

Turnaround Time: (check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal ____

Sample Integrity: (check)

intact ✓ on ice ✓

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 94-42871-04
Sample Descript: Soil, BH-14/14
Lab Number: EC02441

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 18, 1995
Reported: Mar 20, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**11**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**8.2**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

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DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	85%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 18, 1995
Reported: Mar 20, 1995
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	84%

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39206

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Client Name/Address:
CONVERSE CONSULTANTS
15245 ALTON PKWY #100
IRVINE, CA 92715

Project:
94-42871-04

Project Manager:
MIKE Batten

Sampler:
Steve Maffidi

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	HOLD	Special Instructions
BH-14 / 1	Soil	BRASS	1	3/2/95	N/A	X	
BH-14 / 2							
BH-14 / 3							
BH-14 / 4							
BH-14 / 5							
BH-14 / 6							
BH-14 / 7							
BH-14 / 10							
B-14 / 14							
BH-14 / 16							
BH-14 / 18							

Relinquished By: Steve Maffidi Date/Time: 3/2/95 4:16pm

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Note: Samples will be disposed of after 30 days

Received By: Date/Time

Received By: Date/Time:

Received in Lab By: Date/Time:

Turnaround Time: (check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal ____

Sample Integrity: (check)

intact ____ on ice ____

Del Mar Analytical

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CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38222

Client Name/Address: Converse Consultants (1524) Alton Pkwy #100

Project: 94421871-04

Project Manager: Mike Batten

Sampler: Steve Maffioli

Analysis Required: HOLD

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	HOLD	Special Instructions
MW-1/1	Soil	Brass	1	3/2/95	N/A	X	
MW-1/2						X	
MW-1/3						X	
MW-1/4						X	
MW-1/5						X	
MW-1/6						X	
MW-1/7						X	
MW-1/10						X	
MW-1/14						X	
MW-1/16						X	
MW-1/18						X	

Relinquished By: Steve Maffioli Date/Time: 3/2/95 - 4:18pm

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Received By: Date/Time:

Received in Lab By: Date/Time: 3/2/95 1912

Turnaround Time: (check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal ____

Sample Integrity: (check)

intact ✓ on ice ✓

Note: Samples will be disposed of after 30 days

Del Mar Analytical

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 94-42871-04

Sample Descript: Soil, BH-14/10
Lab Number: EC01874

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 15, 1995
Reported: Mar 16, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

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Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	109%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 94-42871-04

Sample Descript: Soil, BH-14/12
Lab Number: EC01875

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 15, 1995
Reported: Mar 16, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**50**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**110**
1,1,1-Trichloroethane	**5.0**	**6.8**
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**110**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	89%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 15, 1995
Reported: Mar 16, 1995
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	97%

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FAX (602) 968-1338

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

39206

Client Name/Address:
CONVERSE CONSULTANTS
15245 ALTON PKWY #100
IRVINE, CA 92715

Project:
94-42871-04

Project Manager:
MIKE BATTEN

Sampler:
Steve Maffei

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	HOLD	Special Instructions
BH-14/1	SOIL	BRASS	1	3/2/95	N/A	X	
BH-14/2							
BH-14/3							
BH-14/4							
BH-14/5							
BH-14/6							
BH-14/7							
BH-14/10							
B-14/14							
BH-14/16							
BH-14/18							

Relinquished By: Steve Maffei — Date/Time: 3/2/95 4:10pm

Relinquished By — Date/Time

Relinquished By — Date/Time

Note: Samples will be disposed of after 30 days

Received By — Date/Time

Received By — Date/Time

Received in Lab By — Date/Time

Turnaround Time (check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal ____

Sample Integrity (check)

intact ____ on ice ____

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2465 W. 12th St., Suite 1
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FAX (602) 968-1338

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

39221

Client Name/Address:
CONVERSE CONSULTANTS
15245 ALTON Pkwy #100
IRVINE, CA. 92715

Project:
94-42871-04

Project Manager:
Mike Batten

Sampler:
Steve Maffioli

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	8010 - PCE ONLY	418.1	HOLD	Special Instructions
BH-14/8	Soil	Brass	1	3/2/95	N/A	X	X		
BH-14/9						X	X		
BH-14/11						X	X		
BH-14/13						X	X		
BH-14/15						X	X		
BH-14/17						X	X		
BH-14/19						X	X		
BH-14/21						X	X		
BH-14/22								X	
BH-14/12								X	
BH-14/20								X	

Relinquished By: Steve Maffioli Date/Time: 3/2/95 4:18pm

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Note: Samples will be disposed of after 30 days

Received By: Date/Time:

Received By: Date/Time:

Received in Lab By: Date/Time:

Turnaround Time: (check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal ____

Sample Integrity: (check)

intact ____ on ice ____

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/8
Lab Number: EC00975

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**91**
Trichlorofluoromethane	50	N.D.
Vinyl chloride	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	107%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/9
Lab Number: EC00976

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	116%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/11
Lab Number: EC00977

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	86%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/13
Lab Number: EC00978

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**20**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**7.7**
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**55**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	129%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/15
Lab Number: EC00979

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	85%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/17
Lab Number: EC00980

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**29**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**110**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	94%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/19
Lab Number: EC00981

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	**50**	**56**
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**420**
Trichlorofluoromethane	50	N.D.
Vinyl chloride	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	111%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/21
Lab Number: EC00982

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**160**
Trichlorofluoromethane	50	N.D.
Vinyl chloride	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	104%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04

Analysis Method: EPA 418.1 (I.R. with clean-up)
First Sample #: EC00975

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 10, 1995
Reported: Mar 17, 1995

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Number	Sample Description Soil	Petroleum Hydrocarbons mg/Kg (ppm)
EC00975	BH-15/8	N.D.
EC00976	BH-15/9	N.D.
EC00977	BH-15/11	N.D.
EC00978	BH-15/13	N.D.
EC00979	BH-15/15	N.D.
EC00980	BH-15/17	N.D.
EC00981	BH-15/19	N.D.
EC00982	BH-15/21	N.D.

Detection Limit:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 15, 1995
Reported: Mar 17, 1995
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	97%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 10, 1995
Reported: Mar 17, 1995
Matrix: Soil

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Description	Petroleum Hydrocarbons mg/Kg (ppm)
Method Blank	N.D.

Detection Limit:	5.0

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38249

Client Name/Address:
CONVERSE CONSULTANTS
15245 ALTON PKWY #/W
IRVINE, CA.

Project:
94-42-71-04

Project Manager:
MIKE BATTEN

Sampler:
STEVE MARRIOLI

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	PCE ONLY 8010	418.1	Special Instructions
BH-15/ 8	SOIL	1 Brass	1	3/7/95	N/A	X	X	
BH-15/ 9	"	"	"	"	"	"	"	
" 11	"	"	"	"	"	"	"	
" 13	"	"	"	"	"	"	"	
" 15	"	"	"	"	"	"	"	
" 17	"	"	"	"	"	"	"	
" 19	"	"	"	"	"	"	"	
" 21	"	"	"	"	"	"	"	

Relinquished By: Steve Marriolli Date/Time: 3:30pm 3/7/95

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Note: Samples will be disposed of after 30 days.

Received By: Date/Time:

Received By: Date/Time:

Received in Lab By: D. Williams Date/Time: 3/7/95 3:30p

Turnaround Time: (check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal X

Sample Integrity: (check)

intact ✓ on ice ✓

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2465 W. 12th St., Suite 1
Tempe, AZ 85281
(602) 968-8272
FAX (602) 968-1338

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38250

Client Name/Address: Converse Consultants

Project: 9412871-04

Project Manager: Mike Batten

Sampler: Steve Maffioli

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	1 TOLD								Special Instructions
BH-15/1	Soil	Brass	1	3/7/95										
" 2														
" 3														
" 4														
" 5														
" 6														
" 7														
" 10														
H-15 " 12, 14, 16, 18, 20, 22														

Relinquished By:	Date/Time:	Received By:	Date/Time:
Steve Maffioli	3/7/95 3:30pm		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received in Lab By: [signature]	Date/Time: 3/7/95 3:30p

Note: Samples will be disposed of after 30 days.

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (check)
intact ✓ on ice ✓

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Henry Ames

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/12
Lab Number: EC02916

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 21, 1995
Reported: Mar 22, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	20	N.D.
Bromoform	20	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	20	N.D.
Chlorobenzene	20	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	100	N.D.
Chloroform	20	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	20	N.D.
1,2-Dichlorobenzene	40	N.D.
1,3-Dichlorobenzene	40	N.D.
1,4-Dichlorobenzene	40	N.D.
1,1-Dichloroethane	20	N.D.
1,2-Dichloroethane	20	N.D.
1,1-Dichloroethene	**20**	**160**
cis-1,2-Dichloroethene	20	N.D.
trans-1,2-Dichloroethene	20	N.D.
1,2-Dichloropropane	20	N.D.
cis-1,3-Dichloropropene	20	N.D.
trans-1,3-Dichloropropene	20	N.D.
Methylene chloride	40	N.D.
1,1,2,2-Tetrachloroethane	20	N.D.
Tetrachloroethene	**20**	**180**
1,1,1-Trichloroethane	20	N.D.
1,1,2-Trichloroethane	20	N.D.
Trichloroethene	**20**	**230**
Trichlorofluoromethane	20	N.D.
Vinyl chloride	20	N.D.

RECEIVED

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 4.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Dan Harbs
Project Manager

Surrogate Standard Recovery:	
1-Chloro-2-Bromopropane	86%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Henry Ames

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/14
Lab Number: EC02917

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 21, 1995
Reported: Mar 22, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**13**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**20**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Dan Harbs
Project Manager

Surrogate Standard Recovery:	
1-Chloro-2-Bromopropane	86%

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CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38250

Client Name/Address: Converse Consultants

Project: 94-12871-04

Project Manager: Mike Baten

Sampler: Steve Moffatt

Analysis Required: TPH G

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	Special Instructions
BH-15/1	Soil	Brass	1	3/7/95		
" 2						
" 3						
" 4						
" 5						
" 6						
" 7						
" 10						
BH-15/ 12, 14, 16, 18, 20, 22						

Relinquished By: Steve Moffatt Date/Time: 3/7/95 3:30pm

Relinquished By: Date/Time:

Relinquished By: Date/Time:

Note: Samples will be disposed of after 30 days.

Received By: Date/Time:

Received By: Date/Time:

Received in Lab By: Date/Time: 3/7/95 3:39

Turnaround Time: (check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal ____

Sample Integrity: (check)

intact ✓ on ice ✓

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Henry Ames

Method Blank

Analyzed: Mar 21, 1995
Reported: Mar 22, 1995
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Dan Harbs
Project Manager

Surrogate Standard Recovery:	
1-Chloro-2-Bromopropane	87%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from Del Mar Analytical.

Reference:
Converse, 1995b

CONVERSE CONSULTANTS
ORANGE COUNTY

Consulting Engineering
and Applied Sciences

15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307

Telephone (714) 453-2880
Facsimile (714) 453-2888

December 12, 1995

Luis Lodrigueza
Hazardous Waste Specialist
Orange County Health Care Agency
2009 East Edinger
Santa Ana, CA 92705

SUBJECT: **Soil Remediation Closure Report**
Fullerton Business Park North
1551 East Orangethrope Avenue
Fullerton, California
OCHCA Case #94IC29
Converse Project No. 94-42871-05

Dear Mr. Lodrigueza:

Converse Consultants Orange County (Converse), on behalf of Red Eagle Properties, Ltd., is pleased to present this Soil Remediation Closure Report summarizing the compliance soil sampling activities at the above referenced property. These services were performed to verify the effects of the soil remediation work (soil vapor extraction system) conducted at the site between August and November 1995. For Site Vicinity, see Figure No. 1

BACKGROUND

Red Eagle Properties, Ltd. purchased the subject site from the Resolution Trust Corporation (RTC) in May 1994. The property was sold by Red Eagle Properties, Ltd. to Elden County Affaire, a furniture manufacturer, in March 1995.

Two on-site clarifiers were discovered during a previous Preliminary Site Assessment of the subject property conducted by Converse in 1992 for Red Eagle Properties, Ltd. The clarifiers were located in the northeast section of the property, on the southeastern side of the existing warehouse. Red Eagle Properties, Ltd. did not occupy the property and never conducted operations that utilized the two clarifiers.

The clarifiers were removed in September 1994, prior to ownership or occupancy by Elden County Affaire. Chemical analyses of soil samples collected during the clarifier removals indicated elevated Total Recovery Petroleum Hydrocarbons (TRPH) and Tetrachloroethene (PCE) concentrations in soil adjacent to the southern-most clarifier. Converse recommended further investigation to assess the extent of PCE-impacted soil in the vicinity of this clarifier (Converse, 1994a).

Between October and December, 1994, Converse advanced seven (7) soil probes (BH-1 through BH-7) using a Geoprobe Systems sampling technique. For probe locations, see Figure No. 2. Detectable PCE concentrations were reported in soil samples from each probe location (BH-1, BH-2, BH-3, BH-5, and BH-7) except for locations BH-4 and BH-6. Relatively high PCE concentrations were reported in samples from probes BH-5 (from 84.5 to 96 parts per million) (Converse, 1994b). In January, 1995, Converse advanced nine (9) additional soil probes (BH-4A through BH-6A and BH-8 through BH-13) in the vicinity of the removed clarifier in an attempt to further assess the vertical and lateral extent of PCE-impacted soil and to confirm previous results (Converse, 1995a).

In March 1995, Converse advanced two soil borings BH-14 and BH-15 (hollow-stem auger) with the intent of installing groundwater monitoring wells, based on the assumption that groundwater was approximately 60 feet below ground surface (bgs). Groundwater was not encountered until approximately 115 feet bgs, and approximately 50 feet of non-impacted PCE soil was identified directly above the groundwater table. It was therefore concluded that groundwater had not been impacted by a release of PCE from the former clarifier, and the base of the PCE-impacted soil was defined at about 60 feet bgs. Based on these data, neither of the proposed groundwater monitoring wells were installed (Converse, 1995b).

In summary, relatively high PCE concentrations were reported in soil samples from locations BH-5/BH-5A and BH-8, located west and northwest of the former clarifier. Samples from the remainder of the sample locations contained detectable PCE concentrations, although at relatively lower concentrations than in soil from BH-5/BH-5A and BH-8. The highest reported PCE concentrations in each boring occurred consistently between about 20 and 25 feet bgs, within samples from the silty sand unit. Most of the sample locations reported interspersed detectable and nondetectable PCE concentrations with depth, which has been attributed to the non-uniform subsurface geology. Only five of the ten soil samples collected from a depth of 40 feet bgs reportedly contained detectable PCE concentrations.

As expressed in your letter dated December 14, 1994, the analytical results from the various investigation work has identified levels of PCE that create a public health excess lifetime cancer risk greater than the acceptable 1×10^{-6} level (based on the simplified vapor diffusion model).

In order to reduce the concentration of the previously identified soil contaminants, associated with the former clarifier, Converse operated a soil vapor extraction and treatment system at the site. The soil remedial work was conducted in accordance with the Corrective Action Plan (CAP) dated July 26, 1995 (Converse, 1995c), and which was subsequently approved on July 31, 1995. The remediation system was operational between August 15, 1995 and November 27, 1995.

Converse issued a Soil Remediation System Progress Report, dated October 25, 1995, documenting the effectiveness of the remedial treatment system (Converse, 1995d). Based on the stabilized influent volatile organic compounds (VOCs) data collected during the latter stages of the remediation, Converse shut the remediation system down on November 10, 1995. The subsurface conditions were then allowed to equalize without the influence of the vapor extraction system for 10 days.

On November 20, 1995, Converse restarted the system and collected influent VOC measurements. The collected data indicated that there was not a restart spike in VOC concentration after the 10 day shutdown period; in fact, the VOC concentration continued to decline between November 20 and November 27, 1995, as compared to the November 10, 1995 data. Based on these data, it appeared that the remedial efforts had been successful in reducing the identified soil contaminants as reported in the Soil Remediation System Progress Report and Soil Sampling Work Plan, dated November 29, 1995 (Converse, 1995d and 1995e).

CLOSURE SOIL SAMPLING INVESTIGATION

The soil sampling work was conducted to verify that remedial activities were successful at the site and that the remaining soil contaminants do not create a public health excess lifetime cancer risk greater than the acceptable 1×10^{-6} level (based on the simplified vapor diffusion model). This work was conducted in accordance with the Soil Sampling Work Plan, dated November 29, 1995 (Converse, 1995e).

On December 1, 1995, Converse advanced three (3) soil probes in the previously identified impacted area using a Geoprobe soil sampling rig. Closure probes SP-1, SP-2, and SP-3 were each located near assessment borings BH-5/BH-5A, BH-8, and BH-9, respectively. Soil samples were collected at five foot intervals from each probe location, up to a total depth between 25 and 40 feet below ground surface. Each soil sample was field screened with an flame ionizing Organic Vapor Analyzer (OVA). The soil probe sampling locations and total depth of each probe are presented on Figure No. 2. For logs of the soil probes SP-1, SP-2, and SP-3, see Appendix A.

Each soil sample was properly sealed, labelled, and stored in an ice-cooled chest and delivered to a State of California, DHS certified laboratory for chemical analyses. Proper chain-of-custody protocol was followed for all samples. Soil samples indicating the highest OVA measurement were selected for analysis and chemically analyzed for VOCs using EPA Test Method 8010.

CLOSURE SOIL SAMPLING RESULTS

PCE concentrations between 0.3 and 13.7 parts per million (ppm) were detected in soil samples collected from SP-1. PCE concentrations between 6.2 and 25.3 ppm were detected in samples from SP-2, and 1.3 and 16 ppm in two samples from SP-3.

Additionally, lower concentrations of 1,1-Dichlororethene (1,1-DCE), 1,1,1-Trichloroethane (1,1,1-TCA), and Trichloroethene (TCE) were also detected between 20 and 30 feet bgs in samples collected from SP-1, between 15 and 30 feet bgs in samples from SP-2, and in one sample from SP-3. For the laboratory results of the soil samples collected and analyzed in December 1995, see Table 1.

Based on the laboratory results for the soil samples collected from SP-1, PCE concentrations have been significantly reduced by the remediation system from 84.5 to 0.33 ppm (15 feet bgs), from 96 to 12.8 ppm (20 feet bgs), and from 88 to 13.7 ppm (25 feet bgs). Results from SP-2 indicate significant PCE reduction from 32 to 6.2 ppm (15 feet bgs), 26 to 12 ppm (20 feet bgs), 92 to 25.3 ppm (25 feet bgs), and 15 to 10.6 ppm (30 feet bgs). Reduction of detectable PCE concentrations was detected in SP-3 from 18 to 16 ppm (25 feet bgs). For comparison of the soil analytical data collected prior and after the remediation system operation, see Table 1. For soil analytical report from the December 1, 1995 investigation, see Appendix B.

CONCLUSIONS

Based on the laboratory results of soil samples collected and analyzed from soil probes SP-1, SP-2 and SP-3, significant reduction of PCE concentrations have occurred since the initial site investigations. The Converse soil vapor extraction and treatment system was successful in reduction of the concentrations of the previously identified soil contaminants, associated with the former clarifier. Converse requests that the recent analytical results be evaluated in accordance with the simplified vapor diffusion model to identify if the levels of PCE create a public health excess lifetime cancer risk greater than the acceptable 1×10^{-6} level. If the model results are favorable, Converse, on behalf of Red Eagle Properties, Ltd. requests that site closure be granted and that no further investigation or remediation work be requested for the subject site.

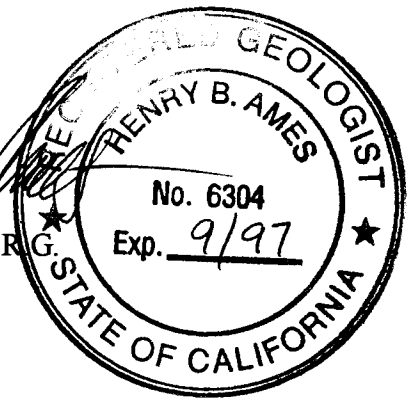
If you have any questions or require additional information, please contact the undersigned at (714) 453-2880.

Sincerely,

CONVERSE CONSULTANTS ORANGE COUNTY

Joseph Radonich
Project Environmental Scientist

Henry B. Ames, R.G.
Senior Geologist



JR/HBA/GSS

Attachments References
Table 1: Laboratory Results of Soil Samples
Figure 1: Vicinity Map
Figure 2: Site Layout Map
Appendix A: Soil Probe Logs
Appendix B: Laboratory Analytical Report

cc: Carl Ross & Mark Boen, Red Eagle Properties, Ltd.
Augustine Anijielo, Santa Ana Regional Water Quality Control Board
Mr. Gene Rosecrans, Community Bank
Mr. Roger Turner
Mr. Alan Needle, Country Affair

REFERENCES

REFERENCES

Converse Consultants Orange County, 1994a, Clarifier Removal and Soil Analysis, Fullerton Business Park North, dated October 18, 1994.

Converse Consultants Orange County, 1994b, Site Characterization Summary Report, Fullerton Business Park North, dated November 11, 1994.

Converse Consultants Orange County, 1995a, Summary Report, Additional Site Characterization, Fullerton Business Park North, dated January 26, 1995.

Converse Consultants Orange County, 1995b, Summary Report of Additional Site Characterization, Fullerton Business Park North, dated May 18, 1995.

Converse Consultants Orange County, 1995c, Corrective Action Plan, Fullerton Business Park North, dated July 26, 1995.

Converse Consultants Orange County, 1995d, Soil Remediation System Progress Report, Fullerton Business Park North, dated October 25, 1995.

Converse Consultants Orange County, 1995e, Soil Sampling Work Plan, Fullerton Business Park North, dated November 29, 1995.

TABLES

TABLE 1

Laboratory Results of Soil Samples

Fullerton Business Park North
Fullerton, California
(Converse Project No. 94-42-871-04)

EPA Laboratory Method 8010 - Purgeable Halocarbons

Results in Parts Per Million

Sample Depth (feet)	Assessment Boring BH-5	BH-5A	Closure Boring SP-1				Assessment Boring BH-8	Closure Boring SP-2			Assessment Boring BH-9	Closure Boring SP-3		
	PCE	PCE	PCE	1,1-DCE	1,1,1-TCA	TCE	PCE	PCE	1,1,1-TCA	TCE	PCE	PCE	1,1,1-TCA	TCE
15	84.5	--	0.33	ND	ND	ND	32	6.2	0.59	1.1	ND	--	--	--
20	96	--	12.8	3.1	0.67	ND	26	12	5.6	3.4	ND	1.3	ND	ND
25	88	--	13.7	0.89	19.6	0.48	92	25.3	6.0	1.0	18	16	12	0.56
30	--	17.5	0.30	ND	0.11	0.078	15	10.6	0.9	1.2	ND	--	--	--
35	--	1.07	--	--	--	--	ND	--	--	--	ND	NS	NS	NS
40	--	0.028	--	--	--	--	ND	NS	NS	NS	ND	NS	NS	NS
Date Sampled	12/94	1/95	12/95				1/95	12/95			1/95	12/95		

LEGEND:

PCE = Tetrachloroethene
1,1-DCE = 1,1-Dichloroethene
1,1,1-TCA = 1,1,1-Trichloroethane
TCE = Trichloroethene
parts per million = milligrams per kilogram (mg/kg)
ND = Not Detected above method detection limits
-- = Not Analyzed
NS = No Sample Collected

Note - All other target compounds were not detected. See laboratory analytical report.

FIGURES

Reference: U.S.G.S Topographic Map, 7.5 Minute Series, Anaheim, California Quadrangle, Dated 1965, (Photorevised 1981).

0 2000 4000

SCALE IN FEET

VICINITY MAP

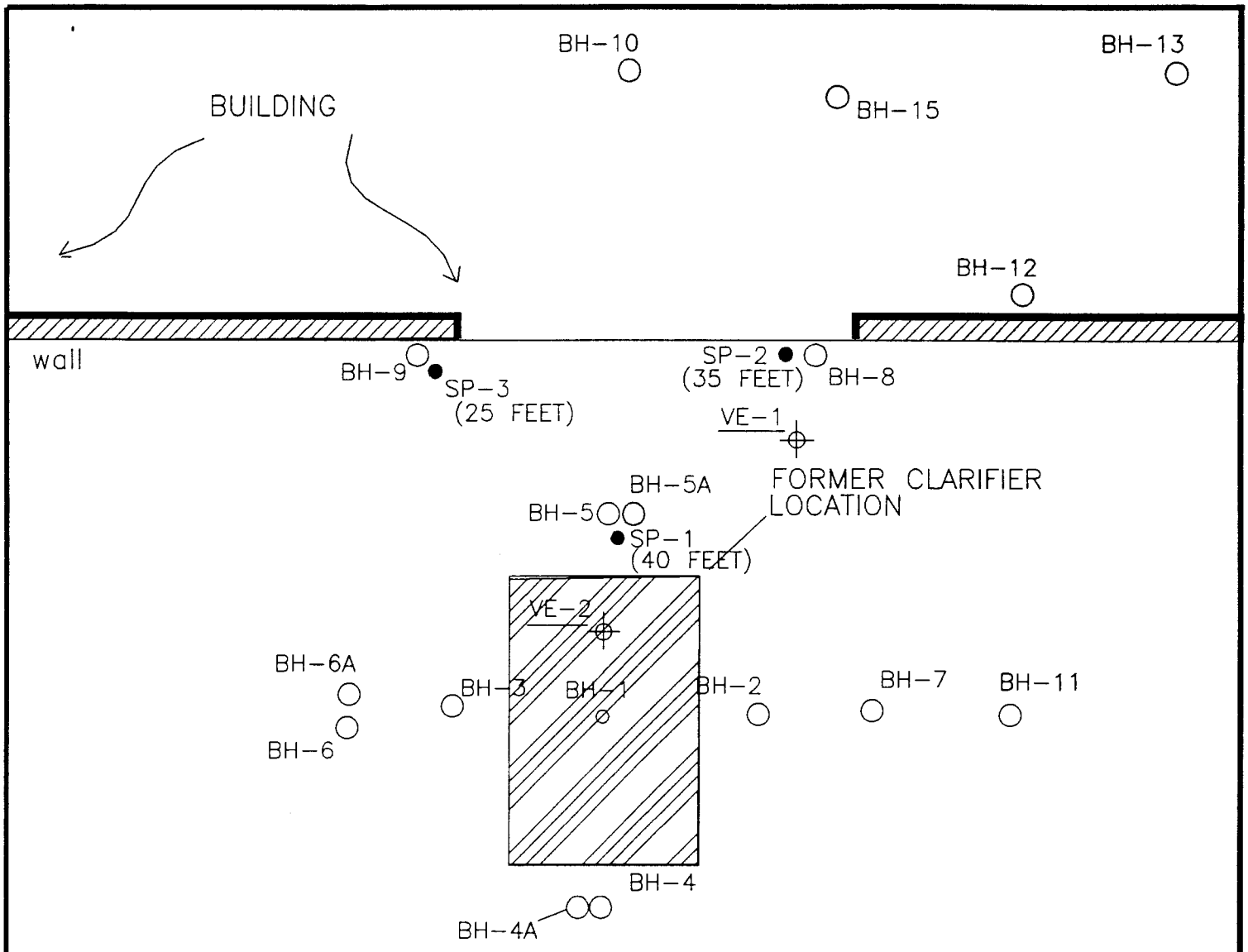
SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No. 94-42871-05

Figure No. 1

Converse Consultants Orange County

Geotechnical Engineering and Applied Sciences



LEGEND

BH-15 ○	Soil Probe Location (prior to December 1995)
VE-2 ⊕	Approximate location of vapor extraction well
SP-3 ●	Soil Closure Probe Location, December 1995,(Investigation depth)
○ BH-14	

NOTE:
This figure is part of Converse Consultants Orange County Soil Remediation Closure Report dated December 12, 1995.

Converse Consultants
Orange County
Consulting Engineering and Applied Sciences

SITE LAYOUT MAP

Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California

DATE: 12/11/95	PROJECT NO: 94-42871-05	FIGURE NO: 2
SCALE: 1" = 8'	CHECKED BY: KBA	

APPENDIX A

CONVERSE CONSULTANTS ORANGE COUNTY

LOG OF: SP-1

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	VIRONEX
PROJECT NO.	94-42871-04	DRILLER(S)	VIRONEX
SITE GEOLOGIST(S)	HBA	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 41.00	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)
GRADE LEVEL (ft) N/A
TOP OF CASING (ft) N/A

LOCATION T3S R 10W SEC.35 1/4
CITY FULLERTON CO OR
COORDINATES (ft)

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	12/1/95	ATD		N/A
WELL CONST	N/A	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	12/1/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 12/1/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHIC LOG	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0					ASPHALT
1	40	5			sm	SP	SAND: FINE TO MEDIUM GRIANED, LT. BROWN, SOME SILT.
2	5	10			sm	SP	AS ABOVE
3	30	15			sm sm	ML SP	SILT: BROWN, SOME CLAY. SAND: FINE TO MEDIUM GRIANED, LT. BROWN.
4	250	20			sm	SM	SAND W/ SILT: FINE TO MEDIUM GRAINED, BROWN.
		25					

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE CONSULTANTS ORANGE COUNTY
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04
LOG OF: SP-1

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHIC LOG	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
													OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
5	500	25									sm	SM	SILTY SAND: FINE TO MEDIUM GRAINED, BROWN.
6	25	30									m	ML	SILT: SOME SAND, BROWN, SOME CLAY.
7	50	35									sm	SM	SAND W/SILT: FINE TO MEDIUM GRAINED SAND, LT. BROWN.
8		40									sm	SM	SILTY SAND: FINE TO MEDIUM GRAINED, LT. BROWN. PROBER'S TOTAL DEPTH = 41.0 FEET BELOW GROUND SURFACE (BGS). NO FREE GROUND WATER ENCOUNTERED BGS. BACKFILLED WITH BENTONITE CHIPS.
		45											
		50											
		55											
		60											
		65											

CONVERSE CONSULTANTS ORANGE COUNTY

LOG OF: SP-2

		CONTRACTOR	VIRONEX
PROJECT NAME	RED EAGLE/FULLERTON	DRILLER(S)	VIRONEX
PROJECT NO.	94-42871-04	RIG/METHOD	GEOPROBE
SITE GEOLOGIST(S)	HBA	SCREEN INTERVAL	N/A
LOGGED BY	SSM	DRLR TD(ft) 36.00	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)		LOCATION	T3S R 10W SEC.35 1/4
GRADE LEVEL (ft)	N/A	CITY	FULLERTON CO OR
TOP OF CASING (ft)	N/A	COORDINATES (ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	12/1/95	ATD		N/A
WELL CONST	N/A	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	12/1/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 12/1/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHIC LOG	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											ASPHALT
1	2	5									sm	SP	SAND: FINE TO MEDIUM GRIANED, LT. BROWN, SOME SILT.
2	3	10									sm	SP	AS ABOVE
3	150	15									sm	ML	SANDY SILT: BROWN, SOME CLAY, FINE TO MEDIUM GRAINED SAND.
4	220	20									sm	SM	SILTY SAND: FINE TO MEDIUM GRAINED, BROWN.
		25											

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04
LOG OF: SP-2

Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHIC LOG	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
5	300	25									sm	SM	AS ABOVE
6	250	30									m	SM	SAND W/ SILT: FINE TO MEDIUM GRIANED, DRK. BROWN.
7	250	35									m	ML	SANDY SILT: FINE GRAINED SAND, BROWN. PROBER'S TOTAL DEPTH = 36.0 FEET BELOW GROUND SURFACE (BGS). NO FREE GROUND WATER ENCOUNTERED BGS. BACKFILLED WITH BENTONITE CHIPS.
		40											
		45											
		50											
		55											
		60											
		65											

CONVERSE CONSULTANTS ORANGE COUNTY

LOG OF: SP-3

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	VIRONEX
PROJECT NO.	94-42871-04	DRILLER(S)	VIRONEX
SITE GEOLOGIST(S)	HBA	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 26.00	WELL CONST TD(ft) N/A
ELEVATIONS(REL. MSL)		LOCATION	T3S R 10W SEC.35 1/4
GRADE LEVEL (ft)	N/A	CITY	FULLERTON CO OR
TOP OF CASING (ft)	N/A	COORDINATES (ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	12/1/95	ATD		N/A
WELL CONST	N/A	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	12/1/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 12/1/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHIC LOG	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0					ASPHALT
1	0	5			sm	SP	SAND: FINE TO MEDIUM GRIANED, LT. BROWN, SOME SILT.
2	0	10			sm	SP	AS ABOVE
3	50	15			sm	CL	CLAY W/ SILT: DRK. BROWN, SOME SAND.
4	10	20			m	SM	SILTY SAND: FINE TO MEDIUM GRAINED, DRK. BROWN.
		25					

CONVERSE CONSULTANTS ORANGE COUNTY
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04

LOG OF: SP-3

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHIC LOG	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
5	320	25									sm	SM	AS ABOVE PROBER'S TOTAL DEPTH = 26.0 FEET BELOW GROUND SURFACE (BGS). NO FREE GROUND WATER ENCOUNTERED BGS. BACKFILLED WITH BENTONITE CHIPS.
		30											
		35											
		40											
		45											
		50											
		55											
		60											
		65											

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

APPENDIX B

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900 FAX 714/538-1209

CLIENT

Converse Environmental West (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO H10300-01
REPORTED 12/07/95

SAMPLE IDENTIFICATION Soil - SP-1/3'
Prowestern
Date Collected 12/01/95

BASED ON SAMPLE As Submitted

RECEIVED 12/01/95

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	12/03/95 RR	0.33 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900 FAX 714/538-1209

CLIENT

Converse Environmental West (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO H10300-02
REPORTED 12/07/95

SAMPLE IDENTIFICATION Soil - **SP-1/4'**

BASED ON SAMPLE Prowestern
Date Collected 12/01/95
As Submitted

RECEIVED 12/01/95

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
1,1-Dichloroethene	EPA 8010	12/03/95 RR	3.1 mg/kg
1,1,1,-Trichloroethane	EPA 8010	12/03/95 RR	0.67 mg/kg
Tetrachloroethene	EPA 8010	12/03/95 RR	12.8 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900 FAX 714/538-1209

CLIENT

Converse Environmental West (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO H10300-03

REPORTED 12/07/95

RECEIVED 12/01/95

SAMPLE IDENTIFICATION Soil - SP-1/5'

BASED ON SAMPLE Prowestern
Date Collected 12/01/95
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
1,1-Dichloroethane	EPA 8010	12/03/95 RR	0.89 mg/kg
1,1,1-Trichloroethane	EPA 8010	12/03/95 RR	19.6 mg/kg
Trichloroethene	EPA 8010	12/03/95 RR	0.48 mg/kg
Tetrachloroethene	EPA 8010	12/03/95 RR	13.7 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900
FAX 714/538-1209

CLIENT

Converse Environmental West (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H10300-04

REPORTED 12/07/95

RECEIVED 12/01/95

SAMPLE IDENTIFICATION: Soil - SP-1/6'
Prowestern
Date Collected 12/01/95

BASED ON SAMPLE: As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
1,1,1-Trichloroethane	EPA 8010	12/03/95 RR	0.11 mg/kg
Trichloroethene	EPA 8010	12/03/95 RR	0.078 mg/kg
Tetrachloroethene	EPA 8010	12/03/95 RR	0.30 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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TESTING & CONSULTING
Chemical · Microbiological · Environmental ·

C-1 10M

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900
FAX 714/538-1209

CLIENT

Converse Environmental West (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H10300-05

REPORTED 12/07/95

SAMPLE IDENTIFICATION: Soil - SP-2/3'

RECEIVED 12/01/95

BASED ON SAMPLE: Prowestern
Date Collected 12/01/95
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
1,1,1-Trichloroethane	EPA 8010	12/03/95 RR	0.59 mg/kg
Trichloroethene	EPA 8010	12/03/95 RR	1.1 mg/kg
Tetrachloroethene	EPA 8010	12/03/95 RR	6.2 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900
FAX 714/538-1209

CLIENT

Converse Environmental West (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO H10300-06

REPORTED 12/07/95

RECEIVED 12/01/95

SAMPLE IDENTIFICATION Soil - **SP-2/4'**

BASED ON SAMPLE Prowestern
Date Collected 12/01/95
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
1,1,1-Trichloroethane	EPA 8010	12/03/95 RR	5.6 mg/kg
Trichloroethene	EPA 8010	12/03/95 RR	3.4 mg/kg
Tetrachloroethene	EPA 8010	12/03/95 RR	12.0 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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C-1 10M

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CLIENT

Converse Environmental West (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO H10300-07

REPORTED 12/07/95

RECEIVED 12/01/95

SAMPLE IDENTIFICATION Soil - **SP-2/5'**

BASED ON SAMPLE Prowestern
Date Collected 12/01/95
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
1,1,1-Trichloroethane	EPA 8010	12/03/95 RR	6.0 mg/kg
Trichloroethene	EPA 8010	12/03/95 RR	1.0 mg/kg
Tetrachloroethene	EPA 8010	12/03/95 RR	25.3 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D
Vice President

ESB/ql

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CLIENT

Converse Environmental West (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO H10300-08

REPORTED 12/07/95

RECEIVED 12/01/95

SAMPLE IDENTIFICATION Soil - SP-2/6'

BASED ON SAMPLE Prowestern
Date Collected 12/01/95
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
1,1,1-Trichloroethane	EPA 8010	12/03/95 RR	0.90 mg/kg
Trichloroethene	EPA 8010	12/03/95 RR	1.2 mg/kg
Tetrachloroethene	EPA 8010	12/03/95 RR	10.6 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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CLIENT

Converse Environmental West (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO H10300-09

REPORTED 12/07/95

SAMPLE IDENTIFICATION Soil - SP-3/4'

BASED ON SAMPLE Prowestern
Date Collected 12/01/95
As Submitted

RECEIVED 12/01/95

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
Tetrachloroethene	EPA 8010	12/03/95 RR	1.3 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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CLIENT

Converse Environmental West (4708)
Attn: Henry Ames
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. H10300-10
REPORTED 12/07/95
RECEIVED 12/01/95

SAMPLE IDENTIFICATION: Soil - **SP-3/5'**
BASED ON SAMPLE: Prowestern
Date Collected 12/01/95
As Submitted

PURGEABLE HALOCARBONS

Constituent	Method	Date/Analyst	Result
1,1,1-Trichloroethane	EPA 8010	12/03/95 RR	12.0 mg/kg
Trichloroethene	EPA 8010	12/03/95 RR	0.56 mg/kg
Tetrachloroethene	EPA 8010	12/03/95 RR	16.0 mg/kg

All Other Target Compounds Were None Detected. See Attached List.

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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C-1 10M

Client: Converse Environmental West
Lab No.: H10300-01, 04
Date: December 07, 1995

PURGEABLE HALOCARBONS-EPA METHOD 8010	LIMITS OF DETECTION (mg/kg)
Chloromethane	0.01
Bromomethane	0.01
Dichlorodifluoromethane	0.01
Vinyl chloride	0.01
Chloroethane	0.01
Methylene chloride	0.01
Trichlorofluoromethane	0.01
1,1-Dichloroethene	0.01
1,1-Dichloroethane	0.01
trans-1,2-Dichloroethene	0.01
Chloroform	0.01
1,2-Dichloroethane	0.01
1,1,1-Trichloroethane	0.01
Carbon tetrachloride	0.01
Bromodichloromethane	0.01
1,2-Dichloropropane	0.01
trans-1,3-Dichloropropene	0.01
Trichloroethene	0.01
Dibromochloromethane	0.01
1,1,2-Trichloroethane	0.01
cis-1,3-Dichloropropene	0.01
2-Chloroethylvinyl ether	0.01
Bromoform	0.01
1,1,2,2-Tetrachloroethane	0.01
Tetrachloroethene	0.01
Chlorobenzene	0.01
1,3-Dichlorobenzene	0.01
1,2-Dichlorobenzene	0.01
1,4-Dichlorobenzene	0.01

Client: Converse Environmental West
Lab No.: H10300-02, 06, 08
Date: December 07, 1995

PURGEABLE HALOCARBONS-EPA METHOD 8010	LIMITS OF DETECTION (mg/kg)
Chloromethane	0.2
Bromomethane	0.2
Dichlorodifluoromethane	0.2
Vinyl chloride	0.2
Chloroethane	0.2
Methylene chloride	0.2
Trichlorofluoromethane	0.2
1,1-Dichloroethene	0.2
1,1-Dichloroethane	0.2
trans-1,2-Dichloroethene	0.2
Chloroform	0.2
1,2-Dichloroethane	0.2
1,1,1-Trichloroethane	0.2
Carbon tetrachloride	0.2
Bromodichloromethane	0.2
1,2-Dichloropropane	0.2
trans-1,3-Dichloropropene	0.2
Trichloroethene	0.2
Dibromochloromethane	0.2
1,1,2-Trichloroethane	0.2
cis-1,3-Dichloropropene	0.2
2-Chloroethylvinyl ether	0.2
Bromoform	0.2
1,1,2,2-Tetrachloroethane	0.2
Tetrachloroethene	0.2
Chlorobenzene	0.2
1,3-Dichlorobenzene	0.2
1,2-Dichlorobenzene	0.2
1,4-Dichlorobenzene	0.2

Client: Converse Environmental West
Lab No.: H10300-03, 05, 09
Date: December 07, 1995

PURGEABLE HALOCARBONS-EPA METHOD 8010	LIMITS OF DETECTION (mg/kg)
Chloromethane	0.1
Bromomethane	0.1
Dichlorodifluoromethane	0.1
Vinyl chloride	0.1
Chloroethane	0.1
Methylene chloride	0.1
Trichlorofluoromethane	0.1
1,1-Dichloroethene	0.1
1,1-Dichloroethane	0.1
trans-1,2-Dichloroethene	0.1
Chloroform	0.1
1,2-Dichloroethane	0.1
1,1,1-Trichloroethane	0.1
Carbon tetrachloride	0.1
Bromodichloromethane	0.1
1,2-Dichloropropane	0.1
trans-1,3-Dichloropropene	0.1
Trichloroethene	0.1
Dibromochloromethane	0.1
1,1,2-Trichloroethane	0.1
cis-1,3-Dichloropropene	0.1
2-Chloroethylvinyl ether	0.1
Bromoform	0.1
1,1,2,2-Tetrachloroethane	0.1
Tetrachloroethene	0.1
Chlorobenzene	0.1
1,3-Dichlorobenzene	0.1
1,2-Dichlorobenzene	0.1
1,4-Dichlorobenzene	0.1

Client: Converse Environmental West
Lab No.: H10300-07, 10
Date: December 07, 1995

PURGEABLE HALOCARBONS-EPA METHOD 8010	LIMITS OF DETECTION (mg/kg)
Chloromethane	0.4
Bromomethane	0.4
Dichlorodifluoromethane	0.4
Vinyl chloride	0.4
Chloroethane	0.4
Methylene chloride	0.4
Trichlorofluoromethane	0.4
1,1-Dichloroethene	0.4
1,1-Dichloroethane	0.4
trans-1,2-Dichloroethene	0.4
Chloroform	0.4
1,2-Dichloroethane	0.4
1,1,1-Trichloroethane	0.4
Carbon tetrachloride	0.4
Bromodichloromethane	0.4
1,2-Dichloropropane	0.4
trans-1,3-Dichloropropene	0.4
Trichloroethene	0.4
Dibromochloromethane	0.4
1,1,2-Trichloroethane	0.4
cis-1,3-Dichloropropene	0.4
2-Chloroethylvinyl ether	0.4
Bromoform	0.4
1,1,2,2-Tetrachloroethane	0.4
Tetrachloroethene	0.4
Chlorobenzene	0.4
1,3-Dichlorobenzene	0.4
1,2-Dichlorobenzene	0.4
1,4-Dichlorobenzene	0.4

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92668
(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 12/1/95 Page 1 of 2

CLIENT Converse Consultants
ADDRESS Irvine, CA.
PROJECT NAME Praxistern
PROJECT MANAGER Henry Ames
PHONE NUMBER
SAMPLERS: (Signature)

Samples Intact Yes X No ____
County Seals Intact Yes ____ No ____
Sample Ambient ____ Cooled X Frozen ____
Same Day ____ 24 Hr. ____
Regular ____ 48 Hr. X

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE: WATER	SAMPLE TYPE: AIR	SAMPLE TYPE: SOLID	NO. OF CNTNRS.	SUSP. CONTAM.	TESTS REQUIRED
SP-1/1	5-5.5 Depth	12/1/95				✓	#1	PCE	8010 Hold
SP-1/2	10-10.5								Hold
SP-1/3	15-15.5 30ppm								X
SP-1/4	20-20.5 250ppm								X
SP-1/5	25-25.5 500ppm								X
SP-1/6	30-30.5 25ppm								X
SP-1/7	35-35.5								Hold
SP-1/8	40-40.5								Hold
SP-2/1	5-5.5 [redacted]								Hold
SP-2/2	10-10.5 [redacted]								Hold
SP-2/3	15-15.5 [redacted] 150 ppm								X
SP-2/4	20-20.5 220ppm								X

Relinquished by: (Signature) 2:00pm — Date/Time 12/1/95
Received by: (Signature) — Date/Time
Relinquished by: (Signature) — Date/Time 12/1/95
Received by Laboratory for analysis: (Signature) — Date/Time 12:20
Special Instructions:

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(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 12/1/95 Page 2 of 2

CLIENT Converse Consultants
ADDRESS Irvine, CA.

PROJECT MANAGER Henry Ames
PHONE NUMBER
SAMPLERS: (Signature)

PROJECT NAME Prowestern

Samples Intact Yes X No ___
County Seals Intact Yes ___ No ___
Sample Ambient ___ Cooled ___ Frozen ___
Same Day X 24 Hr. ___
Regular ___ 48 Hr. X

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO. OF CNTNRS.	SUSP. CONTAM.	TESTS REQUIRED
SP-2/5	25-25.5 300ppm DEPTH	12/1/95				✓	1	PCE	X 8010
SP-2/6	30-30.5 250ppm								X
SP-2/7	35-35.5 250ppm								HOLD
SP-3/1	5-5.5								HOLD
SP-3/2	10-10.5								HOLD
SP-3/3	15-15.5 50ppm								HOLD
SP-3/4	20-20.5 10ppm								X
SP-4/5	25-25.5 320ppm								X

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Steve Maffioli 2:00pm 12/1/95		
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time
	J Waring	12/1 226

Special Instructions:

I hereby authorize the performance of the above indicated work.

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

Reference:
COWD, 2014

This report contains important information about your drinking water. Translate it, or speak with someone who understands it.

Este informe contiene información muy importante sobre su agua potable. Tradúzcalo o hable con alguien que lo entienda bien.

このレポートには、飲料水に関する重要な情報が含まれています。 は、変換、またはそれを理解している人と話すことになっている。

이 보고서는 식수에 대한 중요한 정보가 포함되어 있습니다. 그것은 번역, 또는 알고 있는 사람들과 이야기하고 있다.

Ang ulat na ito ay naglalaman ng mahalagang impormasyon tungkol sa iyong mga inuming tubig. Isalin ang mga ito, o makipag-usap sa isang tao na nauunawaan ito.

这个报告包含关于您的饮用水的重要信息。翻译它或者与了解它的人讲话。

Báo cáo này có chứa thông tin quan trọng về nước uống của bạn. Dịch nó, hoặc nói chuyện với một ai đó hiểu nó.

NEED TO CONTACT US?

BY MAIL: City of Orange Water Division
P.O. Box 449, Orange, California 92866

BY PHONE:
Water Quality (714) 288-2475
Chris Costlow, *Sr. Water Quality Inspector*
Jason Athas, *Water Quality Inspector*
Water Engineering (714) 288-2475
24 Hour Emergency (714) 538-1961
Water Billing (714) 744-2233

WEBSITE: www.cityoforange.org/ccr

City of Orange Water Division
189 South Water Street
Orange, California 92866

CONSUMER CONFIDENCE REPORT

Based on 2014 Averages

Serving the City of Orange for Over 100 Years

City of Orange
Water Division

Class 1 Water Utility

CITY OF ORANGE WATER DIVISION CONSUMER CONFIDENCE REPORT – 2014

Since 1990, the City of Orange has provided its water customers an annual water quality report. The federal government has adopted guidelines for water agencies to follow when communicating water quality information to consumers. The State of California tailored these guidelines and the former water quality report is now called the Consumer Confidence Report. The new format is intended to provide customers a summary of the water quality data, key definitions, and other related information.

This report summarizes the quality of the water provided in 2014. It includes details about water sources, what the water contains, and how it compares to standards set by the State of California. Orange vigilantly monitors and safeguards its water supplies. We are pleased to report that your tap water met all Federal and State drinking water health standards. For more information about your water, call (714) 288-2475 and ask for Chris Costlow or Jason Athas.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

Orange's water comes from two sources. The primary source is groundwater drawn from 15 municipal wells drilled about 1000 feet into the Santa Ana River Aquifer. Well water goes directly into the distribution system, is disinfected with chlorine and meets all state regulations. The second source is water imported by the Metropolitan Water District, from the Colorado River and from northern California (San Francisco-San Joaquin Bay Delta). Metropolitan water is filtered and disinfected with chloramines.

The Orange City Council meets on the second Tuesday of each month at 6:00pm in the City Hall Council Chambers, 300 East Chapman Avenue. The community is welcome to participate in these meetings.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material. It also can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water before it is treated include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture and residential uses.
- Radioactive contaminants, which are naturally occurring.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, and septic systems.

In order to ensure that tap water is safe to drink, the California Department of Public Health prescribes regulations, which limit the amount of certain contaminants in water provided by public water systems. The Department's Food and Drug Branch regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

WATER QUALITY DATA

The table below lists all the drinking water contaminants detected by the City of Orange during the 2014 calendar year. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done January 1 through December 31, 2014. The State requires the City of Orange to monitor for certain contaminants less than once per year because the concentrations of these contaminants is not expected to vary significantly from year to year. Some of the data, though representative of the water quality, is more than one year old.

Terms and abbreviations used below:

- **Primary Drinking Water Standard or PDWS:** MCLs and MRLDs for contaminants that effect health along with their monitoring and reporting requirements, and water treatment requirements.
- **Public Health Goal (PHG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.
- **Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the U.S. Environmental Protection Agency.
- **Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste, and appearance of drinking water.
- **Regulatory Action Level (AL):** The concentration of a contaminant which, when exceeded, triggers treatment or other requirements that a water system must follow.
- **Treatment Technique (TT):** A required process intended to reduce the level of a contaminant in drinking water.
- **NA:** not applicable
- **ND:** not detected
- **NS:** no standard
- **NTU:** Nephelometric Turbidity Units
- **ppm:** parts per million
- **ppb:** parts per billion
- **pCi/l:** picocuries per liter (a measure of radiation)
- **Maximum Residual Disinfectant Level (MRDL):** The level of a disinfectant added for water treatment that may not be exceeded at the consumer's tap.
- **Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs are set by the U.S. Environmental Protection Agency.

PRIMARY DRINKING WATER STANDARDS

(Mandatory Health Related Standards Established by the State of California, Department of Health Services)

Contaminant	Unit Measurement	MCL	PHG (MCLG)	Range	Average	Date Sampled	Typical Source of Contaminant
Microbiological Contaminants							
Total Coliform Bacteria	MCL 5.0% of monthly samples are positive		(0)	ND	ND	Weekly	Naturally present in the environment
Turbidity: Import	NTU	0.5 TT	NA	ND	ND	Daily	Soil runoff

Turbidity is a measure of the cloudiness of the water. Turbidity is a good indicator of the effectiveness of the filtration process.

Radioactive Contaminants							
Gross Alpha Activity	pCi/l	15	0	ND-10.80	4.75	2014	Erosion of natural deposits
Uranium	pCi/l	20	0.43	0.88-8.74	3.99	2014	Erosion of natural deposits
Gross Beta Activity	pCi/l	50	0	ND-5	3.2	2014	Erosion of natural deposits
Inorganic Contaminants							
Arsenic	ppb	10	0.004	ND-5.7	0.9	2014	Erosion of natural deposits; runoff from orchards; glass and electronics production wastes
Fluoride	ppm	2	1	0.14-0.80	0.36	2014	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrate (NO_3)	ppm	45	45	ND-13	9.73	2014	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Nitrite	ppm	1	1	ND	ND	2014	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Nitrate (N)+ Nitrite	ppm	10	10	ND-3.5	2.2	2014	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Copper	ppm	AL=1.3	0.3	0.01-0.14 no homes above AL	90% was 0.11	2012	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	ppb	AL=15	0.2	ND-4.7 no homes above AL	90% was 1.8	2012	Internal corrosion of household plumbing systems; discharges from industrial manufacturers; erosion of natural deposits

SECONDARY DRINKING WATER STANDARDS

(Aesthetic Standards Established by the State of California, Department of Health Services)

Contaminant	Unit Measurement	MCL	PHG (MCLG)	Range	Average	Date Sampled	Typical Source of Contaminant
Color	Units	15 units	NA	<5	<5	Monthly	Naturally-occurring organic materials
Corrosivity	---	Non-corrosive	NA	Non-corrosive	Non-corrosive	2014	Natural/industrial-influenced balance of hydrogen/carbon/oxygen in the water; affected by temperature and other factors
Methyl-tert-butyl ether (MTBE)	ppb	5	NA	ND	ND	2014	Leaking underground storage tanks and pipelines
Odor-Threshold	Units	3 units	NA	1	1	Monthly	Naturally-occurring organic materials
Turbidity: Distribution System	NTU	5	NA	0.03-0.14	0.10	Monthly	Soil runoff
Turbidity: Wells	NTU	5	NA	0.04-0.29	0.08	Monthly	Soil runoff
Total Dissolved Solids (TDS)	ppm	1000	NA	332-644	519	2014	Runoff/leaching from natural deposits
Specific Conductance	micromhos	1600	NA	688-1010	849	2014	Substances that form ions when in water; seawater influence
Chloride	ppm	500	NA	37-110	82	2014	Runoff/leaching of natural deposits; seawater influence
Sulfate	ppm	500	NA	64-232	126	2014	Runoff/leaching of natural deposits; industrial wastes

Stage 2 Disinfection Byproducts Precursors, 1st, 2nd, 3rd, and 4th (8 samples / Quarter)							
Total Trihalomethanes (TTHMS)	ppb	80	NA	ND-38	23	December 2014	By-product of drinking water chlorination

Highest Local Running Annual Average 36

Haloacetic acids (HAA5)	ppb	60	NA	ND-22	10	December 2014	By-product of drinking water chlorination

Highest Local Running Annual Average 16

		MRDL	MRDLG				
Total Chlorine Residual	ppm	4.0	4.0	ND-2.6	1.0	Weekly	Drinking water disinfectant

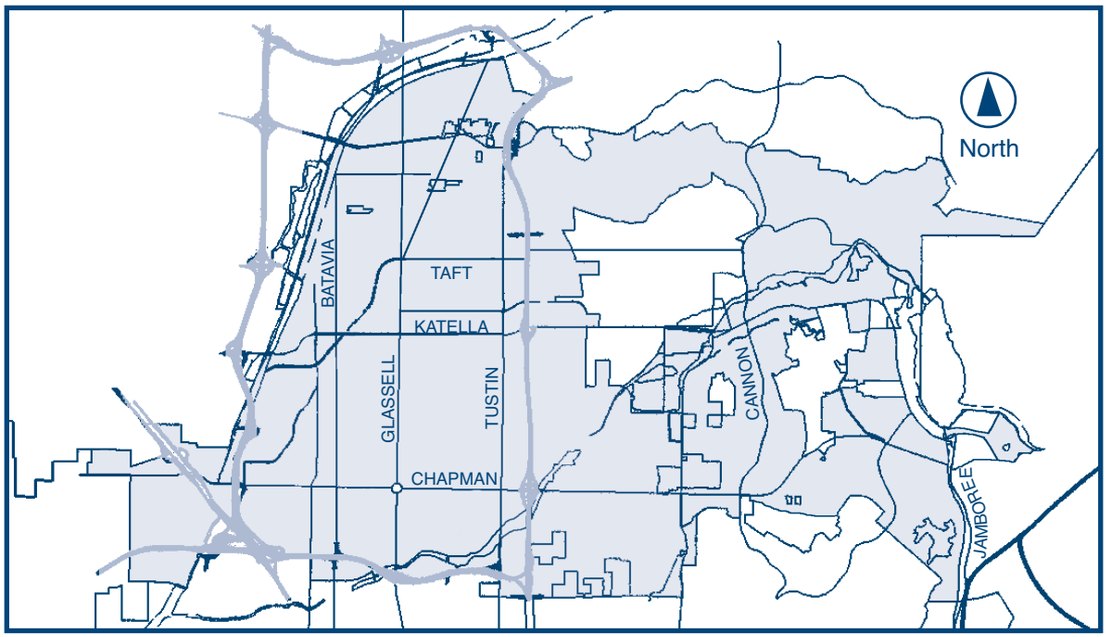
Other Parameters

Calcium	ppm	NS	NS	51-105	90	2014	Naturally-occuring dissolved mineral
Magnesium	ppm	NS	NS	9-26	19	2014	Naturally-occuring dissolved mineral
Iron	ppb	300	NS	ND-51	11	2014	Naturally-occuring; Industrial waste
pH: Wells	pH Units	NS	NS	6.5-8.1	7.6	Monthly	
pH: Distribution System	pH Units	NS	NS	6.7-8.3	7.6	Monthly	
Sodium	ppm	NS	NS	38-89	58	2014	Erosion of natural deposits
Hardness ($CaCO_3$)	Grains/Gallon	NS	NS	9-21	18	2014	Erosion of natural deposits

SOURCE WATER ASSESSMENT

City of Orange water supplies are from various sources including groundwater, purchased water from Northern California and the Colorado River, and local watersheds. An assessment of our drinking water sources was completed in February 2003. Water sources are considered most vulnerable to contamination from those activities associated with urban industrial environments such as chemical processing, petroleum pipelines and storage, gas stations and sewer collection systems. The City of Orange carefully tests all water supply sources to assure the safety and compliance with all Drinking Water Standards. A copy of the assessment summary is available at the City of Orange Water Division, located at 189 S. Water St., or you may request a summary be sent to you by contacting the City of Orange Water Division at (714) 288-2475.

City of Orange Water Division Service Area Map



Water Supply, Water Quality, and Related Topics

CUSTOMER SERVICE: We are committed to provide prompt courteous service to our customers. If you have questions about water quality, pressure or other supply issues, please call (714) 288-2475 or after regular business hours call (714) 538-1961. Questions about your bill should be directed to our utility billing office at (714) 744-2233.

ONGOING WATER QUALITY PROGRAMS AND ACTIVITIES: The City of Orange adheres to strict regulatory standards for materials used in our water system. Rigorous third party testing assures all materials are approved for use in potable water systems. We also operate our own state-certified drinking water laboratory. With testing performed in the city's lab and contracted testing with other public and private laboratories, we are able to assure that our water supply meets or exceeds all applicable drinking water standards. In addition, our staff administers a cross-connection control program to check that water service connections are protected where there is a possibility of reverse flow contaminating our water system.

DISINFECTION: Water supplies are made safe to drink in several ways. All of the city's well water sources are naturally filtered as the water percolates through the ground removing impurities. As an added protection, the city chlorinates all well water pumped into the distribution system. Other water sources require treatment at facilities designed to remove impurities and make water safe to drink. Water treatment facilities use various forms of disinfection including chlorine, chloramines and ozone. Each, or a combination of these, may be used to treat surface water purchased by the city for delivery to our customers. **All treatment methods are designed to make the water safe for humans to drink. Chloramine disinfection can be toxic to fish and other aquatic animals and is of concern for kidney dialysis patients. Water supplied with chloramines generally makes up about 25% to 35% of our total supply. Pet fish owners should take appropriate remedies when changing or adding water from the tap to fishponds or fish tanks. Dialysis patients should consult a health care professional for appropriate precautions.**

FIRE HYDRANTS: The City of Orange maintains high standards for water supplies available for fire protection and is rated a Class I Water System by the Insurance Services Office. We have over 4,500 public fire hydrants located throughout our service area. Many other hydrants are privately owned and maintained by the property owner. The city tests all public hydrants on a regular interval, usually once each year. It is very important that hydrants function properly and are accessible to firefighters when emergency supplies are needed. **If there is a hydrant in front of your home or on your property, please maintain a sufficiently clear, three-foot minimum area around the hydrant. Bushes, shrubs, trees, etc. should be trimmed to keep the hydrant visible and accessible.**

REGIONAL WATER SUPPLY SOURCES: Water supplies throughout Southern California are derived from several sources. These sources include water from Northern California via the State Water Project, the Colorado River, local groundwater basins, local water sheds, reclamation and water reuse projects, and ocean desalinization. The combination of some or all of these sources is available to the City of Orange now or in the future. Reliable water supplies are essential to our health, safety, and welfare. **No single source is sufficient to meet all of our water supply needs. The challenge is to find a cost-effective, reliable combination that will ensure adequate water supplies now and into the future. Please help recognize the value of a reliable water supply. Use what you need, but please don't waste water. For water conservation information, please call (714) 288-2475.**

Reference:
DTSC, 2015

California Site Screening

Site Name:	**Arnold Engineering/Universal Molding**				
SEMS ID:	**CAN000900306**				
Address:	1551 East Orangethorpe Ave				
City:	**Fullerton**	***State:***	CA	***Zip:***	92831

Cooperative Agreement *Name and Number:*	PA/SI COOPERATIVE AGREEMENT CA DEPARTMENT OF TOXIC SUBSTANCES CONTROL ID #: 00T14601-1 7/1/14 TO 6/30/15
California *DTSC Liaision:*	Gimeno-O'Brien, Alice
California DTSC Project Manager:	Abbasi, Rafat
California *DTSC GSB Liaision:*	Neal, Greg
U.S. *EPA Site Assessment Manager:*	Hoang, Kim

LIST OF ACRONYMS

BGS	Below Ground Surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CWS	California Water System Company
DTSC	Department of Toxic Substances Control
EHS	Kern County Environmental Health Services Department
EPA	United States Environmental Protection Agency
HRS	Hazard Ranking System
HWTS	Hazardous Waste Tracking System
MCL	Maximum Contaminant Level
mg/kg	milligrams per kilogram
NPL	National Priorities List
PA	Preliminary Assessment
PCE	Tetrachloroethylene
PCS	Pre-CERCLA Screening Assessment
RCRA	Resource Conservation and Recovery Act
RCRAInfo	Resource Conservation and Recovery Act Information
RSL	Regional Screening Level
RWQCB	Regional Water Quality Control Board
SARA	Superfund Amendments and Reauthorization Act
SEMS	Superfund Enterprise Management System
SPS	Sierra Process Systems site
TPH	Total Petroleum Hydrocarbons
UST	Underground Storage Tank
VOC	Volatile Organic Compound
µg/L	microgram per liter

California Site Screening: Arnold Engineering/Universal Molding

PART A: Decision Documentation

1.1 Core Information

SEMS Site Name:	Arnold Engineering/Universal Molding
SEMS EPA ID:	CAN000900306
Street Address:	1551 East Orangethorpe Ave
City:	Fullerton
County:	Orange
CADTSC Regional Office:	Cypress
Envirostor Project Code:	60002048
Envirostor Site Name:	Arnold Engineering
Envirostor ID:	60002048
Geotracker Site Name:	Fullerton Business Park
Geotracker ID:	SLT8R2213999
Land Use:	Industrial
Latitude:	33.861159
Longitude:	-117.900833

Site History

Current Operations

Currently Operational: Yes
Current Owner: Mr. Dominick Baione/ Universal Molding
Current Operator: Mr. Dominick Baione/ Universal Molding
Operational Activities: Aluminum extrusion, metal precision rolling
Dates of Current Operations: 2007

Historical Operations

Previous Owners: Alan Needle Trust (acquired 1995)
Previous Operator:
Operational Activities: unknown
Dates of Previous Operations: unknown

Historical Operations

Previous Owners: Red Eagle Properties (1994)
Previous Operator: Red Eagle Properties (HWTS records)
Operational Activities: unknown
Dates of Previous Operations: 1994

Historical Operations

Previous Owners: McLachlan Investment Company (acquired from Arnold Engineering in
Previous Operator: Arnold Engineering (HWTS records indicate Arnold Engineering
Operational Activities: machine part components, sheet metal components, bench assemblies,
Dates of Previous Operations:

California Site Screening: Arnold Engineering/Universal Molding

Lead Agency

Current Site Lead Agency: Orange County Health Care Agency
Current Site Lead Contact: Geniece Higgins

DTSC

DTSC Point of Contact: Rafat Abbasi
Last DTSC Action/Order: None Year Completed: N/A
Action/Order Link:
Details:

RWQCB

RWQCB Point of Contact: Debi Ney
Last RWQCB Action: Case closure letter from Orange Co Year Completed: 12/15/1995
RWQCB Action Link:
Details:

RCRA

RCRA Status: Inactive
RCRA ID: CAT000624668
Details: HWTS search shows Arnold Magnetics and Electronics generated 14.6 t

Other

Agency: Orange County Health Care Agency
Investigation Type: Site investigation and remedial actio Year Completed: 08/01/2013

California Site Screening: Arnold Engineering/Universal Molding

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Pathways and Contaminants

Pathway of concern:	*Primary*	Air
	Secondary	Groundwater
Most Significant Contaminant of Concern (CoC):		Tetrachloroethylene
Other Contaminants:		Trichloroethylene 1,1 Dichloroethane
Source of CoC information:		Orange County Health Care Agency Files
Hazardous Materials Used:		Waste oil, organic solids, unspecified solvents,tank bottom, photo-chemical waste
Hazardous Materials Manifested or disposed (per HWTS):		

California Site Screening: Arnold Engineering/Universal Molding
Project Data Package

SEMS Site Name:	**Arnold Engineering/Universal Molding**
SEMS ID:	**CAN000900306**
City:	**Fullerton**

Data Package - Confidential

1. SPGIT Priority

a. Is the site in a SPGIT Priorty Area?	Yes
(i). If Yes, what is the site's SPGIT Quad Priority Level?	3
(ii). If Yes, what is the site's SPGIT Quad Priority Ranking?	131
b. Is the site adjacent to a SPGIT Priority Area?	Yes

E: 73

SW: 184

2. Groundwater

a. What is the prevailing groundwater flow direction?	West	
b. How many drinking water wells are within a 4 mile radius of the site?	56	
(i). What is the distance of the nearest drinking water well (in feet)?	1022	
(ii). What is the direction of the nearest drinking water well?	Northwest	
c. How many contaminated drinking water wells are within a 4 miles radius?	45	
(i). Of the wells within the 4 mile radius, what is the distance of the nearest contaminated well from the site (ft)?	2822	
(ii). What key contaminants are in the nearest impacted drinking water well?	Trichloroethylene	Tetrachloroethylene
(iii). Approximate number of people served:	137367	
(iv). Site is a suspected source of groundwater contamination:	Unknown	
d. Is the site within a known groundwater contamination plume?	Yes	
(i). What key contaminants are found in the plume?	Trichloroethylene	Tetrachloroethylene
e. Are any groundwater contamination plumes within one mile upgradient from the site?	Yes	
(i). What key contaminants are found in the upgradient plume?	Trichloroethylene	Tetrachloroethylene
f. Are any groundwater contamination plumes within one mile downgradient from the site?	Yes	
(i). What key contaminants are in the downgradient plume?	Trichloroethylene 1,1-DCE	Tetrachloroethylene 1,1-TCA

3. Surface Water

a. Is the site a potential source of contamination to surface water?	No
b. Is Surface water used for drinking water within 15 miles of the site?	No
(i). Public / commercial supply	
(ii). Private supply	
(iii). Approximate number of people served by the surface water:	
(iv). Details/additional information:	
c. Health advisory for consuming fish	No
d. Is surface water within 15 miles of the site is used for recreational or commercial fishing?	Yes
e. Is Surface water within 15 miles of the site provides habitat for sensitive species?	Yes
f. Is the site is a suspected source of surface water contamination?	No
g. Details, description and references:	Pacific Ocean is loacted ~14.5 miles SW

California Site Screening: Arnold Engineering/Universal Molding
Project Data Package

4. Soil

a. Is the site centroid within 400' of soil exposure targets (schools, daycare centers, residences, workplaces)?	Yes
b. Is the site centroid within 200' of soil exposure targets(schools, daycare centers, residences, workplaces)?	Yes
(i). What are the soil exposure targets?	Workplaces
c. Is there an adjacent soil contamination site?	Unknown
(i). What are the key contaminants found in the adjacent sites?	

5. Sensitive Environments

a. Is the site within one-mile of a downgradient surface water body?	Yes
b. Is the site within one-mile of a downgradient wetlands?	No
c. Are any sensitive species known to inhabit the site vicinity?	Yes

6. Nearby Sites

a. Are there RCRA generators with manifest data within one mile of the site that may have potential key contaminants in common with the site?	Yes
(i). What are the suspected key contaminants?	Trichloroethylene (TCE) Tetrachloroethylene (PCE) 1,1-DCE
b. Are there DTSC cleanup sites within one mile of the site?	Yes
c. Are there active RWQCB sites within one mile of the site?	Yes
d. Are there active USEPA Non-NPL sites within one mile of the site?	Yes
e. Are there active USEPA Superfund Cleanup sites within one mile of the site?	No

7. Analysis

The site lies within SPGIT area 131, areas 73 and 184 are located adjacent to the east and southwest respectively. Reported site related constituents of concern include VOCs (PCE, TCE, 1,1-DCE and 1,1,1-TCA). Available information indicates groundwater flow direction in the vicinity is generally westerly with variation to the northwest and southwest. Approximately 55 existing drinking water wells are located within 4 miles of the site with a mix of active raw, treated and standby designations. An additional 24 wells have been destroyed for unknown reasons. The DPH well histograms provided are for a well located approximately 2,822 feet east/northeast of the property displaying PCE and TCE impacts. Sensitive species located in the vicinity of the site include the Dudleya mulitcaulis. The subject site appears on the HWTS database under the name Arnold Magnetics and Electronics as well as Universal Molding, International Window, Eld En Collections and Red Eagle Properties and records of California and RCRA waste generation are included. The site is part of the existing Fullerton Business Park however, based upon aerial photos, the current operations at the site are unclear.

California Site Screening: Arnold Engineering/Universal Molding

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References

Last Site Assessment Document Date and 9100-3 Decision Document

Last EPA Assessment Type:

Year Completed:

Relevant Well(s) Histogram

Histogram Link:

Envirostor Site Summary

Envirostor Summary Link:

Last DTSC Action/Order: None

Year Completed: N/A

Action/Order Link: https://www.envirostor.dtsc.ca.gov/public/profile_report.asp?global_id=60002048

Geotracker Site Documents

Geotracker Link: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=SLT8R2213999

Last RWQCB Action: Case closure letter from Orange Co Health Care Agency

Year Completed: 12/15/1995

Correspondence and contact reports pertaining to decision

Correspondence Documents:

California Site Screening: Arnold Engineering/Universal Molding

Site Reconnaissance

Method of Site Reconnaissance:	Records Review
Adjacent Properties:	
North:	Warehouses
East:	Warehouse
South:	Office building/Orangethorpe Avenue
West:	Parking lot
Structures Onsite (e.g. office building, paint booth, repair shop, etc.):	Office building/warehouse
Site Surface Description (e.g., visual staining, cracked pavement, etc.):	paved with concrete/asphalt
Materials Stored:	Site visit was not performed since owner did not respond to DTSC calls/requests.
Materials in Use:	Site visit was not performed since owner did not respond to DTSC calls/requests.
Waste Storage and Potential Hazardous Materials (Specify numbers, volume, and content):	Site visit was not performed since owner did not respond to DTSC calls/requests.
Drums:	Site visit was not performed since owner did not respond to DTSC calls/requests.
Aboveground Storage Tanks:	Site visit was not performed since owner did not respond to DTSC calls/requests.
Underground Storage Tanks:	Site visit was not performed since owner did not respond to DTSC calls/requests.
Clarifiers:	Site visit was not performed since owner did not respond to DTSC calls/requests.
Transformers Potentially Containing PCBs:	Site visit was not performed since owner did not respond to DTSC calls/requests.
Other:	
Site Reconnaissance Report Attachments:	Photo_looking_south.pdf
Site Screening Contact Report Attachments:	Contact_logs.pdf

California Site Screening: Arnold Engineering/Universal Molding Project Triage Recommendations and EPA Decision

SEMS Site Name: **Arnold Engineering/Universal Molding**

CERCLIS ID: **CAN000900306**

City: **Fullerton**

2.0 Part B: Triage Recommendation - Staff

Initial Triage Recommendation (DTSC):

The former Arnold Engineering site ("the Site") occupies approximately 4.6 acres and is located in a commercial/industrial area at 1551 East Orangethorpe Avenue in Fullerton, California. The Site is currently known as "Fullerton Business Park." At present, it contains office buildings/warehouse and is occupied by multiple tenants including Universal Molding and International Window Corporation. Universal Molding Company acquired the Site in 2007 from Alan Needle Trust. Universal Molding Company specializes in aluminum extrusion, metal and roll forming operations. Red Eagle Properties sold the Site to Alan Needle Trust in 1995. McLachlan Investment Company acquired the Site from Arnold Engineering in 1984. Arnold Engineering manufactured and supplied aerospace structures to the commercial and military aerospace industry. According to hazardous waste manifest records, Arnold Engineering continued to operate at the Site until 1993.

In 1992, the Site owner notified the Orange County Health Care Agency (OCHCA) that a tenant had abandoned their location at the Site and waste material including paints, solvents, and acids were improperly stored. Approximately 100,000 gallons of non-hazardous standing water was present at the Site and was discharged appropriately. The resulting potentially hazardous materials were placed in empty drums for testing and appropriate disposal.

The OCHCA is the lead agency. In 1994, clarifiers located on the southeast side of the warehouse in the northeast portion of the Site were removed. The sampling conducted after the removal of clarifiers indicated that soil had been impacted with tetrachloroethylene (PCE) and hydrocarbons. Under the oversight of OCHCA, a soil vapor extraction (SVE) system intermittently operated from 1995 to 2011. After numerous sampling events in 2005, 2007, 2009, and 2010, to evaluate the effectiveness of the SVE system, PCE and trichloroethene (TCE) continued to show detections in soil gas. The SVE system continued to operate at the northern part of the Site in 2011. A subsequent round of soil vapor verification sampling on 2011 showed significant decline of PCE, TCE, and 1,1-dichloroethene (1,1-DCE) in soil gas. The highest PCE, TCE, and 1,1-DCE concentrations in 2011 were 206 ug/l, 14.6 ug/l, and 12.8 ug/l respectively. The industrial screening values for TCE and PCE in soil gas are 0.48 ug/l and 2.08 ug/l, respectively. At this time, no work is being conducted at the Site because of a lawsuit between owner and their contractor.

Review of the Hazardous Waste Tracking System information indicates that the current operator generates hazardous waste including waste oil, organic solids, unspecified solvents, tank bottom, photo-chemical waste, chromium, non-halogenated solvents, corrosive and ignitable waste.

Information from adjacent property indicates groundwater flow direction in the vicinity is generally westerly with variation to the northwest and southwest. Approximately 55 existing drinking water wells are located within 4 miles of the site with a mix of active raw, treated and standby designations. An additional 24 wells have been destroyed for unknown reasons. A drinking water well, located approximately 2,800 feet east/northeast of the Site, shows PCE and TCE contamination. The Site is located within a known groundwater contamination plume and is a suspected source of regional groundwater contamination. The groundwater plume exists both upgradient and downgradient of the Site. The upgradient plume has shown TCE and PCE. The downgradient plume has shown TCE, PCE, 1,1-DCE, and 1,1,1-Trichloroethane. Sensitive species located in the vicinity of the site include the Dudleya multicaulis plant, known by the common name of Manystem Liveforever. Work places are adjacent to the Site and the closest residential neighborhood is approximately 0.50 miles north and south of the Site. The closest sensitive population is an elementary school located approximately 0.7 miles northeast of the Site.

California Site Screening: Arnold Engineering/Universal Molding
Project Triage Recommendations and EPA Decision

Final Triage Recommendation (EPA):

The former Arnold Engineering site ("the Site") occupies approximately 4.6 acres and is located in a commercial/industrial area at 1551 East Orangethorpe Avenue in Fullerton, California. The Site is currently known as "Fullerton Business Park." At present, it contains office buildings/warehouse and is occupied by multiple tenants including Universal Molding and International Window Corporation. Universal Molding Company acquired the Site in 2007 from Alan Needle Trust. Universal Molding Company specializes in aluminum extrusion, metal and roll forming operations. Red Eagle Properties sold the Site to Alan Needle Trust in 1995. McLachlan Investment Company acquired the Site from Arnold Engineering in 1984. Arnold Engineering manufactured and supplied aerospace structures to the commercial and military aerospace industry. According to hazardous waste manifest records, Arnold Engineering continued to operate at the Site until 1993.

Based on the analysis of available information, the Site is eligible for further Federal assessment under CERCLA. OCHCA has been involved in investigation and remediation of the Site and the SVE system; however no work is being performed at this time because of a lawsuit between the owner and their contractor. Groundwater has not been addressed. DTSC recommends that the site remains in EPA's active site universe until the nature of the release or potential release cited in the screening assessment can be confirmed.

EPA agrees with DTSC recommendation and a PA has been started for this site.

California Site Screening: Arnold Engineering/Universal Molding
Project Triage Recommendations and EPA Decision

3.0 Part C: EPA Decision

Final Non-NPL Status: PA Start Needed

Date of Final Triage Decision: 05/26/2015

EPA Site Assessment Manager Concurrence

EPA Site Assessment Manager Date 05/26/2015

Electronically Signed by Kim Hoang

Reference:
DWR, 2004

Coastal Plain of Orange County Groundwater Basin

- Groundwater Basin Number: 8-1
- County: Orange
- Surface Area: 224,000 acres (350 square miles)

Basin Boundaries and Hydrology

The Coastal Plain of Orange County Groundwater Basin (Orange County Basin) underlies a coastal alluvial plain in the northwestern portion of Orange County. The basin is bounded by consolidated rocks exposed on the north in the Puente and Chino Hills, on the east in the Santa Ana Mountains, and on the south in the San Joaquin Hills. The basin is bounded by the Pacific Ocean on the southwest and by a low topographic divide approximated by the Orange County - Los Angeles County line on the northwest. The basin underlies the lower Santa Ana River watershed.

Hydrogeologic Information

Water Bearing Formations

The Orange County Basin is dominated by a deep structural depression containing a thick accumulation of fresh water-bearing interbedded marine and continental sand, silt and clay deposits (DWR 1967). The proportion of fine material generally increases toward the coast, dividing the basin into forebay and pressure areas (DWR 1967; OCWD 1999b). Consequently, most surface waters recharge through the coarser, more interconnected and permeable forebay deposits. Strata in this basin are faulted and folded, and may show rapid changes in grain size. The Newport-Inglewood fault zone parallels the coastline and generally forms a barrier to groundwater flow. Erosional channels filled with permeable alluvium break this barrier at the Alamitos and Talbert Gaps, providing an opportunity for saline water to flow inland.

The sediments containing easily recoverable fresh water extend to about 2,000 feet in depth (OCWD 1999b). Although water-bearing aquifers exist below that level, water quality and pumping lift make these materials economically unviable at present (OCWD 1999b). Upper, middle and lower aquifer systems are recognized in the basin. Well yields range from 500 to 4,500 gallons per minute, but are generally 2,000 to 3,000 gallons per minute.

Upper Aquifer System. This system includes Holocene alluvium, older alluvium, stream terraces, and the upper Pleistocene deposits represented by the La Habra Formation. It has an average thickness of about 800 feet and consists mostly of sand, gravel, and conglomerate with some silt and clay beds. Generally, the upper aquifer system contains a lower percentage of water-bearing strata in the northwest and coastal portions of the area where clays and clayey silts dominate. Accordingly, recharge from the surface to the groundwater basin may be minor in these areas. Recharge to the upper aquifer system occurs primarily in the northeastern portions of the basin (DWR 1967). The upper aquifer provides most of the irrigation water for the basin (Sharp 2000; OCWD 1999a,b).

Middle Aquifer System. This system includes the lower Pleistocene Coyote Hills and San Pedro Formations which have an average thickness of 1,600 feet and are composed of sand, gravel, and minor amounts of clay. The primary recharge of the middle aquifer system is derived from the Santa Ana River channel in the northeast near the town of Olive (DWR 1967). The middle aquifer system provides 90 to 95 percent of the groundwater for the basin (Sharp 2000; OCWD 1999a,b).

Lower Aquifer System. This system includes the Upper Fernando Group of upper Pliocene age and is composed of sand and conglomerate 350 to 500 feet thick. Electric logs of this aquifer indicate that it would probably yield large quantities of fresh water to wells (DWR 1967), but it is not utilized for groundwater production at present (Sharp 2000).

Restrictive Structures

There are three fault zones within this basin that impede groundwater flow (DWR 1967). The most prominent is the Newport-Inglewood fault zone, which trends northwest and is responsible for formation of the Newport-Inglewood uplift. This fault zone forms a barrier to groundwater flow to the southwest and marks the southwest edge of the thick aquifer materials important for groundwater production in the basin (DWR 1967). This barrier is breached by erosional channels filled with alluvium at the Alamitos and Talbert Gaps. Another northwest-trending system is the Whittier fault zone which forms the northeastern boundary of the basin along the Puente Hills. This fault forms a groundwater barrier except where it is breached by recent alluvial channels (DWR 1967). The Norwalk fault trends eastward along the southern edge of the Coyote Hills and is responsible for a lower groundwater level to the south (DWR 1967).

Recharge Areas

Recharge to the basin is derived from percolation of Santa Ana River flow, infiltration of precipitation, and injection into wells. The Santa Ana River flow contains natural flow, reclaimed water, and imported water that is spread in the basin forebay (OCWD 1999a,b). Historical groundwater flow was generally toward the ocean in the southwest, but modern pumping has caused water levels to drop below sea level inland of the Newport-Inglewood fault zone. This trough-shaped depression encourages sea water to migrate inland, contaminating the groundwater supply. Strategic lines of wells in the Alamitos and Talbert Gaps inject imported and reclaimed water to create a mound of water seaward of the pumping trough to protect the basin from seawater intrusion (OCWD 1999a,b).

Groundwater Level Trends

Groundwater levels are generally lower than the level in 1969, when the basin is considered to have been full (OCWD 1999a,b). The level in the forebay has generally stabilized, whereas the southern coastal area has declined steadily through time (OCWD 1999a,b). Since 1990, the magnitude of yearly groundwater level fluctuation has approximately doubled near the coast because of seasonal water demand and short-term storage programs, but has stayed the same in the forebay (OCWD 1999a). Average groundwater levels for the Orange County Basin have risen about 15 feet

since 1990, with average levels in the forebay area rising about 30 feet and average levels in the coastal area dropping a few feet (OCWD 1999a).

Groundwater Storage

Groundwater Storage Capacity. The total capacity of the Orange County Basin is 38,000,000 AF (DWR 1967).

Groundwater in Storage. As of 1998 storage of fresh water within the basin amounted to 37,700,000 AF (OCWD 2000).

Groundwater Budget (Type A)

Orange County Water District manages this groundwater basin using a detailed model of the basin to determine potential effects of changes in pumping and recharge. The district strives to meet its water supply demand with about 75 percent groundwater (OCWD 1999b). The district operates the basin to maintain about 200,000 af of dry storage, though this fluctuates because of seasonal patterns in recharge and pumping. Average dry storage remained fairly steady during 1995 through 1998 (OCWD 1999b), but increased to more than 400,000 af by September 2002 (OCWD 2002) because of a cycle of less rainfall in the region.
Orange County Water District (2000) reports a basin inflow of 258,413 af and an outflow of 342,823 af for the 1998-1999 water year. The inflow includes natural recharge (29,434 af), artificial recharge (222,755 af), and return of applied water (6,224 af). The outflow includes non-irrigation extraction (334,136 af) and irrigation extraction (8,687 af).

Groundwater Quality

Characterization. Water within the basin is primarily sodium-calcium bicarbonate (DWR 1967). Total dissolved solids range from 232 - 661 mg/L and average 475 mg/L (OCWD 2000). The average TDS content of 240 public supply wells is 507 mg/l with a range of 196 – 1,470 mg/l.

Impairments. Sea water intrusion near the coast (DWR 1967; OCWD 1999b). Colored water, from natural organic materials in the lower aquifer system (OCWD 1999b). Increasing salinity, high nitrates and MTBE (OCWD 1999b).

Water Quality in Public Supply Wells

Constituent Group[1]	Number of wells sampled[2]	Number of wells with a concentration above an MCL[3]
Inorganics – Primary	249	1
Radiological	253	5
Nitrates	267	15
Pesticides	268	0
VOCs and SVOCs	268	7
Inorganics – Secondary	249	21

[1] A description of each member in the constituent groups and a generalized discussion of the relevance of these groups are included in *California's Groundwater – Bulletin 118* by DWR (2003).

[2] Represents distinct number of wells sampled as required under DHS Title 22 program from 1994 through 2000.
[3] Each well reported with a concentration above an MCL was confirmed with a second detection above an MCL. This information is intended as an indicator of the types of activities that cause contamination in a given basin. It represents the water quality at the sample location. It does not indicate the water quality delivered to the consumer. More detailed drinking water quality information can be obtained from the local water purveyor and its annual Consumer Confidence Report.

Well Characteristics

	Well yields (gal/min)	
Municipal/Irrigation	4 – 6,000; Average 2,020 gal/min	286 Well Completion Reports.
	Total depths (ft)	
Domestic	26-1,210; Average 270 ft	270 Well Completion Reports
Municipal/Irrigation	7-1,650; Average 540 ft	540 Well Completion Reports

Active Monitoring Data

Agency	**Parameter**	**Number of wells /measurement frequency**
OCWD	Water level	521 wells measured annually (Hintlian 2000).
OCWD	Water quality	411 wells measured 2-20 times/yr (Hintlian 2000).
Department of Health Services and cooperators	Title 22 water quality	240

Basin Management

Groundwater management:	Orange County Water District manages groundwater in the basin by authority granted to it in the California Water Code Appendix Chapter 40
Water agencies	
Public	City of Anaheim, City of Buena Park, East Orange CWD, City of Fountain Valley, City of Fullerton, City of Garden Grove, City of Huntington Beach, Irvine Ranch WD, City of La Palma, Mesa Consolidated WD, City of Newport Beach, City of Orange, Orange CWD, City of Santa Ana, City of Seal Beach, Serrano WD, City of Tustin, City of Westminster, Yorba Linda WD.
Private	Diamond Park MWC, Eastside Water Association, Harding Water, Liberty Park Water Association, Midway City MWC, McKesson Water Products, Oasis Drinking Waters, Page Avenue MWC, South Midway City WC, Southern California WC, Sparkletts Drinking Water Corporation, Woodbridge Village Homeowners Association.

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_____. 2002. Orange County Groundwater Basin Overdrafted Due to Increased Production and Recent Dry Years. OCWD Press Release, September 23, 2002. http://www.ocwd.com/_html/_pr/_pr02/pr02_0923_overdraft.htm.

Sharp, Gwen. 2000. Orange County Water District. Written communication to Nuna Tersibashian. July 21, 2000.

Errata

Substantive changes made to the basin description will be noted here.

Reference:
EEC, 2006

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PHASE I ENVIRONMENTAL SITE ASSESSMENT

at

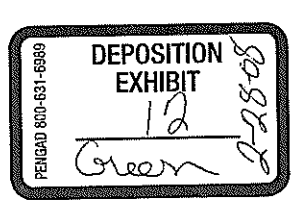
Elden Collections
1551 East Orangethorpe Avenue
Fullerton, California

EEC Job No. S1700.01

March 22, 2006

For:

U.S. Bancorp
633 West Fifth Street, 29th Floor
Los Angeles, California 90071



By

Stephanie Tanguilig
Staff Engineer

Mark Zeko
Principal Hydrogeologist

EXECUTIVE SUMMARY

Environmental Engineering & Contracting, Inc. (EEC) has performed this Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Practice E 1527-00 and EEC's Standard Limitations for the Subject Property identified as Elden Collections, 1551 East Orangethorpe Avenue, Fullerton, California.

The pertinent information gathered during this investigation is summarized below:

- The Subject Property is located approximately 700 feet west of the intersection of South Acacia and East Orangethorpe Avenue. The Subject Property, constructed in the late 1950s or early 1960s, is developed with a 108,000 square foot (ft^2), single story manufacturing/warehouse building with associated office space. The remainder of the Subject Property consists of asphalt-paved driveways and parking areas. Professionally landscaped areas are generally located along the site perimeter and throughout the parking areas.

- The Subject Property is currently occupied by Elden Collections, a furniture manufacturer. Elden onsite operations consist of construction, painting, and staining furniture. According to Ms. Jo Elliott (site contact and Elden employee), business activities of Elden Collections has been reduced by 75% and Elden Collections is in the planning to move to an undetermined location.

- Based on a review of available historical sources, it appears that the Subject Property was undeveloped or orchard lands from at least 1898 through the 1950s. The present day warehouse building was developed in the late 1950s. The site has been occupied by several industrial manufacturers over the years.

- The Subject Property is currently owned by Elden Collections, a furniture manufacturer. Elden's onsite operations have been recently reduced by 75%, and they are planning moving from this facility in the near future. Elden purchased the Subject Property from Red Eagle Properties in 1995. Red Eagle in turn bought the Subject Property from Resolution Trust Corporation (RTC) in May of 1994. The EDR city directory lists the Subject Property as Eye Encounter in 1991, however no additional information was found to confirm this business being present at the Subject Property. In the early 1990, Woodmill Products (Woodmill) leased the property. Woodmill manufactured picture frames and performed silk screening. From 1960 to 1985 the site was occupied by Arnold Engineering Company (Arnold). Arnold provided stamping and milling services to the electronics industry. Arnold used the following chemical onsite: ferric chloride, trichloroethane III, Chem-Strip 31817, and magnesium methylate. Several metals including low-nickel, silicon steel, nickel and iron alloys, copper, and stainless steel were used at the Subject Property. Prior to 1960, the site was occupied by Ensign Carburetor Company/Butane and Propane Equipment Manufacturing.

- In September 1994 two clarifiers were removed from the site. During the removal of the clarifiers soil contamination was encountered. Subsequent site investigations identified the presence of hydrocarbon and chlorinated solvent compounds in the subsurface. Soil vapor extraction was initiated in 1994 to remediate the site. In 1995, the Orange County Health Care Agency (OCHCA) concluded that the site had been sufficiently remediated and granted site closure. Soil borings drilled at the conclusion of the remediation indicate that residual VOCs remained in the soil beneath the site. These VOCs included TCE at a concentration of 180 parts per million (ppm) at 105 feet bgs, just above the groundwater level. Records reviewed by EEC indicate that although site closure had been granted by the OCHCA, the RWQCB initially felt that additional assessment was required. The RWQCB later rescinded that recommendation when the current property owner explained that any contamination at the site was from a previous tenant. No groundwater samples have been collected beneath the site, even though VOC impacted soil extends very close to the regional groundwater level.

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- The site is located within an area that is underlain by an extensive regional VOC plume in groundwater. This VOC plume has been the subject of intensive investigation and remediation. The primary investigative agency has been the Orange County Water District (OCWD), the purveyor of domestic water in Orange County. Through several investigations, the OCWD identified several Potentially Responsible Parties (PRP's) that they suspect may have contributed to the VOC plume. The Fullerton Business Park was one of the PRPs identified. The OCWD has reportedly filed a lawsuit naming the identified PRPs as defendants, apparently in an attempt to develop funding to assist in the remediation of the regional groundwater plume.

- Groundwater is located approximately 110 feet below ground surface (bgs) and flows to the west-southwest.

- The Subject Property is listed on several government databases that indicate that the site formerly contained a clarifier. EEC could not find any evidence that USTs were ever located onsite; therefore, it is likely that this reference refers to the previously removed clarifiers. These databases also list the site as being monitored for emission releases and as a hazardous waste generator.

- The following observations were made during EEC's site reconnaissance:

  - No visual evidence indicating the present use of USTs containing hydrocarbon products, such as vent pipes, manhole covers, or concrete cuts was identified at the Subject Property.

  - No visual evidence of past or present aboveground storage tanks (ASTs) was observed at the Subject Property.

  - Hazardous materials or hazardous waste including paints, lacquers, and stains are currently stored or used at the Subject Property. These materials appear to stored properly at the Subject Property.

  - Minor staining was noted in the asphalt-paved parking lot; however, this staining appears to represent de-minimus risk to the environment.

- The results of the EDR radius search did not identify any sites in the vicinity of the Subject Property that would be a potential environmental concern.

- Several Air Quality Management District (AQMD) Voilation were found related to the Subject Porperty. These violations do not appear to pose any environmental threat to the Subject Property.

- On April 10, 1992, Converse Environmental performed an asbestos inspection survey at 1501 -1561 East Orangethrope Avenue, Fullerton, California. Both friable and nonfriable asbestos was detected at the Subject Property.

Two Recognized Environmental Conditions (RECs) were determined to be associated with the Subject Property. The term "recognized environmental condition" is defined by ASTM as the "presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property."

- Without further information that excludes the Subject Property, the pending lawsuit with the OCWD is considered a REC at the Subject Property. This lawsuit is due to the fact that both soil and groundwater beneath the site are known to be impacted by VOCs. If discharges from the Subject

Property are tied to the regional VOC plume it is possible that a new property owner could become liable for a costly remediation. EEC recommends consulting with an environmental attorney to assess how this risk could be mitigated.

- Residual concentrations of VOCs remain in soil beneath the site and extend to near the groundwater surface (110 feet bgs). Additionally, subsurface investigations conducted at the site appear to have been intentionally stopped short of collecting groundwater samples. Correspondences with the RWQCB indicate that the decision not to pursue assessment of groundwater was not for technical reasons, but was instead due to the fact that the current owner was not the source of the impact. Therefore, EEC believes that the site assessment activities have not fully characterized the extent of the impact, and that the site may have been prematurely closed. If the former property owner or tenant responsible for the release of VOCs cannot be identified or does not have sufficient monetary resources, the current property owner could be held liable for future investigative or remediation efforts.

One Historic Recognized Environmental Condition (HREC) was determined to be associated with the Subject Property. The term "historic recognized environmental condition" is defined in ASTM Practice E 1527-00 as "conditions which in the past would have been considered a REC, but which may or may not be considered a REC currently."

In September 1994 two clarifiers were removed from the Subject Site. Soil contamination was encountered beneath the clarifiers and continues to be a potential issue at the site, as described in the REC, above.

Environmental Engineering & Contracting, Inc. (EEC) has performed this Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Practice E 1527-00 and EEC's Standard Limitations for the Subject Property identified as Elden Collections, 1551 East Orangethorpe Avenue, Fullerton, California.

Based on the observations and records reviewed during this Phase I ESA, EEC believes that historic onsite activities have adversely affected the subsurface soil and groundwater at the Subject Property. Additionally, the Subject Property is currently being named in a lawsuit with the OCWD, therefore, the property owner and lender must determine how this lawsuit could potentially impact each party. EEC recommends that legal council review any sales agreement prior to completing the site purchase.

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REPORT
PHASE I ENVIRONMENTAL SITE ASSESSMENT
Elden Collections
1551 East Orangethorpe Avenue
Fullerton, California

1.0 INTRODUCTION

This report presents the results of a Phase I Environmental Site Assessment (ESA) performed by Environmental Engineering & Contracting, Inc. (EEC), on behalf of U.S. Bancorp (US Bank), at 1551 East Orangethorpe Avenue, Fullerton, California (Subject Property). The Subject Property is developed with a 108,000 square foot (ft^2) single story warehouse building, located approximately 700 feet west of the intersection of South Acacia and East Orangethorpe Avenue (Figure 1). The site vicinity contains a mix of commercial and industrial properties.

2.0 PURPOSE AND SCOPE OF SERVICES

The purpose of this ESA is to review past and present land use practices, site operations, and applicable regulatory permits, to evaluate the potential presence of hazardous substances at the Subject Property and to satisfy one of the requirements to qualify for the "innocent landowner defense" as set forth by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

This ESA was performed in accordance with the guidelines set forth by the ASTM document E 1527-00, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.* The ESA included a site reconnaissance, drive-by survey of the site vicinity, and a review of available documentation to assess the presence and/or potential threat of recognized environmental conditions. The term "recognized environmental condition" is defined by ASTM as the "presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property."

2.1 Limitations

The conclusions presented in this report are professional opinions based solely upon visual observations of the site and vicinity and our interpretation of the available historical information and documents reviewed, as described in this report. They are intended exclusively for the purpose outlined herein and at the site location and project indicated. The opinions and recommendations presented herein apply to past and present site conditions and are not applicable to future conditions or events.

In accordance with ASTM E 1527-00, Section 7.3 Historical Use Information, all obvious uses of the property shall be identified from the present, back to the property's first obvious developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the historical sources as are necessary and both reasonably ascertainable and likely to be useful. Historical sources could potentially include aerial photographs, fire insurance maps, property tax files, recorded land title records, 7.5 minute topographic maps,

local city directories, a title search, building department records, and zoning and land use records. EEC did not conduct reviews of the property tax files in this ESA because this information typically provides only information related to ownership of the property and not the actual use of the Subject Property.

This ESA did not include an evaluation for the potential presence of lead based paint, lead in drinking water, asbestos containing materials, or radon gas at the Subject Property. EEC's Standard Limitations can be found in Appendix A.

3.0 SITE DESCRIPTION

3.1 Site Description

The Subject Property is located approximately 700 feet west of the intersection of South Acacia and East Orangethorpe Avenue in Fullerton, California. The Subject Property is developed with a 108,000-ft^2, single story manufacturing/warehouse building with associated office space constructed in the late 1950s. The remainder of the Subject Property consists of asphalt-paved driveways and parking areas. Professionally landscaped areas are generally located along the site perimeter and throughout the parking areas.

The Subject Property is currently occupied by Elden Collections (Elden), a furniture manufacturer. Elden onsite operations consist of construction, painting, and staining furniture. According to Ms. Jo Elliott (site contact and Elden employee), business activities of Elden Collections has been reduced by 75% and Elden Collections is in the planning to move to an undetermined location.

3.2 Physiography

The most recent topographic map coverage of the site vicinity is provided by the USGS 7.5 minute, Anaheim, California quadrangle map, dated 1978 and photo revised in 1981 (Figure 1). According to the USGS topographic map, the Subject Property is located at an elevation of approximately 177 feet above mean sea level. In the site vicinity, topography slopes gently to the south-southwest. The Santa Ana River is located 2.75 miles to the southeast.

3.3 Geologic and Hydrogeologic Setting

3.3.1 Site Geology

The Subject Property is located within the Peninsular Ranges Geomorphic Province. The Peninsular Range is dominated by northwest-southeast trending blocks separated by similar trending strike-slip faults. The Los Angeles Basin is approximately 50 miles long and 20 miles wide and is located within the Peninsular Range Province. The Basin contains approximately 14,000 feet of marine and continental rocks of Miocene to early Pleistocene age. These rocks are overlain by unconsolidated and semi-consolidated Quaternary marine and continental sediments.

Based on EEC's experience at a nearby site, the site geology in the upper 200 feet is comprised of unconsolidated alluvial sediments. In general, above approximately 70-feet bgs, the alluvium is predominately comprised of poorly graded sand with interbedded well graded silty sand. Silts and clayey sands are interbedded with the sand in the upper 20-feet.

Regionally the 70- to 100-foot interval is characterized as an aquitard. However, locally water-bearing zones are present and the shallow wells at the site are screened in these zones. Between approximately 70 feet bgs and 100 feet bgs the formation is comprised of interbedded clay, sandy clay, clayey silts and silty sands.

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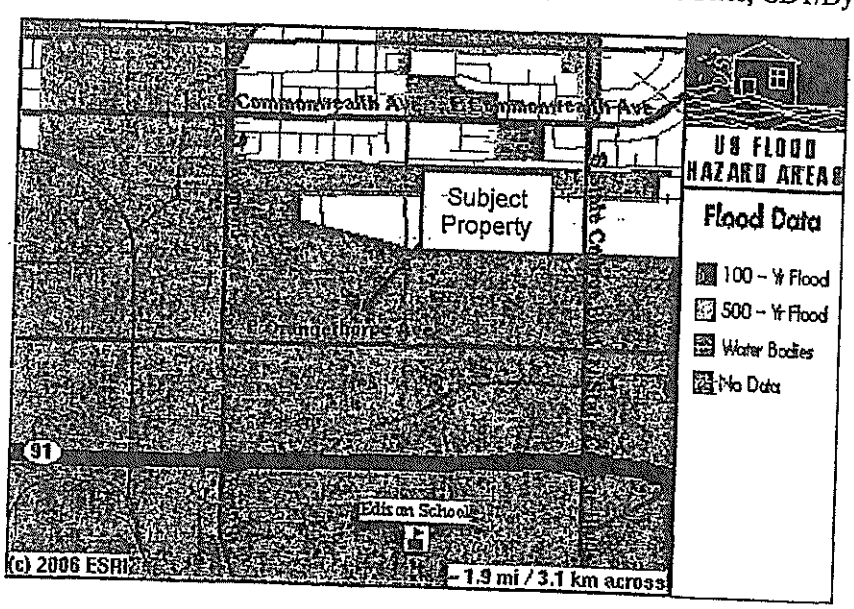
Below approximately 107 to 112 feet bgs the formation is comprised of saturated, poorly to well graded sand, with occasional interbedded gravelly sand. From 107 to 200 feet bgs, the formation consists primarily of poorly graded sand.

3.3.2 Site Hydrogeology

The site is located within the Forebay portion of the Orange County Groundwater Basin. The uppermost regional aquifer beneath the site is termed the Upper Aquifer. Locally, small discontinuous perched groundwater zones are occasionally encountered above the Upper Aquifer. In the vicinity of the site, these perched aquifers contain no significant source of useable groundwater. The groundwater flow in the upper portion of the Upper Aquifer is documented by a network of groundwater monitoring wells maintained and sampled by the OCWD. The upper portion of the Upper Aquifer occurs at 110 to 130 feet bgs. Groundwater flow in the site vicinity is generally to the west-southwest except near the Fullerton Wellfield where groundwater extraction disrupts normal flow patterns.

3.4 Flood Zone

According to information provided on the Federal Emergency Management Agency's (FEMA) website, the Subject Property is located outside the 100 year flood hazard zone (FEMA Flood Insurance Rate Map 0606720313H dated February 18, 2004, Digital Q3 Flood Data Files, GDT/Dynamap/2000 Data Set).



3.5 Site Inspection

On March 1, 2006, EEC conducted a site reconnaissance of the Subject Property and surrounding area to review current site conditions and activities. EEC looked for visible evidence suggesting the possible past use or disposal of hazardous materials at the Subject Property and adjacent properties. The reconnaissance included observations of existing site conditions and a perimeter survey from public-right-of-ways. Photographs of the Subject Property and site vicinity are included in Appendix B.

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3.5.1 Use of Hazardous Substances

Hazardous materials such as paints, stains, lacquers, paint thinners, and acetone were observed throughout the Subject Property. The size of these containers ranged from 12 ounce aerosol cans to 55-gallon drums. Most 5-gallon and 55-gallon containers were stored within the flammable storage room located on the western side of the building. A finishing room, which contained 6 paint booths, is also located on the western side of the building. Several 55-gallon drums and cans of paint, lacquer and stains are stored adjacent to the paint booths. No hazardous waste is reportedly generated at the Subject Property.

3.5.2 Hazardous Substance Containers

Underground Storage Tanks
No visual evidence of past or present underground storage tanks (USTs) was observed at the Subject Property.

Above Ground Storage Tanks
No visual evidence of past or present aboveground storage tanks (ASTs) was observed at the Subject Property.

Clarifiers
No clarifiers were observed at the Subject Property; however, two clarifiers were removed from the Subject Property in 1994. The removal of the two clarifiers is further discussed in Section 3.8.

An oil/water separator was observed connected to the air compressors located outside the western side of the building. Heavy surficial oil staining was noted on the concrete pavement in the vicinity of the oil/water separator and air compressors. The oil/water separator is used to collect oil/water mixed waste from the air compressors. Based on the surficial nature, oil staining is not considered to be of environmental concern to the Subject Property.

Sumps
No visual evidence indicating past or present sumps was identified at the Subject Property.

Paint Booths
Six paint booths were observed at the Subject Property, and appear to be in good condition; however permits for only four paints booths were found at the City of Fullerton.

3.5.3 Waste Management and Disposal

Hazardous Waste Disposal
Hazardous materials or hazardous waste including paints, lacquers, and stains are currently stored or used at the Subject Property. These materials appear to properly stored and maintained.

Non-Hazardous Waste Disposal
General refuse was observed within dumpsters located along the eastern side of the Subject Property. General refuse is removed by contracted waste hauler.

Wastewater Disposal
No wastewater is reportedly generated at the Subject Property.

3.5.4 Stained Soil or Pavement

Heavy surficial oil staining was noted on the concrete pavement in the vicinity of the oil/water separator and air compressors located on the western side of the building. In addition, minor staining was observed in the parking lot at the Subject Property. Based on the surficial nature of the staining and the nature of the source,

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the oil staining observed throughout the Subject Property is not considered to be of environmental concern.

3.5.5 Stressed Vegetation

No areas of dead or dying vegetation indicating the release of hazardous substances was observed at the Subject Property during the site visit.

3.5.6 Polychlorinated Biphenyls

Prior to 1978, polychlorinated biphenyls (PCBs) were commonly used in electrical transformers, hydraulic fluids, and electrical equipment such as fluorescent light ballasts. PCBs are stable compounds that persist in the environment after a spill or improper disposal. They have also been determined to be carcinogenic substances. Due to the demonstrated toxicity and persistence in the environment, PCB manufacturing in the United States was discontinued.

A pad-mounted transformer was observed near the northwest corner of the Subject Property. No significant signs of staining or leakage were noted in the vicinity of the transformer. In the event of a release, any cleanup will be responsibility of Southern California Edison (SCE), the owner and operator of the transformer. As such, this transformer is not considered to be of environmental concern to the Subject Property.

3.5.7 Lead Based Paint

A lead-based paint survey was not conducted as a component of this assessment.

3.5.8 Asbestos

Asbestos is a naturally occurring fibrous mineral that was extensively used in the past for its insulation properties. Asbestos fibers can be found in thermal insulation, fire-proofing material, vinyl floor tiles, mastic, wallboard, ceiling tiles, roofing material and numerous other materials. After asbestos was determined to be carcinogenic, its use was severely restricted in the late 1970's. Building materials are classified as Asbestos-Containing Material (ACM) if they contain greater than 1% asbestos fibers. Such material is considered a hazardous material and must be properly disposed of when removed or managed under an operations and maintenance plan. Definitive conclusion as to the presence or absence of ACMs at the Subject Property cannot be made without obtaining and analyzing samples of representative or suspect building materials for the presence of asbestos.

On April 10, 1992, Converse Environmental performed an asbestos inspection survey at 1501 - 1561 East Orangethrope Avenue, Fullerton, California. Both friable and nonfriable asbestos was detected at the Subject Property. A complete copy of the report is presented in Appendix C.

3.5.9 Radon

Radon is an odorless, radioactive gas that occurs naturally in soil, rock, and building materials. It results from the natural radioactive decay of radium and uranium. In outdoor air, radon is generally diluted to such low concentrations that it is usually not of concern. In enclosed spaces such as homes, offices, and basements, radon can accumulate and pose an environmental concern. Indoor levels of radon depend on a building's construction and the concentration of radon in the underlying soil and rock.

The Subject Property is located within Orange County, California, which has been designated by the U.S. Environmental Protection Agency (EPA) as Radon Zone 3. Zone 3 is designated as having an indoor average level of less than 2 picocuries per liter (pCi/L). The EPA has set a standard of 4.0 pCi/l as the concentration of

radon at which corrective action is recommended. Based on the location of the Subject Property, elevated levels of radon are not expected to be of concern.

3.5.10 Wells

The EDR Report indicates that no groundwater production wells are located within 1/4 mile of the Subject Property. However, based on maps of the VOC plume, a groundwater monitoring well appears to have been installed within the business park between 2000 and 2004. This well contains elevated concentrations of VOCs. Additionally, several groundwater monitoring wells are located adjacent and in the vicinity of the Subject Property. These monitoring wells also contain elevated concentrations of VOCs..

3.6 Surrounding Land Uses

A visual examination of the surrounding area was conducted in conjunction with the site inspection. Observations of surrounding properties were limited to accessible public areas and areas that could be readily observed from the Subject Property.

The following businesses are found in the direct vicinity of the Subject Property:

North: **Johnson Controls Inc. Globe Battery Div.**
1550 Kimberly Ave

West and southwest (multi-tenant buildings):
Grinnell Fire Protection
1521 E Orangethorpe Ave
Lucent Technologies
1521 E Orangethorpe Ave
Seekers Chapel
1521 E Orangethorpe Ave
QCM Incorporated
1521 E Orangethorpe Ave
Intsys Corporation
1521 E Orangethorpe Ave, Ste 3665
Imaje Ink Jet Printing Corporation
1521 E Orangethorpe Ave, # 65
Automatic Sprinkler Corporation
1521 E Orangethorpe Ave, Ste 3093
Henry Brother Electronics Incorporated
1511 E Orangethorpe Ave
Poly Mark
1511 E Orangethorpe Ave
U S Tech Recreational Products
1511 E Orangethorpe Ave, # 8009
Mba Graphics
1511 E Orangethorpe Ave
Paper Solutions Ink
1511 E Orangethorpe Ave

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South: **The Lion Company**
1561 E Orangethorpe Ave, # 100O
Trans Union LLC
1561 E Orangethorpe Ave
Sierra Cybernetics
1561 E Orangethorpe Ave

East: unidentified commercial/industrial building. (the 1996 ESA Update report lists this building as Jonathan Manufacturing).

3.7 Interviews

A questionnaire was given to Ms. Jo Elliott, of Elden Collections, as part of this Phase I ESA. Ms. Elloitt had no knowledge of environmental issues at the Subject Property. Ms. Elliott assured EEC she would give the questionnaire to Mr. Needles, the property owner, to complete. A copy of the questionnaire will be included as Appendix D of this report, once it has been received.

Mr. Pravin Mody of GBS Linen, the potential buyer was also interviewed by EEC. Mr. Mody had knowledge of the environmental activities that had been performed at the Subject Property. Mr. Mody gave EEC copies of the pertinent reports for the Subject Property.

3.8 Previous Environmental Reports

The follow section provides a brief description of previous environmental reports prepared for the Subject Property. The report summaries were originally prepared by Bryant Geoenvironmental Services in a Phase I ESA Update, dated August 12, 1996 and have been updated by EEC for this report. All previous reports are included in Appendix E.

A Phase I ESA and a Comprehensive Asbestos Survey were performed by BEM Systems, Inc. (BEM) for AMRESCO, Inc. in 1992. The property assessed by BEM was identified as Fullerton Business Park North at 1501-1561 East Orangethorpe Avenue in Fullerton, which included the Subject Property, however the Subject Property was excluded from the asbestos survey. Converse Environmental West (Converse) also conducted a Phase I ESA of this business park in 1992 for Asset Management Resolution Company. Numerous other reports were prepared by Converse, including an Update to the Phase I ESA in 1994, that included several site characterization reports, and a Soil Remediation Closure Report dated December 12, 1995. Information previously gathered by BEM and Converse regarding prior ownership or historical use of the Property was judged to be adequate for the Phase I updated conducted in 1994.

The BEM Phase I ESA conducted in 1992 indicates that the Subject Property was not a listed/regulated facility. However, the most recent tenant at the time of the ESA, (Woodmill Products, Inc.) occupying "Building 1551" was reportedly a wood finisher, and used paint, wood finish, thinners, and solvents. Previous users included a manufacturer of butane and propane equipment, and a stamper and miller of electronics equipment. As noted by BEM and Converse, a "pit" and a "clarifier" were identified near this building. Various containers of paints, lacquers, lube oil, and thinners were discovered at this facility by BEM and Converse, as well as numerous empty 55-gallon drums. Although some damaged asphalt was found next to the clarifier, no obvious stained areas or evidence of past spillage were reported by the consultants. However, Converse reported that a "spill of a sludge containing iron, nickel, and copper" occurred at the Woodmill facility in 1985. Cleanup documents were not found by Converse nor by EEC during our review of documents.

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In September 1994, two clarifiers were reportedly removed from the Subject Property. Two soil samples were collected from the bottom of the excavations. One sample revealed 16 parts per million (ppm) Total Recoverable Petroleum Hydrocarbons (TRPH), and the other sample revealed 27,000 parts per billion (ppb) PCE and 3,600 ppm TRPH. Converse drilled one boring and found maximum concentrations of PCE at 38 ppb (30 feet) and of TRPH at 12 ppm (40 feet). The boring was terminated at 40.5 feet. Converse concluded that "it does not appear that serious contamination of the soil from PCE or TRPH exists and they recommended site closure.

Subsequent to the removal of the clarifiers, several additional phases of site investigations were completed by Converse. As summarized by Converse, seven borings were advanced using a Geoprobe in December 1994. Relatively high PCE concentrations (96,000 ppb) were found in one boring near the former clarifier. In January 1995, an additional nine borings were advanced to maximum depths of 40 feet below ground surface (bgs). Significant concentrations of PCE were reportedly encountered to depths of 35 feet. The highest concentrations were found in soil samples from depths of 20 to 30 feet. There was no discussion of other VOCs, which may have been detected.

In March 1995, Converse drilled two more borings (BH-14 and BH-15) to depths of 115 feet. Converse encountered groundwater at about 115 feet below grade in both borings. It was believed that this represents the Talbert Aquifer, a source of production/drinking water for Orange County. A perched zone was encountered at about 60 feet below grade. More importantly, Converse concluded that "groundwater beneath the site has not been impacted by a release of PCE from the former clarifier, and the base of the PCE-impacted soil is defined at about 60 feet below grade". PCE was not detected in samples collected below 65 feet (i.e., 70 to 105 feet). However, there was no discussion regarding other VOCs detected in samples, particularly TCE which was found in samples collected at 105 feet in both borings at concentrations of 180 ppb and 160 ppb. It should be noted that TCE is a degradation product of PCE. Although groundwater was encountered at 110 feet bgs, no groundwater samples were collected.

According to Converse, the Orange County Health Care Agency, expressed concern that the PCE concentrations identified in the subsurface represent a potential "public health excess lifetime cancer risk", based on a simplified vapor diffusion model. As a result of this concern, Converse installed and operated a soil vapor extraction and treatment system (VES), in accordance with an approved OCHCA work plan dated July 26, 1995. This VES was reportedly operated from August 15, 1995 until November 27, 1995. Because of the apparent effectiveness of the VES, it was shut down on November 10, 1995. On November 27, 1995, Converse restarted the system, and collected confirmation VOC measurements. Based on decreasing levels of VOCs detected between November 10 and 27, 1995, Converse stated that it appeared that "the remedial efforts had reduced the identified soil contaminants."

To verify the apparent effectiveness of the VES, Converse advanced three soil probes in the impacted area using a Geoprobe soil sampling rig. The probes were reportedly positioned next to previous borings BH-5, BH-8, and BH-9. Soil samples were collected at 5-foot intervals to the total depths drilled between 25 and 40 feet. PCE concentrations were found in the soil samples ranging from 0.3 to 25.3 ppm (25,300 ppb). Lower concentrations of other VOCs (i.e., TCE) were also reportedly detected between depths of 15 and 30 feet. Converse concluded that "PCE concentrations have been significantly reduced by the remediation system from 84.5 to 0.33 ppm (15 feet bgs), from 96 to 12.8 ppm (20 feet bgs), and from 88 to 13.7 ppm (25 feet bgs). Further, Converse requested that the recent analytical data be evaluated in accordance with the "simplified vapor diffusion model". If the model results were found to be favorable, Converse/Red Eagle Properties would request site closure from OCHCA.

On December 11, 1995, the RWQCB issued a letter to Red Eagle Properties regarding a meeting held on November 1, 1995. As a result of previous investigations, the RWQCB had originally requested that a groundwater investigation be conducted, including the installation of monitoring wells. However, due to the ownership history and the fact that the source of the problem was a previous tenant, not Red Eagle Properties, and due to the remedial efforts implemented by Red Eagle Properties, the RWQCB withdrew its request for a groundwater investigation. Red Eagle Properties and their consultant, Converse, also stated that further groundwater assessment was most likely not required for several reasons. These reasons include: a documented VOC plume upgradient of the site, the depth to groundwater and its potential uses; and the corrective measures already accomplished.

On December 15, 1995, the Orange County Health Care Agency issued a closure letter to Red Eagle Properties (Appendix E). As stated in this closure letter, on-site remedial action was confirmed and "no further action is required at this time". It should be pointed out that this "closure" was based on several factors. For example, the agency issued this closure letter based on an evaluation of the "health threat" and on the current use of the property. Further, this closure letter acknowledged that no groundwater investigation would be required at this time.

On August 12, 1996, Bryant GeoEnvironmental Services issued a Phase I ESA update report for the Subject Property. The report described site conditions and provided a summary of former environmental activities performed at the Subject Property, and concluded that no further action was required at that time.

On September 20, 2000, Geosystem Consultants, Inc. (Geosystems) issued a report tiled "Focused Feasibility Study Report for the Orange County Water District Forebay VOC Project". This report states that a large area in the Anaheim/Fulleton area of Orange County, California has been impacted by VOC compounds, causing several production well, owned by the OCWD to be removed from service. The contamination is believed to have been released from a dozen or more industrial facilities overlying the impacted area. The Subject Property is listed as one of these sites. This report outlines possible remediation methods for the contaminate plume and presents evidence to why the associated industrial site is listed as a potentially responsible parties (PRPs). Pertinent pages from this report, documenting the Subject Property as one of the PRPs, have been included in Appendix F.

3.9 Other Potential Environmental Concerns

The Fullerton Business Park is located within an area that is underlain by an extensive regional VOC plume in groundwater. This VOC plume has been the subject to intensive investigation and remediation. The primary investigative agency has been the Orange County Water District (OCWD), the purveyor of domestic water in Orange County. Through several investigations, the OCWD identified several Potentially Responsible Parties (PRP's) that they suspect may have contributed to the VOC plume. The Fullerton Business Park was one of the PRPs identified. The OCWD has reportedly filed a lawsuit naming the identified PRPs as defendants, apparently in an attempt to develop funding to assist in the remediation of the regional groundwater plume.

4.0 SITE HISTORY

EEC evaluated historic land use through the examination of selected historical aerial photographs, historical topographic maps, fire insurance maps, and city directories. The evaluation of this information is described in the following sections.

The Subject Property is currently owned by Elden Collections, a furniture manufacturer. Elden's onsite operations have been recently reduced by 75%, and they are planning moving from this facility in the near future. Elden purchased the Subject Property from Red Eagle Properties in 1995. Red Eagle in turn bought the Subject Property from Resolution Trust Corporation (RTC) in May of 1994. The EDR city directory lists the Subject Property as Eye Encounter in 1991, however no additional information was found to confirm this business being present at the Subject Property. In the early 1990, Woodmill Products (Woodmill) leased the property. Woodmill manufactured picture frames and performed silk screening. From 1960 to 1985 the site was occupied by Arnold Engineering Company (Arnold). Arnold provided stamping and milling services to the electronics industry. Arnold used the following chemical onsite: ferric chloride, trichloroethane III, Chem-Strip 31817, and magnesium methylate. Several metals including low-nickel, silicon steel, nickel and iron alloys, copper, and stainless steel were used at the Subject Property. Prior to 1960, the site was occupied by Ensign Carburetor Company/Butane and Propane Equipment Manufacturing.

4.1 Aerial Photographs

The general type of activity and land use can often be discerned from the type and layout of structures visible in an aerial photograph; however, specific elements of a site operation cannot normally be determined from the photographs. With this in mind, EEC reviewed aerial photographs provided by EDR. EDR provided photographs for the years 1927, 1938, 1947, 1953, 1968, 1976, 1990, 1995, and 2002. The following is a summary of information pertaining to the Subject Property and vicinity ascertained from the reviewed aerial photographs. Copies of the aerial photographs are presented in Appendix G.

Year	Site	Site Vicinity
1927	Developed with orchards	Developed with orchards and associated residential structures. Major surface streets are present.
1938	Developed with orchards	Developed with orchards and associated residential structures. Major surface streets are present.
1947	Developed with orchards	Developed with orchards and associated residential structures. Major surface streets are present.
1953	Developed with orchards	Developed with orchards and associated residential structures. Major surface streets are present.
1968	Developed with an industrial structure which is the present day site configuration.	Developed with industrial properties and orchards. The 91 freeway is present to the south of the site.
1976	Developed with an industrial structure which is the present day site configuration.	Developed with industrial properties and orchards.
1990	Developed with a industrial structure which is the present day site configuration	Developed with industrial properties, orchards are no longer present in the site vicinity.

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Year	Site	Site Vicinity
1995	Developed with a industrial structure which is the present day site configuration	No significant changes.
2002	Developed with a industrial structure which is the present day site configuration	No significant changes.

No potential environmental concerns associated with the historical use of the Subject Property were observed during the review of aerial photographs.

4.2 Topographic Maps

The general type of activity and land use can often be discerned from the type and layout of structures visible on a historic topographic map. Specific elements of a site operation cannot normally be determined from the map. EEC reviewed historic USGS topographic maps for information regarding past uses of the Subject Property for the years of 1898, 1902, 1935, 1950, 1965, 1965-1972, and 1965-1981. A summary of information pertaining to the Subject Property and vicinity ascertained from the maps is listed below. Copies of the topographic maps are included in Appendix H.

Year	Map ID	Site	Site Vicinity
1898	Anaheim	Undeveloped	The city of Fullerton has been developed directly west of the Subject Property. The city of Anaheim is developed to the south. Major roads are in place as are the Santa Ana-Southern Pacific and Topeka and Santa Fe Railroad lines railroad.
1902	Corona	Undeveloped	Continued development throughout the area including the cities of Orange, Garden Grove, Tustin, Buena Park, Los Alamitos, La Habra, and Placentia.
1935	Garden Grove	Undeveloped	Continued development.
1950	Anaheim	Undeveloped	Continued development.
1965	Anaheim	Developed with a warehouse building, this is the current site configuration.	The block on which the Subject Property is located has been developed with industrial structures and citrus groves.
1965-1972	Anaheim	Developed with a warehouse building, this is the current site configuration.	Continued industrial development in the site vicinity. Citrus groves are no longer present near the Subject Property.
1965-1981	Anaheim	Developed with a warehouse building, this is the current site configuration.	Continued industrial development in the site vicinity. Several citrus groves are present near the Subject Property.

No potential environmental concerns associated with the historical use of the Subject Property were observed during the review of topographic maps.

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4.3 City Directories

EEC contracted EDR to review city directories for the Subject Property. A summary of information pertaining to the Subject Property is listed below. A copy of the City Directory is included in Appendix I.

Year	Address	Listing	Source
1920 to 1975	1551 East Orangethorpe Avenue	Not Listed	Multiple Sources, see Appendix H
1975	1551 East Orangethorpe Avenue	Arnold Engineering Company, Pacific Division	Luskeys Brothers & Co.
1991	1551 East Orangethorpe Avenue	Eye Encounter	Pacific Bell
1992 to 2002	1551 East Orangethorpe Avenue	Not Listed	Pacific Bell

4.4 Oil and Gas Maps

According to the State of California Department of Conservation - Division of Oil, Gas, and Geothermal Resources, Map W1-6, there are no wells in the direct vicinity of the Subject Property.

4.5 Fire Insurance Maps

EDR – Sanborn was consulted for Sanborn Fire Insurance Maps. Fire insurance maps were developed for use by insurance companies depicting facilities, properties, and their uses for many locations throughout the United States. These maps provide prior land use history and assist in determining whether there may be potential environmental contamination on or near the Subject Property. These maps, which have been periodically updated since the late 19th Century, often provide valuable insight into historical property uses.

No Sanborn Maps coverage was indicated for the Subject Property. A certificate of no coverage is included in Appendix J.

5.0 REGULATORY REVIEW

EEC submitted written requests to several federal, state, county and local agency representatives to obtain information regarding the potential presence of hazardous substances at the site and to evaluate the potential for the site to be impacted by offsite sources of contamination. The regulatory file review correspondence is included as Appendix K. A summary of the findings from each agency are included below.

5.1 Agency File Requests

5.1.1 United States Environmental Protection Agency

A file review for the Subject Property was requested from the United States Environmental Protection Agency (EPA). The EPA has not yet responded to the request. If pertinent information becomes available, EEC will forward this information to US Bank as an addendum to this report.

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5.1.2 Pipeline Location Request

A request for pipeline locations for the Subject Property was submitted to the State of California Fire Marshall (CSFM). SFM reports that there are no pipelines in the vicinity of the Subject Property.

5.1.3 South Coast Air Quality Management District

Operation permits, notices of violation, and site inspection reports for the Subject Property were requested from the South Coast Air Quality Management District (AQMD). Several notices of violation (NOVs) and permits to construct were present in the file. The NOV were issued for failure to submit reduction plans, failure to meet 65% transfer efficiency, public nuisance violations, failure to obtain permits to operate. Additionally, permits to install four paint spray booths and associated equipment are included. Copies of these documents are included in Appendix K.

5.1.4 Regional Water Quality Control Board

A file review for the Subject Property was conducted at the State of California Regional Water Quality Control Board (RWQCB) – Santa Ana Region. Several documents were found related to the Subject Property. The documents found were correspondents related to the reports described in Section 3.8. Additional, an Orange County Health Care Agency case closure letter dated December 15, 1995 was present in the file. Case closure was granted based on an evaluation of the health threat presented by the inhalation, ingestion, or dermal absorption of the residual contamination. The letter states that the CRWQCB was notified that residual chlorinated hydrocarbons were present at the Subject Property, and did not require a groundwater investigation at that time.

5.1.5 Department of Toxic Substance Control

A file review for the Subject Property was requested from the State of California Department of Toxic Substance Control – Cypress and Glendale offices (DTSC). No DTSC records exist for the Subject Property at either DTSC location.

5.1.6 Orange County Health Care Agency

A file review for the Subject Property was performed at the Orange County Health Care Agency (OCHCA). Several former site investigation reports, Phase I ESA's and a closure report were reviewed. Each report has been previously summarized in Seciton 3.8. A copies of the documents found at the OCHCA are presented in Appendix K.

5.1.7 Fullerton Building Permits

A file review was conducted at the City of Fullerton Building Department. The permits were mostly related to construction, fire sprinkler and the installation of industrial equipment. Permitting for a clarifier and several paint spray booths were included. Other than the permits for the clarifier and the paint booths, no other information indicating potential environmental concerns were found. Copies of these documents are provided in Appendix K.

5.1.8 Fullerton Fire Department

A file review was conducted at the City of Fullerton Fire Department. Reviewed documents included the hazardous material inventory data sheets for Elden and a report from ERM Enviroclean West (ERM). The ERM report documents sampling and disposal of accumulated rainwater when the Subject Property was vacant

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in 1992. Sampled materials were found to be non-hazardous and disposed of accordingly. Copies of these documents are provided in Appendix K.

5.2 Surrounding Properties

EEC contracted Environmental Data Resources, Inc. (EDR) to provide information from federal and state environmental record sources in the form of integrated governmental agency lists identifying known or potential hazardous waste sites, landfills, and sites currently under investigation for environmental violations in the vicinity of the Subject Property. The demographic and geographic information available provides assistance in identifying and managing risk. The accuracy of the geocoded locations is approximately +/- 300 feet. The locations of the sites identified by EDR records search are included in Appendix L. A map showing the locations of the environmental concerns are included with the EDR Report. A summary of identified sites is presented below.

Database	Target Property	Search Distance (miles)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 – 1	>1	Total Plotted
FEDERAL ASTM STANDARD								
NPL		1	0	0	0	0	NR	0
Proposed NPL		1	0	0	0	0	NR	0
CERCLIS		0.5	0	0	1	NR	NR	1
CERC-NFRAP		0.25	0	1	2	NR	NR	3
CORRACTS		1	0	1	1	0	NR	2
RCRIS-TSD		0.5	0	1	1	NR	NR	2
RCRIS Lg. Quan. Gen.	X	0.25	0	2	NR	NR	NR	2
RCRIS Sm. Quan. Gen.		0.25	3	14	NR	NR	NR	17
ERNS		TP	NR	NR	NR	NR	NR	0
STATE ASTM STANDARD								
AWP		1	0	0	0	0	NR	0
Cal-Sites		1	0	0	0	0	NR	0
CHMIRS		1	0	0	0	0	NR	0
Cortese		0.5	1	2	9	NR	NR	12
Notify 65		1	0	0	0	0	NR	0
Toxic Pits		1	0	0	0	0	NR	0
State Landfill		0.5	0	0	0	NR	NR	0
WMUDS/SWAT		0.5	0	0	0	NR	NR	0
LUST		0.5	1	4	14	NR	NR	19
CA Bond Exp. Plan		1.0	0	0	0	0	NR	0
UST		0.25	0	3	NR	NR	NR	3
VCP		0.5	0	0	0	NR	NR	0
CA FID UST		0.25	0	3	NR	NR	NR	3
HIST UST	X	0.25	1	6	NR	NR	NR	7
SWEEPS UST		0.25	0	4	NR	NR	NR	4
FEDERAL ASTM SUPPLEMENTAL								
CONSENT		1	0	0	0	0	NR	0
ROD		1	0	0	0	0	NR	0
Delisted NPL		1	0	0	0	0	NR	0

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Database	Target Property	Search Distance (miles)	<1/8	1/8 - 1/4	1/4 - 1/2	1/2 – 1	>1	Total Plotted
FINDS	X	TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.25	0	0	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
STATE OR LOCAL ASTM SUPPLEMENTAL								
AST		TP	NR	NR	NR	NR	NR	0
CLEANERS		0.25	0	1	NR	NR	NR	1
WIP		0.250	0	1	NR	NR	NR	1
EMI	X	TP	NR	NR	NR	NR	NR	0
CA SLIC		0.5	0	2	13	NR	NR	15
HAZNET	X	TP	NR	NR	NR	NR	NR	0
Orange Co. Industrial Site	X	TP	NR	NR	NR	NR	NR	0
EDR PROPRIETARY HISTORIC DATABASE								
Gas Stations/Dry Cleaners		0.250	0	0	NR	NR	NR	0
Coal Gas		1.000	0	0	0	0	NR	0

TP = Target Property
NR = Not Reported at this Search Distance
* Sites may be listed in more than one database
For more information on sites listed above, see Appendix L

SUBJECT PROPERTY

The Subject Property is listed as Fullerton North Partners on the HAZNET, RCRA-LQG, and FINDS databases. The Subject Property is listed on the RCRA database as a large quantity generator with no violations reported. The Subject Property is on the HAZNET database because it generates and disposes of solvent waste mixtures by recycler.

The Subject Property is also listed as Country Affaire, Inc (also known as Elden) on the EMI, FINDS, Orange County Industrial Site, and HIST UST databases. The Subject Property is reported on the EMI database as an emission discharger as early as 1990. No violations were reported. The Orange County Industrial Site database listed the site as having a release of Perchlororethylene (also known as tetrachloroethene (PCE). The database referenced the site closure issued by the OCHD on December 18, 1995. The UST HIST database reports a 2,500 gallon clarifier as being present at the Subject Property. No releases were reported. Because this clarifier is reported on the UST HIST, and not the current UST list, this clarifier is likely the same clarifier that was removed in 1994.

The Subject Property is also listed as Red Eagle Properties LTD on the HAZNET database. The HAZNET database reports the site as disposing of waste oil and mixed oil by recycling.

SURROUNDING SITES

The EDR report identified the following sites in the vicinity of the Subject Property:

Inland Empire Equipment (1400 Orangethrope Avenue, Fullerton, California 92831)
This facility is listed on the LUST and Cortese databases, and is located 563 feet southwest and cross gradient of the Subject Property. The facility is listed on the LUST database for a gasoline release limited to soil. Case closure was granted on March 2, 1998. Due to the regulatory status and cross gradient location, it does not appear that this site poses an environmental threat to the Subject Property.

Johnathon MG (1101 South Acacia Avenue, Fullerton, California 92831)
This facility is listed on the HIST UST, RCRA-SQG, and FINDS databases, and is located 833 feet east of the Subject Property. The HIST UST database reported that a 2,000 gallon waste UST was located at the Subject Property. No releases were reported. The RCRA-SQG reports the facility as a small quantity generator and no violations are reported.

Johnson Controls Battery Group (1550 Kimberly Avenue, Fullerton, California 92634)
This facility is listed on the LUST, FINDS, RCRA-LQG, TRIS, RCRA-TSDF, CORRACTS, CERC-NFRAP, HAZNET, CA FID UST, EMI, CA WDS, SWEEPS UST, WIP, HIST UST, and UST databases and located adjacent to the north of the Subject Property. The facility is listed on the LUST database for two diesel releases limited to soil. The first release was identified during a tank removal in the late 1980s and was granted site closure on November 23, 1987. The second release is currently being remediated by excavation and disposal. No other information was identified. The facility is listed on the CORRACTS as being a manufacturer of storage batteries. Several TSD violations were report on this database. The HAZNET database reports this facility as disposing of unspecified sludge waste at a landfill, alkaline solution without metals by recycling and surplus organic at a transfer station. No violations were reported. The site has been listed on the California Emission database since 1993. The HIST UST databases reports the site has contained five UST, ranging from 2000 gallons to 10,000 gallons. Based on reported releases to soil only, the site does not appear to be a threat to the Subject Property.

The following information was not included in the EDR report, but is pertinent to environmental concerns at the site.

Anaheim / Fullerton VOC Plume

A large portion of the Upper aquifer system in the Anaheim/Fullerton area of Orange County, California has been impacted by VOCs have caused several production wells to be removed from service. The plume originates east of the 57 Freeway and extends west, over 4 miles, to beyond Euclid Avenue. In places, the plume is almost 1 mile wide and extends to depths of at least 200 feet below grade. The Fullerton Business Park is located near the middle of the plume. The VOCs which have caused the plume are thought to have been released from a dozen or more industrial facilities overlying the impacted area. To date, only one responsible party has been actively remediating the plume. The OCWD has identified seven other businesses as Potentially Responsible Parties (PRPs). These PRPs include Northrop Corporation, Northrop Grumman of Anaheim, American Electronics, Mag Aerospace, Gulton Industries, Aerojet, and the Fullerton Business Park. Most of the identified PRPs are located within one mile or less of the Fullerton Business Park, and releases from one or more could negatively impacted groundwater beneath the Subject Site.

6.0 SUMMARY, CONCLUSIONS, AND RECOGNIZED ENVIRONMENTAL CONDITIONS

6.1 Summary and Conclusions

- The Subject Property is located approximately 700 feet west of the intersection of South Acacia and East Orangethorpe Avenue. The Subject Property, constructed in the late 1950s or early 1960s, is developed with a 108,000 square foot (ft^2), single story manufacturing/warehouse building with associated office space. The remainder of the Subject Property consists of asphalt-paved driveways and parking areas. Professionally landscaped areas are generally located along the site perimeter and throughout the parking areas.

- The Subject Property is currently occupied by Elden Collections, a furniture manufacturer. Elden onsite operations consist of construction, painting, and staining furniture. According to Ms. Jo Elliott (site contact and Elden employee), business activities of Elden Collections has been reduced by 75% and Elden Collections is in the planning to move to an undetermined location.

- Based on a review of available historical sources, it appears that the Subject Property was undeveloped or orchard lands from at least 1898 through the 1950s. The present day warehouse building was developed in the late 1950s. The site has been occupied by several industrial manufacturers over the years.

- The Subject Property is currently owned by Elden Collections, a furniture manufacturer. Elden's onsite operations have been recently reduced by 75%, and they are planning moving from this facility in the near future. Elden purchased the Subject Property from Red Eagle Properties in 1995. Red Eagle in turn bought the Subject Property from Resolution Trust Corporation (RTC) in May of 1994. The EDR city directory lists the Subject Property as Eye Encounter in 1991, however no additional information was found to confirm this business being present at the Subject Property. In the early 1990, Woodmill Products (Woodmill) leased the property. Woodmill manufactured picture frames and performed silk screening. From 1960 to 1985 the site was occupied by Arnold Engineering Company (Arnold). Arnold provided stamping and milling services to the electronics industry. Arnold used the following chemical onsite: ferric chloride, trichloroethane III, Chem-Strip 31817, and magnesium methylate. Several metals including low-nickel, silicon steel, nickel and iron alloys, copper, and stainless steel were used at the Subject Property. Prior to 1960, the site was occupied by Ensign Carburetor Company/Butane and Propane Equipment Manufacturing.

- In September 1994 two clarifiers were removed from the site. During the removal of the clarifiers soil contamination was encountered. Subsequent site investigations identified the presence of hydrocarbon and chlorinated solvent compounds in the subsurface. Soil vapor extraction was initiated in 1994 to remediate the site. In 1995, the Orange County Health Care Agency (OCHCA) concluded that the site had been sufficiently remediated and granted site closure. Soil borings drilled at the conclusion of the remediation indicate that residual VOCs remained in the soil beneath the site. These VOCs included TCE at a concentration of 180 parts per million (ppm) at 105 feet bgs, just above the groundwater level. Records reviewed by EEC indicate that although site closure had been granted by the OCHCA, the RWQCB initially felt that additional assessment was required. The RWQCB later rescinded that recommendation when the current property owner explained that any contamination at the site was from a previous tenant. No groundwater samples have been collected beneath the site, even though VOC impacted soil extends very close to the regional groundwater level.

- The site is located within an area that is underlain by an extensive regional VOC plume in groundwater. This VOC plume has been the subject of intensive investigation and remediation. The

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primary investigative agency has been the Orange County Water District (OCWD), the purveyor of domestic water in Orange County. Through several investigations, the OCWD identified several Potentially Responsible Parties (PRP's) that they suspect may have contributed to the VOC plume. The Fullerton Business Park was one of the PRPs identified. The OCWD has reportedly filed a lawsuit naming the identified PRPs as defendants, apparently in an attempt to develop funding to assist in the remediation of the regional groundwater plume.

- Groundwater is located approximately 110 feet below ground surface (bgs) and flows to the west-southwest.

- The Subject Property is listed on several government databases that indicate that the site formerly contained a clarifier. EEC could not find any evidence that USTs were ever located onsite; therefore, it is likely that this reference refers to the previously removed clarifiers. These databases also list the site as being monitored for emission releases and as a hazardous waste generator.

- The following observations were made during EEC's site reconnaissance:

  - No visual evidence indicating the present use of USTs containing hydrocarbon products, such as vent pipes, manhole covers, or concrete cuts was identified at the Subject Property.

  - No visual evidence of past or present aboveground storage tanks (ASTs) was observed at the Subject Property.

  - Hazardous materials or hazardous waste including paints, lacquers, and stains are currently stored or used at the Subject Property. These materials appear to stored properly at the Subject Property.

  - Minor staining was noted in the asphalt-paved parking lot; however, this staining appears to represent de-minimus risk to the environment.

- The results of the EDR radius search did not identify any sites in the vicinity of the Subject Property that would be a potential environmental concern.

- Several Air Quality Management District (AQMD) Voilation were found related to the Subject Porperty. These violations do not appear to pose any environmental threat to the Subject Property.

- On April 10, 1992, Converse Environmental performed an asbestos inspection survey at 1501 -1561 East Orangethrope Avenue, Fullerton, California. Both friable and nonfriable asbestos was detected at the Subject Property.

6.2 Recognized Environmental Conditions

Two Recognized Environmental Conditions (RECs) were determined to be associated with the Subject Property. The term "recognized environmental condition" is defined by ASTM as the "presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property."

- Without further information that excludes the Subject Property, the pending lawsuit with the OCWD is considered a REC at the Subject Property. This lawsuit is due to the fact that both soil and groundwater beneath the site are known to be impacted by VOCs. If discharges from the Subject

Property are tied to the regional VOC plume it is possible that a new property owner could become liable for a costly remediation. EEC recommends consulting with an environmental attorney to assess how this risk could be mitigated.

- Residual concentrations of VOCs remain in soil beneath the site and extend to near the groundwater surface (110 feet bgs). Additionally, subsurface investigations conducted at the site appear to have been intentionally stopped short of collecting groundwater samples. Correspondences with the RWQCB indicate that the decision not to pursue assessment of groundwater was not for technical reasons, but was instead due to the fact that the current owner was not the source of the impact. Therefore, EEC believes that the site assessment activities have not fully characterized the extent of the impact, and that the site may have been prematurely closed. If the former property owner or tenant responsible for the release of VOCs cannot be identified or does not have sufficient monetary resources, the current property owner could be held liable for future investigative or remediation efforts.

One Historic Recognized Environmental Condition (HREC) was determined to be associated with the Subject Property. The term "historic recognized environmental condition" is defined in ASTM Practice E 1527-00 as "conditions which in the past would have been considered a REC, but which may or may not be considered a REC currently."

In September 1994 two clarifiers were removed from the Subject Site. Soil contamination was encountered beneath the clarifiers and continues to be a potential issue at the site, as described in the REC, above.

7.0 RECOMMENDATIONS

Environmental Engineering & Contracting, Inc. (EEC) has performed this Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Practice E 1527-00 and EEC's Standard Limitations for the Subject Property identified as Elden Collections, 1551 East Orangethorpe Avenue, Fullerton, California.

Based on the observations and records reviewed during this Phase I ESA, EEC believes that historic onsite activities have adversely affected the subsurface soil and groundwater at the Subject Property. Additionally, the Subject Property is currently being named in a lawsuit with the OCWD, therefore, the property owner and lender must determine how this lawsuit could potentially impact each party. EEC recommends that legal council review any sales agreement prior to completing the site purchase.

OCWD 043079

8.0 REFERENCES

American Society for Testing and Materials. *Standard Practice for Environmental Site Assessments: Phase I Environmental site Assessment Process*. ASTM Designation: E 1527-00.

BEM Systems, Inc, Phase I Environmental Site Assessment and Comprehensive Asbestos Survey, September 30, 1992

Bryant GeoEnvironmental Services, Phase I Environmental Site Assessment Update, August 12, 1996

Carson, Scott E. and Jonathan C. Matti, Countour Map Showing Minimum Depth to Ground Water, Upper Santa Ana River Valley, California, dated 1985.

Converse Environmental West, Phase I Preliminary Site Assessment Report, February 10, 1992

Converse Environmental West, Asbestos Inspection Report, April 10, 1992

Converse Environmental West, Chemical Analysis of Liquid in Clarifier, January 31, 1994

Converse Environmental West, Update to Phase I Preliminary Site Assessment, January 17, 1994

Converse Environmental West, Clarifier Removal and Soil Analysis, October 18, 1994

Converse Environmental West, Site Characterization Summary Report, November 11, 1994

Converse Environmental West, Summary Report Additional Site Characterization, December 13, 1994

Converse Environmental West, Summary Report of Additional Site Characterization, January 26, 1995

Converse Environmental West, Addendum – Summary Report of Additional Site Characterization, February 20, 1995

Converse Environmental West, Summary Report of Additional Site Characterization, May 18, 1995

Converse Environmental West, Soil Remediation Closure Report, December 12, 1995

Environmental Data Resources, Inc. (EDR) aerial photographs dated 1938, 1946, 1953, 1968, 1977, 1990, 1994, and 2002.

Environmental Data Resources, Inc. (EDR) Report, Southport, Connecticut. Sparks and Tucker Rev. Trust, 1551 East Orangethorpe Avenue, Fullerton, California. Inquiry Number 1526729.2s, October 6, 2005.

Environmental Data Resources, Inc. (EDR) topographic maps dated 1898, 1902, 1935, 1950, 1965, 1972, and 1981.

FEMA Flood Insurance Rate Maps, Digital Q3 Flood Data Files, GDT/Dynamap/2000 Data Set.

Norris, Robert M. and Webb, Robert W., *Geology of California*, Second Edition, 1990.

OCWD 043080

9.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

This Phase I Environmental Site Assessment was performed by Stephanie Tanguilig, a Staff Engineer with Environmental Engineering & Contracting, Inc. (EEC). Ms. Tanguilig holds a Bachelor of Science Degree in Environmental Engineering from the University of California at Riverside, in Riverside, California. Ms. Tanguilig has performed several Phase I Site Assessments throughout the Western United States, New York, and North Carolina.

This Phase I Environmental Site Assessment was reviewed and overseen by Mark Zeko, Vice President and Principal Hydrogeologist with Environmental Engineering & Contracting, Inc. (EEC). Mr. Zeko is a Registered Geologist (#6278) and Certified Hydrogeologist (#310) in the State of California. He has over 15 years experience as an environmental professional and has performed hundreds of Phase I Environmental Site Assessments in California, Nevada, and Arizona. Other experience in the environmental industry includes managing and performing subsurface investigation and remediation of a variety of contaminants, and the use of fate and transport models to define cleanup goals and objectives.

OCWD 043081

Reference:
Envirostor, 2015a

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIROSTOR

ARNOLD ENGINEERING (60002048)

SIGN UP FOR EMAIL ALERTS

1551 EAST ORANGETHORPE AVENUE
FULLERTON, CA 92831
ORANGE COUNTY
SITE TYPE: EVALUATION

PROJECT MANAGER: RAFAT ABBASI
SUPERVISOR: MANNY ALONZO
OFFICE: CLEANUP CYPRESS

Site Information

CLEANUP STATUS
ACTIVE AS OF 8/12/2014

SITE TYPE:	EVALUATION	**ENVIROSTOR ID:**	60002048
NATIONAL PRIORITIES LIST:	NO	**SITE CODE:**	401683
ACRES:	0.25 ACRES	**SPECIAL PROGRAM:**	EPA - PASI
APN:	NONE SPECIFIED	**FUNDING:**	EPA GRANT
CLEANUP OVERSIGHT AGENCIES:		**ASSEMBLY DISTRICT:**	65
DTSC - SITE CLEANUP PROGRAM - LEAD		**SENATE DISTRICT:**	29

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
NONE SPECIFIED

POTENTIAL CONTAMINANTS OF CONCERN	**POTENTIAL MEDIA AFFECTED**
NONE SPECIFIED	NONE SPECIFIED

Site History

Conditions of Use | Privacy Policy

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0.421875 seconds

Reference:
Envirostor, 2015b

DEPARTMENT OF TOXIC SUBSTANCES CONTROL
ENVIROSTOR

FULLERTON BUSINESS PARK-NORTH (60000728)

SIGN UP FOR EMAIL ALERTS

1551 ORANGETHORPE AVE
FULLERTON, CA 92833
ORANGE COUNTY
SITE TYPE: EVALUATION

OFFICE: CLEANUP CYPRESS

Site Information

CLEANUP STATUS
REFER: 1248 LOCAL AGENCY AS OF 7/24/2007

SITE TYPE: EVALUATION	**ENVIROSTOR ID:**	60000728
NATIONAL PRIORITIES LIST: NO	**SITE CODE:**	
ACRES: NONE SPECIFIED	**SPECIAL PROGRAM:**	
APN: NONE SPECIFIED	**FUNDING:**	NOT APPLICABLE
CLEANUP OVERSIGHT AGENCIES:	**ASSEMBLY DISTRICT:**	65
DTSC - SITE CLEANUP PROGRAM - LEAD	**SENATE DISTRICT:**	29

Regulatory Profile

PAST USE(S) THAT CAUSED CONTAMINATION
NONE SPECIFIED

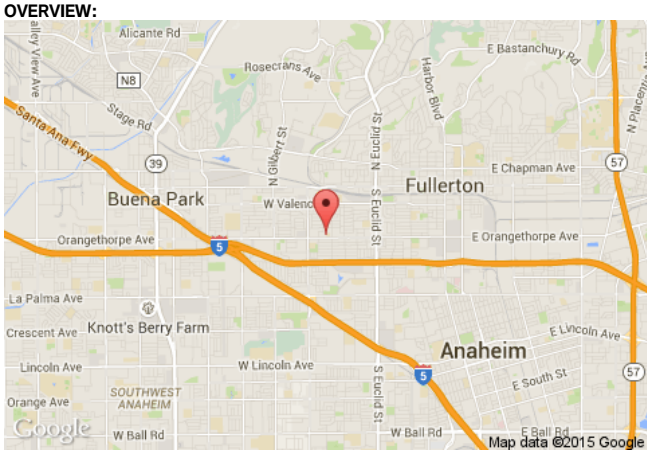
POTENTIAL CONTAMINANTS OF CONCERN
NONE SPECIFIED

POTENTIAL MEDIA AFFECTED
NONE SPECIFIED

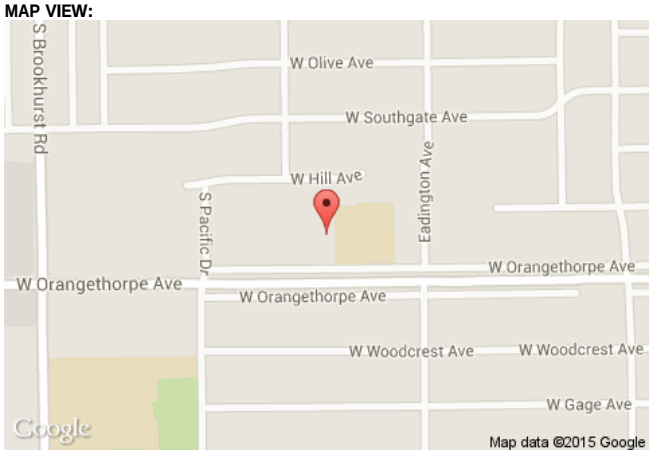
Site History

FOR AN INTERACTIVE MAP, CLICK ON AN IMAGE BELOW

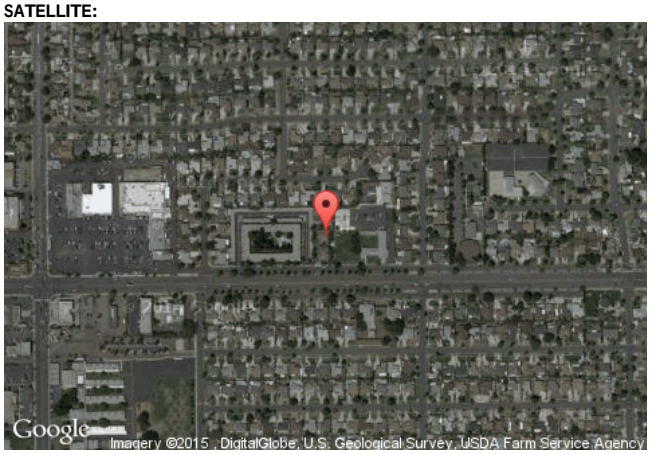
OVERVIEW:



MAP VIEW:



SATELLITE:



TERRAIN:

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Reference:
EPA, 2017

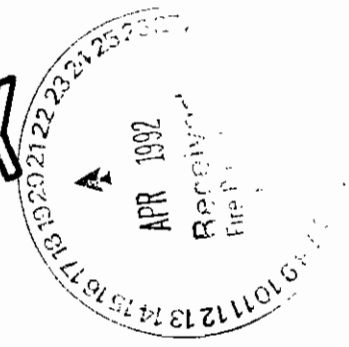
EPA ID / SITE ID	SITE NAME / STREET 1 / STREET 2 / CITY, STATE / COUNTY NAME (FIPS CODE)	ZIP / CONG DIST.	LATITUDE / LONGITUDE / SOURCE	OU	ACTION CODE, NAME	SEQ	START (ACTUAL)	FINISH (ACTUAL)	QUAL	CURRENT ACTION LEAD
CAN000900265 0900265	TRIPLE SITE 811 EAST ARQUES AVENUE SUNNYVALE, CA SANTA CLARA (06085)	94086		NPL STATUS: N FEDERAL FACILITY: N NON-NPL STATUS: Status Not Specified						
CAN000900306 0900306	ARNOLD ENGINEERING/UNIVERSAL MOLDING 1551 East Orangethorpe Ave FULLERTON, CA ORANGE (06059)	92831		NPL STATUS: N FEDERAL FACILITY: N NON-NPL STATUS: PA Start Needed ASSOCIATED SITE: CAN000900251ORANGE COUNTY NORTH BASIN						
				00	DS DISCVRY	1	05/26/2015	05/26/2015		EPA Perf
CAN000900310 0900310	GOLDEN WEST TOWING EQUIPMENT 1850 E. Orangethorpe Avenue FULLERTON, CA ORANGE (06059)	92831		NPL STATUS: N FEDERAL FACILITY: N NON-NPL STATUS: PA Start Needed ASSOCIATED SITE: CAN000900251ORANGE COUNTY NORTH BASIN						
				00	DS DISCVRY	1	05/26/2015	05/26/2015		EPA Perf
CAN000900323 0900323	KHYBER FOODS 1818 East Rosslynn FULLERTON, CA ORANGE (06059)	92831		NPL STATUS: N FEDERAL FACILITY: N NON-NPL STATUS: PA Start Needed ASSOCIATED SITE: CAN000900251ORANGE COUNTY NORTH BASIN						
				00	DS DISCVRY	1	05/26/2015	05/26/2015		EPA Perf
CAN000900325 0900325	NORTHROP Y-19 1401 East Orangethorpe Ave FULLERTON, CA ORANGE (06059)	92831		NPL STATUS: N FEDERAL FACILITY: N NON-NPL STATUS: PA Start Needed ASSOCIATED SITE: CAN000900251ORANGE COUNTY NORTH BASIN						
				00	DS DISCVRY	1	05/26/2015	05/26/2015		EPA Perf

EPA ID / SITE ID	SITE NAME / STREET 1 / STREET 2 / CITY, STATE / COUNTY NAME (FIPS CODE)	ZIP / CONG DIST.	LATITUDE / LONGITUDE / SOURCE	OU	ACTION CODE, NAME	SEQ	START (ACTUAL)	FINISH (ACTUAL)	QUAL	CURRENT ACTION LEAD
CAN000900337 0900337	AUTONETICS/RAYTHEON 310 E. Walnut Ave FULLERTON, CA ORANGE (06059)	92832		NPL STATUS: N FEDERAL FACILITY: N NON-NPL STATUS: PA Start Needed ASSOCIATED SITE: CAN000900251ORANGE COUNTY NORTH BASIN						
				00	DS DISCVRY	1	05/26/2015	05/26/2015		EPA Perf
CAN000900352 0900352	CBS FENDER 500 South Raymond Ave FULLERTON, CA ORANGE (06059)	92831		NPL STATUS: N FEDERAL FACILITY: N NON-NPL STATUS: PA Start Needed ASSOCIATED SITE: CAN000900251ORANGE COUNTY NORTH BASIN						
				00	DS DISCVRY	1	05/26/2015	05/26/2015		EPA Perf
CAN000900354 0900354	FULLERTON MANUFACTURING 311 S. Highland Ave FULLERTON, CA ORANGE (06059)	92832		NPL STATUS: N FEDERAL FACILITY: N NON-NPL STATUS: PA Start Needed ASSOCIATED SITE: CAN000900251ORANGE COUNTY NORTH BASIN						
				00	DS DISCVRY	1	05/26/2015	05/26/2015		EPA Perf
CAN000900358 0900358	VISTA PAINT 2020 E. Orangethorpe Ave FULLERTON, CA ORANGE (06059)	92831		NPL STATUS: N FEDERAL FACILITY: N NON-NPL STATUS: PA Start Needed ASSOCIATED SITE: CAN000900251ORANGE COUNTY NORTH BASIN						
				00	DS DISCVRY	1	05/26/2015	05/26/2015		EPA Perf
CAN000900378 0900378	SIMI VALLEY MERCURY 4100 Cochran Street SIMI VALLEY, CA VENTURA (06111)	93063		NPL STATUS: N FEDERAL FACILITY: N NON-NPL STATUS: Removal Only Site (No Site Assessment Work Needed)						

Reference:
ERM, 1992

ERM enviroclean west
1920 Main Street
Suite 600
Irvine, California 92714-7210
(714) 476-3040
Telefax: (714) 476-3053

COPY



April 16, 1992

Mr. Dave Dickson
Hazardous Waste Specialist
Orange County Health Department
Hazardous Materials Management Section
P.O. Box 355
Santa Ana, California 92075

RE: Emergency Response Corrective Actions
1551 Orangethorpe Avenue in Fullerton, California

Dear Mr. Dickson:

The purpose of this correspondence is to document activities at the above referenced facility from the period of March 23, 1992 through April 9, 1992. On March 24, 1992, ERM-EnviroClean-West, Inc. (EnviroClean) was contacted by a representative from McLachlan Investment Company (MIC). MIC requested that EnviroClean respond to an emergency situation at the Orangethorpe facility.

This facility was abandoned by the tenant. Waste materials (including hazardous materials and potentially hazardous materials) were improperly stored. These materials included paints, solvents and acids. In addition, there was considerable amounts of debris scattered across the site making movement of response vehicles very difficult.

Recent rainfall had accumulated in bermed areas used for drum storage and in a truck loading dock. It is estimated that approximately 100,000 gallons of standing water was present in these areas. Because of the materials historically handled in these areas, this water was considered to be potentially hazardous. EnviroClean collected water samples from each area for analytical testing. The purpose of these tests was to profile hazardous characteristics (if any) of water in each area. These samples were submitted to Associate Laboratories with the expectation that results would be available in 24 hours. However, because of a failure of testing equipment at the laboratory, analytical testing actually required approximately five days. Analytical results (Attachment A) indicated accumulated water in the truck dock area was not hazardous. This water was discharged by MIC.

Debris was consolidated to the extent that equipment could reach areas of concern. A vacuum truck was used to pump water from the bermed areas into empty drums that were available on-site. All drums on site were checked for leaks, tight covers and bungs. Drums scattered across the site were collected and placed into the bermed areas. Each bermed area was then covered with visqueen plastic sheeting and the site was secured for the day.

On the 25th of March, an EnviroClean Site Manager visited the site and inventoried and removed drums of hazardous and potentially hazardous materials from the interior and stored them in one of the bermed areas. Drums containing corrosive materials were stored in the compressor room. All drums inside and outside of the building were covered.

Thirteen samples were collected from unknown liquids in the storage area on the west side of the building. As each sample was collected, the pH of the liquid was also measured. Ph values of these liquids ranged from approximately 10 to 1.5. These samples were submitted to Associated Laboratories for analytical testing. Waste in these drums will be recycled or disposed of based on these analytical results.

If you require additional information, please contact our Irvine office.

Sincerely,

ERM-ENVIROCLEAN-WEST, INC.

Eric D. Floyd
EDF/edf/9078

cc: C. Thomas Thompson, City of Fullerton Fire Prevention Bureau
Dianne L. Robins, McLachlan Investment Company
Ron Coulombe, Coulombe and Kottke

Reference:
FFD, 1975

ARNOLD ENGINEERING
1551 East Orangethorpe

8-14-73

RECORD OF INSPECTIONS

CONTINUATION SHEET

A - Excellent
B - Good
C - Fair
D - Bad

O - None
R - Reinspect
* - Eng. Co.

DATE	WIRING	STOCK & STORAGE	TRASH & DISPOSAL	HEAT & EQPT.	FIRE PTCN. EQUIPMENT	INSPECTOR

8/6/74 Met w/ "Brownie", Fullerton electrical inspector, and Don Farmer, maintenance foreman, re setting up of six "coating" machines involving the use of a flammable liquid, "Dyna-Chem," flash point of 82°F; explosion range 1 - 6 mixture with air, density of 3. These machines have a sealed electrical heating element that dries the flammable liquid coating with a temperature of 200°F.

Factory ~~Mutual~~ Insurance Co. requested that each machine be mechanically vented at the rate of 400 cfpm; the machines have been set up to vent at the rate of 500 cfpm, giving an air change within the unit of 180 air changes per hour. The room that contains the machines has an air change of 15 times per hour.

No manufacturing information on operation is available because the company went out of business. Don Farmer is to gather any information available from other plants that have this operation & submit them to Fire Dept for review. CO_2 fire extinguishing systems for each unit are now being purchased. Plans for extinguishing systems to be submitted to Fire Dept prior to installation. Pending. ELH

8/14/74 Permit #ES 74-116 issued to Fire Safety Industries for installation of automatic extinguishing system for ~~8~~ 15 dip coating machines. PEP

9/5/74 Fire inspection made with Don farmer in regard to "coating machine" installations, as per inspection dated 8/6/74.

Interlocking switches between the electrical heating elements and the exhaust fan are being installed.

Installation of automatic fire extinguishing systems for the dip coating machines are pending because of the delay of available parts.

Reinspection pending. ELH

9/20/74 DIP COATING MACHINES - Met w/ Don Farmer, maintenance foreman, and J W Lacy, senior Engineer for Factory Insurance Assn (778-4580) re inspection & test of five CO_2 automatic fire extinguishing systems:

CO_2 system is equipped w/ two 100# CO_2 cylinders, w/ 2 backup 100# cyl.

Automatic system actuated duct dampers tested.

Automatic system actuated rate of rise heat detector switches tested (detector actuates w/ rise of heat of 10° within 6 seconds.

All system nozzles (1/2" & 3/4") and plumbing tested.

All electrical heat & operating equipment for dip-coating machines are interconnected to shut down in the event of fire; all 5 machines are interconnected.

Each machine has a separate extinguishing system, w/ the exception of

RECORD OF INSPECTIONS

CONTINUATION SHEET

A - Excellent
B - Good
C - Fair
D - Bad

O - None
R - Reinspect
* - Eng. Co.

DATE	WIRING	STOCK & STORAGE	TRASH & DISPOSAL	HEAT & EQPT.	FIRE PTCN. EQUIPMENT	INSPECTOR
8/14/75						ELH

9/20/74 - continued

the two center located machines; they are interconnected.
Each system has a manual pull station, located near the exit door on the inside wall of this room. All manuals were manually tested.
Each machine to be identified by numbering - to match number sequence of each manual pull switch.
Reinspection pending. ELH

11/27/74 DIP COATING MACHINES - CO_2 fire extinguishing manual pull stations have been IDENTIFIED and NUMBERED to correspond w/ each dipping/coating machine, as recommended 9/20/74. ELH

3/27/75 Don Farmer - conferred with the undersigned in regard to installing an OUTSIDE, 1000 gallon Trichlorethylene storage tank (111). Don was advised that the Fullerton Fire Department would desire to inspect the proposed site and use when the decision is made to proceed with the installation.

ELH

8/14/75 Proposed chlorine use and storage.
Don Farmer advised that the company was proposing to install two (2) one ton tanks of chlorine outside of the building, adjacent to the northeast wall.
Don proposed an emergency method of disposing of the chlorine, by use of the existing ammonia diffuser. After conferring with Chief Pyeatte, Fire Marshal, Don Farmer was advised by the undersigned that the ammonia diffuser could be used for emergency disposal of the chlorine if it is properly metered and plumbed, to assure proper mixture to the sewer and definite security of the use of the valve manifolding, must be provided.
See F.P. handbook page 7-57 for general information.
ELH

8/19/75 Call received from Dennis Hume, Personnel Dept., requesting information on developing a fire brigade. Discussed procedure to be followed and items to be covered. Offer made to meet w/ Mr Hume at the plant; he is to call when ready for meeting. KCA

10/22/75 Met w/ Dennis Hume & Don Farmer. FIRE BRIGADE training program and film, "Extinguish That Fire" were presented to the group; fire extinguisher demonstration was held, for use of ABC type fire extinguishers. ELH

OVER

RECORD OF INSPECTIONS

CONTINUATION SHEET

A - Excellent
B - Good
C - Fair
D - Bad

O - None
R - Reinspect
* - Eng. Co.

DATE	WIRING	STOCK & STORAGE	TRASH & DISPOSAL	HEAT & EQPT.	FIRE PTCN. EQUIPMENT	INSPECTOR
2-8-74*						3A
2-2-74						ELH

Cont

4 PM - Fire prevention office - conferred with McCormick Construction Co. regarding installation of said ferric chloride acid tanks. plot plan submitted was not complete, additional tank information needed. pending - (advised Ethel ayers.) 213 753-3337

2-7-74 - Don Farmers called the undersigned to advise that mfg information and approvals for the ferric chloride acid tanks (fiberglass) will be brought into the F.P.D. upon his receiving the information. (estimated delay approval until 2-11-74) ELH

Posted

2/14/74 Permit #HC 74-23 issued: 1 - 3500 gal spent ferric chloride tank;
1 - 3000 gal fresh ferric chloride tank. ELH

2-19-74 Plumbing & Piping Unltd. (Van Heuckelom) 213 567-2326 Contacted F.P.B. in regard to installation of an ammonia diffuser for emergency dumping of proposed 1000 gal ammonia storage tank. pending. ELH two copies of diffuser sent to him; to 8462 State Street, Southgate - 90280.

3-1-74 ~~Ferric chloride acid tank installation~~ Duplication
~~permit # HC 74-23 for installation of~~ two Tanks,
one 3500 gal, one 3000 gal. issued to contractors
McCormick Const Co - 213-753-3337 (Ethel ayers)

4-15-74 Ammonia diffusor tested - failed - coupling blew apart -

4-26-74 - Ammonia diffusor tested - (OK) Requested all valves be identified by metal signs. Valves identified 4-27-74.

6-3-74 Ferric chloride acid tanks are now identified. (ELH)

7-2-74 Brownie, City of Hull, Electrical insp requested flash point of a fl liquid. Brand name "Dyna Chem 5000," that is to be used in the photo area. Flash point info needed to ascertain the class of electrical equip & wiring to be installed. Don Farmer of Arnold Engineering advises the undersigned that said fl liq has flash point of 82°F. - Class 1-C as per U.F.Code - 73 Edition, Brownie advised -

FP 4/72 — 200

OVER

ARNOLD ENGINEERING COMPANY
1551 E. Orangethorpe

7-2-74

RECORD OF INSPECTIONS

CONTINUATION SHEET

A - Excellent
B - Good
C - Fair
D - Bad

O - None
R - Reinspect
* - Eng. Co.

DATE	WIRING	STOCK & STORAGE	TRASH & DISPOSAL	HEAT & EQPT.	FIRE PTCN. EQUIPMENT	INSPECTOR
2-1-74						ELH/MG
2-5-74						

6/4/73 Warren Clark, Area Manager of Vangas, stated that he was not aware of requirement for concrete footing and permanent securing of tank to the concrete; he will correct condition by Wed., 6/6/73. Warren was advised that tank will be red-tagged by undersigned if condition is not corrected by said date. ELH

6/7/73 Reinspection of LPG tank installation (499 gallons) - Tank has been SECURED to a poured concrete footing, as recommended 3/21/73. ELH

2-1-74 - Fire insp. was made with Mal Green (F. Fireman) and Don Farmer, maint. superintendent.

Outside Bldg - N/E corner of plant (bldg)

Ferric Chloride - Two additional tanks (fiberglass const.) 3500 and 3000 gal cap. have been installed without permit or Fire Dept approval. (Tanks have been filled). PVC. 2" plumbing not secured from movement. Concrete retaining wall around tanks is not sufficient.

Don Farmer advised to submit a plot plan to the F.F.D for approval & permit.

Ammonia Tank - 1000 gal cap. N/E corner of plant bldg. an upright NH_3 tank is to be installed, with plumbing extending into the bldg.

Don Farmer advised to submit a plot plan to F.F.D for approval and permit.

Liquid Nitrogen 25,000 cubic ft cap. S/W corner of plant bldg. upright tank is not secured from movement. No permit has been issued by F.F.D for this unit

HFC 36103

~~Housekeeping~~ Housekeeping in general - in good order at this time. (Inside/outside bldg)

Don Farmer advised of existing conditions of this fire inspection. (ELH)

2-5-74 Don Farmer informed the undersigned that McCormick Constr. Co. will submit plans of Ferric Chloride storage tanks to Fire Dept for approval.

Reference:
FFD, 1990

Closed

#150.00

#20573

FULLERTON FIRE DEPARTMENT
HAZARDOUS MATERIALS DISCLOSURE FORM

150

GENERAL FACILITY INFORMATION

BUSINESS NAME: WOOD MILL PRODUCTS

ADDRESS: 1551 E ORANGETHORPE

MAILING ADDRESS: FULLERTON CA, 92631

JAN 1990 BUREAU OF FIRE PREVENTION

BUSINESS PHONE: 714-870-9050

PRIMARY CONTACT: BRUCE WALKER

ENTERED

TITLE: PLANT MANAGER.

PHONE#: WORK: 870-9050 HOME: 714-759-7696

SECONDARY CONTACT: STEVE HAMILTON

TITLE: MAINTENANCE SUPERVISOR

PHONE#: WORK: 870-9050 HOME: 714-848-5424

*SIC#: 2499 **DUN AND BRADSTREET#: 06-313-5917

DESCRIPTION OF BUSINESS OPERATION: WOOD PRODUCTS MFG.

*SIC#: Enter the primary Standard Industrial Classification (SIC) code number for your facility. If your business does not know this information, contact CAL OSHA Consultation Service at (312) 861-9993 to obtain your business SIC number. 213-

**DUN AND BRADSTREET#: Enter the Dun and Bradstreet number for your business. If your business does not have this information, contact the Regional Office of Dun and Bradstreet at (714) 937-0869.

WE USE EXTREMELY HAZARDOUS SUBSTANCES/ACUTELY HAZARDOUS MATERIALS YES X NO ___

THERE ARE SCHOOL(S)/HOSPITAL(S)/EXTENDED CARE FACILITIES WITHIN 1000 FEET OF MY FACILITY (STRAIGHT LINE DISTANCE) YES ___ NO X

CERTIFICATION: I certify under penalty of law that I have personally examined and am familiar with the information submitted and believe the submitted information is true, accurate and complete.

Print Name of Owner/Operator BRUCE WALKER

Print Name of Document Preparer STEVE HAMILTON

Signature of Owner/Operator Bruce Walker DATE 1/15/90

For Administering Agency Use
Facility ID #:

FULLERTON FIRE DEPARTMENT
CHEMICAL DESCRIPTION FORM

Reporting Period
1/1 to 12/31 1989

☐ Trade Secret page ☒ Non trade Secret page ☒ Acutely Hazardous / Radioactive / Carcinogen page

CHEMICAL #1

Common Name: PROPANE | CAS #: 74-98-6
Chemical Name: Liquified Petrolem Gas | DOT #: 1075

PHYSICAL STATE: Solid:☐ Liquid:☐ Gas:☒ Pure:☐ Mixture:☐ Waste:☐ Radioactive:☐ (If radioactive _____ curies) | If Waste, enter annual amount generated:

WASTE CLASSIFICATION: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): _____ (3 digit code)

PHYSICAL & HEALTH HAZARD CATEGORIES:
PHYSICAL — Fire: ☒ Reactive: ☐ Sudden Pressure Release: ☒
HEALTH — Immediate Health (Acute): ☒ Delayed Health (Chronic): ☐

AMOUNT & TIME AT FACILITY:
UNITS OF MEASURE: gals ☒ lbs ☐ cu ft ☐ grams ☐ kg ☐ ____ ☐ other (specify)

Maximum Daily Amount:	300 gal.
Average Daily Amount:	150 gal
# Days per year chemical is on-site:	365
Largest container on-site (volume):	300 gal.

STORAGE CODES & LOCATIONS: use the codes provided on pages 8 & 9

C	P	T	Location on site
A	2	4	South, East Corner of YARD
L	2	4	Mobile, on Fork lifts (Qty 3)

CHEMICAL #2

Common Name: Sealer, TopCoat 2200-3000 | CAS #: 67-63-0
Chemical Name: | DOT #: UN 1263

PHYSICAL STATE: Solid:☐ Liquid:☒ Gas:☐ Pure:☐ Mixture:☐ Waste:☐ Radioactive:☐ (if radioactive _____ curies) | If Waste, enter annual amount generated:

WASTE CLASSIFICATION: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): _____ (3 digit code)

PHYSICAL & HEALTH HAZARD CATEGORIES:
PHYSICAL — Fire: ☒ Reactive: ☒ Sudden Pressure Release: ☐
HEALTH — Immediate Health (Acute): ☒ Delayed Health (Chronic): ☒

AMOUNT & TIME AT FACILITY:
UNITS OF MEASURE: gals ☒ lbs ☐ cu ft ☐ grams ☐ kg ☐ ____ ☐ other (specify)

Maximum Daily Amount:	1,000 Gal
Average Daily Amount:	500 Gal
# Days per year chemical is on-site:	365
Largest container on-site (volume):	55 gal DRUM

STORAGE CODES & LOCATIONS: use the codes provided on pages 8 & 9

C	P	T	Location on site
D	1	4	Area #1 Storage Berms, North End of Yard
D	1	4	Area #2 Finishing Room West side of Building
D	1	4	Area #3 Out Side Finish Room, West Yard

For Administering Agency Use
Facility ID #:

FULLERTON FIRE DEPARTMENT
CHEMICAL DESCRIPTION FORM

Reporting Period
1/1 to 12/31 1989

☐ Trade Secret page ☒ Non-trade Secret page ☒ Acutely Hazardous / Radioactive / Carcinogen page

CHEMICAL #3

Common Name: LACQUER THINNER, PAINT REDUCER
CAS #: 64742-88-7
Chemical Name: PETROLEUM NAPTHA SOLVENT
DOT #: NA 1263

PHYSICAL STATE: Solid: ☐ Liquid: ☒ Gas: ☐ Pure: ☐ Mixture: ☐ Waste: ☐
Radioactive: ☐ (If radioactive _____ curies)
If Waste, enter annual amount generated:

WASTE CLASSIFICATION: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): _____ (3 digit code)

PHYSICAL & HEALTH HAZARD CATEGORIES:
PHYSICAL — Fire: ☒ Reactive: ☒ Sudden Pressure Release: ☐
HEALTH — Immediate Health (Acute): ☒ Delayed Health (Chronic): ☒

AMOUNT & TIME AT FACILITY:
UNITS OF MEASURE: gals ☒ lbs ☐ cu ft ☐ grams ☐ kg ☐ ____ ☐ other (specify)

Maximum Daily Amount: 265 GAL.
Average Daily Amount: 150 GAL.
Days per year chemical is on-site: 365
Largest container on-site (volume): 55 gal DRUM

STORAGE CODES & LOCATIONS: use the codes provided on pages 8 & 9

C	P	T	Location on site
D	1	4	AREA #1 STORAGE BERMS, NORTH END of YARD
D	1	4	AREA #2 FINISHING ROOM WEST SIDE of BUILD
D	1	4	AREA #3 OUT SIDE FINISHING ROOM, WEST SIDE IN YARD

CHEMICAL #4

Common Name: OIL BASE STAIN 2500 BASE
CAS #: 64742-88-7
Chemical Name: PETROLEUM NAPTHA BASE
DOT #: UN-1263

PHYSICAL STATE: Solid: ☐ Liquid: ☒ Gas: ☐ Pure: ☐ Mixture: ☐ Waste: ☐
Radioactive: ☐ (if radioactive _____ curies)
If Waste, enter annual amount generated:

WASTE CLASSIFICATION: Enter the State Waste Number (from DHS form 8022, Uniform Hazardous Waste Manifest): _____ (3 digit code)

PHYSICAL & HEALTH HAZARD CATEGORIES:
PHYSICAL — Fire: ☒ Reactive: ☐ Sudden Pressure Release: ☐
HEALTH — Immediate Health (Acute): ☒ Delayed Health (Chronic): ☒

AMOUNT & TIME AT FACILITY:
UNITS OF MEASURE: gals ☒ lbs ☐ cu ft ☐ grams ☐ kg ☐ ____ ☐ other (specify)

Maximum Daily Amount: 1,000 gal
Average Daily Amount: 500 GAL
Days per year chemical is on-site: 365
Largest container on-site (volume): 55 gal DRUM

STORAGE CODES & LOCATIONS: use the codes provided on pages 8 & 9

C	P	T	Location on site
D	1	4	AREA #1 STORAGE BERMS, NORTH END of YARD
D	1	4	AREA #2 FINISHING ROOM, WEST SIDE of BUILDING
D	1	4	AREA #3 OUT SIDE FINISH ROOM, WEST SIDE of YARD

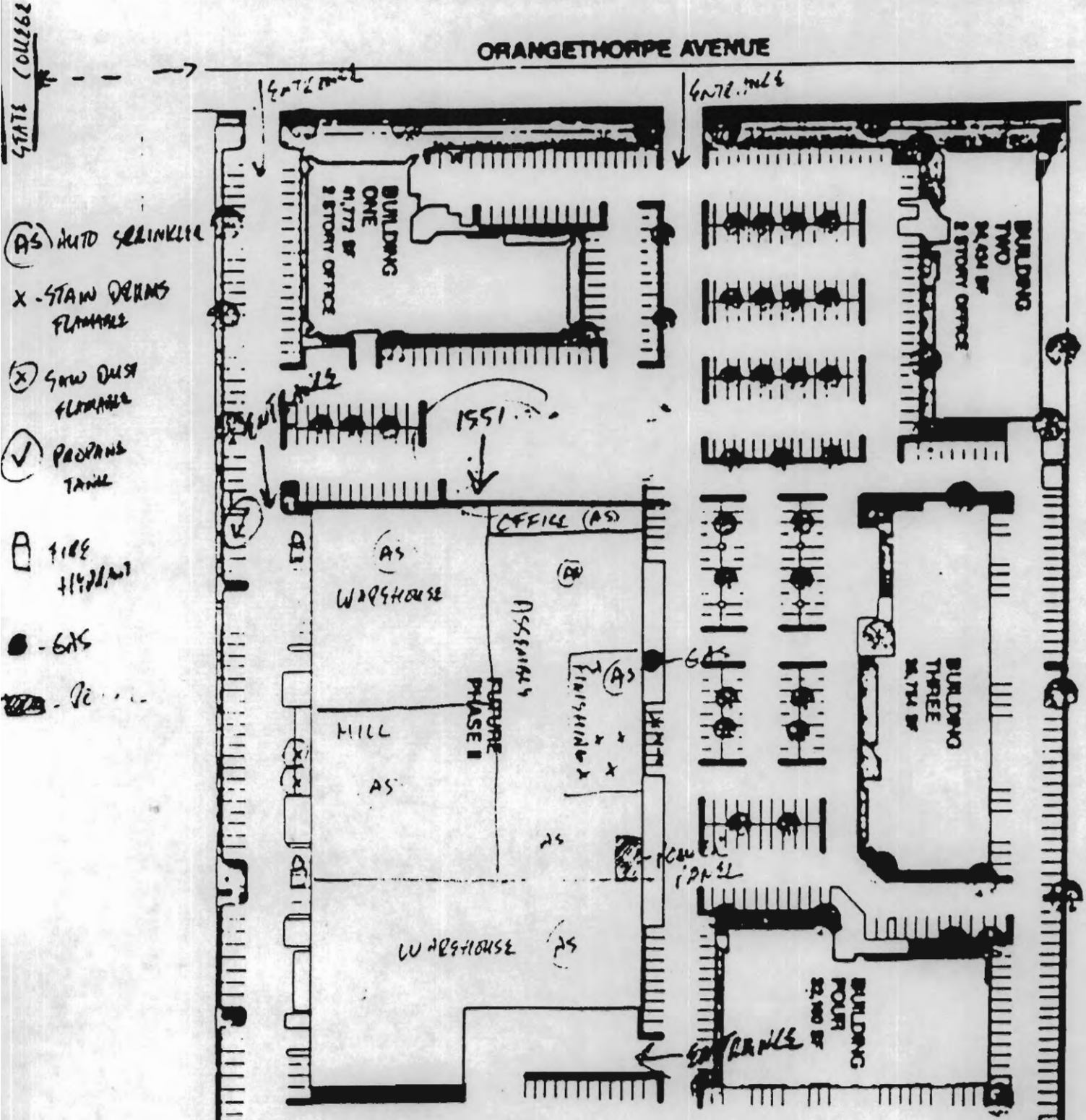
FULLERTON FIRE DEPARTMENT
BUSINESS EMERGENCY PLAN

PART V BUSINESS SITE PLAN

A. SITE LAYOUT MAP

FACILITY ADDRESS:

number	street	city
1551	E. ORANGETHORPE	FULLERTON



Reference:
FFD, 1992

Disclosure Information Deleted from the system on:

Wednesday, March 25, 1992

File # : 00150 Date Entered : 11/19/90

Business Name : Woodmill Products

Address: 1551 E Orangethorpe Ave 92631
Fullerton, Ca 92631

Bus Phone (714) 870-9050

Mailing Address :
Woodmill Products
1551 E Orangethorpe Ave
Fullerton, Ca 92631

Sic# : Dunn & Brad # : BL# : 20573

EPA # :

Contacts:

Property Owner Address

Business Description :

Closed - Empty per conversation with Inspector Thompson 3/24/92

Date Printed: 3/25/92

Woodmill Products
1551 E Orangethorpe Ave 92631

4 chemicals found for this address

File Number :

Cas # : 74-98-6 | Max Daily Amt : 300 Gallons | Gals/Lbs/CuFt

Chemical Name: **Liquified Petroleum Gas**

C	P	T	Location	Building
A	2	4	Southeast Corner of Yard	
L	2	4	Mobile, on Fork Lifts (3)	

Cas # : 67-63-0 | Max Daily Amt : 1000 Gallons | Gals/Lbs/CuFt

Chemical Name: **Sealer**

C	P	T	Location	Building
D	1	4	Area #1 - Storage Berms, North End of Yard	
D	1	4	Area #2 - Finishing Room West Side of Building	
D	1	4	Area #3 - Outside Finish Room, West Yard	

Cas # : 64742-88-7 | Max Daily Amt : 265 Gallons | Gals/Lbs/CuFt

Chemical Name: **Petroluem Naptha Solvent**

C	P	T	Location	Building
D	1	4	Area #1 - Storage Berms, North End of Yard	
D	1	4	Area #2 - Finishing Room West Side of Building	
D	1	4	Area #3 - Outside Finishing Room, West Side in Yard	

Cas # : 64742-88-7 | Max Daily Amt : 1000 Gallons | Gals/Lbs/CuFt

Chemical Name: **Petroleum Naptha Base**

C	P	T	Location	Building
D	1	4	Area #1 - Storage Berms North End of Yard	
D	1	4	Area #2 - Finishing Room West Side of Building	
D	1	4	Area #3 - Outside Finish Room, West Side of Yard	

Reference:
FFD, 2005

City of Fullerton Fire Dep nent
Commercial/Industrial Inspection/Site Report Form

Site/File Elden Collections

Date 08/01/05

☒ First Inspection ☐ Second Inspection ☐ New Facility ☐ Response to Complaint ☐ Follow up

Facility Name: Elden Collections Site Address: 1551 E. Orangethorpe Ave Business Phone: 738-8424

Contact Name: Jo Elliot Phone: 738 8424

SIC: 2426 Facility Size: ~~12,000~~ 4.56

Narrative SIC Description: Hardwood Dimensions / Flooring Mills

Is the facility covered under any other permits? (Check all that apply)

☒ Air Quality ☒ Hazmat business plan ☐ Underground storage tanks ☐ Above ground storage tanks

☒ Fire Dept. (Storage) ☒ Hazardous waste generator ☐ Other

Is the facility covered under a storm water permit? ☐ Does not need coverage ☒ No, but may need to refer to Regional Board

☐ Individual NPDES ☐ General (filed NOI) Does the facility have a SWPPP? ☐ Yes ☒ No

Facility's WDID # : _____

Facility Type: ☒ Industrial ☐ Restaurant ☐ Automotive Services ☐ Retail Gas Outlet/Automotive Dealership

OBSERVATIONS/NOTES

- Store old drums (oily rags, etc.) inside or in a contained area.
- Drainage channel in "yard" area needs to be swept.
- Have waste removal company relocate dumpster out of drainage area.
- Collect all washwater and discharge to sanitary sewer.

~~This report is furnished to the facility representative as a measure to evaluate the implemented BMP's at your facility to prevent storm water pollution.~~
Your facility may be subject to an enforcement action if the noted deficiencies are not corrected by: _____ to request reinspection to review the correction of deficiencies noted above. Please call the Fullerton Fire Department (714) 738-6500.

Storm water ordinances violated: N/A

Facility Representative Signature: Jo Elliot Date: 08/01/05

Print name of Facility Representative: JO ELLIOTT Inspector: Jason Mooney

Jason Mooney

Site/File Elk' n Collections

ACTIVITIES ASSESSMENT CHECKLIST

ACTIVITIES -Check each activity present at the site and evaluate its potential for pollutant discharge (PPD): 1 = low potential, 2 = medium potential, 3 = high potential [] Circled BMPs require your immediate attention - see back of this report.	APPLICABLE ACTIVITY Yes	No	PPD	EFFECTIVENESS RATING*
A. BUILDING MAINTENANCE BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
B. CONTAMINATED OR ERODIBLE SURFACE AREAS BMPs employed:		n/a		① ② ③ ④ ⑤
C. OUTDOOR DRAINAGE FROM INDOOR AREAS BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
D. OUTDOOR PROCESS EQUIPMENT OPERATIONS AND MAINTENANCE BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
E. CONCRETE AND ASPHALT PRODUCTION, APPLICATION, AND CUTTING BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
F. LANDSCAPE MAINTENANCE BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
G. OUTDOOR LOADING/UNLOADING OF MATERIAL BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
H. OUTDOOR STORAGE OF RAW MATERIALS/PRODUCTS/CONTAINERS BMPs employed: iron pieces	[X]	[ ]	[1]	① ② ③ ④ ⑤
I. PARKING-STORAGE AREA MAINTENANCE BMPs employed: sweeping	[ ]	[X]	[ ]	① ② ③ ④ ⑤
J. AIRPLANE MAINTENANCE AND REPAIR BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
K. VEHICLE AND EQUIPMENT FUELING BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
L. VEHICLE AND EQUIPMENT WASHING/STEAM CLEANING BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
M. PAINTING, FINISHING, and COATING of VEHICLES, BOATS, BUILDINGS, and EQUIPMENT BMPs employed: indoors, dust control	[X]	[ ]	[3]	① ② ③ ④ ⑤
N. VEHICLE AND EQUIPMENT MAINTENANCE AND REPAIR BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
O. SPILL PREVENTION AND CONTROL BMPs employed: absorbents	[X]	[ ]	[3]	① ② ③ ④ ⑤
P. WASTE HANDLING AND DISPOSAL BMPs employed: covered, bermed	[X]	[ ]	[3]	① ② ③ ④ ⑤
Q. OVER WATER ACTIVITIES BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
R. NURSERIES and GREENHOUSES BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
S. CARPET CLEANING BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
T. ANIMAL HANDLING AREAS BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
U. POOL and FOUNTAIN CLEANING BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
V. EATING and DRINKING ESTABLISHMENT BMPs employed:	[ ]	[X]	[ ]	① ② ③ ④ ⑤
M. OTHER (describe):	[ ]	[X]	[ ]	① ② ③ ④ ⑤

*① No BMPs used and stormwater pollution likely ② Some BMPs used but not effective ③ Some BMPs used and moderately effective
④ Source control BMPs used and very effective/structural BMPs needed ⑤ All necessary BMPs used and very effective

VIOLATIONS

- [X] No Violations noted on this date
- [ ] Illegal discharge(s) of pollutants
- [ ] Illegal connections
- [ ] Inadequate BMPs
- [ ] Other

Reference:
FFD, 2011

FULLERTON FIRE DEPARTMENT
CORRECTION NOTICE

312 E. Commonwealth Ave.
Fullerton, CA 92832
(714) 738-6500

Date 02/08/11

Business Name Anaheim Extrustion Company Contact Joe Sokol Phone 562/896-9519

Business Address 1551 East Orangethorpe Avenue Unit# - District 1226

THE VIOLATIONS NOTED BELOW MUST BE CORRECTED IMMEDIATELY

The first compliance reinspection will be conducted on or about 04-08-11 03/08/11. Please call (714) 738-6500 if you have any questions. Failure to make required corrections by the due date will result in an additional reinspection and a fee of $ 145.00

Mail Back Card Issued ☐

Date Cleared:	CFC:	
		ADDRESS NUMERALS/KEY BOXES/KEY GATES
	☐ 505.1	Address numerals shall be plainly visible from the street fronting the property and any alleyway serving the property.
	☒ 506.1	Key box/lock/switch is required. Order forms must be submitted to and signed by the Fire Marshal.
		FIRE PROTECTION EQUIPMENT
	☒ 901.6	A five-year certification test is required on sprinkler system/standpipe/private hydrant.
	☐ 906.1	Provide _____ extinguishers of the following type: 2A:10BC Minimum Rating with California State Fire Marshal tag.
	☐ 906.2	Extinguishers shall be serviced annually/mounted/made accessible.
	☐ 507.5.4	Access clearance shall be provided around fire-protection equipment.
	☐ 904.11.5.2	A K-type fire extinguisher is required within 30 feet of a kitchen with a deep fat fryer.
	☐ 904.11.6.4	Kitchen hood extinguishing systems shall be serviced every 6 months.
		EXITS
	☐ 1003.6	All exits and exit doors must be unobstructed.
	☐ 1008.1.9.1	Door hardware shall open without key, special knowledge or effort. Remove unapproved locking devices from doors.
	☐ 1011.1	Exit signs shall be installed/maintained at required exit doorways and where otherwise necessary to indicate the direction of egress.
	☐ 1030.7	All security bars on windows in sleeping rooms must have a release mechanism operable from the inside.
	☐ 1011.2	Exit signs shall be internally or externally illuminated.
		ELECTRICAL
	☐ 605.1	Circuit breakers may not be taped or secured in the "O
	☐ 605.5	Extension cords may not be used as a substitute for per
	☐ 605.4	Multi-plug adapters are prohibited unless equipped wit
	☐ 605.3	Minimum 36" clearance shall be provided in front of el
	☐ 605.6	Approved covers shall be provided for all switch and o
		STORAGE
	☐ 315.2.1	Storage inside buildings shall be orderly/18" below spr
	☐ 315.2.4	Storage is prohibited in attics, under floors or in concea
04/08/11	☒ H&SC	**HAZARDOUS MATERIALS** A Hazardous Materials Disclosure must be submitted f
	☐ 2703.5	Provide approved placards for building. Appropriately
	☐ 3003.5.3	Compressed gas containers, cylinders, and tanks shall be secured by an approved method to prevent falling.
		SMOKE DETECTORS
	☐ 907.2.9	Smoke detector shall be provided in every existing guest room in a hotel, motel, dwelling unit, or central hall of an apartment.
		GENERAL
	☐ 703.1	All missing ceiling tiles must be replaced. All holes in walls and/or ceiling must be repaired.
	☐ 105.1.1	Obtain permit(s) for the following: _____ In progress
04/08/11	☒	Clean up hydraulic oil spill. Properly dispose of waste.
	☐	none.

ALUMINUM EXTRUSIONS
STANDARD SHAPES
FABRICATION
ANODIZING
POWDER PAINTING

UMEX
9151 E. IMPERIAL HIGHWAY
DOWNEY, CA 90242

Universal MOLDING EXTRUSION COMPANY UMEX

JOSEPH J. SOKOL
Operations

cell - 562-896-9519
(562) 940-0300
FAX (562) 940-0883
E-MAIL: jjsokol@umextrude.com

04/08/11 **COMMENTS:** Obtain a City of Fullerton business license for this address. completed 03/08/11 All oil and oil related waste to be hauled under manifest.

PLEASE CORRECT ALL VIOLATIONS IMMEDIATELY. FAILURE TO DO SO BY THE DATE INDICATED WILL RESULT IN A SUBSEQUENT REINSPECTION AND A FEE BEING ASSESSED.

Inspector C. Thomas Thompson FFD Company/Shift Fire Prevention Received By _____

January 2011/Correction Notice White copy –Fire Prevention Yellow Copy – Owner/Operator

CT7

Telecon 1300 hr. 03-08-11

Reference:
FFD, 2013

CITY OF FULLERTON

Fire Department

February 26, 2013 File # 1687

John Wall
International Window Corporation
1551 E. Orangethorpe Ave
Fullerton, Ca 92831

Subject: Fire & Life Safety and Hazardous Materials Inspection
Subject Property Address: **1551 E. Orangethorpe Ave, Fullerton**

Dear Mr. Wall,

On February 25, 2013 a Fire & Life Safety and Hazardous Material Inspection was conducted for the subject property named above. A number of violations were identified and noted. These violations are to be brought into compliance as required by the California Fire Code, California Health & Safety Code, California Building Code, Title 19 of the California Code of Regulations, and the Fullerton Municipal Code. The following items must be corrected to meet the minimum fire and life safety requirements for this property:

1. **A five year certification test is required on sprinkler system. [CFC 901.6]**
2. **Provide Knox pad locks for exterior gates in fire lane. [CFC 506.1]**
3. **Exit signs shall be installed to indicate the direction of egress around hazardous materials storage area. [CFC 1011.1]**
4. **Maintain fire lane clear of obstruction around building. [CFC 503.2.1]**
5. **Propane cylinders shall be in cage or secured to prevent falling. [CFC 3003.5.3]**
6. **Provide NFPA 704 Placard for exterior and interor wall of hazardous materials storage room. [CFC 2703.5]**

TW 8/29/13

7. **All drums, barrels, bags, tots, or other means of storage of hazardous materials needs to be labeled. [CFC 2703.5]**
8. **55 gal or more of Hazardous Materials shall have secondary containment. [CFC 2704.2.2]**
9. **Provide approved plans for construction of hazardous materials storage and wash out room. On the plans, indicate commodity classification being stored and maximum allowable quantity per control area. [CFC 2703.1]**
10. **A Hazardous Materials Business Emergency Plan must be submitted for 55 gallons, 500 pounds, or 200 cubic feet of hazardous material to www.esubmit.ocgov.com. [H&SC 6.95]**

312 East Commonwealth Avenue, Fullerton, California 92832-2099
(714) 738-6500 • Fax (714) 738-5355 • Web Site: www.ci.fullerton.ca.us

The following permits are required permits and shall be issued with this inspection.

Permits	Permit #
Cutting and Welding	5191
Spraying and Dipping	5161
Industrial Oven	5156
Store, Handle or Use Class I	5132

Please consider this letter as a Notice to Comply. A re-inspection will be conducted on or after **March 26, 2013**. Failure to comply may result in a subsequent re-inspection fee of $145.00.

The Fullerton Fire Department appreciates your cooperation with this matter. If you have any further questions, please fell free to contact me at the Fire Prevention Bureau at (714) 738-3160, or you may email me at ThangN@fullertonfire.org.

Sincerely,

Thang Nguyen, Hazardous Materials Specialist I

Received by: emailed & mail

Business Owner, Representative Signature

Print Name

Date

Reference:
Fullerton, 2015

2015 Water Quality Report

City of Fullerton Water

Your 2015 Water Quality Report

Since 1990, California water utilities have been providing an annual Water Quality Report to their customers. **This year's report covers calendar year 2014 water quality testing**, and has been prepared in compliance with regulations called for in the 1996 reauthorization of the Safe Drinking Water Act (SDWA). The reauthorization charged the United States Environmental Protection Agency (USEPA) with updating and strengthening the tap water regulatory program.

USEPA and the State Water Resources Control Board, Division of Drinking Water (SWRCB-DDW) are the agencies responsible for establishing drinking water quality standards. To ensure that your tap water is safe to drink, USEPA and SWRCB-DDW prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. SWRCB-DDW regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. The federal Food and Drug Administration (FDA) also sets regulations for bottled water.

The City of Fullerton vigilantly safeguards its water supply and, as in years past, the water delivered to your home meets the standards required by the state and federal regulatory agencies. In accordance with the SDWA, the City monitors over 100 compounds in your water supply. This report includes only the compounds actually detected in the water.

In some cases, the City goes beyond what is required by testing for unregulated contaminants that may have known health risks. For example, the Orange County Water District (OCWD), which manages our groundwater basin, monitors our groundwater for unregulated solvents and herbicides/pesticides. Unregulated contaminant monitoring helps USEPA determine where certain contaminants occur and whether it needs to establish regulations for those contaminants.

This report contains important information about your drinking water. Translate it, or speak with someone who understands it.

يحتوي هذا التقرير على معلومات هامة عن نوعية ماء الشرب في منطقتك. يرجى ترجمته، أو ابحث التقرير مع صديق لك يفهم هذه المعلومات جيداً.

Arabic

这份报告中有些重要的信息，讲到关于您所在社区的水的品质。请您找人翻译一下，或者请能看得懂这份报告的朋友给您解释一下。

Chinese

この資料には、あなたの飲料水についての大切な情報が書かれています。内容をよく理解するために、日本語に翻訳して読むか説明を受けてください。

Japanese

이 보고서에는 귀하가 거주하는 지역의 수질에 관한 중요한 정보가 들어 있습니다. 이 것을 번역하거나 충분히 이해하시는 친구와 상의하십시오.

Korean

Este informe contiene información muy importante sobre su agua potable. Para mas información ó traducción, favor de contactar a Customer Service Representative. Telefono: (714) 738-6887.

Spanish

Bản báo cáo có ghi những chi tiết quan trọng về phẩm chất nước trong cộng đồng quý vị. Hãy nhờ người thông dịch, hoặc hỏi một người bạn biết rõ về vấn đề này.

Vietnamese

Questions about your water? Contact us for answers.

For information about this report, or your water quality in general, please contact the City of Fullerton Water Quality Specialist at (714) 738-6896. The City Council meets on the first and third Tuesdays of the month at 6:30 pm.

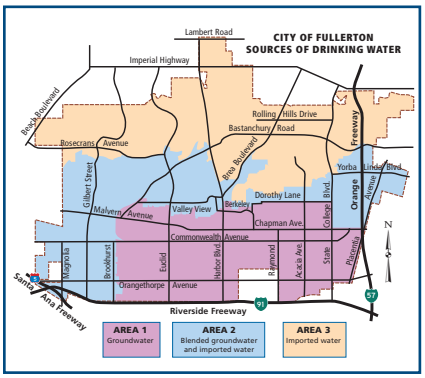
The meetings are held in the Council Chambers at City Hall, 303 W. Commonwealth Avenue, Fullerton. Please feel free to participate in these meetings.

For more information about the health effects of the listed contaminants in the following tables, call the U.S. Environmental Protection Agency hotline: (800) 426-4791.

The Quality of Your Water is Our Primary Concern

Sources of Supply

Your drinking water is a blend of mostly groundwater from the Orange County groundwater basin and also surface water imported by the Metropolitan Water District of Southern California (MWD). MWD's imported water sources are a blend of State Water Project water from northern California and water from the Colorado River Aqueduct. Your groundwater comes from a natural underground reservoir that stretches from the Prado Dam and fans across the northwestern portion of Orange County, excluding the communities of Brea and La Habra, and stretching as far south as the El Toro 'Y'.



The Area Map in this report will help you determine what source of water you are most likely to receive. Area 1 receives primarily groundwater and Area 3 imported water. Area 2 receives a mixture of groundwater and imported water.

Fullerton's water system was built with maximum flexibility. We have 11 active wells, located in the southern portion of Fullerton and north Anaheim, and 6 imported water connections. This means that under emergency, drought or other unusual conditions, the source of water to any area may change. The Area Map reflects the source of water each area receives a majority of the time.

Basic Information About Drinking Water Contaminants

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of land or through the layers of the ground it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animal and human activity.

Contaminants that may be present in source water include:

- **Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.
- **Radioactive contaminants**, which can be naturally occurring or be the result of oil and gas production or mining activities.
- **Pesticides and herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.
- **Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gasoline stations, urban stormwater runoff, agricultural application and septic systems.
- **Inorganic contaminants**, such as salts and metals, which can be naturally occurring or result from urban storm runoff, industrial or domestic wastewater discharges, oil and gas production, mining and farming.

In order to ensure that tap water is safe to drink, USEPA and the SWRCB-DDW prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. SWRCB-DDW regulations also establish limits for contaminants in bottled water that must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at (800) 426-4791.

Drinking Water Fluoridation

Fluoride has been added to U.S. drinking water supplies since 1945. Of the 50 largest cities in the U.S., 43 fluoridate their drinking water. In December 2007, MWD joined a majority of the nation's public water suppliers in adding fluoride to drinking water in order to prevent tooth decay. In line with recommendations from the SWRCB-DDW, as well as the U.S. Centers for Disease Control and Prevention, MWD adjusted the natural fluoride level in imported treated water from the Colorado River and State Project water to the optimal range for dental health of 0.7 to 1.3 parts per million.

Our local groundwater is not supplemented with fluoride. Fluoride levels in drinking water are limited under California state regulations at a maximum dosage of 2 parts per million.

There are many places to go for additional information about the fluoridation of drinking water:

U.S. Centers for Disease Control and Prevention:
www.cdc.gov/fluoridation/index.htm

State Water Resources Control Board, Division of Drinking Water
www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.shtml

For more information about MWD's fluoridation, please contact Edgar G. Dymally at (213) 217-5709 or at edymally@mwdh2o.com.

Information the EPA Would Like You to Know

Disinfectants and Disinfection Byproducts

Disinfection of drinking water was one of the major public health advances in the 20th century. Disinfection was a major factor in reducing waterborne disease epidemics caused by pathogenic bacteria and viruses, and it remains an essential part of drinking water treatment today.

Chlorine disinfection has almost completely eliminated from our lives the risks of microbial waterborne diseases. Chlorine is added to your drinking water at the source of supply (groundwater well or surface water treatment plant). Enough chlorine is added so that it does not completely dissipate through the distribution system pipes. This "residual" chlorine helps to prevent the growth of bacteria in the pipes that carry drinking water from the source into your home.

However, chlorine can react with naturally-occurring materials in the water to form unintended chemical byproducts, called disinfection byproducts (DBPs), which may pose health risks. A major challenge is how to balance the risks from microbial pathogens and DBPs. It is important to provide protection from these microbial pathogens while simultaneously ensuring decreasing health risks from disinfection byproducts. The Safe Drinking Water Act requires the U.S. Environmental Protection Agency (USEPA) to develop rules to achieve these goals.

Trihalomethanes (THMs) and Haloacetic Acids (HAAs) are the most common and most studied DBPs found in drinking water treated with chlorine. In 1979, the USEPA set the maximum amount of total THMs allowed in drinking water at 100 parts per billion as an annual running average. Effective in January 2002, the Stage 1 Disinfectants / Disinfection Byproducts Rule lowered the total THM maximum annual average level to 80 parts per billion and added HAAs to the list of regulated chemicals in drinking water.

Stage 2 of the regulation was finalized by USEPA in 2006, which further controls allowable levels of DBPs in drinking water without compromising disinfection itself. A required distribution system evaluation was completed in 2008 and a Stage 2 monitoring plan has been approved by SWRCB-DDW. Full Stage 2 compliance began in 2012. Your drinking water complies with the Stage 1 and Stage 2 Disinfectants/Disinfection Byproducts Rule.

About Lead in Tap Water

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children.

Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Fullerton is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking.

If you are concerned about lead in your water, you may wish to have your water tested.

Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline, (800) 426-4791, or at: www.epa.gov/safewater/lead.

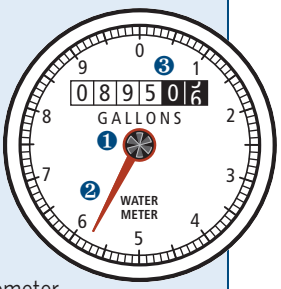
Immuno-Compromised People

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people, such as those with cancer who are undergoing chemotherapy, persons who have had organ transplants, people with HIV/AIDS or other immune system disorders, some elderly persons and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers.

How to Read Your Residential Water Meter

Your water meter is usually located between the sidewalk and curb under a cement cover. Remove the cover by inserting a screwdriver in the hole in the lid and then carefully lift the cover. The meter reads straight across, like the odometer on your car. Read only the white numbers (0895).

If you are trying to determine if you have a leak, turn off all the water in your home, both indoor and outdoor faucets, and then check the red or black triangular dial for any movement of the low-flow indicator. If there is movement, that indicates a leak between the meter and your plumbing system.



❶ **Low-Flow Indicator** — The low flow indicator will spin if any water is flowing through the meter.

❷ **Sweep Hand** — Each full revolution of the sweep hand indicates that one gallon of water has passed through the meter. The markings at the outer edge of the dial indicate tenths and hundredths of one gallon.

❸ **Meter Register** — The meter register is a lot like the odometer on your car. The numbers keep a running total of all the water that has passed through the meter. The register shown here indicates that 89,505 gallons of water has passed through this meter.

Issues in Water Quality the Could Affect Your Health

Cryptosporidium

Cryptosporidium is a microscopic organism that, when ingested, can cause diarrhea, fever, and other gastrointestinal symptoms. The organism comes from animal and/or human wastes and may be in surface water.

MWD tested their source water and treated surface water for *Cryptosporidium* in 2014 but did not detect it. If it ever is detected, *Cryptosporidium* is eliminated by an effective treatment combination including sedimentation, filtration and disinfection.

The USEPA and the federal Centers for Disease Control guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants are available from USEPA's Safe Drinking Water Hotline at (800) 426-4791 between 10 a.m. and 4 p.m. Eastern Time (7 a.m. to 1 p.m. in California).

Nitrate Advisory

At times, nitrate in your tap water may have exceeded one-half the MCL, but it was never greater than the MCL. The following advisory is issued because in 2014 we recorded nitrate measurements in the drinking water supply which exceeded one-half the nitrate MCL.

Nitrate in drinking water at levels above 45 milligrams per liter (mg/L) is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 45 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies.

If you are caring for an infant, or you are pregnant, you should ask advice from your health care provider.

Want Additional Information?

There's a wealth of information on the internet about Drinking Water Quality and water issues in general, especially the drought and conservation. Some good sites — both local and national — to begin your own research are:

City of Fullerton Water
www.cityoffullerton.com/depts/admin_serv/water_service/default.asp

U.S. Environmental Protection Agency
www.epa.gov/safewater

State Water Resources Control Board, Division of Drinking Water
www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/publicwatersystems.shtml

Metropolitan Water District of Southern California
www.mwdh2o.com

Drought and Water Conservation Tips
www.BeWaterWise.com
www.SaveOurWater.com

Rebate Information, Water Saving Resources
www.OCWaterSmart.com

Source Water Assessments

Imported (MWDSC) Water Assessment

Every five years, MWDSC is required by SWRCB-DDW to examine possible sources of drinking water contamination in its State Water Project and Colorado River source waters.

In 2012, MWDSC submitted to SWRCB-DDW its updated Watershed Sanitary Surveys for the Colorado River and State Water Project, which include suggestions for how to better protect these source waters. Both source waters are exposed to stormwater runoff, recreational activities, wastewater discharges, wildlife, fires, and other watershed-related factors that could affect water quality.

Water from the Colorado River is considered to be most vulnerable to contamination from recreation, urban/stormwater runoff, increasing urbanization in the watershed, and wastewater. Water supplies from Northern California's State Water Project are most vulnerable to contamination from urban/stormwater runoff, wildlife, agriculture, recreation, and wastewater.

USEPA also requires MWDSC to complete one Source Water Assessment (SWA) that utilizes information collected in the watershed sanitary surveys. MWDSC completed its SWA in December 2002. The SWA is used to evaluate the vulnerability of water sources to contamination and helps determine whether more protective measures are needed.

A copy of the most recent summary of either Watershed Sanitary Survey or the SWA can be obtained by calling MWDSC at (213) 217-6850.

Groundwater Assessment

An assessment of the drinking water sources for the City of Fullerton was completed in May 2002. The groundwater sources are considered most vulnerable to the following activities associated with contaminants detected in the water supply: Chemical/petroleum processing/storage, dry cleaners, gas stations, known contaminant plumes, metal plating/finishing/fabricating, and plastics/synthetics producers. The groundwater sources are considered most vulnerable to the following: Airports — maintenance/fueling areas, confirmed leaking underground storage tanks, and high density housing.

A copy of the complete assessment is available at: State Water Resources Control Board, Division of Drinking Water, 605 W. Santa Ana Blvd., Bldg 28, Rm 325, Santa Ana, CA 92701.

You may request a summary of the assessment by contacting: Water Quality Specialist, City of Fullerton, 303 W. Commonwealth Ave., Fullerton, California 92832-1775, Phone: (714) 738-6896.

2014 Metropolitan Water District of Southern California Treated Surface Water

Chemical	MCL	PHG, or (MCLG)	Average Amount	Range of Detections	MCL Violation?	Typical Source of Contaminant
Radiologicals – Tested in 2014						
Alpha Radiation (pCi/L)	15	(0)	ND	ND – 4	No	Erosion of Natural Deposits
Beta Radiation (pCi/L)	50	(0)	5	4 – 6	No	Decay of Man-made or Natural Deposits
Uranium (pCi/L)	20	0.43	3	2 – 3	No	Erosion of Natural Deposits
Inorganic Chemicals – Tested in 2014						
Aluminum (ppm)	1	0.6	0.17	0.08 – 0.31	No	Treatment Process Residue, Natural Deposits
Barium (ppm)	1	2	0.11	0.11	No	Refinery Discharge, Erosion of Natural Deposits
Fluoride (ppm) treatment-related	Control Range 0.7 – 1.3 ppm Optimal Level 0.8 ppm		0.8	0.7 – 1	No	Water Additive for Dental Health
Secondary Standards* – Tested in 2014						
Aluminum (ppb)	200*	600	170	80 – 310	No	Treatment Process Residue, Natural Deposits
Chloride (ppm)	500*	n/a	90	87 – 92	No	Runoff or Leaching from Natural Deposits
Color (color units)	15*	n/a	1	1	No	Naturally-occurring Organic Materials
Odor (threshold odor number)	3*	n/a	1	1	No	Naturally-occurring Organic Materials
Specific Conductance (µmho/cm)	1,600*	n/a	980	960 – 1,000	No	Substances that Form Ions in Water
Sulfate (ppm)	500*	n/a	230	220 – 240	No	Runoff or Leaching from Natural Deposits
Total Dissolved Solids (ppm)	1,000*	n/a	630	600 – 650	No	Runoff or Leaching from Natural Deposits
Unregulated Chemicals – Tested in 2014						
Alkalinity, total as $CaCO_3$ (ppm)	Not Regulated	n/a	120	120 – 130	n/a	Runoff or Leaching from Natural Deposits
Boron (ppm)	NL = 1	n/a	0.1	0.1	n/a	Runoff or Leaching from Natural Deposits
Calcium (ppm)	Not Regulated	n/a	72	70 – 74	n/a	Runoff or Leaching from Natural Deposits
Hardness, total as $CaCO_3$ (ppm)	Not Regulated	n/a	290	280 – 290	n/a	Runoff or Leaching from Natural Deposits
Hardness, total (grains/gallon)	Not Regulated	n/a	17	16 – 17	n/a	Runoff or Leaching from Natural Deposits
Magnesium (ppm)	Not Regulated	n/a	26	25 – 27	n/a	Runoff or Leaching from Natural Deposits
pH (pH units)	Not Regulated	n/a	8.1	8.1	n/a	Hydrogen Ion Concentration
Potassium (ppm)	Not Regulated	n/a	4.6	4.4 – 4.8	n/a	Runoff or Leaching from Natural Deposits
Sodium (ppm)	Not Regulated	n/a	94	89 – 99	n/a	Runoff or Leaching from Natural Deposits
Total Organic Carbon (ppm)	TT	n/a	2.6	2.4 – 2.9	n/a	Various Natural and Man-made Sources

ppb = parts-per-billion; **ppm** = parts-per-million; **pCi/L** = picoCuries per liter; **µmho/cm** = micromhos per centimeter; **ND** = not detected; **MCL** = Maximum Contaminant Level; **(MCLG)** = federal MCL Goal; **PHG** = California Public Health Goal; **NL** = Notification Level; **n/a** = not applicable; **TT** = treatment technique *Contaminant is regulated by a secondary standard.

Turbidity – combined filter effluent Metropolitan Water District Diemer Filtration Plant	Treatment Technique	Turbidity Measurements	TT Violation?	Typical Source of Contaminant
1) Highest single turbidity measurement	0.3 NTU	0.06	No	Soil Runoff
2) Percentage of samples less than 0.3 NTU	95%	100%	No	Soil Runoff

Turbidity is a measure of the cloudiness of the water, an indication of particulate matter, some of which might include harmful microorganisms. Low turbidity in Metropolitan's treated water is a good indicator of effective filtration. Filtration is called a "treatment technique" (TT). A treatment technique is a required process intended to reduce the level of contaminants in drinking water that are difficult and sometimes impossible to measure directly. **NTU** = nephelometric turbidity units

Unregulated Chemicals Requiring Monitoring

Chemical	Notification Level	PHG	Average Amount	Range of Detections	Most Recent Sampling Date
Chlorate (ppb)	800	n/a	53	38 – 68	2013
Chromium, Hexavalent (ppb)**	MCL = 10	0.02	0.07	0.03 – 0.12	2013
Chromium, Total (ppb)***	MCL = 50	MCLG = 100	<0.2	ND – 0.5	2014
Molybdenum, Total (ppb)	n/a	n/a	4.8	4.5 – 5.3	2014
Strontium, Total (ppb)	n/a	n/a	940	850 – 1,100	2014
Vanadium, Total (ppb)	50	n/a	2.8	2.3 – 3	2014

**Hexavalent chromium is regulated with an MCL of 10 ppb but was not detected, based on the detection limit for purposes of reporting of 1 ppb. Hexavalent chromium was included as part of the unregulated chemicals requiring monitoring.
***Total chromium is regulated with an MCL of 50 ppb but was not detected, based on the detection limit for purposes of reporting of 10 ppb. Total chromium was included as part of the unregulated chemicals requiring monitoring.

Chart Legend

What are Water Quality Standards?

Drinking water standards established by USEPA and CDPH set limits for substances that may affect consumer health or aesthetic qualities of drinking water. The chart in this report shows the following types of water quality standards:

- **Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the PHGs (or MCLGs) as is economically and technologically feasible.
- **Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Secondary MCLs** are set to protect the odor, taste, and appearance of drinking water.
- **Primary Drinking Water Standard:** MCLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.
- **Regulatory Action Level (AL):** The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements that a water system must follow.

How are Contaminants Measured?

Water is sampled and tested throughout the year. Contaminants are measured in:

- parts per million (ppm) or milligrams per liter (mg/L)
- parts per billion (ppb) or micrograms per liter (µg/L)
- parts per trillion (ppt) or nanograms per liter (ng/L)

What is a Water Quality Goal?

In addition to mandatory water quality standards, USEPA and CDPH have set voluntary water quality goals for some contaminants. Water quality goals are often set at such low levels that they are not achievable in practice and are not directly measurable. Nevertheless, these goals provide useful guideposts and direction for water management practices. The chart in this report includes three types of water quality goals:

- **Maximum Contaminant Level Goal (MCLG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by USEPA.
- **Maximum Residual Disinfectant Level Goal (MRDLG):** The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- **Public Health Goal (PHG):** The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

2014 City of Fullerton Groundwater Quality

Chemical	MCL	PHG (MCLG)	Average Amount	Range of Detections	MCL Violation?	Most Recent Sampling Date	Typical Source of Contaminant
Radiologicals							
Uranium (pCi/L)	20	0.43	3.8	ND – 7.7	No	2014	Erosion of Natural Deposits
Organic Chemicals							
1,1-Dichloroethylene (ppb)	6	10	< 0.5	ND – 1.6	No	2014	Industrial Waste Discharge
Tetrachloroethylene, PCE (ppb)	5	0.06	0.57	ND – 3.6	No	2014	Industrial Waste Discharge
Trichloroethylene, TCE (ppb)	5	1.7	< 0.5	ND – 1	No	2014	Industrial Waste Discharge
Inorganic Chemicals							
Fluoride (ppm)	2	1	0.48	0.39 – 0.57	No	2013	Erosion of Natural Deposits
Hexavalent Chromium (ppb)	10	0.02	< 1	ND – 1.4	No	2014	Erosion of Natural Deposits
Nitrate (ppm as Nitrate)	45	45	14	8.7 – 25	No	2014	Fertilizers, Septic Tanks
Nitrate+Nitrite (ppm as N)	10	10	3.2	2 – 5.6	No	2014	Fertilizers, Septic Tanks
Selenium (ppb)	50	30	< 5	ND – 7.1	No	2013	Erosion of Natural Deposits
Secondary Standards*							
Chloride (ppm)	500*	n/a	77	52 – 92	No	2013	Erosion of Natural Deposits
Specific Conductance (µmho/cm)	1,600*	n/a	870	720 – 1,000	No	2013	Erosion of Natural Deposits
Sulfate (ppm)	500*	n/a	140	110 – 160	No	2013	Erosion of Natural Deposits
Total Dissolved Solids (ppm)	1,000*	n/a	520	420 – 600	No	2013	Erosion of Natural Deposits
Turbidity (NTU)	5*	n/a	<0.1	ND – 0.2	No	2013	Erosion of Natural Deposits
Unregulated Chemicals							
Alkalinity, total as $CaCO_3$ (ppm)	Not Regulated	n/a	170	130 – 210	n/a	2013	Erosion of Natural Deposits
Bicarbonate (ppm as HCO_3)	Not Regulated	n/a	210	160 – 260	n/a	2013	Erosion of Natural Deposits
Boron (ppm)	NL = 1	n/a	0.18	ND – 0.23	n/a	2013	Erosion of Natural Deposits
Calcium (ppm)	Not Regulated	n/a	80	58 – 100	n/a	2013	Erosion of Natural Deposits
Hardness, total (grains per gallon)	Not Regulated	n/a	16	11 – 19	n/a	2013	Erosion of Natural Deposits
Hardness, total as $CaCO_3$ (ppm)	Not Regulated	n/a	270	190 – 320	n/a	2013	Erosion of Natural Deposits
Magnesium (ppm)	Not Regulated	n/a	16	12 – 26	n/a	2013	Erosion of Natural Deposits
pH (pH unit)	Not Regulated	n/a	7.9	7.8 – 7.9	n/a	2013	Erosion of Natural Deposits
Potassium (ppm)	Not Regulated	n/a	3.9	2.7 – 4.5	n/a	2013	Erosion of Natural Deposits
Sodium (ppm)	Not Regulated	n/a	69	45 – 78	n/a	2013	Erosion of Natural Deposits

ppb = parts-per-billion; **ppm** = parts-per-million; **pCi/L** = picoCuries per liter; **NTU** = nephelometric turbidity units; **ND** = not detected; **n/a** = not applicable; **NL** = Notification Level; **<** = average is less than the detection limit for reporting purposes;
MCL = Maximum Contaminant Level; **(MCLG)** = federal MCL Goal; **PHG** = California Public Health Goal; **µmho/cm** = micromho per centimeter *Contaminant is regulated by a secondary standard to maintain aesthetic qualities (taste, odor, color).

Unregulated Chemicals Requiring Monitoring

Chemical	Notification Level	PHG	Average Amount	Range of Detections	Most Recent Sampling Date
1,4-Dioxane (ppb)	1	n/a	0.23	ND – 0.42	2014
Chlorate (ppb)	800	n/a	64	ND – 130	2014
Chromium, Hexavalent (ppb)	MCL = 10	0.02	0.58	0.23 – 1.4	2014
Chromium, Total (ppb)**	MCL = 50	MCLG = 100	0.36	ND – 1.1	2014
Molybdenum, Total (ppb)	n/a	n/a	6.3	2.9 – 20	2014
Perfluoro octane sulfonic acid (ppb)	n/a	n/a	< 0.04	ND – 0.04	2014
Strontium, Total (ppb)	n/a	n/a	650	390 – 860	2014
Vanadium (ppb)	50	n/a	4.2	2.6 – 6.7	2014

**Total chromium is regulated with an MCL of 50 ppb but was not detected, based on the detection limit for purposes of reporting of 10 ppb. Total chromium was included as part of the unregulated chemicals requiring monitoring.

2014 City of Fullerton Distribution System Water Quality

Disinfection Byproducts	MCL (MRDL/MRDLG)	Average Amount	Range of Detections	MCL Violation?	Typical Source of Contaminant
Total Trihalomethanes (ppb)	80	38	8.8 – 40	No	Byproducts of Chlorine Disinfection
Haloacetic Acids (ppb)	60	18	1.6 – 19	No	Byproducts of Chlorine Disinfection
Chlorine Residual (ppm)	(4 / 4)	1.3	1.1 – 1.4	No	Disinfectant Added for Treatment
Fluoride (ppm)	2	0.7	0.5 – 1.1	No	Erosion of Natural Deposits
Aesthetic Quality					
pH (pH Units)	Not Regulated	7.9	5.1 – 8.5	No	Acidity, Hydrogen Ions
Turbidity (NTU)	5*	0.1	0.1 – 0.35	No	Erosion of Natural Deposits

Eight locations in the distribution system are tested quarterly for total trihalomethanes and haloacetic acids. Thirty locations are tested monthly for color, odor and turbidity. Color and odor were not detected in 2014.
MRDL = Maximum Residual Disinfectant Level; **MRDLG** = Maximum Residual Disinfectant Level Goal; **ND** = not detected; **NTU** = nephelometric turbidity unit; **<** = detected but average is less than the reporting limit *Contaminant is regulated by a secondary standard to maintain aesthetic qualities.

Bacterial Quality	MCL	MCLG	Highest Monthly Positive Samples	MCL Violation?	Typical Source of Contaminant
Total Coliform Bacteria	5%	0	0.6%	No	Naturally present in the environment

No more than 5% of the monthly samples may be positive for total coliform bacteria. The occurrence of 2 consecutive total coliform positive samples, one of which contains fecal coliform/*E.coli*, constitutes an acute MCL violation.

Lead and Copper Action Levels at Residential Taps

	Action Level (AL)	Health Goal	90th Percentile Value	Sites Exceeding AL / Number of Sites	AL Violation?	Typical Source of Contaminant
Lead (ppb)	15	0.2	<5	1 / 62	No	Corrosion of Household Plumbing
Copper (ppm)	1.3	0.3	0.25	0 / 62	No	Corrosion of Household Plumbing

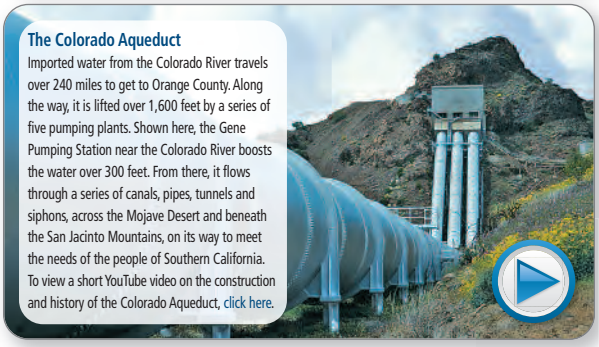
Every three years, residences are tested for lead and copper at-the-tap. The most recent set of samples was collected in 2012. Copper was found in 62 homes; none exceeded the regulatory action level (AL). Lead was found in 4 homes; one exceeded the regulatory AL.
The regulatory action level is the concentration which, if exceeded in more than ten percent of the homes tested, triggers treatment or other requirements that a water system must follow. The City of Fullerton complies with the lead and copper ALs.

Unregulated Chemicals Requiring Monitoring in the Distribution System

Chemical	Notification Level	PHG	Average Amount	Range of Detections	Most Recent Sampling Date
Chlorate (ppb)	800	n/a	78	40 – 110	2014
Chromium, Hexavalent (ppb)	MCL = 10	0.02	0.4	0.04 – 1.2	2014
Chromium, Total (ppb)**	MCL = 50	MCLG = 100	0.24	ND – 0.9	2014
Molybdenum, Total (ppb)	n/a	n/a	4.1	3.2 – 4.8	2014
Strontium, Total (ppb)	n/a	n/a	760	520 – 970	2014
Vanadium, Total (ppb)	50	n/a	3.4	2.7 – 4.4	2014

**Total chromium is regulated with an MCL of 50 ppb but was not detected, based on the detection limit for purposes of reporting of 10 ppb. Total chromium was included as part of the unregulated chemicals requiring monitoring.

The California State Water Project
The State Water Project, one of the largest water systems in the world, collects water from rivers in Northern California and transports it, through a network of canals, pipelines and tunnels, over many hundreds of miles to Southern California, where it's distributed throughout the region. Along the way, it's lifted almost 3,800 feet, with the highest single lift of 1,926 feet over the Tehachapi Mountains, which separate the San Joaquin Valley from Southern California. To view a short YouTube video that shows the length and complexity of the State Water Project, click here.



The Colorado Aqueduct
Imported water from the Colorado River travels over 240 miles to get to Orange County. Along the way, it is lifted over 1,600 feet by a series of five pumping plants. Shown here, the Gene Pumping Station near the Colorado River boosts the water over 300 feet. From there, it flows through a series of canals, pipes, tunnels and siphons, across the Mojave Desert and beneath the San Jacinto Mountains, on its way to meet the needs of the people of Southern California. To view a short YouTube video on the construction and history of the Colorado Aqueduct, click here.

The Need to Conserve Has Never Been Greater

As California enters its fourth year of drought, water conservation has become vitally important for all of us. The State Water Resources Control Board voted to approve water reduction mandates that require Fullerton to reduce water use, based on 2013 data, by 28%. There are many areas in and around our homes where we can save water, particularly outdoors, where our gardens and lawns receive almost 60% of the water we use. In order to reach the 28% reduction goal, we encourage that residents reduce all outdoor watering by half. To learn more about the drought or to find useful tips for how to conserve water, visit:

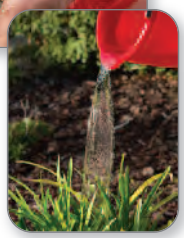
www.fullertonwaterconservation.com • www.SaveOurWater.com
or www.BeWaterWise.com

To learn about programs and devices that can help save water, along with information on rebates for these water saving resources, visit:

www.SoCalWaterSmart.com

To view a short YouTube video on multiple ways to conserve water, click here.

Conservation Tips for Inside Your Home…



Collect water used to wash fruits and vegetables:
Use it to water your houseplants

Don't run water to thaw food:
Defrost in the refrigerator

Install aerators on the kitchen faucet:
Reduce flow to less than 1 gallon per minute

Turn off the water while you brush your teeth:
Saves up to 2.5 gallons per minute

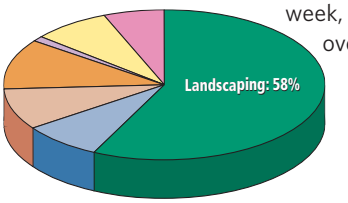
Spend only 5 minutes in the shower:
Saves up to 8 gallons each time

Install low-flow shower heads:
Saves 2.5 gallons per shower

Plug the sink instead of running water to rinse your razor:
Saves up to 300 gallons a month

How Residential Water is Used in Orange County

Outdoor watering of lawns and gardens makes up approximately 60% of home water use. By cutting your outdoor watering by 1 or 2 days a week, you can dramatically reduce your overall water use.



- Showers & Baths: 8%
- Clothes Washers: 9%
- Toilets: 11%
- Dishwashers: 1%
- Leaks: 7%
- Faucets: 6%

Data is representative of average consumption; your water usage may vary.

…and More Tips for Outside Your Home

Check your sprinkler system for leaks, overspray and broken sprinkler heads and repair promptly:
Saves up to 500 gallons per month

Use a broom instead of a hose:
Saves up to 150 gallons each time

Water your plants in the early morning or evening:
Saves up to 25 gallons each time

Remove the turf from your yard:
Saves about 42 gallons per square foot/per year

Rain barrels: ***Saves about 600 gallons per year***

Rotating nozzles for pop-up sprays:
Uses 20% less water than conventional sprinkler heads

Additional water saving steps and devices are also available, and some of these are eligible for substantial rebates. Consider replacing your lawn with drought tolerant plants, synthetic turf, or permeable hardscape. Add rotating sprinkler nozzles,or a drip line to enhance your automated irrigation system. And mulch. Hundreds of gallons a year can be saved by using organic mulch.

For complete rebate information for these water saving resources, visit: **www.SoCalWaterSmart.com**.

Talk to your family and friends about saving water.
If everyone does a little, we all benefit a lot.

City of Fullerton Water Helpline: (714) 738-6744, or visit www.fullertonwaterconservation.com

Reference:
GeoTracker, 2015

STATE WATER RESOURCES CONTROL BOARD
GEOTRACKER

FULLERTON BUSINESS PARK (SLT8R2213999) - (MAP)

SIGN UP FOR EMAIL ALERTS

1551 EAST ORANGETHORPE AVENUE
FULLERTON, CA
ORANGE COUNTY
CLEANUP PROGRAM SITE
PRINTABLE CASE SUMMARY / CSM REPORT

CLEANUP OVERSIGHT AGENCIES
ORANGE COUNTY *(LEAD) - CASE #: 94IC29*
SANTA ANA RWQCB (REGION 8) *(LEAD) - CASE #: SLT8R221*

Regulatory Profile

CLEANUP STATUS - DEFINITIONS

COMPLETED - CASE CLOSED AS OF 12/19/1995 - CLEANUP STATUS HISTORY

POTENTIAL CONTAMINANTS OF CONCERN
VOLATILE ORGANIC COMPOUNDS

POTENTIAL MEDIA AFFECTED
NONE SPECIFIED

FILE LOCATION
LOCAL AGENCY

BENEFICIAL USE
NONE SPECIFIED

DWR GROUNDWATER SUB-BASIN NAME
Coastal Plain Of Orange County (8-1)

RB WATERSHED NAME
San Gabriel River - Anaheim (845.61)

Site History
Orange County Lead site

Cleanup Action Report
NO CLEANUP ACTIONS EXIST

Regulatory Activities

* Indicates a revised due date

	ACTION TYPE	ACTION	ACTION DATE	RECEIVED / ISSUE DATE
[VIEW DOCS]	*OTHER REGULATORY ACTIONS*	Closure/No Further Action Letter	12/15/1995	12/15/1995
	LEAK ACTION	Leak Reported	1/2/1965	

* DENOTES A SUBMITTAL WAS AUTO-RECEIVED

Site Maps and Boring Logs (GEO_MAP and GEO_BORE)
NO SITE MAP SUBMITTALS FOUND FOR THIS FACILITY.

Site Documents

TITLE	TYPE	SUBMITTED BY	DOCUMENT DATE	SIZE
SITE CLOSURE	CLOSURE/NO FURTHER ACTION LETTER	DEBI NEY (REGULATOR)	12/15/1995	

Monitoring Reports
NO MONITORING REPORT SUBMITTALS FOUND FOR THIS FACILITY.

PUBLIC PARTICIPATION

CATEGORY

CATEGORY 1 - INFO

COMMUNITY INVOLVEMENT DOCUMENTS

NO COMMUNITY INVOLVEMENT DOCUMENTS HAVE BEEN UPLOADED

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0.4375 seconds

CSM REPORT FOR PUBLIC NOTICING

PROJECT INFORMATION (DATA PULLED FROM GEOTRACKER) - MAP THIS SITE

SITE NAME / ADDRESS	STATUS	STATUS DATE	RELEASE REPORT DATE	AGE OF CASE	CLEANUP OVERSIGHT AGENCIES
FULLERTON BUSINESS PARK (Global ID: SLT8R2213999) 1551 East ORANGETHORPE AVENUE FULLERTON, CA	Completed - Case Closed	12/19/1995	1/2/1965	50	ORANGE COUNTY *(LEAD) - CASE #: 94IC29* SANTA ANA RWQCB (REGION 8) *(LEAD) - CASE #: SLT8R221*

SITE HISTORY
Orange County Lead site

RESPONSIBLE PARTIES

NAME	ORGANIZATION	ADDRESS	CITY	EMAIL
BLANK RP	BLANK RP2036		BCP UNKNOWN	

CLEANUP ACTION INFO

NO CLEANUP ACTIONS HAVE BEEN REPORTED

RISK INFORMATION

VIEW CASE REVIEWS

CONTAMINANTS OF CONCERN	CURRENT LAND USE	BENEFICIAL USE	DISCHARGE SOURCE	DATE REPORTED	STOP METHOD	NEARBY / IMPACTED WELLS
				1/2/1965		0

FREE PRODUCT	OTHER CONSTITUENTS	NAME OF WATER SYSTEM	LAST REGULATORY ACTIVITY	LAST ESI UPLOAD	LAST EDF UPLOAD	EXPECTED CLOSURE DATE	MOST RECENT CLOSURE REQUEST
			12/15/1995				

CDPH WELLS WITHIN 1500 FEET OF THIS SITE

WELL NAME	STATE WELL #	STATUS	SOURCE	# TIMES SAMPLED	DIST TO WELL
KIMBERLY WELL 01A	3010010-021	Active Raw	G	85	1307 feet

CALCULATED FIELDS (BASED ON LATITUDE / LONGITUDE)

APN **GW BASIN NAME**
Coastal Plain Of Orange County (8-1)

WATERSHED NAME
San Gabriel River - Anaheim (845.61)

COUNTY
Orange

PUBLIC WATER SYSTEM(S)
- **METROPOLITAN WATER DIST. OF SO. CAL.** - P.O. BOX 54153, LOS ANGELES, CA 90054

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN GROUNDWATER

VIEW ESI SUBMITTALS

NO GROUNDWATER DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

MOST RECENT CONCENTRATIONS OF PETROLEUM CONSTITUENTS IN SOIL

VIEW ESI SUBMITTALS

NO SOIL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

MOST RECENT GEO_WELL DATA

VIEW ESI SUBMITTALS

NO GEO_WELL DATA HAS BEEN SUBMITTED TO GEOTRACKER ESI FOR THIS SITE

Reference:
GeoTracker, 2016

Note: This document is confidential and is included in the confidential information packet.

Reference:
Google, 2015

Arnold Engineering
1551 East Orangethorpe Ave.
Fullerton, CA 92831
Legend
S Acacia Ave
Arnold Engineering
E Orangethorpe A
N
600 ft
Google earth
©2015 Google

Reference:
GSWC, 2015

Golden State
Water Company
A Subsidiary of American States Water Company

2015

Placentia Water System

Consumer Confidence Report
on Water Quality for 2014

Providing Quality Drinking Water in California Since 1929

Golden State Water Company is pleased to present our Annual Water Quality Report for 2014.

Our team of more than 550 water professionals is committed to ensuring you have reliable, high-quality water service available whenever you need it. Bringing you clean drinking water is serious business.

Golden State Water strictly adheres to federal and state drinking water quality guidelines required by the United States Environmental Protection Agency (USEPA), the State Water Resources Control Board's Division of Drinking Water (DDW) and the California Public Utilities Commission (CPUC). To ensure the quality of your drinking water, we routinely sample to monitor water quality, testing for more than 230 regulated and unregulated elements in our water distribution systems. In 2014 alone, we invested more than half a million dollars on laboratory testing to meet regulatory standards.

If drinking water standards are ever compromised, we are required to take immediate action, notify customers in timely fashion and restore normal service.

We pride ourselves on getting the job done right. Our team of experts is equipped to provide customers with the most efficient and effective service possible. Golden State Water strives to constantly improve our water production and delivery systems and adequately maintain wells, pumps and pipelines. Our philosophy is to invest in comprehensive preventive maintenance programs so our water infrastructure reliably provides you with high-quality drinking water, 24 hours a day, seven days a week.

Our customers are our top priority and we strive to provide the latest news and updates about their water service. Golden State Water's Customer Service Center representatives are available around-the-clock to answer your water quality questions and address your concerns. We encourage customers to visit www.gswater.com to learn more about your customer service area, water quality, conservation rebates and water-use efficiency tips.

Given current drought conditions and the forecast for continued dry conditions, water remains a critical issue and Californians must stay diligent with their efforts to reduce water usage at their homes and businesses. We encourage customers to visit gswater.com/drought to learn more about the state's water-use restrictions and conservation goals, as well as resources to help improve your water-use efficiency.

On behalf of the men and women at Golden State Water who serve you, thank you for providing us the opportunity to be your water provider. Please call our 24-hour Customer Service Center with any questions or feedback about this report at 1-800-999-4033.

Sincerely,

Robert Sprowls
President and Chief Executive Officer
Golden State Water Company

Ken Vecchiarelli
General Manager, Orange County District
Golden State Water Company

About the Company

Golden State Water Company, a subsidiary of American States Water Company (AWR), provides water service to approximately one million Californians located within 75 communities throughout 10 counties in Northern, Coastal and Southern California. The Company also distributes electricity to more than 24,000 customers in the Big Bear recreational area of California. AWR's contracted services subsidiary, American States Utility Services, Inc., provides operations, maintenance and construction management services for water and wastewater systems located on military bases throughout the country.

Drought in California

California recently entered its fourth consecutive dry year, and Golden State Water is asking all customers to use water responsibly. We encourage customers to visit gswater.com/drought to learn more about the state's water-use restrictions and reduction goals, as well as resources to help improve your water-use efficiency.

Thanks to years of proactive planning and continued long-term investments in water infrastructure, Golden State Water (working collaboratively with regional wholesale water suppliers) has maintained a stable water supply for our customers during this unprecedented drought.

Golden State Water Company will continue working closely with the communities we serve to ensure they are making informed water-use decisions to meet all approved reduction goals.

Where Does My Water Come From?

Water delivered to customers in the Placentia System is a blend of groundwater pumped from the Orange County Groundwater Basin, and imported water from the Colorado River Aqueduct and the State Water Project (imported and distributed by the Metropolitan Water District of Southern California). The Orange County Groundwater Basin stretches 350 square miles from the Orange County line at Seal Beach and Long Beach, along the coast down to the El Toro "Y" and east to Yorba Linda.

Glossary of Terms

Maximum Contaminant Level (MCL)
The highest level of a contaminant that is allowed in drinking water. Primary MCLs are set as close to the public health goals and maximum contaminant level goals as is economically and technologically feasible. Secondary MCLs are set to protect the odor, taste and appearance of drinking water.

California Notification Level (NL)
Non-regulatory, health-based advisory levels established by the Division of Drinking Water (DDW) for contaminants in drinking water for which an MCL has not been established.

Maximum Contaminant Level Goal (MCLG)
The level of contaminant in drinking water below which there is no known or expected risk to health. Maximum contaminant level goals are set by the United States Environmental Protection Agency (USEPA).

Maximum Residual Disinfectant Level (MRDL)
The highest level of a disinfectant allowed in drinking water. There is convincing evidence that the addition of a disinfectant is necessary for control of microbial contaminants.

Maximum Residual Disinfectant Level Goal (MRDLG)
The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Primary Drinking Water Standard (PDWS)
MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements and water treatment requirements.

Public Health Goal (PHG)
The level of a contaminant in drinking water below which there is no known or expected risk to health. Public health goals are set by the California Environmental Protection Agency (CalEPA).

Regulatory Action Level (AL)
The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Cross Connection Control Program

Golden State Water Company's Cross Connection Control Program provides a level of certainty that the water in the company's distribution system is protected from possible backflow of contaminated water from commercial or industrial customers' premises. For additional information, visit http://www.gswater.com/protecting-our-drinking-water/.

If You Have Questions – Contact Us

For information about your water quality or to find out about upcoming opportunities to participate in public meetings, please contact our 24-hour Customer Service Center at 1-800-999-4033. Visit us online at www.gswater.com or email us at customerservice@gswater.com.

Este informe contiene información muy importante sobre su agua de beber. Tradúzcalo o hable con alguien que lo entienda bien.

For People with Sensitive Immune Systems

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised people, such as those individuals with cancer undergoing chemotherapy, those who have undergone organ transplants, those with HIV/AIDS or other immune system disorders, some elderly populations, and infants, can be particularly at risk from infections. These people should seek advice from their health care providers.

The USEPA and Centers for Disease Control issue guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants. To obtain a copy of these guidelines, please call the USEPA's Safe Drinking Water Hotline at 1-800-426-4791.

Connect with us to learn more!

Visit **www.gswater.com** to learn how to:

- Access the latest Water Quality Report for your area
- Get the latest updates and news regarding the drought and state/local restrictions
- Learn more about water-use efficiency, including programs and rebates in your area
- Understand your water bill and learn about payment options
- Obtain information about programs for low-income customers (CARW)
- Sign up to receive email updates about your water service.

For additional information, please contact our 24-hour Customer Service Center at **1-800-999-4033** or email us at customerservice@gswater.com.

Measurements

Water is sampled and tested consistently throughout the year to ensure the best possible quality.

Contaminants are measured in:

- Parts per million (ppm) or milligrams per liter (mg/L)
- Parts per billion (ppb) or micrograms per liter (µg/L)
- Parts per trillion (ppt) or nanograms per liter (ng/L)
- Grains per gallon (grains/gal) – A measurement of water hardness often used for sizing household water softeners. One grain per gallon is equal to 17.1 mg/L of hardness.
- MicroSiemens per centimeter (µS/cm) – A measurement of a solution's ability to conduct electricity
- Nephelometric Turbidity Units (NTU) – A measurement of the clarity of water. Turbidity in excess of 5 NTU is noticeable to the average person.
- PicoCuries per liter (pCi/L) – A measurement of radioactivity in water.

If this is difficult to imagine, think about these comparisons:

Parts per million:	**Parts per billion:**	**Parts per trillion:**
1 second in 12 days	1 second in 32 years	1 second in 32,000 years
1 inch in 16 miles	1 inch in 16,000 miles	1 inch in 16 million miles
1 drop in 14 gallons	1 drop in 14,000 gallons	10 drops in enough water to fill the Rose Bowl

YOUR WATER MEETS ALL CURRENT FEDERAL AND STATE REQUIREMENTS

Placentia Water System – Source Water Quality

Primary Standards - Health Based (units)	Primary MCL	PHG (MCLG)	Range of Detection	Average Level	Most Recent Sampling Date	Typical Source of Constituent
Turbidity						
Highest single measurement of the treated surface water (NTU)	TT = 1.0	n/a	n/a	0.06	2014	Soil runoff
Lowest percent of all monthly readings less than 0.3 NTU (%)	TT = 95	n/a	n/a	100%	2014	Soil runoff
Inorganic Constituents						
Aluminum (mg/L)	1	0.6	ND - 0.31	ND	2014	Erosion of natural deposits; residue from some surface water treatment processes
Barium (mg/L)	1	2	ND - 0.112	ND	2014	Discharges of oil drilling wastes and from metal refineries; erosion of natural deposits
Fluoride (mg/L)	2.0	1	0.27 - 1.3	0.5	2014	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
Hexavalent Chromium (µg/L)	10	0.02	ND - 1.6	ND	2014	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits
Nitrate [as NO3] (mg/L)	45	45	ND - 33.4	9.3	2014	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Selenium (µg/L)	50	30	ND - 7.7	ND	2014	Discharge from petroleum, glass, and metal refineries; erosion of natural deposits; discharge from mines and chemical manufacturers; runoff from livestock lots (feed additive)
Radioactive Constituents						
Gross Alpha Activity (pCi/L)	15(a)	(0)	ND - 7.72	ND	2014	Erosion of natural deposits
Gross Beta Activity (pCi/L)	50(b)	(0)	ND - 6	ND	2014	Decay of natural and manmade deposits
Uranium (pCi/L)	20	0.43	ND - 6.58	3	2014	Erosion of natural deposits
Secondary Standards - Aesthetic (units)	**Secondary MCL**	**PHG (MCLG)**	**Range of Detection**	**Average Level**	**Most Recent Sampling Date**	**Typical Source of Constituent**
Aluminum (µg/L)	200	n/a	ND - 310	ND	2014	Erosion of natural deposits; residue from some surface water treatment processes
Color (units)	15	n/a	ND - 25 (c)	2	2014	Naturally-occurring organic materials
Chloride (mg/L)	500	n/a	25.7 - 121	85	2014	Runoff/leaching from natural deposits; seawater influence
Odor---Threshold (units)	3	n/a	ND - 32 (c)	1	2014	Naturally-occurring organic materials
Specific Conductance (uS/cm)	1600	n/a	269 - 1300	880	2014	Substances that form ions when in water; seawater influence
Sulfate (mg/L)	500	n/a	22.8 - 241	152	2014	Runoff/leaching from natural deposits; industrial wastes
Turbidity (units)	5	n/a	ND - 5.4 (c)	0.8	2014	Soil runoff
Total Dissolved Solids (mg/L)	1000	n/a	142 - 772	540	2014	Runoff/leaching from natural deposits
Other Parameters (units)	**Notification Level**	**PHG (MCLG)**	**Range of Detection**	**Average Level**	**Most Recent Sampling Date**	**Typical Source of Constituent**
Alkalinity (mg/L)	n/a	n/a	49.8 - 237	161	2014	
Calcium (mg/L)	n/a	n/a	15 - 104	75	2014	
Hardness [as CaCO3] (mg/L)	n/a	n/a	56.2 - 383	280	2014	The sum of polyvalent cations present in the water, generally magnesium and calcium; the cations are usually naturally occurring
Hardness [as CaCO3] (grains/gal)	n/a	n/a	3.28 - 22.4	16	2014	
Magnesium (mg/L)	n/a	n/a	4.7 - 41.7	22	2014	
pH (pH units)	n/a	n/a	7.4 - 8.5	7.8	2014	
Potassium (mg/L)	n/a	n/a	2.5 - 4.8	3.8	2014	
Sodium (mg/L)	n/a	n/a	27.4 - 125	76	2014	Refers to the salt present in the water and is generally naturally occurring
Unregulated Drinking Water Constituents (units)	**Notification Level**	**PHG (MCLG)**	**Range of Detection**	**Average Level**	**Most Recent Sampling Date**	**Typical Source of Constituent**
Vanadium (µg/L)	50	n/a	ND - 6.4	3.5	2013	
Molybdenum (µg/L)	n/a	n/a	4.3 - 49.9	16	2013	
Strontium (µg/L)	n/a	n/a	144 - 1020	860	2013	
Chlorate (µg/L)	800	n/a	39.7 - 691	114	2013	

Placentia Water System – Distribution Water Quality

Microbiological Constituents (units)	Primary MCL	PHG (MCLG)	Value		Most Recent Sampling Date	Typical Source of Constituent
Total Coliform Bacteria ≥40 Samples/ Month (Present / Absent)	More than 5% of monthly samples are positive	(0)	Highest percent of monthly samples positive was 2 %		2014	Naturally present in the environment
Disinfection Byproducts and Disinfectant Residuals (units)	**Primary MCL (MRDL)**	**PHG (MRDLG)**	**Range of Detection**	**Average Level**	**Most Recent Sampling Date**	**Typical Source of Constituent**
Chlorine [as Cl2] (mg/L)	(4.0)	(4)	0.27 - 2.7	2.0	2014	Drinking water disinfectant added for treatment
HAA5 [Total of Five Haloacetic Acids] (µg/L)	60	n/a	ND - 20	16	2014	Byproduct of drinking water disinfection
TTHMs [Total of Four Trihalomethanes] (µg/L)	80	n/a	1.1 - 37	38	2014	Byproduct of drinking water disinfection
Inorganic Constituents (units)	**Action Level**	**PHG (MCLG)**	**Sample Data**	**90th % Level**	**Most Recent Sampling Date**	**Typical Source of Constituent**
Copper (mg/L)	1.3	0.3	None of the 30 samples collected exceeded the action level.	0.14	2013	Internal corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives

(a) MCL is based on Gross Alpha minus Uranium.

(b) DDW considers 50 pCi/L to be the level of concern for beta particles.

(c) Data reported is prior to chlorination or other process and is not necessarily representative of water received by customers

ND = Not Detected CaCO3 = Calcium Carbonate

Source Water Assessment

GSWC conducted a source water assessment from 2002 through 2003 for each groundwater well serving the customers of its Placentia System.

Groundwater sources are considered most vulnerable to the following activities not associated with detected contaminants: confirmed leaking underground storage tanks, gas stations and sewer collection systems.

A copy of the assessment may be viewed at:
DDW Santa Ana District Office
605 W. Santa Ana Blvd., Room 325, Santa Ana, CA 92701
or
Golden State Water Company, Anaheim Office
1920 W. Corporate Way, Anaheim, CA 90801

You may request a summary of the assessment be sent to you by contacting:

DDW Santa Ana District Office at 1-714-558-4410

For more details, contact Mark Johnson, Water Quality Engineer, at 1-800-999-4033.

In December 2002, the Metropolitan Water District of Southern California (MWD) completed a source water assessment of its Colorado River and State Water Project supplies.

Colorado River supplies are considered to be most vulnerable to the following: increasing urbanization in the watershed, recreation, urban/ stormwater runoff, and wastewater.

State Water Project supplies are considered to be most vulnerable to the following: agriculture, recreation, urban/ stormwater runoff, wastewater, and wildlife.

A copy of the assessment can be obtained by contacting MWD by phone at 1-213-217-6850, option 3.

Laboratory Analyses

Through the years, we have taken thousands of water samples to determine the presence of any radioactive, biological, inorganic, volatile organic, or synthetic organic contaminants in your drinking water. The table we provide shows only detected contaminants in the water.

Even though all the substances listed here are under the Maximum Contaminant Level (MCL), we feel it is important that you know exactly what was detected and how much of these substances were present in your water. Compliance (unless otherwise noted) is based on the average level of concentration below the MCL. The state allows us to monitor for some contaminants less than once per year because the concentrations do not change frequently. Some of our data, while representative, is more than a year old.

Lead — If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. Golden State Water is responsible for providing high-quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to two minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information about lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at www.epa.gov/safewater/lead.

Fluoridation — Fluoride has been added to the water that GSWC purchases from Metropolitan Water District of Southern California (MWD). Customers should see no difference in the taste, color or odor of their water as a result of fluoridation. Fluoridation does not change the way you normally use water for fish, pets, or cooking. Parents and guardians of children who receive fluoride supplements should consult the child's doctor or dentist. For information regarding fluoridation of your water, please contact MWD at 1-213-217-6850, option 2 or visit the Department of Drinking Water's fluoridation website at www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.shtml.

Chloramination — The water purchased by GSWC from Metropolitan Water District of Southern California (MWD) contains chloramine. Chloramine is added to the water for public health protection. Chloraminated water is safe for people and animals to drink, and for all other general uses. Three special user groups, including kidney dialysis patients, aquarium owners, and businesses or industries that use water in their treatment process, must remove chloramine from the water prior to use.

Hospitals or dialysis centers should be aware of chloramine in the water and should install proper chloramine removal equipment, such as dual carbon adsorption units. Aquarium owners can use readily available products to remove or neutralize chloramine. Businesses and industries that use water in any manufacturing process or for food or beverage preparation should contact their water treatment equipment supplier regarding specific equipment needs.

Should you have any questions or concerns regarding chloramine in your water, please contact MWD at 1-213-217-6850, option 3.

Aluminum — The secondary MCL for aluminum is set for aesthetic reasons and there is no health concern associated with the aluminum levels in this water system.

Nitrate — Nitrate in drinking water at levels above 45 mg/L is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of the infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 45 mg/L may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should ask for advice from your health care provider.

Odor, Color — The secondary MCLs for odor and color are set for aesthetic reasons and there are no health concerns associated with the odor or color levels in this water system.

Turbidity — Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of the effectiveness of surface water filtration.

Unregulated Contaminant Monitoring — Monitoring for unregulated contaminants helps the USEPA and the DDW to determine where certain contaminants occur and whether the contaminants need to be regulated.

Risk to Tap and Bottled Water

Drinking water, including bottled water, may reasonably be expected to contain small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the USEPA's Safe Drinking Water Hotline at 1-800-426-4791.

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the layers in the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, which can pick up substances resulting from the presence of animal or human activity.

To be certain that tap water is safe to drink, the USEPA and the DDW prescribe regulations limiting the amount of contaminants in water provided by public water systems. United States Food and Drug Administration (USFDA) and DDW regulations also provide the same public health protection by establishing limits for contaminants in bottled water.

Contaminants in Drinking Water Sources May Include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife
- Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, and farming
- Pesticides and herbicides that may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff and septic systems
- Radioactive contaminants that can be naturally occurring or be the result of oil and gas production and mining activities

Hydrant Flushing

Hydrant flushing is an essential maintenance procedure that all water providers must perform periodically ensure the delivery of water that meets state and federal drinking water standards.

Even in drought conditions, flushing is a necessary part of maintaining the water system and the quality of the water within it. Golden State Water has modified procedures, given the current drought in California, to minimize the amount of water released during flushing activities. Water used for flushing represents less than 1 percent of the total water usage in each of our water systems.

For more information about hydrant flushing, visit http://www.gswater.com/flushing-info/

Reference:
HWTS, 2014a

DTSCNet

Department of Toxic Substances Control

HWTS - Calif. Waste Code By Year Matrix

EPA ID: CAT000624668 **Name:** ARNOLD MAGNETICS & ELECTRONICS
Entity: Generator

Calif. Code	*Description*	*Weight (in Tons)*
		1993
121	ALKALINE SOLUTION (PH>=12.5) W/ METALS	0.07500
214	UNSPECIFIED SOLVENT MIXTURE	14.50900
241	TANK BOTTOM WASTE	8.34000
352	OTHER ORGANIC SOLIDS	0.02080
541	PHOTOCHEMICALS / PHOTOPROCESSING WASTE	0.45870
	TOTALS	**23.40350**

Reference:
HWTS, 2014b

DTSCNet

Department of Toxic Substances Control

HWTS - Calif. Waste Code By Year Matrix

EPA ID: CAC000978640 **Name:** RED EAGLE PROPERTIES LTD.
Entity: Generator

Calif. Code	*Description*	*Weight (in Tons)*
		1994
221	WASTE OIL AND MIXED OIL	7.60000
	TOTALS	**7.60000**

Reference:
HWTS, 2014c

DTSCNet

Department of Toxic Substances Control

HWTS - Calif. Waste Code By Year Matrix

EPA ID: CAC002663474 **Name:** UNIVERSAL MOLDING CO INC
Entity: Generator

Calif. Code	*Description*	*Weight (in Tons)*
		2011
221	WASTE OIL AND MIXED OIL	0.83600
352	OTHER ORGANIC SOLIDS	1.00000
	TOTALS	**1.83600**

Reference:
HWTS, 2014d

DTSCNet

Department of Toxic Substances Control

HWTS - RCRA Waste Code By Year Matrix

EPA ID: CAL000373262 **Name:** UNIVERSAL MOLDING CO
Entity: Generator

RCRA Code	*Description*	*Weight (in Tons)*
		2013
D007	Chromium	2.52840
	TOTALS	**2.52840**

Reference:
KEE, 2006

K E Environmental

6727 Greenleaf Avenue, Whittier, CA 90601 ● (562) 698-5338 ● Fax:562) 698-6358

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Industrial Property
1551 East Orangethorpe Avenue
Fullerton, CA 92831

KEE Project Number 6023

Prepared for

Community Bank
790 East Colorado Boulevard
Pasadena, California 91101
AD# 2006-07-09

Prepared by

K E Environmental
6727 Geenleaf Avenue
Whittier, California 90601

October 7, 2006

www.keenvironmental.net

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EXHIBIT
25

K E Environmental

6727 Greenleaf Avenue, Whittier, CA 90601 • (562) 698-5338 • Fax:562) 698-6358

October 7, 2006

Community Bank
790 East Colorado Boulevard
Pasadena, California 91101

Attention: Mr. David Wright

SUBJECT: PHASE I ENVIRONMENTAL SITE ASSESSMENT
Industrial Property
1551 East Orangethorpe Avenue
Fullerton, CA 92831

Dear Mr. Wright:

In accordance with your request and authorization, K E Environmental (KEE) has prepared the attached Phase I Environmental Site Assessment (ESA) Report for the above referenced property. This investigation was conducted by KEE and consisted solely of the activities described herein in Section 1.1, Scope of Work. The findings, conclusions, and recommendations are subject to the limitations contained within Section 10.0, Limitations.

Should you have any questions regarding this report, please do not hesitate to contact the undersigned at your convenience. KEE appreciates the opportunity to be of service to Community Bank.

Respectfully Submitted,
K E Environmental

Peter Martin
Professional Geologist
PG # 4561

Kent Green
Project Geologist

EXECUTIVE SUMMARY

Community Bank (CB) retained K E Environmental (KEE) to conduct a Phase I Environmental Site Assessment (ESA) on the industrial property located at 1551 East Orangethorpe Avenue, Fullerton, California (the Site). The purpose of this ESA was to investigate for potential sources that may pose adverse environmental impact to the Site, due to the presence of past or present, known or suspected hazardous materials and/or wastes on the Site, or in the vicinity of the Site. This due diligence assessment included reconnaissance of the Site and surrounding properties, review of aerial photography, city directories, and federal, state, and local regulatory agency records. This report presents KEE's findings and conclusions.

Based on the information obtained and reviewed by KEE during the performance of this ESA, we conclude the following:

- The Subject Property, located at 1551 E. Orangethorpe Avenue, Fullerton, California, is situated in an industrial area of Fullerton and covers approximately 4.562 acres. The Site was developed in 1956 with the existing 108,300 square-foot single story manufacturing/warehouse building.

- The Site is currently occupied by Country Affair, a custom furniture manufacturer and finishing company. Observations of the Site indicated that various quantities of paints, stains, thinners and cleaning solutions are used and stored on the Site. Most of the liquids are stored in the original containers and are warehoused within the flammable storage room. Observations indicated that good housekeeping methods were employed. No hazardous waste is reportedly generated at the Site.

- The earliest documented use of the Site (circa 1927) was for agricultural purposes, as tree orchards. The Site was first occupied by Ensign Carburetor Company/Butane and Propane Equipment Manufacturing. KEE assumes Ensign moved in following construction of the existing building in 1956. From 1960 through at least 1985, Arnold Engineering Company (Arnold) occupied the Site. Arnold provided stamping and milling services to the electronics industry and used various volatile organic chemicals (VOC's), which included; perchloroethylene (PCE), trichloroethylene (TCE) and many other similar solvents and degreasers. Arnold installed a clarifier in 1974. In 1990, Woodmill Products (Woodmill) occupied the Site. Woodmill manufactured picture frames and performed silk screening activities. The data is not clear how long Woodmill occupied the Site. In May 1994, a company named Red Eagle Properties purchased the Site from Resolution Trust Corporation (RTC). Red Eagle subsequently sold the Site in 1995 to the current occupants, Country Affair.

- No evidence was observed on the Site or reported in the environmental databases searched to indicate that USTs or ASTs presently exist or have existed on the Subject Property.

- In September 1994, two clarifiers were removed from the Site. Soil sampling following the removals indicated the presence of TRPH and volatile organic chemicals (VOCs). Subsequent subsurface investigations indicated relatively high levels of VOCs in the near surface soil (down to 35-40 feet), with detectable concentrations of certain VOCs down to a depth of 105 feet bgs, or to just above the groundwater level. In 1994, a soil vapor extraction system was operated to remediate the near surface soils. In 1995, OCHCA concluded the Site had sufficiently remediated and granted site closure. Conformation soil samples indicated that various levels of VOCs remained in the subsurface soil. In addition, in 1995, the RWQCB granted closure and required no further investigation of the underlying groundwater, citing that the current owner was not responsible for the underlying groundwater contamination.

- In 2004, the Site was named as one of many PRPs by the OCWD responsible for contributing to the extensive VOC plume in the groundwater in the Fullerton area. In 2005, the OCWD initiated a lawsuit against the Subject Property and the other named PRPs.

Based on the information gathered during the performance of this ESA and on the aforementioned conclusions, KEE recommends the following:

- KEE recommends that no further subsurface investigations are warranted at this time.

- KEE also recommends that in light of the OCWD lawsuit, legal council reviews what obligations previous occupants/owners may have and what liabilities a new owner/occupant/lender may have.

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1.0 INTRODUCTION

This report presents the findings, conclusions, and recommendations of a Phase I Environmental Site Assessment (ESA), conducted by K E Environmental (KEE), for Community Bank (CB) on the industrial property located at 1551 East Orangethorpe Avenue, Fullerton, California (the Site). The Site location is shown on the Site Location Map, Figure 1.

KEE conducted this ESA in accordance with the approved contract, dated September 11, 2006. During the course of this assessment, KEE made due diligence inquiries into the current and previous uses of the Site and surrounding areas, consistent with good commercial or customary practice.

1.1 SCOPE OF WORK

The purpose of this assessment was to investigate for potential sources that may pose adverse environmental impact, due to the presence of past or present, known or suspected hazardous materials and/or wastes, on the Site or within the near vicinity of the Site. To accomplish this objective, the following tasks were performed:

KEE conducted a Site reconnaissance to evaluate the current Site conditions and usage with regards to visible signs of potential hazardous materials and/or waste.

KEE conducted a reconnaissance of nearby surrounding properties, to observe the conditions and activities conducted with regards to their potential environmental impact on the Site.

KEE contacted representatives of selected local agencies regarding records and files concerning the environmental status and current and previous conditions of the Site. Agencies contacted included the Orange County Health Care Agency (OCHCA), Orange County Water District (OCWD), as well as, the Fullerton Public Works, Engineering, Business License, and Building and Safety Departments.

KEE reviewed selected published geologic and hydrologic reports, regarding the Site geology, soil, and groundwater conditions.

KEE reviewed numerous previously prepared reports concerning the Site, which included Limited Subsurface Investigation reports, Phase I ESAs, and regulatory agency correspondence related to the findings of the previous reports.

KEE reviewed selected federal, state, and local environmental regulatory agency databases concerning the reported environmental permits, status, and conditions on the Site and within a one-mile radius of the Site.

Reviewed selected aerial photography covering the Site and vicinity, in order to evaluate the historic development and land use of the Site and vicinity. Of primary interest were indications of storage tanks, dumping or storage of materials, or any other potential environmental concerns that may have occurred on or near the Site.

Information obtained by KEE during this investigation was compiled into this report, with accompanying figures and appendices, presenting our findings, conclusions, and recommendations regarding the Site's environmental integrity.

OCWD 042882

2.0 GENERAL SITE INFORMATION

2.1 SITE LOCATION/DESCRIPTION

The Subject Property, 1551 East Orangethorpe Avenue, consists of an approximately 4.562 acre, flagged-shaped lot, situated within a larger industrial park, generally called the "Fullerton Business Center North". KEE understands these names are often confusing and the Subject Property is not a part of the "Fullerton Business Center North". The Subject Property is located approximately 700 feet west of the intersection of South Acacia and East Orangethorpe Avenues in Fullerton, California, with access off Orangethorpe Avenue via a driveway.

Improvements on the Site consist of an approximately 108,300 square foot, single-story manufacturing/warehouse building, constructed in 1956. The outdoor portions of the Site consist of asphalt-paved driveways/parking areas, with small landscaped areas. The general layout of the Site is shown on Figure 2, Site Layout Map. Photographs of the Site are provided in Appendix A.

2.2 VICINITY DESCRIPTION

The adjoining properties to the east, west, and south are occupied by similar commercial/light industrial businesses. To the north of the Site is Johnson Controls, Inc., a manufacturer of mechanical, electrical, and digital controls.

3.0 ENVIRONMENTAL SETTING

3.1 GEOLOGY

The site is located at an elevation of approximately 177 feet above mean sea level (Base Map from USGS Anaheim 7.5 minute quadrangle topographic map, 1978, photorevised 1981). The near surface underlying sediments consist of interbedded silts, sands and gravels typical of the Santa Ana River Channel deposits.

3.2 LOCAL HYDROGEOLOGY

The depth to first groundwater beneath the Site is estimated to be approximately 110 feet below the ground surface. Shallower, locally discontinuous perched zones may be present in the Site vicinity. The groundwater flow direction is generally towards the west-southwest.

OCWD 042883

4.0 CURRENT SITE USAGE AND RECONNAISSANCE

Kent Green of KEE performed a Site reconnaissance on October 3, 2006, in order to evaluate and observe the current Site conditions and the surrounding properties with regards to visible signs of potential hazardous materials or waste. Mr. Alan Needles, owner, provided access to all areas of the Site and answered our questions.

The Site is currently occupied by Country Affair, a custom furniture manufacturing company. The business activities consist of manufacturing and finishing wooden furniture. Observations indicated that materials such as paints, stains, lacquers, thinners and acetone were observed throughout the Site. The size of the materials containers ranged from 5-gallon to 55-gallon drums. Most containers were stored within the flammable storage room located on the western side of the building. A finishing room, which contained six paint booths, is also located on the western side of the building. Several 55-gallon drums and smaller containers are stored adjacent to the paint booths. No hazardous waste is reportedly generated on Site.

4.1 PETROLEUM PRODUCTS AND HAZARDOUS MATERIALS

Moderate surface oil staining was observed on the concrete pavement in the vicinity of the air compressors situated on the northwestern side of the building. Additionally, some minor automobile staining was noted in the parking lot areas of the Site. Based on the source and surficial nature of the staining, this typical automobile surface staining is not considered to be of an environmental concern.

No liquid wastes or wastewater is reportedly generated at the Subject Property.

4.2 UNDERGROUND STORAGE TANKS (UST's)

No underground storage tanks (UST's), vent pipes, pits, or sumps were observed to be present on the Site during our reconnaissance. Additionally, Orange County Environmental Health Care Agency (OCHCA) had no records that indicated UST's currently exist or have existed at the Subject Site.

The Site is listed in the VeraCheck Environmental Records search data on the Underground Storage Tank list. However, further review indicates that this listing identified a concrete lagoon/clarifier as having been installed in 1974. This concrete structure was subsequently removed in 1994 and is discussed in Section 6.1, below.

4.3 ABOVEGROUND STORAGE TANKS

No aboveground storage tanks were observed to be present on the Site during our reconnaissance. Review of the OCHCA and VeraCheck database search data, indicated no records are available that show permits for aboveground storage tanks for the Site addresses.

OCWD 042884

4.4 TRANSFORMERS

Electricity is supplied to the Site via underground utility lines. A pad-mounted transformer was observed near the northwest corner of the Site. Observations of the transformer indicated no leaking oil or associated oil stains.

Electric florescent light ballasts manufactured prior to 1978 have the potential to contain polychlorinated biphenyls (PCBs). In general, all PCB designated electric transformers were required to be replaced with non-PCB designated transformers when PCB's were designated a carcinogen by the EPA in 1978. Florescent light ballasts manufactured after 1978 are usually identified with labels stating "No PCBs." Based to the age of Site construction, (1956), PCB-containing florescent light ballasts may be present on the Site.

5.0 PREVIOUS SITE USAGE/RECORDS REVIEW

The following summarizes the prior uses of the Site and is based on KEE's review of building permits, selected historical air photos, City Directories, and the provided previously prepared reports. The earliest documented use of the Site (circa 1927) was for agricultural purposes, as tree orchards. The Site was first occupied by Ensign Carburetor Company/Butane and Propane Equipment Manufacturing. KEE assumes Ensign moved in following construction of the existing building in 1956. From 1960 through at least 1985, Arnold Engineering Company (Arnold) occupied the Site. Arnold provided stamping and milling services to the electronics industry and used various volatile organic chemicals (VOC's), which included; perchloroethylene (PCE), trichloroethylene (TCE) and many other similar solvents and degreasers. Arnold installed a clarifier in 1974. In 1990, Woodmill Products (Woodmill) occupied the Site. Woodmill manufactured picture frames and performed silk screening activities. The data is not clear how long Woodmill occupied the Site. In May 1994, a company named Red Eagle Properties purchased the Site from Resolution Trust Corporation (RTC). Red Eagle subsequently sold the Site in 1995 to the current owners Country Affair. Country Affair has occupied the Site since that time manufacturing furniture.

5.1 CITY OF FULLERTON BUILDING AND SAFETY DEPARTMENT

KEE visited the City of Fullerton Building and Safety Department to review the available files concerning the subject Site. The available permits were generally related to the construction of the building and the installation of heavy machinery and industrial equipment. The only permits of any environmental concern were for the six spray booths and clarifier. No other information of an environmental nature was noted.

5.2 AERIAL PHOTOGRAPHY

Aerial photographs covering the years 1927, 1938 1947, 1953, 1968, 1976, 1990, 1995, and 2002 from EDR's Aerial Photography Collection were reviewed to observe past characteristics and usage of the Site. Review of the 1927, 1938, 1947 and 1953 photographs; show the Site and surrounding properties were used for agricultural purposes.

OCWD 042885

The 1968 photograph shows the Site area has been developed with a commercial/light industrial building that is the current building and Site layout. The surrounding area has now become partially developed with commercial buildings with some agriculture still present. The Artesia Freeway has been constructed to the south of the Subject Site.

The 1976 photograph again, shows the Site much as it looks today. The surrounding properties have been further commercially developed with little agriculture left.

The 1990, 1995, and 2002 photographs show the Site and surrounding area, much as it looks today.

5.3 TENANT REPORT AND BUSINESS REVIEW

City directories have been published for cities and towns across the U.S. since the 1700s. Originally, published as a list of residences, the city directories quickly developed into a sophisticated tool for locating individuals and businesses in a particular urban or suburban area. Twentieth century directories are generally divided into three sections: a business index, a list of resident names and addresses, the names and types of businesses (if unclear from the name).

VeraCheck was contracted by KEE to conduct a city directory review on the Subject Site and surrounding properties, from reasonably ascertainable published city directories. Business directories, including city and cross-reference telephone directories were reviewed, if available, at approximately five-year intervals for the years spanning 1920 through 2004. The following is a summary of the VeraCheck Tenant Report.

The Subject Site address was not listed from The VeraCheck Tenant Report business source from 1920-1966.

In 1974, 1980, and 1985 the VeraCheck Tenant Report business source lists Arnold Engineer Co as conducting business at the Subject Site.

In 1991, VeraCheck Tenant Report business source lists a business called "Eye Encounter" as occupying the Site.

There is not a commercial listing for the Site in 1995.

The Country Affaire, also known as Hacienda Custom Made Furniture and Elden Collections is listed at the Site address for the years 1998, 2000, 2002, and 2004.

A copy of the VeraCheck Tenant Report for the Subject Property and nearby properties is provided in Appendix B.

5.4 SANBORN FIRE INSURANCE MAPS

Sanborn Maps are prepared for fire insurance underwriting purposes, generally covering industrial and commercial areas. The maps describe the construction and relative fire-resistance of buildings; depict the locations of fire prevention devices, gasoline storage tanks, water lines, cisterns, and any potentially flammable materials in the Site vicinity.

Our records search indicated that no coverage of Sanborn Maps were available for the Site area.

5.5 DIVISION OF OIL AND GAS

California Division of Oil and Gas maps and records were researched for data regarding the presence of petroleum-producing properties and/or wildcat oil or gas wells in the Site vicinity. The Site is not situated within the limits of a defined oil field. Occidental Petroleum Corp. drilled the closest exploratory well, "Ehrle", situated approximately one-mile southeast of the Subject Site, in 1967, to a depth of 8,055 feet. This well was subsequently plugged and abandoned, "Dry Hole", as shown on Figure 3, Oil and Gas Map.

6.0 PREVIOUS ENVIRONMENTAL ACTIONS/CONCERNS

The following section provides a summary of previous environmental actions and concerns involving the Subject Site.

6.1 PREVIOUS INVESTIGATIONS/REGULATORY OVERSIGHT

In 1992, two separate Phase I ESA Reports covering the 1551 Orangethorpe Avenue property identified a "pit and a "clarifier" located in the driveway adjacent to the eastern side of the building. The reports indicated that a "spill of a sludge containing iron, nickel, and copper" occurred at the facility in 1985. In September 1994, the two clarifiers were reportedly removed from the Subject Property. Soil samples collected and analyzed following the removals indicated relatively high levels of PCE and total recoverable petroleum hydrocarbons (TRPH) were present in the underlying soil.

Subsequent to the removal of the clarifiers, several additional subsurface site investigations were conducted. Eight borings were advanced using a Geoprobe in December 1994. Relatively high PCE concentrations (96,000 ppb) were found in one boring near the former clarifier. In January 1995, an additional nine borings were advanced to maximum depths of 40 feet below ground surface (bgs). Significant concentrations of PCE were reportedly encountered to depths of 35 feet. The highest concentrations were found in soil samples from depths of 20 to 30 feet. There was no discussion of other VOCs, which may have been detected.

In March 1995, two more borings (BH-14 and BH-15) were drilled to depths of 115 feet. Groundwater was encountered at about 115 feet bgs in both borings. It was believed that this represents the Talbert Aquifer, a source of production/drinking water for Orange County. A perched zone was also encountered at about 60 feet bgs. PCE was not detected in the samples collected below 65 feet. However, various concentrations of PCE associated daughter products were detected at depth, particularly TCE that was reported in samples collected at 105 feet in both borings at concentrations of 180 ppb and 160 ppb.

According to the data reviewed, the OCHCA apparently expressed concern that the PCE concentrations identified in the subsurface represented a potential "public health excess lifetime cancer risk", based on a simplified vapor diffusion model. As a result of this concern, a soil vapor extraction and treatment system (VES) was installed and operated; in accordance with an approved OCHCA work plan dated July 26, 1995. This VES was reportedly operated from August 15, 1995 until November 27, 1995. Because of the apparent effectiveness of the VES, it was shut down on November 10, 1995. To verify the apparent effectiveness of the VES, three confirmation soil probes were sampled in the impacted area. Significantly lower levels of PCE were reported by the laboratory.

KEE understands that the OCHCA forwarded the prior investigation results to the Regional Water Quality Control Board (RWQCB), which has oversight of groundwater related activities. As a result of previous investigations, the RWQCB had requested that a groundwater investigation be conducted, including the installation of monitoring wells. However, due to the ownership history and the fact that the source of the problem was a previous property occupant (Arnold), not Red-Eagle Properties, and due to the remedial efforts implemented by Red Eagle Properties, the RWQCB withdrew its request for a groundwater investigation. On December 11, 1995, the RWQCB issued a letter stating the above to the current property owner, as a result of a meeting held on November 1, 1995. Copy of letter is provided in Appendix C.

On December 15, 1995, the OCHCA also issued a closure letter (copy of letter is provided in Appendix D). As stated in this closure letter, on-site remedial action was confirmed and "no further action is required at this time". It should be noted however, that this letter also states "...(our closure) evaluation considered the present and proposed use of the property. Changes in the present or proposed land use may require further site characterization and/or site mitigation activity". Also the letter states "Please be advised that this letter does not relieve you of any liability....Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality of public health."

6.2 ORANGE COUNTY WATER DISTRICT VOC LAWSUIT

The subject property is located within an area that is underlain by an extensive regional VOC plume in the in groundwater. This VOC plume has been the subject of intensive investigation. The primary investigative agency has been the Orange County Water District (OCWD), the purveyor of domestic water in Orange County. Through several investigations, the OCWD identified several Potentially Responsible Parties (PRP's) that they suspect may have contributed to the VOC plume. The Fullerton Business Park and the facility located at 1551 E. Orangethorpe Avenue, Fullerton, were named as PRP's. The OCWD filed a lawsuit naming the identified PRP's as defendants, on April 11, 2005. KEE understands that Fullerton Business Park was dismissed from the suit; however, the 1551 E. Orangethorpe Avenue property was not dismissed from the lawsuit. Copies of the lawsuit and dismissal letter are provided in Appendix E.

7.0 REGULATORY AGENCY RESEARCH

The following environmental regulatory agency sources and databases have been searched for sites reported within the vicinity of the Subject Site. Appendix F includes a copy of the regulatory agency database search reports generated by VeraCheck, a sub consultant to KEE. The accuracy of the reports is constrained by the limits of care and professional skill exercised by the sub consultant. Our review of these records can be only as current as the listings, and may not represent all known or potential hazardous waste or contaminated sites. For completeness and quality control, additional agency records were investigated personally by KEE. KEE makes no claims as to the completeness or accuracy of the referenced sources.

A description of each list searched, with properties reported within the specified radius of the subject Site, is presented below. The locations of the listed sites, relative to the subject Site, are indicated on Figure 4, Map of Identified Sites-Database Searches, [ ] indicates the Map Number.

OCWD 042888

7.1 (NPL) NATIONAL PRIORITY LIST

This database has not identified any sites of environmental concern within a one-mile radius of the Subject Property.

7.2 (CERCLIS) COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY INFORMATION SYSTEM

This database has identified one site of environmental concern within a one-half mile radius of the Subject Property. The site, Omek Flexible Dis Drive, Inc., [19], is located approximately 528 feet southeast of the Subject Site, at 1835 E. Dawns Way, Suite B, Fullerton.

The site "Status" is; "The PRP or their contractors have begun construction work on-site in response to n emergency incident. The EPA is providing on-site technical oversight." Base on this formation and on the relative distance from the Subject Site, this site should pose little to no adverse environmental impact to the Subject Site.

7.3 (NFRAP) NO FURTHER REMEDIAL ACTION PLANNED SITES (CERCLIS)

This database has identified one site of environmental concern within a one-quarter mile radius of the Subject Property. The site, Johnson Controls Battery, [34], is located approximately 1056 feet northwest of the Subject Site, at 1550 E. Kimberly Ave., Fullerton.

This site was removed from CERCLIS and placed on the NFRAP List September 1, 1988. Base on this formation and on the relative distance from the Subject Site, this site should pose little to no adverse environmental impact to the Subject Site.

7.4 EMERGENCY RESPONSE NOTIFICATION SYSTEM (ERNS)

This database has identified one site of environmental concern within one-quarter mile radius of the Subject Property. The site, P.C.A. Metal Finishing, [40], is located approximately 1584 feet northeast of the Subject Site, at 1710 E. Rosslynn Ave., Fullerton.

This site reportedly spilled about 50 gallons of water and heavy metals when they overflowed a plating tank along with a holding tank. The spill was reportedly cleaned up by IT Corp. Base on this formation and on the relative distance from the Subject Site, this site should pose little to no adverse environmental impact to the Subject Site.

7.5 RCRA VIOLATORS LIST (CORRACTS)

This database has identified two sites of environmental concern within one-half of one-mile radius of the Subject Property. The first site, Johnson Controls Battery, [34], is located approximately 1056 feet northwest of the Subject Site, at 1550 E. Kimberly Ave., Fullerton. The second site, Kimberly-Clark Corporation, [60], is located approximately 1584 feet east of the Subject Site, at 2100 E. Orangethorpe Ave., Fullerton.

Base on the distance and relative location to the Subject Site, these sites should pose little to no adverse environmental impact to the Subject Site.

OCWD 042889

7.6 RESOURCE CONSERVATION AND RECOVERY INFORMATION SYSTEM (TSD)

This database has not identified any sites of environmental concern within a one-half mile radius of the Subject Property.

7.7 FEDERAL ENFORCEMENT DOCKETS (FD)

This database has not identified any sites of environmental concern within a one-quarter mile radius of the Subject Property.

7.8 ANNUAL WORK PLAN (BEP)

This database has not identified any sites of environmental concern within a one-mile radius of the Subject Property.

7.9 CALSITES

This database has not identified any sites of environmental concern within a one-half mile radius of the Subject Property.

7.10 STATE OF CALIFORNIA OFFICE OF PLANNING AND RESEARCH (CORTESE)

This database has not identified any sites of environmental concern within a one-half mile radius of the Subject Property.

7.11 LEAKING UNDERGROUND STORAGE TANKS (LUST)

This database has identified three sites of environmental concern within a one-eighth mile radius of the Subject Property. The first site [# 6], Inland Empire Equipment, is located approximately 700 feet to the southwest from the Subject Site, on the south side of Orangethorpe Avenue, at 1400 E. Orangethorpe Avenue. The second site [# 6], W.A. Krueger Co., is located approximately 600 feet to the south-southeast from the Subject Site, on the south side of Orangethorpe Avenue, at 1600 E. Orangethorpe Avenue. The third site [# 18], Raymark Industries, is located approximately 528 feet southwest of the Site, at 1351 S. Manhattan Ave., Fullerton.

All three sites are reported as having been investigated and as "Case Closed". Base on this information and on the relative positions from the Subject Site, these three sites should pose little to no adverse environmental impact to the Subject Site.

7.12 WELL INVESWTIGATION PROGRAM (WIP)

This database has not identified any sites of environmental concern within a one-quarter mile radius of the Subject Property.

7.13 TOXIC PITS

This database has not identified any sites of environmental concern within a one-mile radius of the Subject Property.

OCWD 042890

8.0 CONCLUSIONS

- The Subject Property, located at 1551 E. Orangethorpe Avenue, is situated in an industrial area of Fullerton and covers approximately 4.562 acres. The Site was developed in 1956 with the existing 108,300 square-foot single story manufacturing/warehouse building.

- The Site is currently occupied by Country Affair, a custom furniture manufacturer and finishing company. Observations of the Site indicated that various quantities of paints, stains, thinners and cleaning solutions are used and stored on the Site. Most of the liquids are stored in the original containers and are warehoused within the flammable storage room. Observations indicated that good housekeeping methods were employed. No hazardous waste is reportedly generated at the Site.

- The earliest documented use of the Site (circa 1927) was for agricultural purposes, as tree orchards. The Site was first occupied by Ensign Carburetor Company/Butane and Propane Equipment Manufacturing. KEE assumes Ensign moved in following construction of the existing building in 1956. From 1960 through at least 1985, Arnold Engineering Company (Arnold) occupied the Site. Arnold provided stamping and milling services to the electronics industry and used various volatile organic chemicals (VOC's), which included; perchloroethylene (PCE), trichloroethylene (TCE) and many other similar solvents and degreasers. Arnold installed a clarifier in 1974. In 1990, Woodmill Products (Woodmill) occupied the Site. Woodmill manufactured picture frames and performed silk screening activities. The data is not clear how long Woodmill occupied the Site. In May 1994, a company named Red Eagle Properties purchased the Site from Resolution Trust Corporation (RTC). Red Eagle subsequently sold the Site in 1995 to the current occupants, Country Affair.

- No evidence was observed on the Site or reported in the environmental databases searched to indicate that USTs or ASTs presently exist or have existed on the Subject Property.

- In September 1994, two clarifiers were removed from the Site. Soil sampling following the removals indicated the presence of TRPH and volatile organic chemicals (VOCs). Subsequent subsurface investigations indicated relatively high levels of VOCs in the near surface soil (down to 35-40 feet), with detectable concentrations of certain VOCs down to a depth of 105 feet bgs, or to just above the groundwater level. In 1994, a soil vapor extraction system was operated to remediate the near surface soils. In 1995, OCHCA concluded the Site had sufficiently remediated and granted site closure. Conformation soil samples indicated that various levels of VOCs remained in the subsurface soil. In addition, in 1995, the RWQCB granted closure and required no further investigation of the underlying groundwater, citing that the current owner was not responsible for the underlying groundwater contamination.

- In 2004, the Site was named as one of many PRPs by the OCWD responsible for contributing to the extensive VOC plume in the groundwater in the Fullerton area. In 2005, the OCWD initiated a lawsuit against the Subject Property and the other named PRPs.

9.0 RECOMMEDATIONS

Based on the information gathered during the performance of this ESA and on the aforementioned conclusions, KEE recommends the following:

- KEE recommends that no further subsurface investigations are warranted at this time.
- KEE also recommends that in light of the OCWD lawsuit, legal council reviews what obligations previous occupants/owners may have and what liabilities a new owner/occupant/lender may have.

10.0 LIMITATIONS

This due diligence assessment was conducted on behalf of, and for the exclusive use of Community Bank, solely as a Phase I Environmental Site Assessment of the Subject Site. The findings set forth in this report are strictly limited in time and scope to the date(s) of the evaluation(s). The conclusions presented are based solely on the services described herein and not on scientific tasks, or procedures beyond the scope of agreed upon services or the time and budgeting restraints imposed by the client.

This report may contain conclusions, which are partially based on the analysis of data accumulated at the time and place set forth in the report through observation. However, further investigations may reveal additional data or variations of the current data, which may require the enclosed conclusions to be reevaluated.

Much of the information provided in this report is based upon personal interviews and research of reviewed documents, records, and maps held by the governmental agencies and private concerns. It must be recognized that this is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollection of those persons contacted. It is possible that information exists beyond the scope of this investigation.

The services performed by KEE have been conducted in a manner consistent with the level of care ordinarily exercised by members of our profession currently practicing under similar conditions. No other warranty expressed or implied is made.

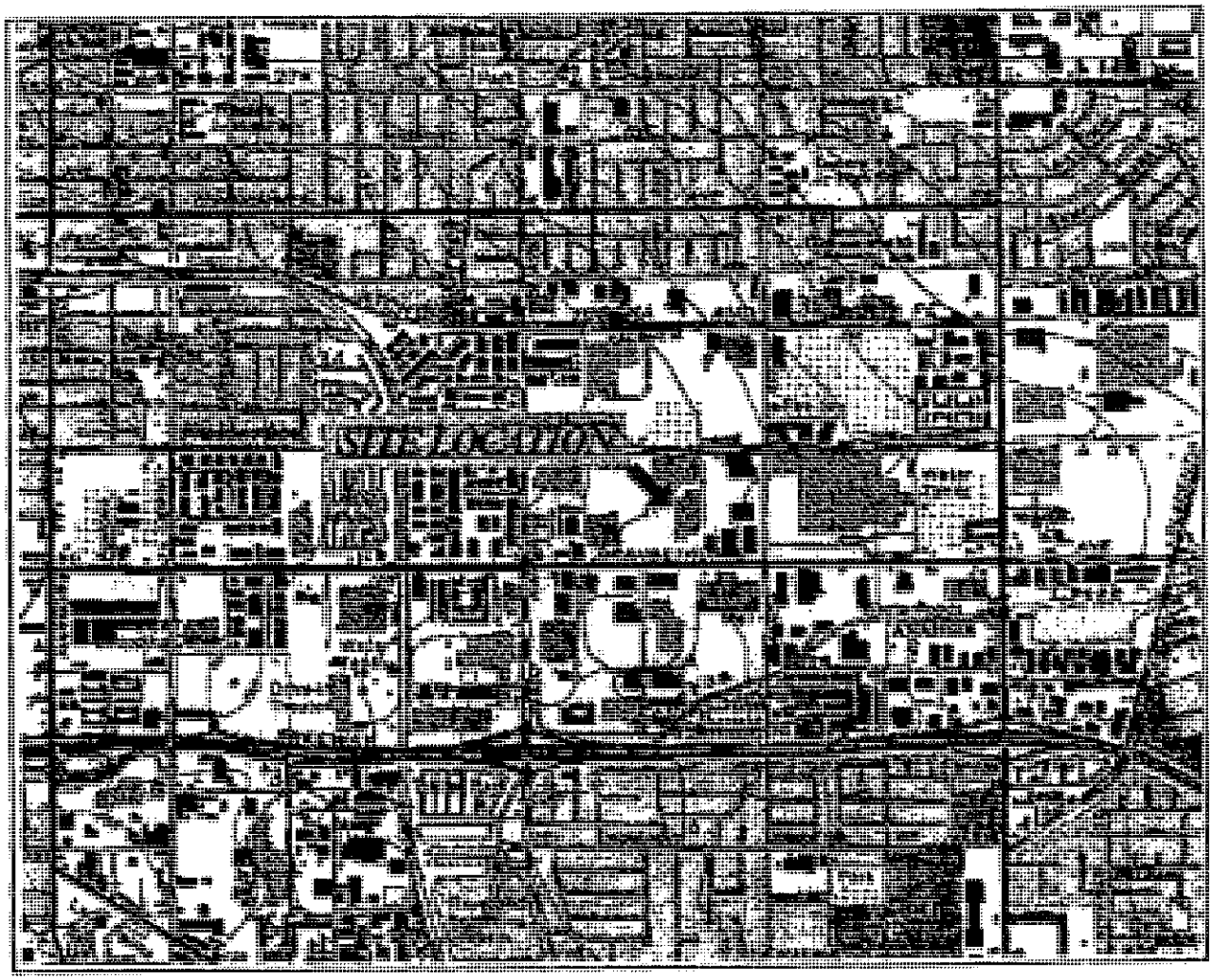
OCWD 042893

11.0 SOURCES OF INFORMATION

- USGS Map, Anaheim Quadrangle, California 7.5-Minute Series (Topographic), 1961, Photorevised 1981.
- Official Zoning Map, City of Fullerton.
- City of Fullerton Building and Safety Department.
- VeraCheck Environmental Risk Advisory, Inc.'s, Environmental Record Search, September 12, 2006.
- VeraCheck Environmental Risk Advisory, Inc.'s, Tenant Report, September 12, 2006.
- VeraCheck Environmental Risk Advisory, Inc.'s, Aerial Photography Print Service, October 4, 2006.
- Lamar, Donald, L., and others, 1973, Earthquake Recurrence Intervals on Major Faults in Southern California, {in} Geology, Seismicity, and Environmental Impact, pg. 265-276.

OCWD 042894

FIGURE 1



USGS Topographic Map, Anaheim Quadrangle
California 7.5 Minute Series, 1981

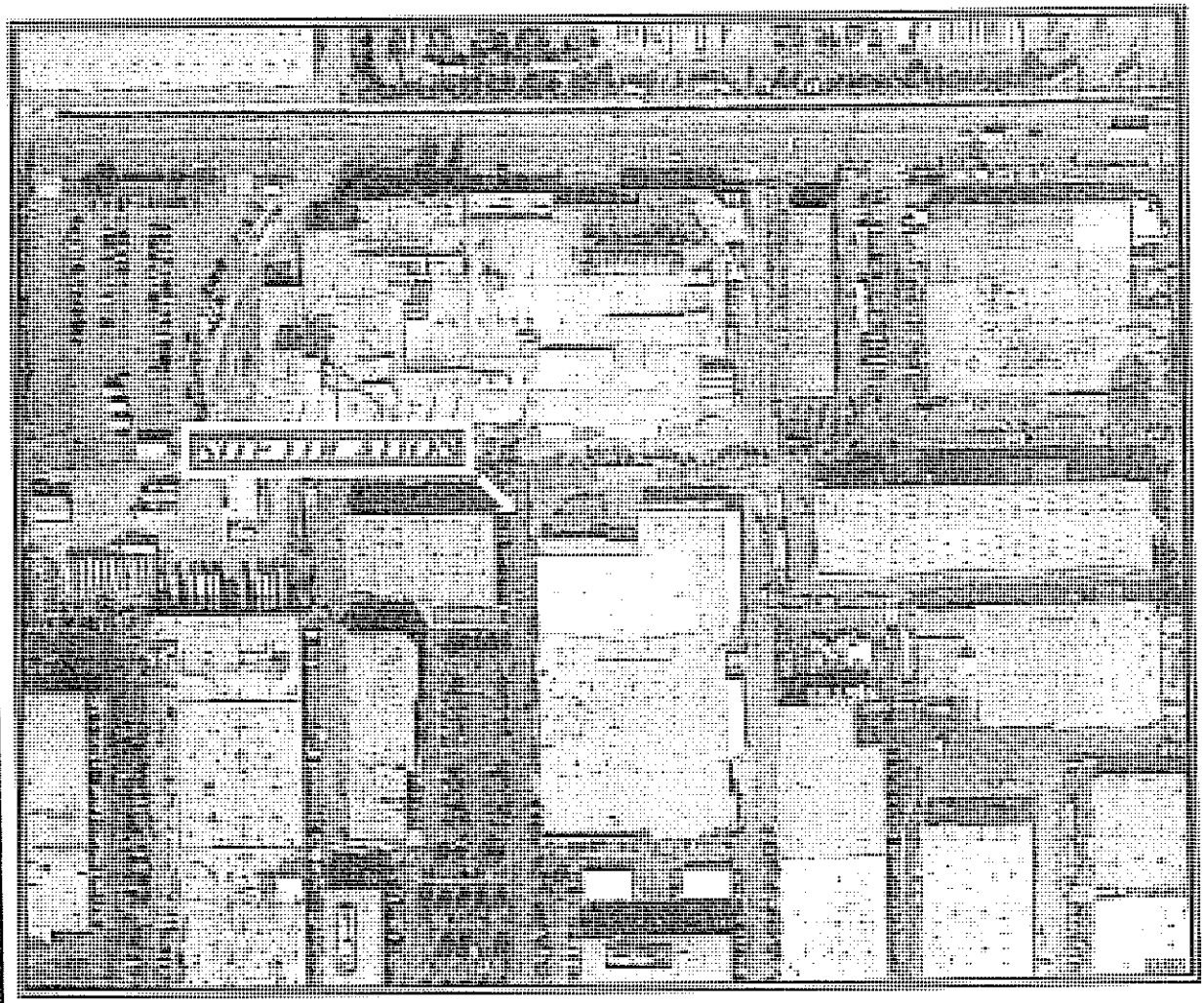
ENVIRONMENTAL

COUNTRY AFFAIR
1551 E. Orangethorpe Ave.
Fullerton, CA 92831

SITE LOCATION MAP

Project No.: 6023	File: Figure 1	FIGURE 1
Date: 09/27/06	Drawn By: KBG	

FIGURE 2



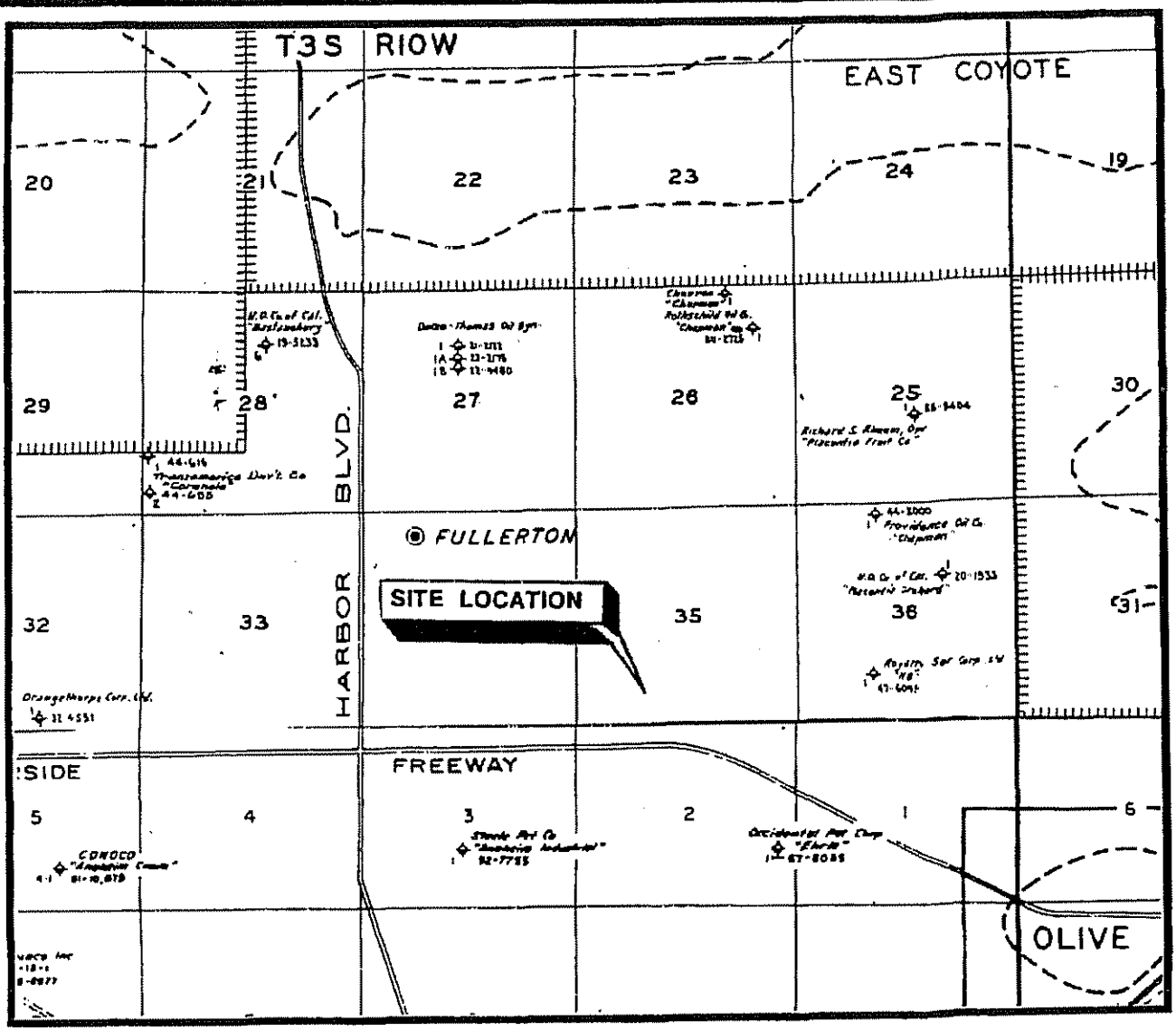
ENVIRONMENTAL

COUNTRY AFFAIR
1551 E. Orangethorpe Ave.
Fullerton, CA 92831

SITE LAYOUT MAP

Project No.: 6023	File: Figure 2	FIGURE 2
Date: 09/27/06	Drawn By: KBG	

FIGURE 3



Base Map From Division of Oil & Gas
Wildcat Map W 1-5 & W1-6

0 4000 8000 12000

One Inch = 8,000 Feet
Approximate Scale in Feet

N

ENVIRONMENTAL

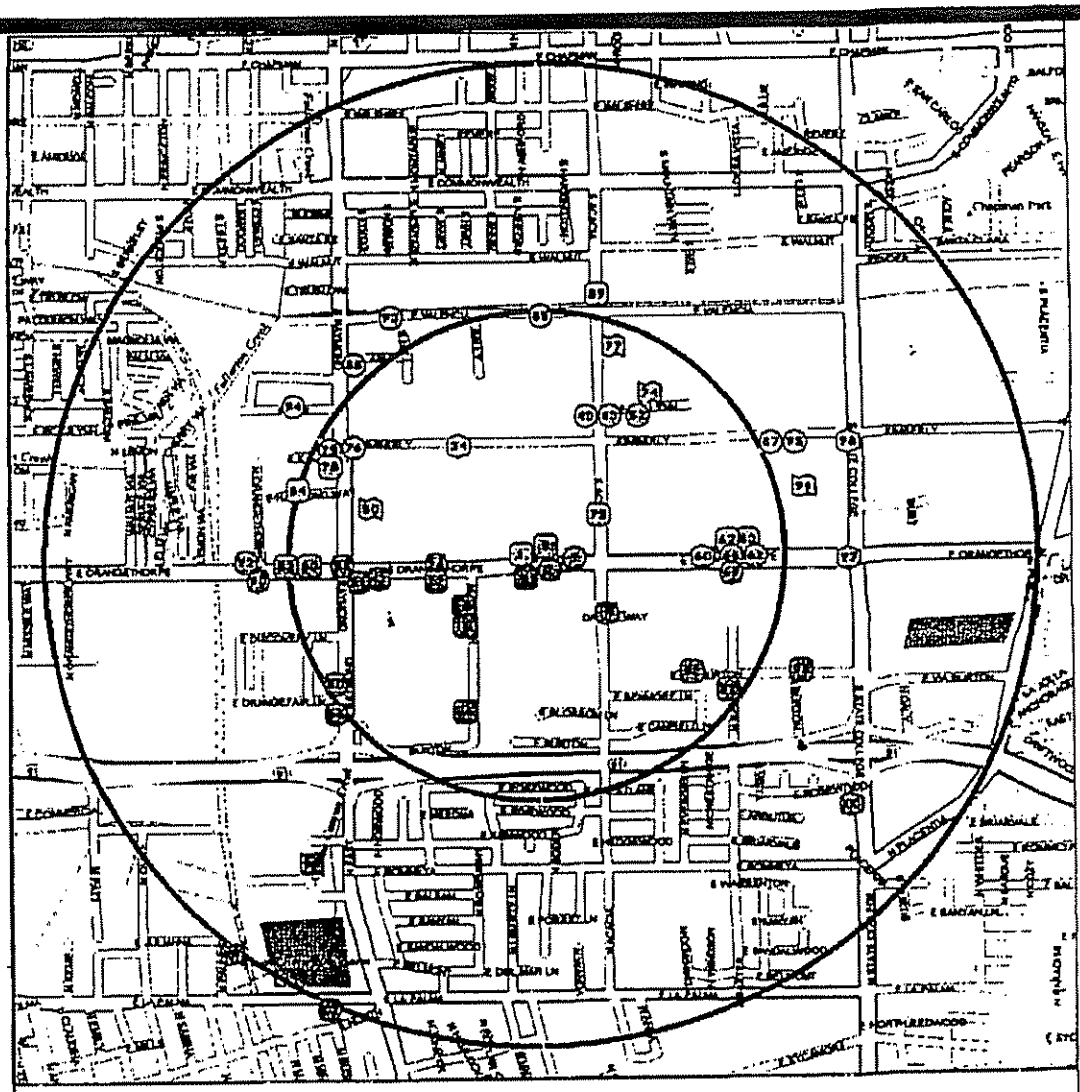
COUNTRY AFFAIR
1551 E. Orangethorpe Ave.
Fullerton, CA 92831

OIL & GAS MAP

Project No.: 6023	File: Figure 3	FIGURE
Date: 09/27/06	Drawn By: KBG	3

OCWD 042900

FIGURE 4



- ENVIRONMENTAL CONCERNS - HIGH PRIORITY
- ENVIRONMENTAL CONCERNS
- ENVIRONMENTAL CONCERNS - WITH A 'NO FURTHER ACTION' STATUS'
- OPERATING PERMITS ONLY
- WATER WELLS

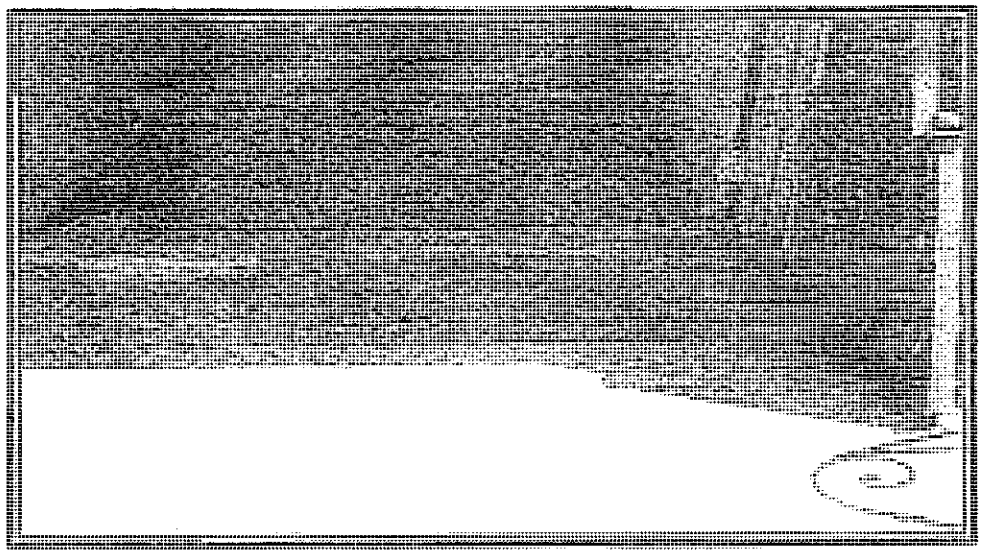
ENVIRONMENTAL

COUNTRY AFFAIR
1551 E. Orangethorpe Ave.
Fullerton, CA 92831

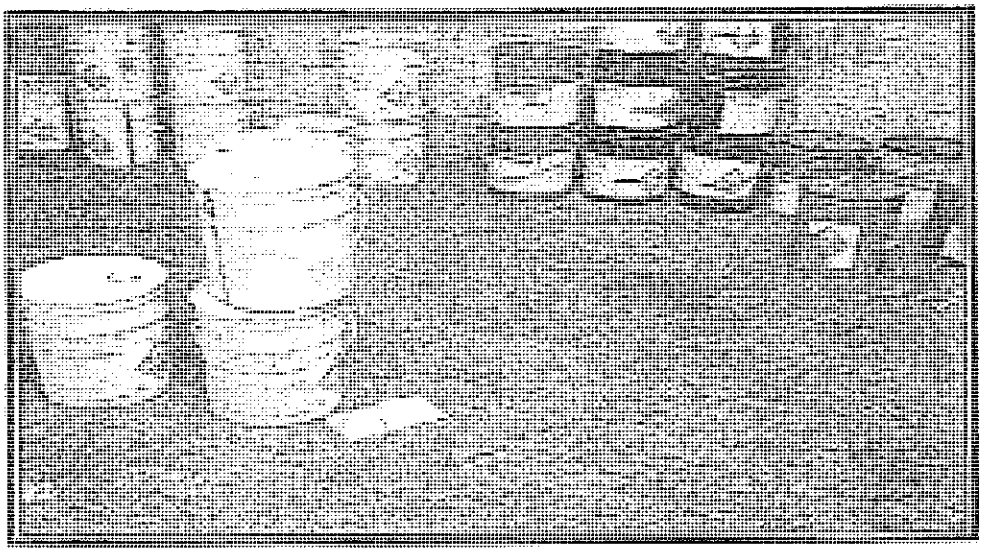
ENVIRONMENTAL IDENTIFICATION MAP

Project No.: 6023	File: Figure 4	FIGURE 4
Date: 09/27/06	Drawn By: KBG	

APPENDIX A



A view of the bermed hazardous material storage room.



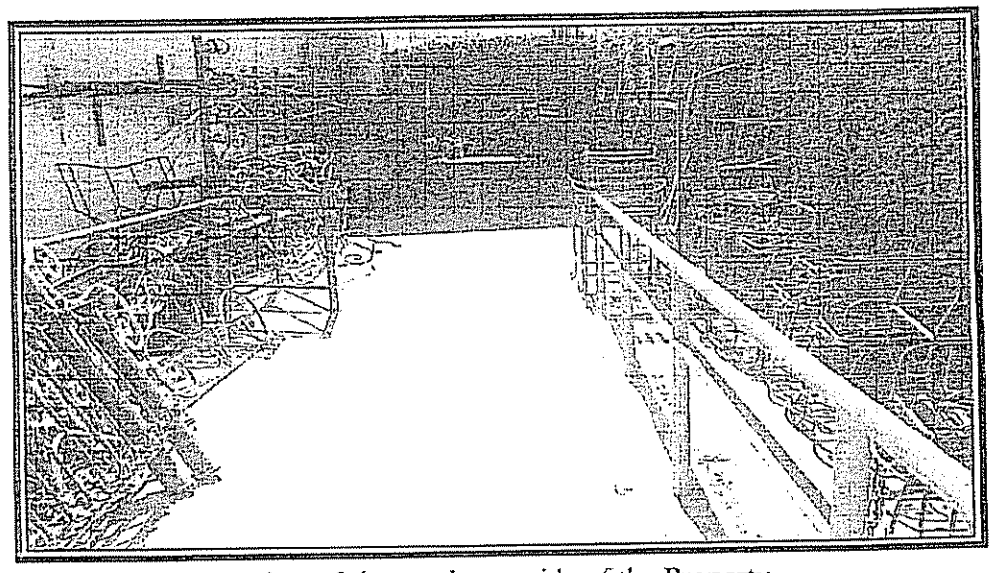
Another view of the hazardous material storage room.

ENVIRONMENTAL

COUNTRY AFFAIR
1551 E. Orangethorpe Ave.
Fullerton, CA 92813

SITE PHOTOGRAPHS

Project No.: 6023	File: Appendix A	APPENDIX A
Date: 09/27/06	Drawn By: KBG	



A view of the southwest side of the Property.

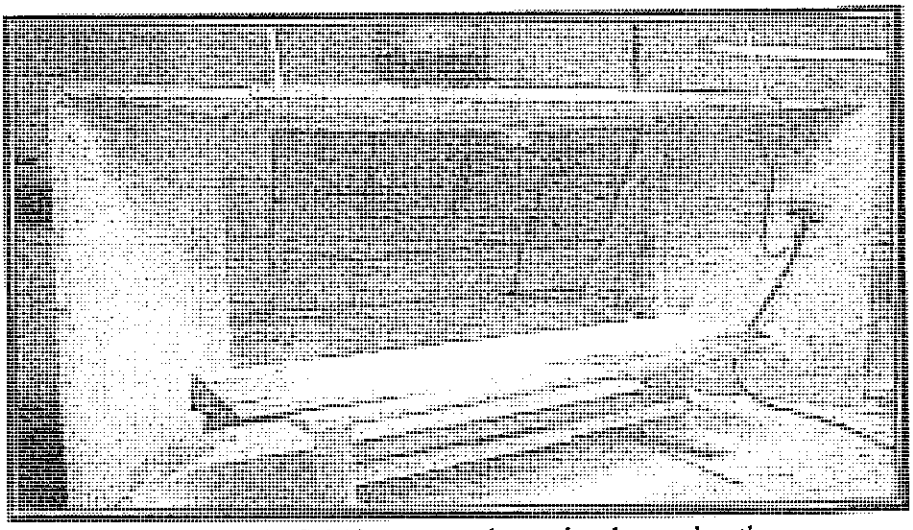
A view of the northwest side of the Property.

ENVIRONMENTAL

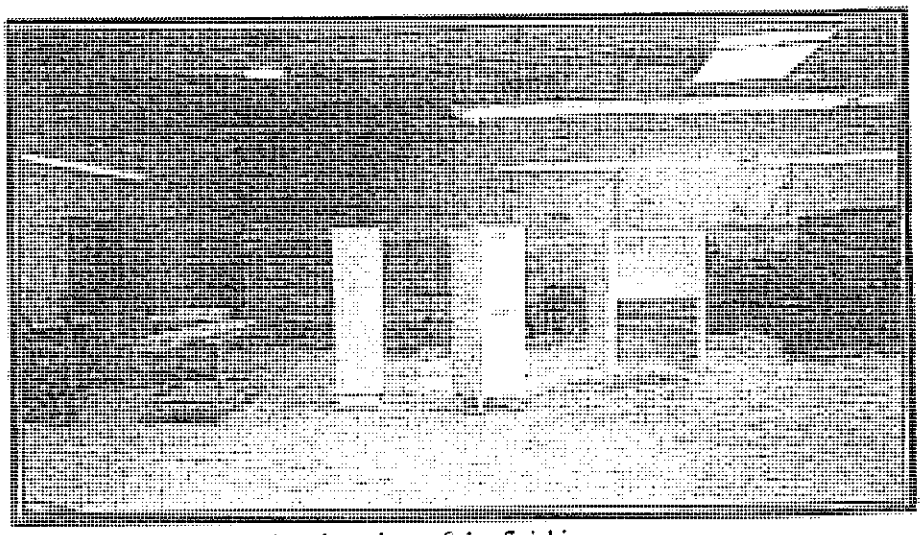
COUNTRY AFFAIR
1551 E. Orangethorpe Ave.
Fullerton, CA 92813

SITE PHOTOGRAPHS

Project No.: 6023	File: Appendix A	APPENDIX A
Date: 09/27/06	Drawn By: KBG	

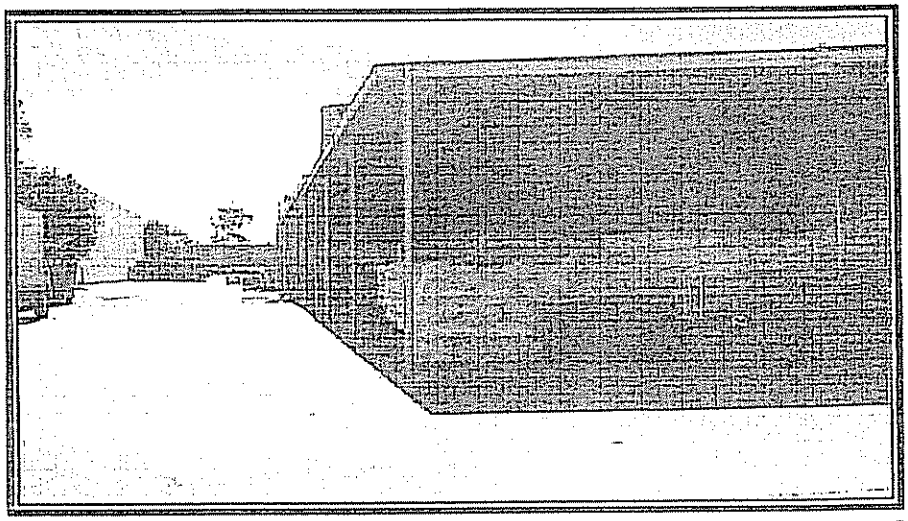


A view of the finishing area and associated spray booths

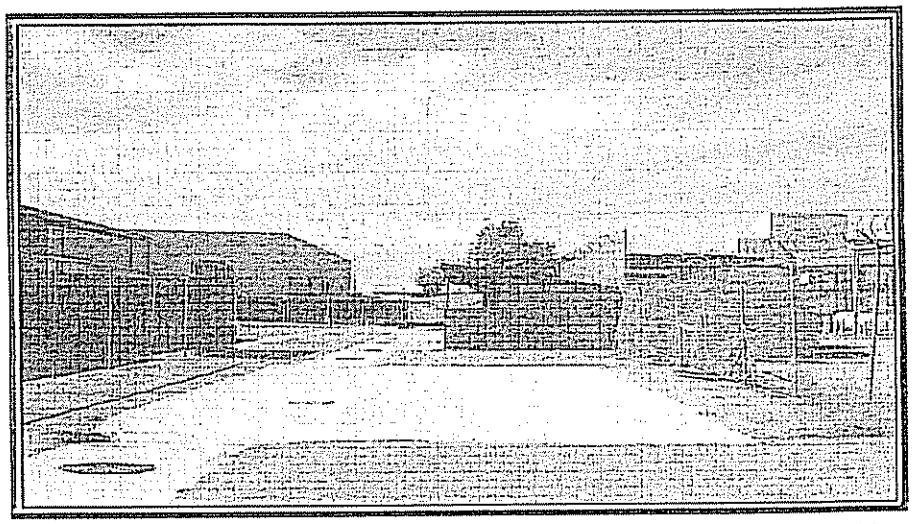


Another view of the finishing area

ENVIRONMENTAL	COUNTRY AFFAIR 1551 E. Orangethorpe Ave. Fullerton, CA 92813	SITE PHOTOGRAPHS		
		Project No.: 6023	File: Appendix A	APPENDIX A
		Date: 09/27/06	Drawn By: KBG	



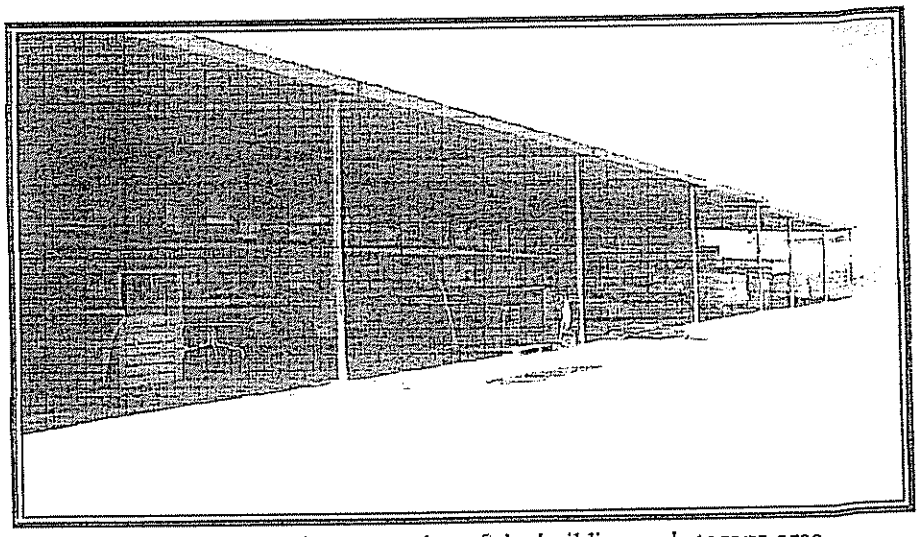
A view from the northeast corner of the lot, looking south towards the front of the Property, showing the truck access along the east side of the Property.



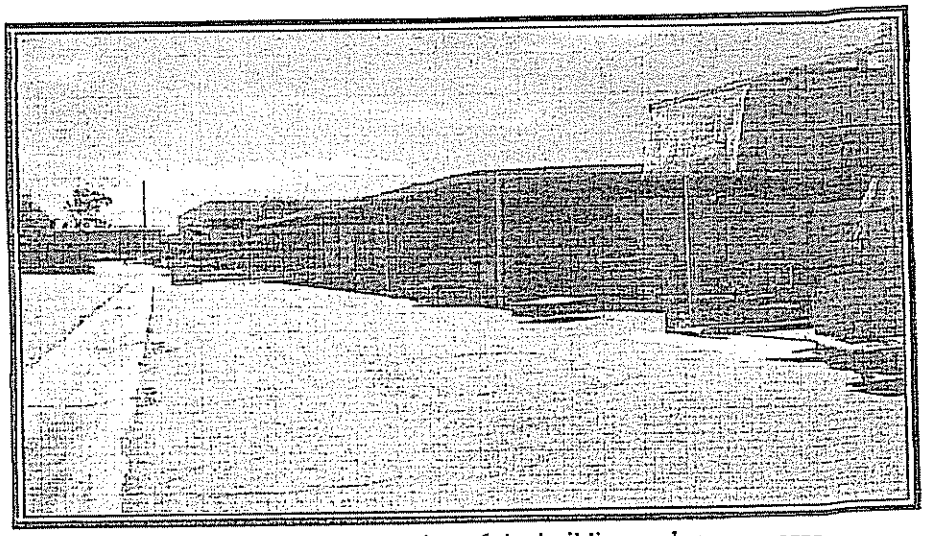
A view from the northeast corner of the lot, looking west along the north side of the Subject Site.

ENVIRONMENTAL	COUNTRY AFFAIR 1551 E. Orangethorpe Ave. Fullerton, CA 92813	SITE PHOTOGRAPHS	
		Project No.: 6023	File: Appendix A
		Date: 09/27/06	Drawn By: KBG
			APPENDIX A

OCNB 043967

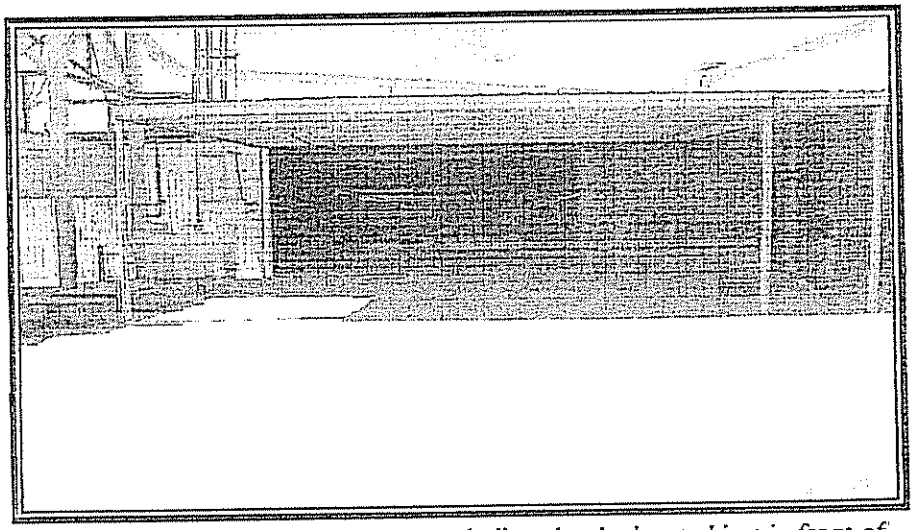


A view of the northeast exterior of the building and storage area.

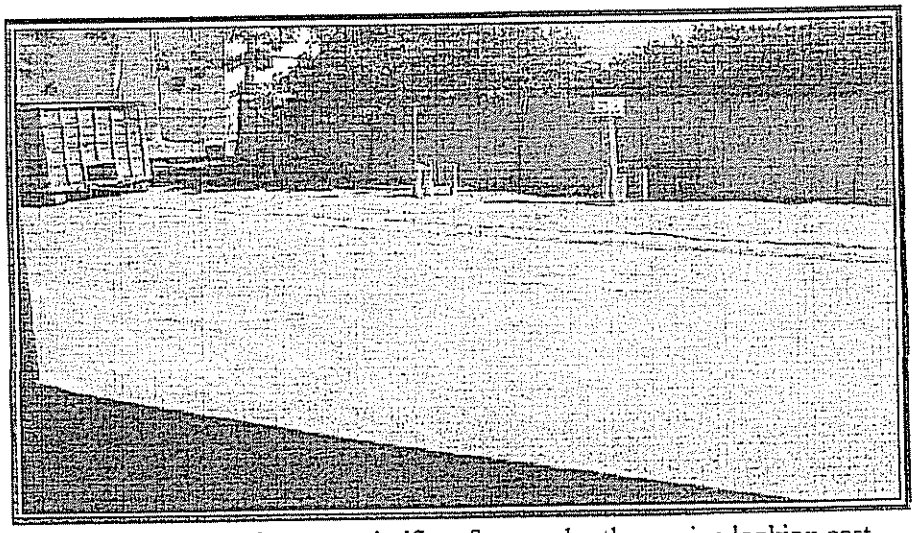


A view of the southeast exterior of the building and storage area.

ENVIRONMENTAL	COUNTRY AFFAIR 1551 E. Orangethorpe Ave. Fullerton, CA 92813	SITE PHOTOGRAPHS		
		Project No.: 6023	File: Appendix A	APPENDIX A
		Date: 09/27/06	Drawn By: KBG	

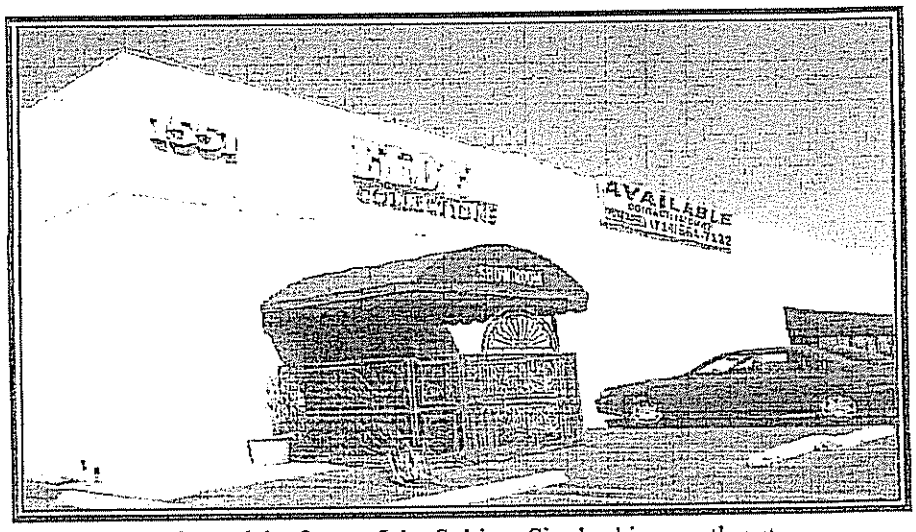


A view of where the two clarifiers were believed to be located just in front of the awning

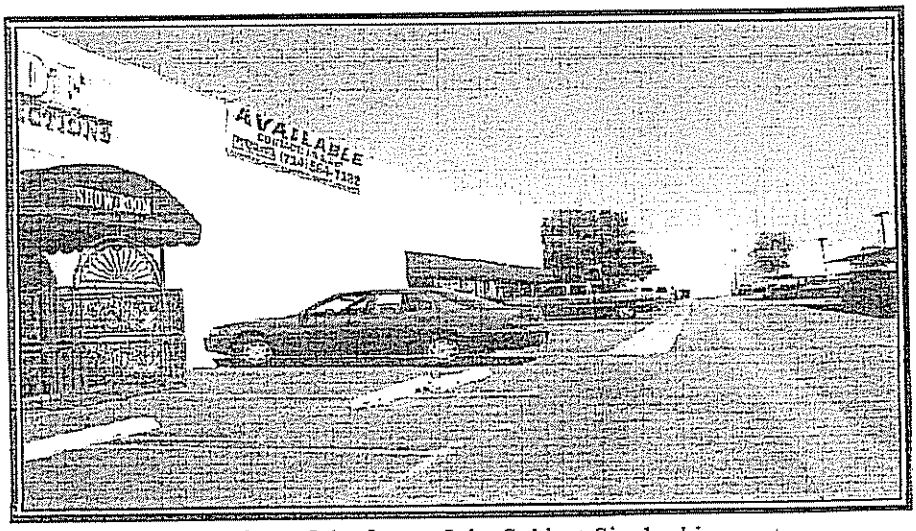


A view of the previous two clarifiers from under the awning looking east

ENVIRONMENTAL	COUNTRY AFFAIR 1551 E. Orangethorpe Ave. Fullerton, CA 92813	SITE PHOTOGRAPHS
	Project No.: 6023 / File: Appendix A	APPENDIX A
	Date: 09/27/06 / Drawn By. KBG	



A view of the front of the Subject Site looking northeast



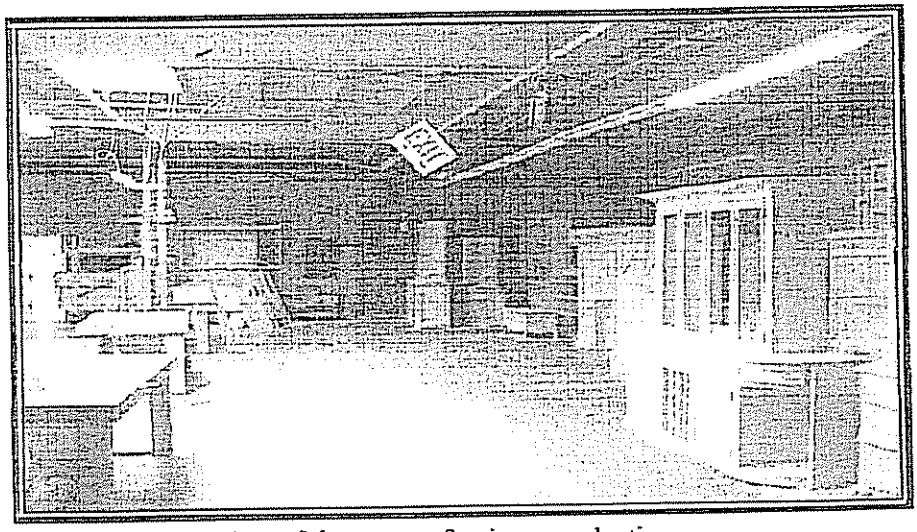
Another view of the front of the Subject Site looking east

ENVIRONMENTAL

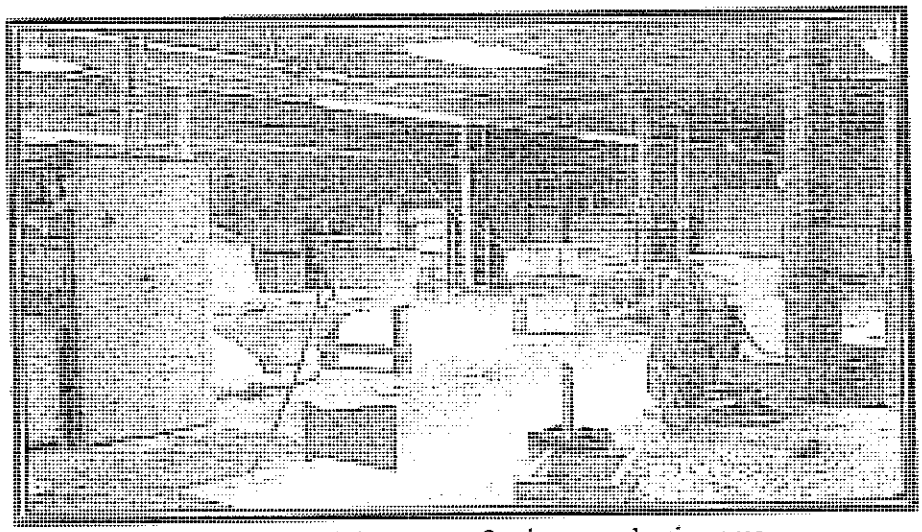
COUNTRY AFFAIR
1551 E. Orangethorpe Ave.
Fullerton, CA 92813

SITE PHOTOGRAPHS

Project No.: 6023	File: Appendix A	APPENDIX A
Date: 09/27/06	Drawn By: KBG	



A view of the custom furniture production area



Another view of the custom furniture production area.

ENVIRONMENTAL	COUNTRY AFFAIR 1551 E. Orangethorpe Ave, Fullerton, CA 92813	SITE PHOTOGRAPHS
	Project No.: 6023 | File: Appendix A	APPENDIX A
	Date: 09/27/06 | Drawn By: KBG	

APPENDIX B

Tenant Report

1551 E Orangethorpe Ave Fullerton, CA, 92813

Project Number: 47850

Prepared for:

KE Environmental
Attn: Kent Green

Prepared by:

Environmental Risk Advisory, Inc.

888 767-7383

September 12, 2006

HISTORICAL TENANT REPORT

INTRODUCTION

The purpose of this Historical Tenant Report is to identify the tenants (be it the owner or lessee) of 1551 E ORANGETHORPE AVE, FULLERTON over the last 50 years.

Sources for the research includes various city directories, street address directories and criss-cross directories published from 1920 forward. The actual site address as well as neighboring addresses on the same block are also investigated for informational purposes, and to cover a potential address change of the subject site.

VERACHECK has used its best effort but makes no claims as to the completeness of the referenced sources or completeness of the search. For additional information call (888) 767-7383.

DIRECTORY INFORMATION

The three general types of directories researched for the Historical Tenant Report are the 1) city directory, 2) street address directory, and 3) criss-cross directory. All three either are devoted to or have sections that list the Tenant and telephone number of given street addresses by their street name and address. These telephone directories, not as readily available to the public as white pages or yellow pages, are excellent for uncovering names, business names and the nature of businesses as listed by street address.

In addition to the actual site address the following neighboring addresses have been researched for commercial listings as well:

1521 E ORANGETHORPE AVE
1541 E ORANGETHORPE AVE
1561 E ORANGETHORPE AVE

The actual site address, as it is known presently, is marked by an asterisk in the findings of the search as reported on the following pages.

2004

1521 E ORANGETHORPE AVE	REMEMBER ME IMAJE INK JET PRINTING CORP QCM INC SEEKER'S CHAPEL
1541 E ORANGETHORPE AVE	No Commercial Listings
1551 E ORANGETHORPE AVE *	COUNTRY AFFAIRE INC
1561 E ORANGETHORPE AVE	LION CO INTEGRATED DATA CO COMPLETE WELLNESS MEDICAL CTR BACK 2 HEALTH
Source:	DIGITAL DIRECTORY ASSISTANCE

2002

1521 E ORANGETHORPE AVE	REMEMBER ME IMAJE INK JET PRINTING CORP GRINNELL FIRE PROTECTION SEEKER'S CHAPEL
1541 E ORANGETHORPE AVE	No Commercial Listings
1551 E ORANGETHORPE AVE *	COUNTRY AFFAIRE INC ELDEN COLLECTIONS
1561 E ORANGETHORPE AVE	COMPLETE WELLNESS CTR-ORANGE LION CO INTEGRATED DATA CO BACK 2 HEALTH
Source:	DIGITAL DIRECTORY ASSISTANCE

2000

1521 E ORANGETHORPE AVE	REMEMBER ME GRINNELL FIRE PROTECTION CO SEEKER'S CHAPEL IMAJE INK JET PRINTING CORP GRINELL FIRE PROTECTION SYS CO
1541 E ORANGETHORPE AVE	No Commercial Listings
1551 E ORANGETHORPE AVE *	COUNTRY AFFAIRE INC HACIENDA CUSTOM MADE FURNITURE ELDEN COLLECTIONS
1561 E ORANGETHORPE AVE	TRANS UNION CORP INTEGRATED DATA CO AUTOMOTIVE REPAIR BUREAU LION CO
Source:	DIGITAL DIRECTORY ASSISTANCE

1998

1521 E ORANGETHORPE AVE	GRINNELL FIRE PROTECTION REMEMBER ME ORANGE COAST MAINTENANCE INC SEEKERS CHAPEL
1541 E ORANGETHORPE AVE	No Commercial Listings

1551 E ORANGETHORPE AVE *	COUNTRY AFFAIRE INC
1561 E ORANGETHORPE AVE	TRANS UNION CORP PAPER SOLUTIONS INK
Source:	DIGITAL DIRECTORY ASSISTANCE

1995

1521 E ORANGETHORPE AVE	SEEKERS CHAPEL GRINNELL FIRE PROTECT SYSTEMS
1541 E ORANGETHORPE AVE	LAWSON SCREEN PRODUCTS INC
1551 E ORANGETHORPE AVE *	No Commercial Listings
1561 E ORANGETHORPE AVE	TRANS UNION JOWAT CORP CA STAT EMPL ASSN SE AREA OFC
Source:	DIGITAL DIRECTORY ASSISTANCE

1991

1521 E ORANGETHORPE AVE	GRUNNELL FIRE PROTECTION SYSTEM SEEKERS CHAPEL
1541 E ORANGETHORPE AVE	No Listings
1551 E ORANGETHORPE AVE *	EYE ENCOUNTER
1561 E ORANGETHORPE AVE	TRANS UNION JOWAT CORP CA STAT EMPL ASSN SE AREA OFC
Source:	PACIFIC TELEPHONE & TELEGRAPH CO 'S DIRECTORY ORANGE COUNTY

1985

1521 E ORANGETHORPE AVE	No Listings
1541 E ORANGETHORPE AVE	No Listings
1551 E ORANGETHORPE AVE *	ARNORD ENGINEER CO
1561 E ORANGETHORPE AVE	TRANS UNION JOWAT CORP CA STAT EMPL ASSN SE AREA OFC
Source:	PACIFIC TELEPHONE & TELEGRAPH CO.'S DIRECTORY ORANGE COUNTY

1980

1521 E ORANGETHORPE AVE	No Listings
1541 E ORANGETHORPE AVE	No Listings
1551 E ORANGETHORPE AVE *	ARNORD ENGINEER CO
1561 E ORANGETHORPE AVE	TRANS UNION JOWAT CORP CA STAT EMPL ASSN SE AREA OFC

Source:	PACIFIC TELEPHONE & TELEGRAPH CO.'S DIRECTORY ORANGE COUNTY

1974

1521 E ORANGETHORPE AVE	No Listings
1541 E ORANGETHORPE AVE	No Listings
1551 E ORANGETHORPE AVE *	ARNORD ENGINEER CO
1561 E ORANGETHORPE AVE	TRANS UNION JOWAT CORP CA STAT EMPL ASSN SE AREA OFC
Source:	PACIFIC TELEPHONE & TELEGRAPH CO.'S DIRECTORY ORANGE COUNTY

1966

1521 E ORANGETHORPE AVE	No Listings
1541 E ORANGETHORPE AVE	No Listings
1551 E ORANGETHORPE AVE *	No Listings
1561 E ORANGETHORPE AVE	TRANS UNION JOWAT CORP CA STAT EMPL ASSN SE AREA OFC
Source:	PACIFIC TELEPHONE & TELEGRAPH CO.'S DIRECTORY ORANGE COUNTY

1955

1521 E ORANGETHORPE AVE	No Listings
1541 E ORANGETHORPE AVE	No Listings
1551 E ORANGETHORPE AVE *	No Listings
1561 E ORANGETHORPE AVE	TRANS UNION JOWAT CORP CA STAT EMPL ASSN SE AREA OFC
Source:	PACIFIC TELEPHONE & TELEGRAPH CO.'S DIRECTORY ORANGE COUNTY

APPENDIX C

STATE OF CALIFORNIA • CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY PETE WILSON, Governor

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION
[illegible] JOVA AVENUE, SUITE 100
RIVERSIDE, CA [illegible]
PHONE (909) [illegible]
FAX (909) [illegible]

December 11, 1995

Mr. Carl Ross
Red Eagle Properties Limited
2020 Lynx Trail
Ontario, CA 91761

FULLERTON BUSINESS PARK, 1551 EAST ORANGETHORPE AVENUE, FULLERTON

Dear Mr. Ross:

On November 1, 1995, Robert Holub and Augustine Anijielo of Board staff met with Mark Boen of Red Eagle Properties and Roger Turner regarding the above site. In September 1994, Red Eagle Properties removed two clarifiers that were present at the site and identified PCE in the soil immediately beneath one of the clarifiers. In December 1994, Converse Consultants, on behalf of Red Eagle Properties, performed a soil investigation to characterize the soil at the site. In January 1995, Converse Consultants performed an additional soil investigation. These investigations found that significant PCE concentrations were present in the shallow soil. The investigations also detected TCE to a depth near the groundwater. A report prepared by Converse Consultants stated that, based on the soil data, groundwater beneath the site had not been impacted by PCE.

As a result of the public health threat posed by the PCE in the shallow soil, Red Eagle Properties is currently remediating the shallow soil under the oversight of the Orange County Health Care Agency. Board staff reviewed the results of the soil investigations and determined that TCE, and possibly PCE, may have impacted groundwater. As a result, Board staff sent a letter dated August 9, 1995, to Red Eagle Properties. This letter stated that we did not concur that groundwater beneath the site had not been impacted, and requested that a groundwater investigation, including the installation of monitoring wells, be performed.

Based on the information obtained in the November 1, 1995, meeting, it is now our understanding that Red Eagle Properties acquired the property from the Resolution Trust Corporation in May 1994. After determining that past discharges of PCE had impacted the shallow soil, Red Eagle Properties undertook diligent efforts to mitigate those impacts by installing and operating a soil vapor extraction and treatment system. The property was then sold to the current owner in March 1995. We understand that under the terms of the sale of the property, Red Eagle Properties is continuing to operate the treatment system.

Mr. Carl Ross -2- December 11, 1995

It is apparent that Red Eagle Properties did not discharge the PCE that impacted the shallow soil or the PCE or TCE that may have impacted the groundwater. It is also apparent that Red Eagle Properties did not own the property during the time that those discharges took place. Please be aware that it has not been the policy of this office to hold a former owner of a property responsible for site investigation and cleanup if the former owner was not directly involved in the initial waste discharge and if the former owner did not own the property during the time that the wastes were discharged. Considering the additional information we obtained at the November 1, 1995, meeting, we withdraw our request to Red Eagle Properties to conduct a groundwater investigation.

You also asked what the responsibilities are for a current landowner at this site. Section 13304 of the California Water Code states that the Regional Board can order any person who caused or permitted waste to be discharged into waters of the state and creates, or threatens to create, a condition of pollution or nuisance, to cleanup the waste or abate the effects thereof. If such an order was issued, the party responsible for the release of the waste would be designated as the primary responsible party and the current landowner of the property would be designated as the secondary responsible party. The primary responsible party would be required to comply with all of the terms of the order. The only time that the secondary responsible party would be required to comply with any of the terms of the order, is if the primary responsible party defaulted on the order (i.e. if the primary responsible party went bankrupt or was otherwise not able to comply with the order). Although we are unable to absolve any current property owner of responsibility for any site investigation or cleanup, considering that the soil impacts at this site have been adequately mitigated, we are not considering issuing an order requiring a groundwater investigation at this time.

If you have any questions, please contact Robert Holub at (909)782-3298 or Augustine Anijielo at (909)782-3292.

Sincerely,

Gerard J. Thibeault
Executive Officer

cc: Luis Rodriguez, OCHCA

RLH/AEA:slic\mscl\fullbus

APPENDIX D

TOM UHAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ENVIRONMENTAL HEALTH DIVISION
ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

COUNTY OF ORANGE

HEALTH CARE AGENCY
PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH DIVISION
2009 E. EDINGER AVENUE
SANTA ANA, CALIFORNIA 92705
(714) 667-3700

December 15, 1995

Carl Ross
Red Eagle Properties, Ltd.
2020 Lynx Trail
Ontario, CA 91761

Subject: Case Closure

Re: Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, CA 92631
O.C.H.C.A. Case # 94IC29

Dear Mr. Ross:

This letter confirms the completion of remedial action at the above referenced site. With the provision that the information provided to this Agency was accurate and representative of existing conditions, it is the position of this office that no further action is required at this time.

This confirmation of completion is limited in scope. It is limited to site conditions made known to this Agency under the above refereinced case number. It is based on an evaluation of the health threat presented by the inhalation, ingestion, or dermal absorption of the residual contaminants. In addition, this evaluation considered the present and proposed use of the property. Changes in the present or proposed land use may require further site characterization and/or site mitigation activity.

The presence of chlorinated hydrocarbons and the potential for residual contamination present at this site to cause groundwater contamination had been made known to the Santa Ana Regional Water Quality Control Board. The Regional Board decided that no groundwater investigation will be required for this site at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health. It is the property owner's responsibility to notify this Agency of any changes in future contamination findings or site usage.

If you have any questions regarding this matter, please contact Luis Lodrigueza at (714) 667-3717.

Very truly yours,

Karen L. Hodel, R.G.
Program Manager
Hazardous Materials Management Section
Environmental Health Division

KLH:WJD:LL:

cc: Robert Holub, Santa Ana Regional Water Quality Control Board
Henry Ames, Converse Consultants - Orange County

APPENDIX E

MD

64
LOC 3-21-05

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(Exempt from filing fees per Govt. Code, § 6103)

FILED
SUPERIOR COURT OF CALIFORNIA
COUNTY OF ORANGE
CENTRAL JUSTICE CENTER
APR 11 2005
ALAN SLATER, Clerk of the Court
BY E. BLOMBERG, DEPUTY

SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF ORANGE

ORANGE COUNTY WATER DISTRICT, Plaintiff, v. NORTHROP CORPORATION; NORTHROP GRUMMAN CORPORATION; AMERICAN ELECTRONICS, INC.; MAG AEROSPACE INDUSTRIES, INC.; GULTON INDUSTRIES, INC.; MARK IV INDUSTRIES, INC; EDO CORPORATION; AEROJET-GENERAL CORPORATION; MOORE BUSINESS FORMS, INC.; AC PRODUCTS, INC.; FULLERTON MANUFACTURING COMPANY; FULLERTON BUSINESS PARK LLC; and DOES 1 through 400, inclusive, Defendants.	CASE NO. 04CC00715 FIRST AMENDED COMPLAINT FOR DAMAGES AND OTHER RELIEF (VOC CONTAMINATION): (1) ORANGE COUNTY WATER DISTRICT ACT; (2) CALIFORNIA SUPERFUND ACT; (3) NEGLIGENCE; (4) NUISANCE; (5) TRESPASS; AND (6) DECLARATORY RELIEF

Plaintiff Orange County Water District (the District) alleges:

SUMMARY

1. By this action the District seeks to protect the groundwater resources of Northern Orange County from toxic pollution. The California State Legislature has charged the District with preventing pollution and contamination of the groundwater basin and water supply within the District. The groundwater resources managed and replenished by the District supply over

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fifty percent of the water needs to more than two million residents in the cities of Anaheim, Buena Park, Cypress, Costa Mesa, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, La Palma, Los Alamitos, Newport Beach, Orange, Placentia, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster, and Yorba Linda. The District possesses rights to draw water from, and valuable rights to, inter alia, recharge and store water in, one or more contaminated local aquifers, including but not necessarily limited to, aquifers within the groundwater basin. The District's interest in the extraction of groundwater resources of the contaminated aquifer(s), and its valuable interests in recharge and storage capacity in the contaminated aquifers, inter alia, is/are natural resource(s) and/or protectable interests in a natural resource.

2. The District files this lawsuit to recover compensatory and all other damages, including all necessary funds to investigate, monitor, remediate, abate, or contain contamination of groundwater within the District from volatile organic chemicals (VOCs); to protect the quality of the public water resources of the District; to prevent pollution or contamination of water supplies; and to assure that the responsible parties -- and not the District or the public -- bear the expense of remediating the contamination caused by defendants' activities.

3. The properties and groundwater resources that are the subject of this action are located in the cities of Anaheim, Fullerton, and other locations within the District's service area; the releases of VOC's and hazardous substances into the environment and related wrongful acts alleged herein took place at said properties, injuring and affecting said groundwater resources. Venue is therefore proper in this Court.

PLAINTIFF

4. The District was created by the Legislature in 1933 to maintain, protect, replenish, and manage groundwater resources. The Legislature expressly granted the District the right, and duty, among other things, to conduct any investigations of the quality of the groundwater within the District to determine whether those waters are contaminated or polluted, and to perform any necessary investigation, cleanup, abatement, or remedial work to prevent, abate, or contain any threatened or existing contamination or pollution of the surface or groundwater of the District,

and recover the costs of any such activities from the persons responsible for the contamination or threatened contamination. (Cal. Water Code, Appendix 40-8.) The District has suffered injury in fact, including expending funds necessary to investigate, clean up, abate, and/or remediate the contamination caused by defendants within the past three years.

5. The Legislature has also expressly granted the District the right, and duty, among other things, to litigate in order to protect groundwater resources and to represent the rights of water users within its territory. In particular, the District has the right, and duty, to commence, maintain, intervene in and compromise any and all actions and proceedings to prevent: (a) interference with water or water rights used or useful to lands within the District; (b) diminution of the quantity or pollution or contamination of the water supply of the district, or to prevent any interference with the water or water rights used or useful in the district which may endanger or damage the inhabitants, lands or use of water in the district. (Cal. Water Code, Appendix 40-2.) The District owns land overlying groundwater at various locations within the District and has water rights therein. Water users within the District pump over 300,000 acre-feet of groundwater each year. The District and the water users it represents have suffered injury in fact as a result of contamination and threat of contamination in water supply wells in the District's groundwater resources, as set forth in this complaint.

6. The District has protectable legal interests in the groundwater within the District's territory, including the right to extract groundwater, replenish the aquifer, and to treat waste water. These interests have been injured as a result of contamination from defendants' facilities. The relief sought in this action will remedy the injury suffered by the District.

DEFENDANTS AND SITE HISTORY

7. When reference in this complaint is made to any act or omission of the defendants, it shall be deemed to mean that the officers, directors, agents, employees, or representatives of the defendants committed or authorized such act or omission, or failed to adequately supervise or properly control or direct their employees while engaged in the management, direction, operation or control of the affairs of defendants, and did so while acting within the scope of their employment or agency.

8. Defendant Northrop Corporation (hereinafter "Northrop") is a Delaware corporation with its principle place of business in Hawthorne, California. Northrop acquired a site located at 500 East Orangethorpe Avenue, Anaheim, California, in approximately 1951. On various dates since 1951, Northrop, and DOES 1 through 10, inclusive, as owners and operators of the site, discharged, dumped, and disposed hazardous wastes associated with its vapor degreasing and anodizing process tanks, including, but not limited to: TCE; PCE; 1, 1, 1-TCA; 1, 1-DCA; 1, 2-DCA; and 1, 1, 2-TCA. During the same period, Northrop also operated a "disposal pit" for hazardous waste on the site.

9. Defendant Northrop Grumman Corporation (hereinafter "Northrop Grumman") is a Delaware corporation with its principle place of business in El Segundo, California. Northrop Grumman's predecessor-in-interest, Northrop, leased and operated a site known as the Northrop Y-12 facility at 301 East Orangethorpe Avenue, Anaheim, California, from 1962 until 1992. Northrop Grumman purchased the site in 1992. On various dates since 1951, Northrop, Northrop Grumman, and DOES 11 through 20, inclusive, as owners and operators of the site, discharged, dumped, and disposed hazardous wastes associated with its vapor degreasing operations, including, but not limited to: TCE; PCE; 1, 1-DCE; and 1, 1, 1-TCA.

10. Defendant American Electronics, Inc. (hereinafter "AEI") is a California corporation with its principle place of business in Fullerton, California. AEI owned and operated a site located at 1600 East Valencia Drive, Fullerton, California, commencing in approximately 1967. AEI and DOES 21 through 30, inclusive, as owners and operators of the site, used solvents in degreasing operations and maintained a chemical storage area which caused releases of hazardous waste on the site, including PCE, TCE, and 1,1, 1-TCA.

11. Defendant MAG Aerospace Industries, Inc. (hereinafter "MAG") is a Delaware corporation with its principle place of business in Compton, California. MAG owned and operated a site located at 1300 East Valencia Drive, Fullerton, California. MAG and DOES 31 through 40, inclusive, as owners and operators of the site, operated a PCE degreaser, a dip tank, and a chemical storage area which released hazardous wastes on the site, including PCE, TCE, 1, 1, 1-TCA, 1, 1-DCE, and cis-1, 2-DCE.

12. Defendant Gulton Industries, Inc. (hereinafter "Gulton") is a Delaware corporation with its principle place of business in Fullerton, California. From approximately 1960 to 1982, Gulton manufactured transducers at 300 South College Boulevard, Fullerton, California, and an adjacent lot known as 2424 East Fender Avenue. In 1982, Gulton subdivided the property and leased a portion of the premises to defendant EDO Corporation. Plaintiff is informed that EDO Western Corporation (DOE 43) also leased this property. Plaintiff is informed that in 1986, Mark IV Industries, Inc., acquired Gulton and owned and operated a business at 300 South College Boulevard. In 1990, Gulton reacquired the site at 300 South College Boulevard and agreed to assume any liability associated with the cleanup of the property. Gulton Industries, Inc. changed its name to Gulton, Inc. (DOE 41) and was later acquired by and merged into defendant Telex Communications Holdings, Inc. (DOE 44) (hereinafter "Telex"). Telex is a Delaware corporation with its principle place of business in Burnsville, Minnesota and doing business in California. Gulton and DOES 41 through 50, inclusive, as owners and operators of the site, used TCE and PCE in manufacturing operations and stored solvent drums on the site which released hazardous waste at the site.

13. Defendant CBS Broadcasting, Inc., successor in interest to CBS, Inc. and formerly known as Colombia Broadcasting Systems, Incorporated, which, at all times relevant herein, did business as Fender Musical Instruments (DOE 45) (hereinafter "Fender") occupied the facility located at 2424 East Fender Avenue. Fender released hazardous wastes, including PCE, at the site.

14. Defendant Mark IV Industries, Inc. (hereinafter "Mark IV") is a Delaware corporation with its principle place of business in Amherst, New York, and doing business in California. Mark IV owned Gulton Industries, Inc., from approximately 1986 to 1999.

15. Defendant EDO Corporation is a New York corporation with its principle place of business in New York, New York, and doing business in California.

16. Defendant EDO Western Corporation (DOE 43) is a Utah corporation with its principle place of business in Salt Lake City, Utah, and doing business in California.

17. Defendant AeroJet-General Corporation (hereinafter "Aerojet"), is an Ohio corporation with its principle place of business in Rancho Cordova, California, and doing business in California. Aerojet conducted metal processing, ordnance manufacturing, and other operations at 601 South Placentia, in Fullerton, California.. Aerojet and DOES 51 through 60, inclusive, as owners and operators of the site, used TCE and PCE in manufacturing operations and stored solvent drums on the site which released hazardous waste at the site.

18. Defendant Moore Business Forms, Inc. is a Delaware corporation with its principal place of business in Bannockburn, Illinois, and doing business in California. Defendant Moore Business Forms, Inc. is currently known as Moore Wallace North America, Inc., DOE 61, (individually and formerly known as Moore Business Forms, Inc. and DOE 42) (hereinafter collectively referred to as "Moore") is a Delaware corporation with its principle place of business in Bannockburn, Illinois, and doing business in California. Moore owns and operates a site at 800 South Raymond in Fullerton, California. From approximately 1954 to 1985, Moore used VOC's at the site in the conduct of Moore's business, including but not limited to printing credit card forms, manufacturing compacted paper, and manufacturing wax coated logs. Moore and DOES 61 through 70, released hazardous wastes, including PCE and TCE, at the site.

19. Defendant AC Products, Inc. (hereinafter "AC Products") is a California corporation with its principle place of business in Placentia, California. AC Products owns and operates a facility located at 172 La Jolla Street in Placentia, California. AC Products activities at this location include manufacturing temporary protective coatings for nonporous surfaces. AC Products and DOES 71 through 80, inclusive, as owners and operators of the site, released hazardous wastes, including PCE, at the site.

20. Defendant Fullerton Manufacturing Company (hereinafter "Fullerton Manufacturing") is a California corporation with its principle place of business in Jamaica Plain, Massachusetts. Fullerton Manufacturing owns and operates a facility at 311 South Highland in Fullerton, California. Fullerton Manufacturing and DOES 81 through 90, inclusive, as owners and operators of the site, released hazardous wastes, including TCE, at the site.

21. DOES 91 through 100, inclusive owned and operated a facility at 1551 E. Orangethorpe Avenue, in Fullerton, California, where they released hazardous waste, including PCE and TCE.

22. The District is ignorant of the true names and/or capacities of the defendants sued herein under the fictitious names DOES 1 through 400, inclusive. The defendants named above, and DOES 1 through 400 inclusive, and each of them: (1) owned and/or operated a business which used volatile organic chemicals which have been released into the subsurface; (2) were legally responsible for, and committed one or more of the tortious and wrongful acts alleged in this complaint; and (3) in doing the tortious and wrongful acts alleged in complaint, acted in the capacity of aider, abetter, joint-venturer, agent, principle, successor-in-interest, surviving corporation, controller, alter ego, licensor, patent holder, and/or indemnitor of one or more of the remaining named and/or DOE defendants.

CHEMICALS OF CONCERN AND RELEVANT OPERATIONS

23. This action concerns certain volatile organic chemicals (VOCs), which are typically used as solvents, degreasers, and for other industrial purposes. As used in this complaint, volatile organic chemicals and their degradation products include, trichloroethylene (TCE), tetrachloroethylend (a.k.a. perchloroethylene) (PCE), 1, 1-dichloroethylene (1, 1-DCE),1, 2-dichloroethane (1, 2-DCA), 1,4 dioxane (1-4D), 1, 1, 1-trichloroethane (1, 1, 1-TCA), 1, 1, 2-trichloroethane (1, 1, 2-TCA), 1,2-3 trichloropropane (TCP), 1, 1-dichloroethane (1, 1-DCA),methylene chloride, trans-1, 2,-dichloroethylene (trans-1, 2-DCE) and cis-1, 2-dichloroethylene (cis-1,2-DCE) (hereinafter collectively referred to as VOCs.).

24. PCE and TCE are toxic organic compounds which have been used as cleaning solvents. In soil, PCE can be transformed into TCE, vinylchloride, and 1, 1, 1-trichloroethane (TCA).

25. TCP is an unnecessary contaminant present in certain cleaning solvents.

26. The State of California has determined that each of the VOC's named in this complaint is a "hazardous waste" within the definition of the California Superfund Act due to toxicity and other characteristics. These VOC's, and each of them, readily dissolve in water,

spread through permeable and semi-permeable soils down into and through plumes in groundwater, and require expensive remediation technologies to remove or reduce to below governmentally-established limits.

27. Defendants' historical, current and ongoing releases and disposal of significant quantities of hazardous substances and wastes, at various sites and facilities within the area, have caused the contamination alleged in this Complaint. VOC's in the soil and groundwater, at, under, and emanating from, the sites pose an imminent and substantial threat to public health, natural resources and the environment.

28. This complaint does not allege any cause of action or claim for relief under any federal statute, regulation, or law.

FIRST CAUSE OF ACTION

(Orange County Water District Act – Against All Defendants)

29. The District refers to paragraphs 1 through 26 above, and by this reference incorporates them as though set forth in full.

30. The Orange County Water District Act, California Water Code Appendix 40-1 et. seq., charges the District with both the responsibility and the authority to investigate the sources of contamination and potential contamination within the basin and to pursue legal remedies, including cost recovery, against entities causing or threatening to cause contamination. The District's Board has determined that investigation and remedial work is required by the magnitude of VOC contamination, as described in this Complaint, and that prompt action is needed to prevent, abate, and contain threatened and existing contamination. The Board has authorized the expenditures of funds to conduct such investigation and remediation, and has authorized action to recover all costs and damages associated with such contamination.

31. Defendants, and each of them, within the past three years have caused and are causing the District to conduct investigations of the quality of the groundwater within the District to determine whether those waters are contaminated or polluted with toxic substances, at substantial cost to the District in an amount to be proved at trial.

32. Defendants, and each of them, on various dates within the past three years have

caused, are causing, and will cause the District to perform cleanup, abatement, and/or remedial work needed to prevent, abate, and/or contain threatened or existing contamination of, or pollution to, the groundwater of the District, all at substantial cost to the District in an amount to be proved at trial.

33. Defendants, and each of them, are causing and/or threatening to cause contamination and pollution of the basin. As a direct and proximate result of the acts and omissions of the defendants alleged in this complaint, the District must initiate a remedial program to assess, evaluate, investigate, monitor, abate, clean up, correct, contain, and/or take other necessary remedial action, all at significant expense, cost, loss, and damage in amounts to be proved at trial. Such costs include, but are not limited to, costs incurred to monitor, assess and evaluate the hazardous substances release; costs of removal and disposal of the hazardous substance; costs to remedy permanently the hazardous substance release, including, but not limited to, the storage, confinement, and cleanup of hazardous substances, and any other action necessary to protect public health, welfare, and the environment. Plaintiff further seeks, without limitation, recovery of damages for injury to, destruction of, and/or loss of its interests in the one or more contaminated aquifers and its water and natural resources, recharge and storage, usage and capacity, inter alia, suffered as a result of said contamination.

34. As a direct and proximate result of the acts and omissions of the defendants alleged in this complaint, the District will incur substantially increased expenses, all to the District's damage, in an amount within the jurisdiction of this court. The District has and will incur costs and attorneys' fees in prosecuting this action. The District is entitled to recover all such damages, together with court costs and reasonable attorneys' fees, in this action.

35. As a direct and proximate result of defendants' conduct, the District is entitled to recover all past, present, and future response costs, together with interest from defendants, as well as damages for injury, loss and damages to natural resources.

SECOND CAUSE OF ACTION

(California Superfund Act – Against All Defendants)

36. The District refers to paragraphs 1 through 33 above, and by this reference

incorporates them as though set forth in full.

37. Section 25323.5(a) of the California Health and Safety Code defines a person who is liable under the Carpenter-Presley-Tanner Hazardous Substance Account Act ("California Superfund"). Defendants, and each of them, are owners and/or operators of facilities which have released and are releasing hazardous wastes as alleged herein and are "responsible parties" under California Superfund and liable to the District for response costs and other damages.

38. The contaminants that defendants disposed of and released into the groundwater supply are specifically listed and designated as "hazardous substances" within the meaning of California Health and Safety Code section 25316.

39. As a proximate result of defendants' release and continuing discharge of hazardous substances into the environment, including the groundwater supply, the District has had to incur necessary response costs, including attorneys' fees and expert fees, for which defendants are strictly liable pursuant to California Health and Safety Code section 25363. Plaintiff seeks recovery of response costs and abatement expenses plaintiff has incurred or will incur in connection with the contamination which has migrated and continues to migrate from defendants' operations and facilities. Plaintiff further seeks, without limitation, recovery of damages for injury to, destruction of, and/or loss of its interests in the one or more contaminated aquifers, water and natural resources, recharge and storage, usage and capacity, inter alia, suffered as a result of said contamination. Notice of commencement of this action is being given to the Director of Toxic Substances Control pursuant to California Health and Safety Code section 25363(e).

40. The District seeks contribution and/or indemnity for all response costs under California Health and Safety Code section 25363, which provides that any person who has incurred removal or remedial action costs may seek contribution or indemnity from any responsible party.

41. The District brings this action to: (1) require defendants to investigate and clean up the environmental contamination caused or contributed to by defendants, which has migrated and continues to migrate from numerous industrial, commercial and waste disposal sites and facilities

within the District; and (2) recover the District's costs, expenses, losses and other damages caused by the environmental contamination which has been released and continues to be released into the environment, and which has migrated and continues to migrate, from defendants' facilities and sites.

THIRD CAUSE OF ACTION

(Negligence – Against All Defendants)

42. The District refers to paragraphs 1 through 39 above, and by this reference incorporates them as though set forth in full.

43. Defendants had a duty to use due care in the handling, control, disposal, release, remediation and use of VOC's, and products containing VOC's, at their respective sites.

44. The defendants named herein so negligently, carelessly, and/or recklessly handled, controlled, failed to control, disposed, released, remediated or failed to remediate, and used hazardous substances, and products containing hazardous substances, that they contaminated, threatened, and polluted groundwater resources within the District, resulting in the damages alleged in this complaint.

45. Defendants, and each of them, among other things, negligently, carelessly, and/or recklessly failed to: (1) prevent spills, leaks, discharges and releases of VOC's through the use of appropriate technology; (2) install and maintain systems to prevent spills, leaks, discharges and releases, and facilitate prompt detection and containment of any spills, leaks, discharges and releases; (3) monitor and discover spills, leaks, discharges and releases as soon as possible; (4) warn those who may be injured as a result of spills, leaks, discharges and releases; and (5) clean up and abate spills, leaks, discharges and releases as thoroughly and quickly as reasonably possible and in a manner necessary to prevent harm and injury to plaintiff and others.

46. Defendants undertook to retain consultants to conduct environmental investigations and cleanups, thereby affirmatively undertaking the duty to detect and remediate spills, leaks, discharges and releases of VOC's. Defendants, however, negligently failed to properly discharge these duties.

47. The defendants knew, or should have known, that VOC's would spill, leak, discharge and release into the soil and contaminate groundwater.

48. By their conduct defendants, and each of them, among other things, are:

(a) Causing and/or permitting the discharge of hazardous wastes (VOC's) into groundwater resources, creating conditions of pollution and/or nuisance within the meaning of California Water Code section 13050;

(b) Using groundwater in the District for waste disposal, an unreasonable and non-beneficial use of groundwater resources, in violation of California Constitution Article 10, Section 2; and

(c) Impairing the District's rights to maintain the quality of groundwater throughout the District.

49. As a direct and proximate result of defendants' acts and omissions as alleged herein, the District has incurred within the past three years, is incurring, and will continue to incur, investigation, remediation and treatment costs and expenses required to restore its groundwater resources, and other damages as alleged herein, in an amount to be proved at trial.

50. Defendants knew that it was substantially certain that their alleged acts and omissions described above would threaten public health and cause extensive contamination of public drinking water supplies and property damage. Defendants committed each of the above described acts and omissions knowingly, willfully, and with oppression, fraud, and/or malice and with conscious disregard of the health and safety of others, and of the District's rights.

51. This conduct is reprehensible, despicable, and was performed in conscious disregard of the known risks of injury to health and property. Defendants acted with willful and conscious disregard of the probable dangerous consequences of that conduct and its foreseeable impact upon the District. Therefore, the District requests an award of exemplary damages in an amount sufficient to punish defendants.

FOURTH CAUSE OF ACTION

(Nuisance – Against All Defendants)

52. The District realleges paragraphs 1 through 49 of this complaint and incorporates

them herein by reference.

53. The negligent, reckless, intentional and ultrahazardous activity of the defendants, and each of them, as alleged herein, has resulted in the contamination and pollution of groundwater within the District, and constitutes a nuisance. The contamination and pollution of such groundwater with VOC's is a public nuisance as defined in Civil Code section 3479, Civil Code section 3480, Health and Safety Code section 5410, and Water Code section 13050, and is reasonably abatable and varies over time. The defendants, and each of them, caused, created, and/or assisted in the creation of the nuisance alleged herein.

54. The defendants, their agents and employees, handled, controlled, disposed, released and used VOC's, and products containing VOC's, with reckless disregard for human health, the environment, and for the peace, tranquility, and economic well-being of the public, resulting in the nuisance alleged herein.

55. The aforesaid nuisance is continuing because it is reasonably abatable and/or because the groundwater contamination herein at issue continues to migrate, move, and spread onto, into and across the subsurface of the District's property and wells, and through one or more contaminated aquifers, and its impact has thus varied, and continues to vary, over time. Defendants, and each of them, have threatened to, and will, unless restrained by this Court, continue to maintain the nuisance by failing to investigation, remove, and remediate the environmental contamination which has migrated and continues to migrate from defendants' operations and facilities, and each and every failure to act has been, and will be, without the consent, against the will, and in violation of the rights of the District. Unless defendants, and each of them, are restrained by order of this Court from continuing their non-responsive course of conduct and failure to abate the contamination which has migrated and continues to migrate from defendants' operations and facilities, it will be necessary for the District to commence many successive actions against defendants, and each of them, to secure compensation for damage sustained, thus requiring a multiplicity of suits.

56. The District is specially and adversely affected by the nuisance.

57. The nuisance caused by defendants, and each of them, has substantially interfered

with and obstructed the District's ability to utilize water resources free from unacceptable health risk, taste, odor, pollution and contamination, and to protect groundwater within its territory from such harm.

58. The District owns, holds and/or represents property rights, water rights, and interests damaged by the nuisance. The District's injury is separate and distinct from that of the public.

59. The District has not consented to and does not consent to this nuisance. Defendants, and each of them, knew or should have known, that the District would not consent to this nuisance.

60. As a direct and proximate result of the nuisance, the District has been damaged within the past three years and is entitled to the compensatory and exemplary damages alleged herein, or to such other appropriate relief as the District may elect at trial, including, but not limited to, equitable relief in the form of an order requiring defendants to abate the nuisance.

61. For the reasons alleged in paragraphs 48 and 49, the District is entitled to an award of exemplary and punitive damages against defendants.

FIFTH CAUSE OF ACTION

(Trespass – Against All Defendants)

62. The District realleges paragraphs 1 through 59, inclusive, of this complaint and incorporates them herein by reference.

63. The District is the owner, actual possessor, and/or represents the interests of the owners and/or actual possessors of property rights and interests in the groundwater within its territory, including the right to appropriate and regulate the use of water and the right to protect such groundwater from contamination and pollution. Defendants, their agents and employees, knew or in the exercise of reasonable care should have known, that VOC's are extremely hazardous to groundwater and public water supplies, including the property and other rights of the District and the water users it represents.

64. The defendants so negligently, recklessly and/or intentionally spilled, leaked, released, and/or discharged, and failed to properly control, handle, store, contain, and use VOC's, and products containing VOC's, that they proximately caused VOC's to contaminate and trespass

upon the District's property and interests as follows:

(a) The defendants participated in the use, storage, and release of VOC's by owning, controlling, regulating, designing, installing, operating, monitoring, inspecting and testing, or by failing to do so, the uses and storage of VOC's at their respective sites, and thereby proximately caused VOC's to be spilled, leaked, released and discharged into groundwater;

(b) Defendants retained consultants and negligently controlled and/or directed their cleanup and remediation activities (or the lack thereof), thereby causing and permitting VOC's to contaminate and pollute the District's property, and defendants failed to warn the appropriate entities and individuals, including the District, of known risks, spills, releases and/or leaks, and/or failed to undertake reasonable, appropriate or necessary action to reduce, remediate, or abate VOC groundwater contamination.

(c) When defendants learned, or reasonably should have learned, that VOC's were a persistent, significant and/or widespread source of groundwater contamination, or threatened to become so, defendants failed to warn the appropriate entities and individuals, including the District, of known risks, spills, releases and/or leaks, and/or failed to undertake reasonable, appropriate or necessary action to reduce, remediate, or abate VOC's and groundwater contamination.

65. The contamination of groundwater within the District with VOC's has varied and will vary over time and requires investigation, remediation, abatement, and/or treatment. The District has engaged, is engaging and will engage, in remediation, abatement, investigation, and/or treatment programs and/or in securing replacement water supplies, and has thereby sustained within the past three years, and still is sustaining, and will sustain, the damages alleged herein.

66. The defendants, and each of them, caused, created, and/or assisted in the creation of the trespass alleged herein.

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67. For the reasons alleged in paragraphs 48 and 49, the District is entitled to an award of exemplary and punitive damages against defendants.

SIXTH CAUSE OF ACTION

(Declaratory Relief – Against All Defendants)

68. The District realleges paragraphs 1 through 65, inclusive, and incorporates them herein by reference.

69. Defendants knew, or should have known, that VOC's, when used in a foreseeable and intended manner, were dangerous and created an unreasonable and excessive risk of harm to human health and the environment.

70. The defendants intentionally, willfully, deliberately and/or negligently failed to properly handle, control, dispose, and release VOC's, such that defendants created substantial and unreasonable threats to human health and the environment, which resulted from the foreseeable and intended use and storage of VOC's and products containing VOC's.

71. Among other things, the District must take costly remedial action to remove VOC contamination and/or secure alternative water supplies which will result in substantial costs, expenses and damages within the jurisdiction of this Court.

72. Defendants, and each of them, have failed to reimburse the District for the Districts' VOC-related investigation, remediation and cleanup costs and deny any responsibility or liability for these damages and expenses the District will incur in the future.

73. An actual controversy exists concerning who is responsible for abating actual or threatened pollution or contamination of groundwater resources within the District by VOC's.

74. In order to resolve this controversy, the District seeks an adjudication of the respective rights and obligations of the parties, and other relief to the extent necessary to provide full relief to the District.

PRAYER

WHEREFORE, the District requests judgment against defendants, and each of them, for:

1. Compensatory damages according to proof;

OCWD 042940

2. Exemplary damages in an amount sufficient to punish defendants and to deter defendants from ever committing the same or similar acts;

3. An Order declaring that defendants are liable for the full cost of all remedial and other actions necessary to abate and remove VOC's which are contaminating and threatening the District's property, and for such orders as may be necessary to provide full relief to the District;

4. An Order declaring that defendants' VOC contamination constitutes a nuisance, and compelling defendants to abate that nuisance;

5. Attorneys' fees to the full extent permitted by law;

6. Costs incurred in prosecuting this action, and prejudgment interest to the full extent permitted by law; and

7. For such and other further relief as the court may deem just and proper.

Dated: April 8, 2005

MILLER, AXLINE & SAWYER
A Professional Corporation

By: _____
DUANE C. MILLER
Attorneys for Plaintiff
Orange County Water District

OCWD 042941

Duane C. Miller, #57812
Michael D. Axline, #229840
A. Curtis Sawyer, Jr., #101324
Tracey L. O'Reilly, #206230
Tamarin E. Austin, #207903
Evan Bickmeyer, #166652
Daniel Boone, #148841
MILLER, AXLINE & SAWYER
A Professional Corporation
1050 Fulton Avenue, Suite 100
Sacramento, CA 95825-4272
Telephone: (916) 488-6688
Facsimile: (916) 488-4288

Attorneys for Plaintiff
Orange County Water District

(Exempt from filing fees per Govt. Code, § 6103)

FILED
SUPERIOR COURT OF CALIFORNIA
COUNTY OF ORANGE
CENTRAL JUSTICE CENTER

APR 21 2005

ALAN SLATER, Clerk of the Court

BY E. BLOMBERG DEPUTY

SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF ORANGE

ORANGE COUNTY WATER DISTRICT,

Plaintiff,

v.

NORTHROP CORPORATION; NORTHROP GRUMMAN CORPORATION; AMERICAN ELECTRONICS, INC.; MAG AEROSPACE INDUSTRIES, INC.; GULTON INDUSTRIES, INC.; MARK IV INDUSTRIES, INC; EDO CORPORATION; AEROJET-GENERAL CORPORATION; MOORE BUSINESS FORMS, INC.; AC PRODUCTS, INC.; FULLERTON MANUFACTURING COMPANY; FULLERTON BUSINESS PARK LLC; and DOES 1 through 400, inclusive,

Defendants.

CASE NO. 04CC00715

PLAINTIFF'S AMENDMENT TO SUBSTITUTE TRUE NAME FOR FICTITIOUS NAME

[C.C.P. § 474]

[MICRODOT, INC., DOE 102]

OCWD 042942

Plaintiffs have learned the true identity of the defendant sued in the complaint as DOE 102, and hereby substitutes the true name of "Microdot, Inc." for that fictitious name wherever it appears in the complaint.

Dated: April 20, 2005

MILLER, AXLINE & SAWYER
A Professional Corporation

By:
DUANE C. MILLER
Attorneys for Plaintiff
Orange County Water District

Attachment B

Dismissal of Legal Claim

ATTORNEY OR PARTY WITHOUT ATTORNEY (Name and Address): Duane C. Miller (SBN 57812) Miller, Axline & Sawyer 1050 Fulton Avenue, Ste. 100 Sacramento, California 95825 ATTORNEY FOR (Name): Plaintiff Orange County Water District	TELEPHONE NO.:
	FOR COURT USE ONLY FILED SUPERIOR COURT OF CALIFORNIA COUNTY OF ORANGE CENTRAL JUSTICE CENTER MAR 28 2005 ALAN SLATER, Clerk of the Court By MARGARET DEMARIA
Orange County Superior Court	
PLAINTIFF/PETITIONER: Orange County Water District DEFENDANT/RESPONDENT: Northrop Corporation, et al.	
REQUEST FOR DISMISSAL ☐ Personal Injury, Property Damage, or Wrongful Death ☐ Motor Vehicle ☐ Other ☐ Family Law ☐ Eminent Domain ☑ Other (specify): Toxic Tort	CASE NUMBER: 04CC00715

— A conformed copy will not be returned by the clerk unless a method of return is provided with the document. —

1. TO THE CLERK: Please dismiss this action as follows:
   a. (1) ☐ With prejudice (2) ☑ Without prejudice
   b. (1) ☐ Complaint (2) ☐ Petition
   (3) ☐ Cross-complaint filed by (name): on (date):
   (4) ☐ Cross-complaint filed by (name): on (date):
   (5) ☐ Entire action of all parties and all causes of action
   (6) ☑ Other (specify): AS TO DEFENDANT FULLERTON BUSINESS PARK, LLC ONLY

Date:

DUANE C. MILLER
(TYPE OR PRINT NAME OF ☑ ATTORNEY ☐ PARTY WITHOUT ATTORNEY)

* If dismissal requested is of specified parties only, of specified causes of action only, or of specified cross-complaints only, so state and identify the parties, causes of action, or cross-complaints to be dismissed.

▶ _____
(SIGNATURE)
Attorney or party without attorney for:
☑ Plaintiff/Petitioner ☐ Defendant/Respondent
☐ Cross-complainant

2. TO THE CLERK: Consent to the above dismissal is hereby given.**

Date:

(TYPE OR PRINT NAME OF ☐ ATTORNEY ☐ PARTY WITHOUT ATTORNEY)

** If a cross-complaint—or Response (Family Law) seeking affirmative relief—is on file, the attorney for cross-complainant (respondent) must sign this consent if required by Code of Civil Procedure section 581(i) or (j).

▶ _____
(SIGNATURE)
Attorney or party without attorney for:
☐ Plaintiff/Petitioner ☐ Defendant/Respondent
☐ Cross-complainant

(To be completed by clerk)

3. ☑ Dismissal entered as requested on (date): MAR 28 2005.
4. ☐ Dismissal entered on (date): as to only (name): ALAN SLATER
5. ☐ Dismissal not entered as requested for the following reasons (specify):

6. ☐ a. Attorney or party without attorney notified on (date):
   b. Attorney or party without attorney not notified. Filing party failed to provide
   ☐ a copy to conform ☐ means to return conformed copy

Date: MAR 28 2005

Clerk, by MARGARET DEMARIA, Deputy

Form Adopted by the Judicial Council of California
982(a)(6) [Rev. January 1, 1997]

REQUEST FOR DISMISSAL

Code of Civil Procedure, § 581 et seq.
Cal. Rules of Court, 1233

APPENDIX F

Reference:
OCAPCD, 1961

AIR POLLUTION CONTROL DISTRICT

COUNTY OF ORANGE

PERMIT

IS HEREBY GRANTED TO

ARNOLD ENGINEERING CO.

TO OPERATE

2 - DEGREASERS W/LIP EXHAUSTED TO ROOF 1 Degreaser removed 1-11-79

located at

1551 E. Orangethorpe, Fullerton, California

SUBJECT TO THE FOLLOWING CONDITIONS

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 20, CHAPTER 2, ARTICLE 3, OF THE HEALTH AND SAFETY CODES OF THE STATE OF CALIFORNIA OR THE RULES AND REGULATIONS OF THE AIR POLLUTION CONTROL DISTRICT.

DATE 11/3/61

PERMIT NO 1253

WILLIAM FITCHEN
AIR POLLUTION CONTROL OFFICER

By: _____
CHAS. W. DOUGAN, Engineer (Title)

REVOCABLE AND NOT TRANSFERABLE

Reference:
OCAPCD, 1970

AIR POLLUTION CONTROL DISTRICT

COUNTY OF ORANGE

PERMIT

IS HEREBY GRANTED TO

THE ARNOLD ENGINEERING CO. PACIFIC DIV.,

TO OPERATE

BARON BLAKESLEE DEGREASER SER. NO. 5918, 12-KVA

located at

1551 E. Orangethorpe Ave., Fullerton, CAlif.

SUBJECT TO THE FOLLOWING CONDITIONS

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 20, CHAPTER 2, ARTICLE 3, OF THE HEALTH AND SAFETY CODES OF THE STATE OF CALIFORNIA OR THE RULES AND REGULATIONS OF THE AIR POLLUTION CONTROL DISTRICT.

DATE **June 1, 1970**

PERMIT NO. **70-2192**

WILLIAM FITCHEN
AIR POLLUTION CONTROL OFFICER

By: _____
Douglas F. Jeffrey (Title)
Air Pollution Engineer

REVOCABLE AND NOT TRANSFERABLE

Reference:
OCAPCD, 1975

AIR POLLUTION CONTROL DISTRICT

COUNTY OF ORANGE

PERMIT

IS HEREBY GRANTED TO

ARNOLD ENGINEERING CO.

TO OPERATE

Delta degreaser DH525 (series number D3062)
36" x 68" x 78" (830 gallon capacity)
located at
1551 E. Orangethorpe, Fullerton, Calif.

SUBJECT TO THE FOLLOWING CONDITIONS

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 20, CHAPTER 2, ARTICLE 3, OF THE HEALTH AND SAFETY CODES OF THE STATE OF CALIFORNIA OR THE RULES AND REGULATIONS OF THE AIR POLLUTION CONTROL DISTRICT.

DATE 4-23-75

H. G. OSBORNE
AIR POLLUTION CONTROL OFFICER

PERMIT NO. 75-4480

By: _____ (Title)
Bob Nishimura
Air Pollution Engineer

F0116-14 1

REVOCABLE AND NOT TRANSFERABLE

Reference:
OCAPCD, 1976

SOUTHERN CALIFORNIA AIR POLLUTION CONTROL DISTRICT

~~ORANGE COUNTY ZONE~~ SOUTHERN ZONE

PERMIT

IS HEREBY GRANTED TO

THE ARNOLD ENGINEERING COMPANY

TO OPERATE

Solvent degreaser, 24" wide x 24" long x 30" high; 3 KW electric heater, custom made

located at

1551 E. Orangethorpe, Fullerton, CA 92634

SUBJECT TO THE FOLLOWING CONDITIONS

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 20, CHAPTER 2, ARTICLE 3, OF THE HEALTH AND SAFETY CODES OF THE STATE OF CALIFORNIA OR THE RULES AND REGULATIONS OF THE AIR POLLUTION CONTROL DISTRICT

DATE June 17, 1976

H. G OSBORNE

AIR POLLUTION CONTROL OFFICER

PERMIT NO. 76-6303

By: _____

WARREN TALBOT (Title)

CHIEF ENGINEERING & ANALYSIS

F0250-45

REVOCABLE AND NOT TRANSFERABLE

Reference:
OCAPCD, undated

COUNTY OF ORANGE
AIR POLLUTION CONTROL DISTRICT
1010 South Harbor Blvd., Anaheim, California 92805
(714) 774-0284

DEGREASER SUMMARY

One copy of this form must be filled out completely for each degreaser and must accompany the triplicate application for permit.

1. BUSINESS LICENSE NAME OF CORPORATION, COMPANY, OR INDIVIDUAL OWNER OR GOVERNMENTAL AGENCY UNDER WHICH APPLICATION IS SUBMITTED: ARNOLD ENGINEERING

2. DEGREASER MANUFACTURER, MODEL NUMBER & SERIAL NUMBER: DELTA BA525 D4020

3. OUTSIDE DIMENSIONS OF TANK: 36" WIDE x 68" HIGH x 78" LONG 3 x 5.10 x 6.5

4. TYPE OF VAPOR LEVEL CONTROLS: THERMOSTAT ☐ WATER RING ☒ OTHER ☐ NONE ☐

5. DEPTH FROM RIM OF TANK TO VAPOR LEVEL CONTROL DEVICE: 18" INCHES

6. METHOD OF HEATING: GAS ☐ ELECTRIC ☒ STEAM ☐ NONE ☐

7. LIST ALL TYPES AND QUANTITY OF DEGREASER SOLVENT USED:

TRICHLOROETHYLENE _____ 55 GAL. DRUMS PER MONTH

PERCHLOROETHYLENE _____ 55 GAL. DRUMS PER MONTH

OTHER (DESCRIBE) 111 TRICLOROETHANE 160 GAL/MO

(ANY OTHER CONVENIENT MEASURE SUCH AS LBS. PER DAY OR GALS. PER DAY MAY BE USED IF DESIRED.)

8. OPERATIONAL DATA:

USUAL OPERATING SCHEDULE: 8 HRS/DAY 5 DAYS/WEEK

ARTICLES DEGREASED: _____

THE ABOVE INFORMATION IS SUBMITTED TO DESCRIBE THE USE OF THE DEGREASER FOR WHICH APPLICATION FOR PERMIT IS BEING MADE ON THE ACCOMPANYING FORM

SIGNATURE OF RESPONSIBLE MEMBER OF FIRM: X William R. Kincaid

TYPE OR PRINT NAME AND OFFICIAL TITLE OF PERSON SIGNING THIS DATA FORM.	NAME William R. Kincaid
	TITLE General Manager

DO NOT WRITE BELOW THIS LINE

AVG. DAILY SOLVENT LOSS TO ATMOSPHERE	APPL. NO.	DATE
	PROCESSED BY	CHECKED BY

COMMENTS:

P 0110-00.1

NGSC55457

Reference:
OCHCA, 1995

COUNTY OF ORANGE

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ENVIRONMENTAL HEALTH DIVISION
ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

HEALTH CARE AGENCY
PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH DIVISION
2009 E. EDINGER AVENUE
SANTA ANA, CALIFORNIA 92705
(714) 667-3700

12/21
1/29

December 15, 1995

Carl Ross
Red Eagle Properties, Ltd.
2020 Lynx Trail
Ontario, CA 91761

Subject: **Case Closure**

Re: Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, CA 92631
O.C.H.C.A. Case # 94IC29

Dear Mr. Ross:

This letter confirms the completion of remedial action at the above referenced site. With the provision that the information provided to this Agency was accurate and representative of existing conditions, it is the position of this office that no further action is required at this time.

This confirmation of completion is limited in scope. It is limited to site conditions made known to this Agency under the above referenced case number. It is based on an evaluation of the health threat presented by the inhalation, ingestion, or dermal absorption of the residual contaminants. In addition, this evaluation considered the present and proposed use of the property. Changes in the present or proposed land use may require further site characterization and/or site mitigation activity.

The presence of chlorinated hydrocarbons and the potential for residual contamination present at this site to cause groundwater contamination had been made known to the Santa Ana Regional Water Quality Control Board. The Regional Board decided that no groundwater investigation will be required for this site at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health. It is the property owner's responsibility to notify this Agency of any changes in future contamination findings or site usage.

If you have any questions regarding this matter, please contact Luis Lodrigueza at (714) 667-3717.

Very truly yours,

Karen L. Hodel, R.G.
Program Manager
Hazardous Materials Management Section
Environmental Health Division

KLH:WJD:LL:

cc: Robert Holub, Santa Ana Regional Water Quality Control Board
Henry Ames, Converse Consultants - Orange County

CASE CLOSURE REPORT

O.C.H.C.A. Case No.: 94IC29

December 14, 1995

D.B.A: Fullerton Business Park North
1551 E. Orangethorpe Avenue
Fullerton, CA 92631

R.P.: Carl Ross/Red Eagle Properties, Ltd.

Current Land Use: Light industrial/commercial
Adjacent Land Use: Commercial
Future Land Use: Light industrial/commercial

Highest Concentrations in Soil (mg/kg)

	Initial				Final				
Contaminants	15′	20′	25′	Other	15′	20′	25′	30′	PRGs (ppm)
TRPH	3,600	NT	12	12 (40′)	NT*	NT	NT	NT	---
PCE	84.5	96	92	17.5 (30′)	6.2	12.8	25.3	10.6	25
TCE	NT	NT	NT	0.42 (95′)	1.1	3.4	1.0	1.2	17
1,1,1 TCA	NT	NT	NT	0.007 (60′)	0.59	5.6	19.6	0.9	3,000
1,1 DCE	NT	NT	NT	0.16 (60′)	N.D.	3.1	0.89	N.D.	0.082

Deepest Remaining Contamination:

PCE	0.11 ppm	@ 60′ bgs
TCE	0.16 "	@ 105′ bgs
1,1 DCE	0.056 "	@ 105′ bgs
1,1,1 TCA	0.0068 "	@ 60′ bgs

*Not Tested

Soil Types: Interbedded sandy silt, silty sand and silty clay/clayey silt, the latter two predominating at 15′ to 20′ bgs

Depth To Groundwater: 115 ft bgs, measured

Case Summary & Closure Rationale

This property was acquired by Red Eagle Properties from Resolution Trust Corporation in May 1994 and was sold to a new owner, Elden County Affaire, a furniture manufacturer, in March 1995.

Two clarifiers, discovered during a 1992 site investigation , were removed in September 1994. These were located in the northeast section of the property, one each at the northern and southern sides of the existing warehouse. Soil samples collected from the excavations showed elevated TRPH and PCE levels in the southern clarifier area; no

contamination was detected in soil beneath the clarifier located north of the impacted area. That entire portion of the property is now paved with concrete.

Seven initial, followed by 9 other, soil geoprobes were advanced around the impacted area to define the vertical and lateral extent of contamination. Two other deep borings were also drilled with the intent of installing groundwater monitoring wells. Saturated conditions were encountered at a depth of 115' bgs, but the borings were not advanced to groundwater due to the presence of about 50 ft of soil column above the water table that had not been impacted by PCE---although TCE and DCE were detected in one borehole in alternating silt and clay lenses down to a depth of 105 ft bgs.

The most highly impacted horizon was at the depth of 15' to 25' bgs, and HCA evaluation of the excess lifetime cancer risk (ELCR) for PCE occurrence here indicated unacceptable risk levels. Remediation of the impacted soil was thus undertaken with a soil vapor extraction system which operated for about 3 months from August to November 1995. Pulsing was conducted in mid-November and VOC measurements showed no re-start spiking of contamination; instead, a further decline in VOC concentrations was observed during the first week of operation after the system shutdown.

Confirmation boring was therefore undertaken on December 1, 1995. Three boreholes were installed adjacent to each of the 3 original boreholes that showed the most badly impacted soil, and samples collected at depths that showed the highest levels of PCE. Laboratory analytical results showed that the remediation had significantly reduced soil PCE concentrations by as much as 99% at 15' bgs, 87% at 20' bgs and 84% at 25' bgs in the two most impacted locations. A third, relatively less contaminated spot showed an 11% decrease in PCE at 25' bgs.

In addition to PCE, the following were also detected in the soil column: TCE, DCE and TCA. The former owner's consultant, Converse Consultants-Orange County, however, felt that---in spite of these degradation products---residual VOC concentrations are at such low levels as to pose any significant health threat, and that no further action is needed at this time.

Re-evaluation of the health risk arising from this residual contamination using HCA's vapor diffusion model showed that the combined ELCR from the carcinogenic chemicals PCE, TCE and DCE is less than 1.0 E-06.

The SARWQCB, after meeting with Red Eagle representatives in November 1995, decided that Red Eagle did not discharge the PCE and other contaminants on to site; and that Red Eagle did not own the property during the time the discharges took place. In view of this, and the acknowledged undertaking by Red Eagle of diligent efforts to mitigate the soil impact by operating a soil vapor extraction system after determining

that past discharges had impacted the site, the SARWQCB withdrew its earlier request to Red Eagle to investigate groundwater (see SARWQCB letter to Red Eagle dated December 11, 1995). Furthermore, although the SARWQCB is unable "to absolve any current property owner of responsibility for any site investigation or cleanup, considering that the soil impacts at this site have been adequately mitigated, it is not considering issuing an order requiring a groundwater investigation at this time."

In light of the above discussion, it is recommended that this case be closed.

Luis Lodrigueza
Hazardous Waste Specialist
12/15/95

12/15/95

Reference:
OCHCA, 2007

COUNTY OF ORANGE
HEALTH CARE AGENCY

REGULATORY HEALTH SERVICES
ENVIRONMENTAL HEALTH

JULIETTE A. POULSON, RN, MN
DIRECTOR

MIKE SPURGEON
DEPUTY AGENCY DIRECTOR
REGULATORY HEALTH SERVICES

RICHARD SANCHEZ, REHS, MPH
DIRECTOR
ENVIRONMENTAL HEALTH

MAILING ADDRESS.
1241 E DYER ROAD STE 120
SANTA ANA, CA 92705-5611

TELEPHONE: (714) 433-6000
FAX: (714) 754-1768
E-MAIL ehealth@ochca com

HAZARDOUS MATERIALS MANAGEMENT SECTION

Remedial Action Agreement Notification (Revised)

Orange County Health Care Agency, Environmental Health proposes to enter into a Remedial Action Agreement with the Responsible Party listed below. Pursuant to Section 101487, Article 5, Chapter 4, Part 3, Division 101 of the Health & Safety Code, the following information is provided as notification to your Agency.

A. Site Name Fullerton Business Park-North
Site Address 1551 Orangethorpe Avenue, Fullerton, CA 92833

B. Responsible Party Universal Molding Company
Mailing Address 9151 East Imperial Highway, Downey, CA 90240
Contact Person Dominick Baione Telephone ____ Fax ____

C. Site Owner Universal Molding Company
Mailing Address Same As Above
Telephone (714) 920-9362 Fax ____

D. Any known or planned Local, State or Federal regulatory involvement? ☑ Yes ☐ No
Remedial investigation/action oversight

E. Notification Date July 24, 2007
If you have questions, please contact Luis Lodrigueza at (714) 433-6253 (*Phone*) or (714) 754-1768 (*Fax*).

Department of Toxic Substances Control ☑
Attn: Greg Holmes, Unit Chief
Southern California Cleanup Operations
5796 Corporate Avenue
Cypress, CA 90630
Phone: (714) 484-5461 Fax: (714) 484-5438

California Regional Water Quality Control ☑
Board - Santa Ana Region
Attn: Ann Sturdivant, Chief
SLIC.DOD.AGT Section
3737 Main Street, Suite 500 Phone: (951) 782-4130
Riverside, CA 92501-3339 Fax:: (951) 781-6288

Reference:
RCRIS, 2015

de_desc=&sic_code=&all_programs=YES&chem_name=&chem_search=Beginning+With&cas_num=&program_search=1&report=1&page_no=1&output_sql_switch=TRUE&database_type=RCRAINFO

Envirofacts

Search Results

RCRAInfo

Data Disclaimer

Consolidated facility information (from multiple EPA systems) was searched to select facilities

<< Return

EPA Facility ID: Beginning With: 110009555169

RCRAInfo Links

- Overview
- Search
- Model
- Law
- RCRAInfo Search User Guide
- Contact Us
- Office of Resource Conservation and Recovery Home

Report an Error

Results are based on data extracted on MAY-13-2015
Note: Click on the CORPORATE LINK value for links to that company's environmental web pages.
Click on the MAPPING INFO value to obtain mapping information for the facility.

The facility information data within the output below can be downloaded in a comma-seperated value file for use in Excel by clicking here:

Go To Bottom Of The Page

HANDLER NAME:	UNIVERSAL MOLDING CO	HANDLER ID:	CAT000624668
STREET:	1551 E ORANGETHORPE AVE	FACILITY INFORMATION:	View Facility Information
CITY:	FULLERTON	CORPORATE LINK:	No
STATE:	CA	COUNTY:	ORANGE
ZIP CODE:	92831	MAPPING INFO:	MAP
EPA REGION:			
LATITUDE	33.85961	LONGITUDE	-117.90081

CONTACT INFORMATION

NAME	STREET	CITY	STATE	ZIP CODE	PHONE	TYPE OF CONTACT
JOHN WALL	9151 E IMPERIAL HWY	DOWNEY	CA	90241	562-686-0529	Public
DONALD SUTRO	1936 E DEERE AVE STE 216	SANTA ANA	CA	92705	7144763200	Permit
JOHN WALL	9151 E IMPERIAL HWY	DOWNEY	CA	90241	562-686-0529	Permit

LIST OF NAICS CODES AND DESCRIPTIONS

NAICS CODE	NAICS DESCRIPTION
332812	METAL COATING, ENGRAVING (EXCEPT JEWELRY AND SILVERWARE), AND ALLIED SERVICES TO MANUFACTURERS
332321	METAL WINDOW AND DOOR MANUFACTURING

Go To Top Of The Page

Total Number of Facilities Retrieved: 1

Last updated on 5/27/2015

EPA United States Environmental Protection Agency

Envirofacts

FRS Facility Detail Report

FRS

UNIVERSAL MOLDING CO

1551 E ORANGETHORPE AVE
FULLERTON, CA 92831
EPA Registry Id: 110009555169

Facilty Registry Service Links

- Search
  - FRS Facility Query
  - FRS EZ Search
  - Organization Search
- FRS Physical Data Model
- FRS Geospatial Model
- Contact Us
- Facility Registry Service (FRS) Home

Report an Error

Legend

- ★ Selected Facility
- ■ EPA Facility of Interest
- ■ State/Tribe Facility of Interest

The facility locations displayed come from the FRS Spatial Coordinates tables. They are the best representative locations for the displayed facilities based on the accuracy of the collection method and quality assurance checks performed against each location. The North American Datum of 1983 is used to display all coordinates.

Environmental Interests

Information System	System Facility Name	Information System Id/Report Link	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM	UNIVERSAL MOLDING CO	CAT000624668	SQG (Y)	RCRAINFO	03/28/2012	

Additional EPA Reports: MyEnvironment | Enforcement and Compliance | Site Demographics | Facility Coordinates Viewer | Environmental Justice Map Viewer | Watershed Report

Standard Industrial Classification Codes (SIC)

No SIC Codes returned.

National Industry Classification System Codes (NAICS)

Data Source	NAICS Code	Description	Prima
RCRAINFO	332321	METAL WINDOW AND DOOR MANUFACTURING.	
RCRAINFO	332812	METAL COATING, ENGRAVING (EXCEPT JEWELRY AND SILVERWARE), AND ALLIED SERVICES TO MANUFACTURERS.	

Facility Codes and Flags

EPA Region:	09
Duns Number:	
Congressional District Number:	39
Legislative District Number:	4
HUC Code/Watershed:	18070106 / SAN GABRIEL
US Mexico Border Indicator:	NO
Federal Facility:	NO
Tribal Land:	NO

Facility Mailing Addresses

Affiliation Type	Delivery Point	City Name	State	Postal Code	Information Syste
REGULATORY CONTACT	9151 E IMPERIAL HWY	DOWNEY	CA	90241	RCRAINFO
FACILITY MAILING ADDRESS	9151 E IMPERIAL HWY	DOWNEY	CA	90241	RCRAINFO
OWNER	9151 E IMPERIAL HWY	DOWNEY	CA	90241	RCRAINFO

Alternative Names

Alternative Name	Source of Data
FULLERTON NORTH PARTNERS	RCRAINFO

Contacts

Affiliation Type	Full Name	Office Phone	Information System	Mailing Address
REGULATORY CONTACT	JOHN WALL	562-686-0529	RCRAINFO	View
REGULATORY CONTACT	JOHN WALL	562-686-0529	RCRAINFO	View

Organizations

Affiliation Type	Name	DUNS Number	Information System	Mailing Address
OPERATOR	UNIVERSAL MOLDING COMPANY INC		RCRAINFO	
OWNER	UNIVERSAL MOLDING COMPANY INC		RCRAINFO	View
OWNER	UNIVERSAL MOLDING COMPANY INC		RCRAINFO	View

Query executed on: MAY-27-2015

Reference:
Reynolds, 2007

August 9, 2007
(TRG No. 7115)

THE REYNOLDS GROUP
a California corporation

Mr. Luis Lodrigueza
ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
1241 E. Dyer Road Suite 120
Santa Ana, CA 92705-5611

SITE: **FULLERTON BUSINESS PARK NORTH**
(FORMER OCHCA #94IC29)
1551 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

SUBJECT: **SUMMARY SHALLOW SOIL VAPOR SURVEY AND INTERIOR CEILING HEIGHTS**

Dear Mr. Lodrigueza:

As we agreed in our meeting with Ed Reynolds, John Cleary, Christa Wolfe and you on July 24, 2007, The Reynolds Group (TRG) conducted a shallow soil vapor survey and measured ceiling heights inside the warehouse at 1551 East Orangethorpe Avenue in Fullerton, California, the subject site (the Site). A soil vapor screening was also performed for eighteen sample locations, SV1 to SV17, on March 9, 2007. The purpose of the July 2007 soil vapor survey and warehouse ceiling measurements was to fill in data gaps so that the Orange County Health Care Agency (OCHCA) could model the indoor human health risk to chlorinated solvent vapors detected in the soil beneath the warehouse. See the attached Figure 1- Site Location Map.

The shallow soil gas survey was conducted on July 30, 2007 and consisted of six sample locations, SV18 to SV23, that were collected at approximately one foot beneath the concrete floor slab. The soil vapor test was conducted according to the Department of Toxic Substances Control's (DTSC's) January 28, 2003 "Advisory – Active Soil Gas Investigations". The maximum concentrations of tetrachloroethylene (PCE) and trichloroethylene (TCE) for both the March and July sample events were 1,079.4 and 710.8 micrograms per liter (ug/L), respectively. Soil vapor sample SV-22 contained the maximum concentrations and was located in an additional storage room on the northeast side of the building. The next highest PCE detection was 222.2 ug/L in soil vapor sample SV10, which was also located in the northeast corner of the property. Note, soil vapor sample locations SV10 and SV22 are located approximately 125 ft southeast of an operating, offsite soil vapor extraction blower and vapor wells on the property formerly occupied by Johnson Controls. The inside height of the warehouse measures between 10 and 20 feet above the concrete floor. See the attached Figure 2 – Site Plot Plan with Soil Vapor Results and Inside Ceiling Heights for the results.

Please use the information provided in Figure 2 to run your vapor intrusion models. We look forward to hearing from you after you complete your calculations.

RECEIVED HCA/RH
AUG 14 2007
ENVIRONMENTAL HLTH

Tel 714-730-5397 PO Box 1996, Tustin, California 92781-1996 Fax 714-730-6476
www.reynolds-group.com

SUMMARY OF FIELD ACTIVITIES

On July 30, 2007, TRG directed Optimal Technology of Chatsworth to collect six soil vapor samples, SV18 to SV23, from the shallow soils inside of a warehouse at the Site. The soil vapor samples were collected by advancing a hydraulic vapor sample probe into the shallow soils immediately beneath the concrete slab. As recommended in the DTSC's January 28, 2003 "Advisory – Active Soil Gas Investigations", one three point calibration, purge volume test, sample replicates, equipment blanks and tracer gas leak test were all included in these field activities.

The soil vapor samples were collected from a temporary soil vapor probe. See the attached Figure 3 – Temporary Soil Vapor Sampling Probe. The temporary soil vapor probes were advanced using a hand-held roto-hammer. When the probe reached the appropriate depth, a soil vapor sample was extracted via an air pump at the surface. Soil vapor samples were collected at a low-flow purge rate measuring between 100 to 200 milliliters per minute (mL/min) to ensure that representative samples were collected. The soil vapor sample was extracted at the surface by piercing a clean sample syringe into clean, disposable silicone tubing. Immediately after collection, the syringe vapor sample was injected into a Hewlett Packard 5971 Mass Spectra Detector. New silicone tubing and probes were used with each sample.

The purge volume test was conducted according to the DTSC guidelines at sample location SV-18, which was located the closest to the March 2007 maximum PCE detection of 222.2 ug/L. The purge volume test concluded that seven (7) purge volumes produced the highest vapor sample concentrations and would be used to collect subsequent representative samples. Additionally, a leak test was conducted at each probe location to ensure that above grade vapors leaking below ground and subsequently sampled. The tracer gas used for the leak test was not detected in any soil vapor sample.

SUMMARY OF SOIL GAS RESULTS

The maximum concentrations of PCE and TCE for both the March and July 2007 sample events were 1,079.4 and 710.8 ug/L, respectively. Soil vapor sample SV-22 contained the maximum concentrations and was located in an additional storage room on the northeast side of the building. The inside height of the warehouse measured between 10 and 20 feet above the concrete floor. A soil vapor sample was not retrieved from location SV-21 because the fine grained soils would not yield adequate vapors for sampling. See the analytical results shown in the attached Table 1 – Summary of Soil Vapor Results. See the attached Figure 2 – Site Plot Plan with Soil Vapor Results and Inside Ceiling Heights for the results. We have also attached the laboratory analytical results and chain of custody documentation to the back of this report.

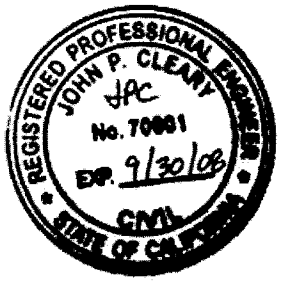
CLOSING

Please use the information provided in Figure 2 to run your vapor intrusion models. We look forward to hearing from you after you complete your calculations.

Sincerely,
THE REYNOLDS GROUP
a California corporation by:

John P Cleary

John Cleary
California Registered Civil Engineer #70001



Attachments:

Table 1 –	Summary of Soil Vapor Results
Figure 1 –	Site Location Map
Figure 2 –	Site Plot Plan with Soil Vapor Results and Inside Ceiling Heights
Figure 3 –	Temporary Soil Vapor Sampling Probe
Appendix	Laboratory Analytical Results (All Vapor Results to Date)

cc:

Dominick Baione, **UNIVERSAL MOLDING EXTRUSION COMPANY c/o**
James McFadden, **GRUBB & ELLIS**
Jack Glaser, **GLASER, TONSICH & ASSOCIATES, LLC**

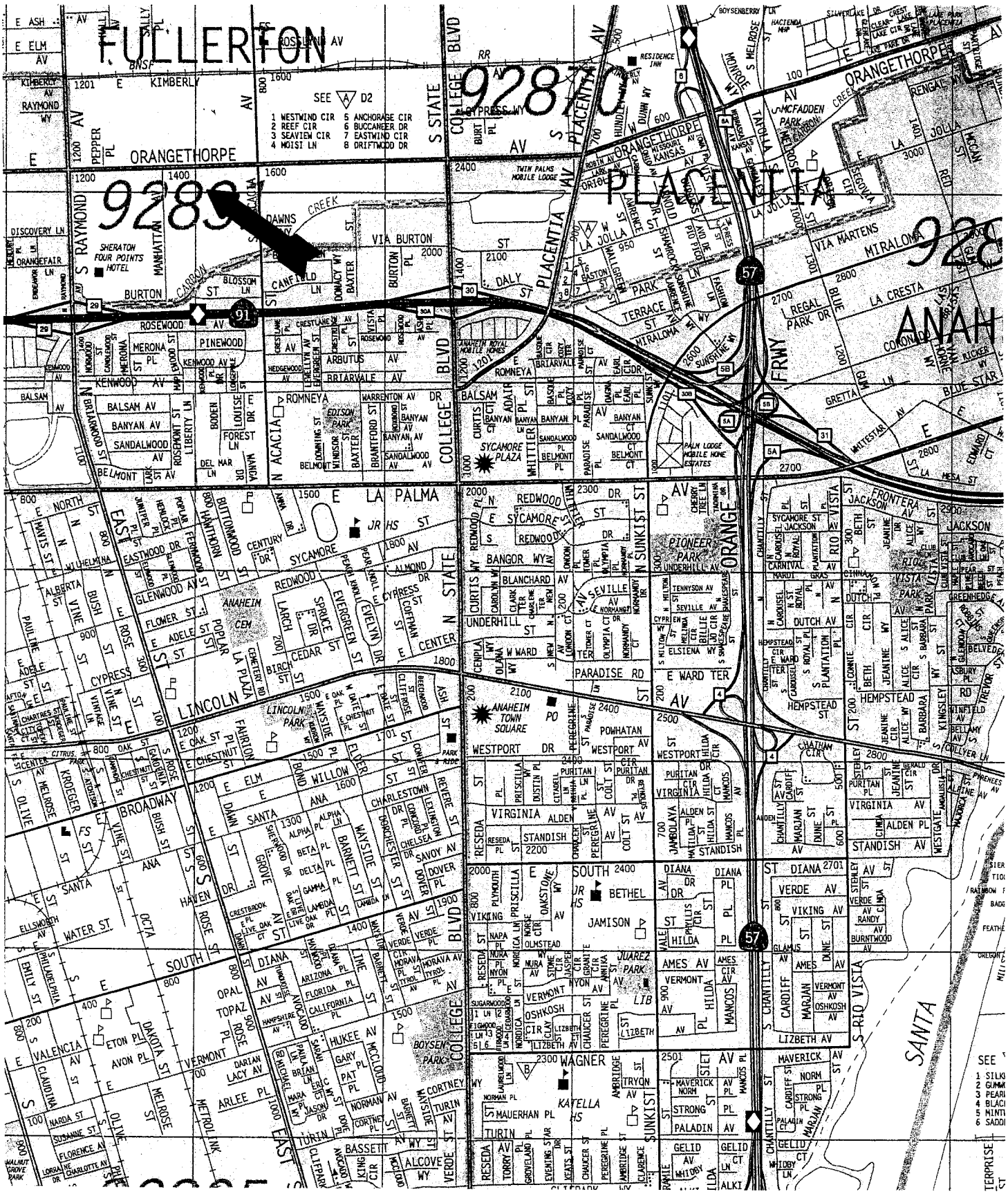
TABLE 1
SUMMARY OF SOIL VAPOR RESULTS

FULLERTON BUSINESS PARK NORTH
1551 E. ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA
(All Results in Micrograms per Liter – ug/L)

Sample ID	Sample Date	Sample Depth (ft bgs)	Freon 113	1,1,1-TCA[1]	TCE[1]	PCE[1]	Vinyl Chloride	1,1-DCE[1]	Cis-1,2 DCE[1]
SV-1	3/9/07	5	4.7	53.6	**69.9**	**OS [2]**	<1	17.4	<1
SV-1 Dil.			5.5	55	**70.7**	**78.8**	<1	18.2	<1
SV-2			<1	3.4	**11**	**15.3**	<1	3.2	1.1
SV-3			<1	12.7	**38.6**	**36.4**	<1	25.3	2.5
SV-4			<1	11.2	**24.2**	**39.2**	<1	9.1	<1
SV-5			<1	83.5	**58.2**	**35.3**	<1	40.4	1.2
SV-6			<1	71.8	**115.2**	**80.3**	<1	65.3	1.2
SV-7			6.9	11.3	**101.7**	**99.6**	<1	78.3	<1
SV-8			3.7	4.3	**22.6**	**7.2**	<1	17.7	<1
SV-9			<1	<1	**11.6**	**53.7**	<1	6.0	<1
SV-10			4.4	1.2	**88.8**	**222.2**	<1	79.7	<1
SV-11			<1	<1	**1.9**	**34.9**	<1	<1	<1
SV-11 DUP			<1	<1	**1.8**	**32**	<1	<1	<1
SV-12			3.9	83.5	**50.4**	**72.8**	3.2	63.6	<1
SV-13			<1	<1	**16.3**	**7.4**	1.1	7.4	<1
SV-14			8.3	6.3	**98.7**	**50.1**	<1	78.2	<1
SV-15			<1	<1	<1	**1.4**	<1	54.4	<1
SV-16			<1	<1	<1	<1	<1	<1	<1
SV-17			<1	<1	<1	<1	<1	<1	<1
SV-18	7/30/07	1	11.1	71.0	**120.2**	**163.5**	<1	64.3	<1
SV-19			11.4	22.2	**190.2**	**190.8**	<1	239.3	<1
SV-20			2.3	5.7	**99.3**	**164.5**	<1	66.2	<1
SV-21			N/A	N/A	N/A	N/A	N/A	N/A	N/A
SV-22			1.1	68.0	**710.8**	**1,079.4**	<1	251.6	6.5
SV-22 DUP			1.6	66.9	**684.9**	**984.8**	<1	232.8	5.8
SV-23			<1	<1	**80.4**	**72.1**	<1	79.8	<1

Notes:

(1) TCA = trichloroethane, TCE = trichloroethene, PCE = tetrachlorethene, DCE = dichloroethene
(2) OS = Results off the Electronic Scale of Detector. Another sample was collected (SV-1 Dil), diluted, and then analyzed.
(3) SV-11 DUP = Duplicate Sample.
(4) N/A = Not Analyzed.
(5) Sample depth shown in feet below ground surface (ft bgs).



Adapted from Orange County
Thomas Brothers Map Guide 2006

N

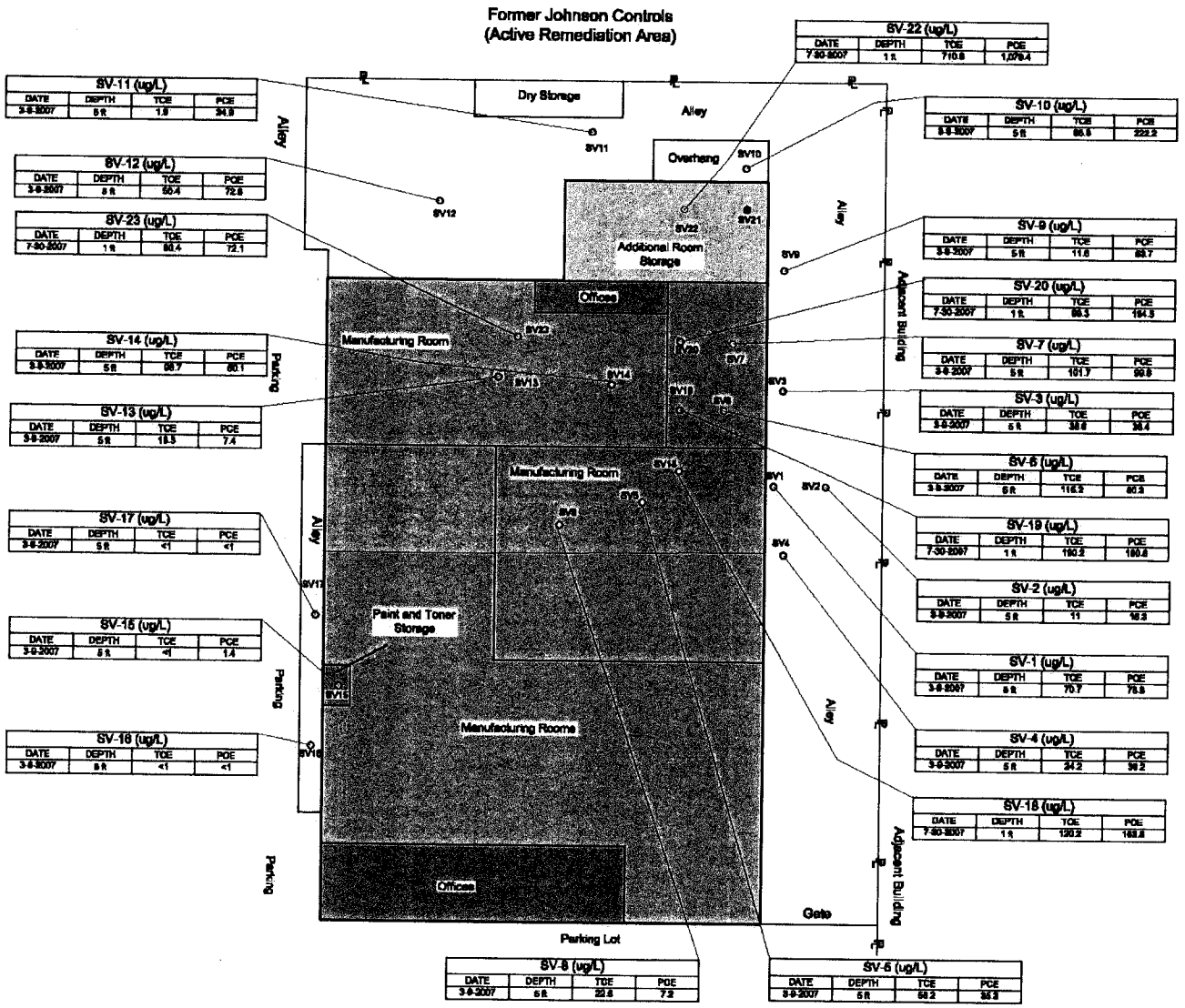
THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Project No: 7115
Date: March 2007

1551 E. Orangethorpe
Fullerton, CA

SITE
LOCATION MAP

FIGURE 1



NORTH

General Notes

- SV1 - Soil Gas Location
- SV21 - Soil Gas Location with no recovery
- Ceiling height: 10 ft
- Ceiling height: 14 ft
- Ceiling height: 18 ft
- Ceiling height: 20 ft

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH SOIL VAPOR RESULTS AND INSIDE CEILING HEIGHTS

Figure #
Figure 2

Revise Date
July 25, 2007

0' 100'
Approximate Scale

Scale
1" = 100'

Company Information

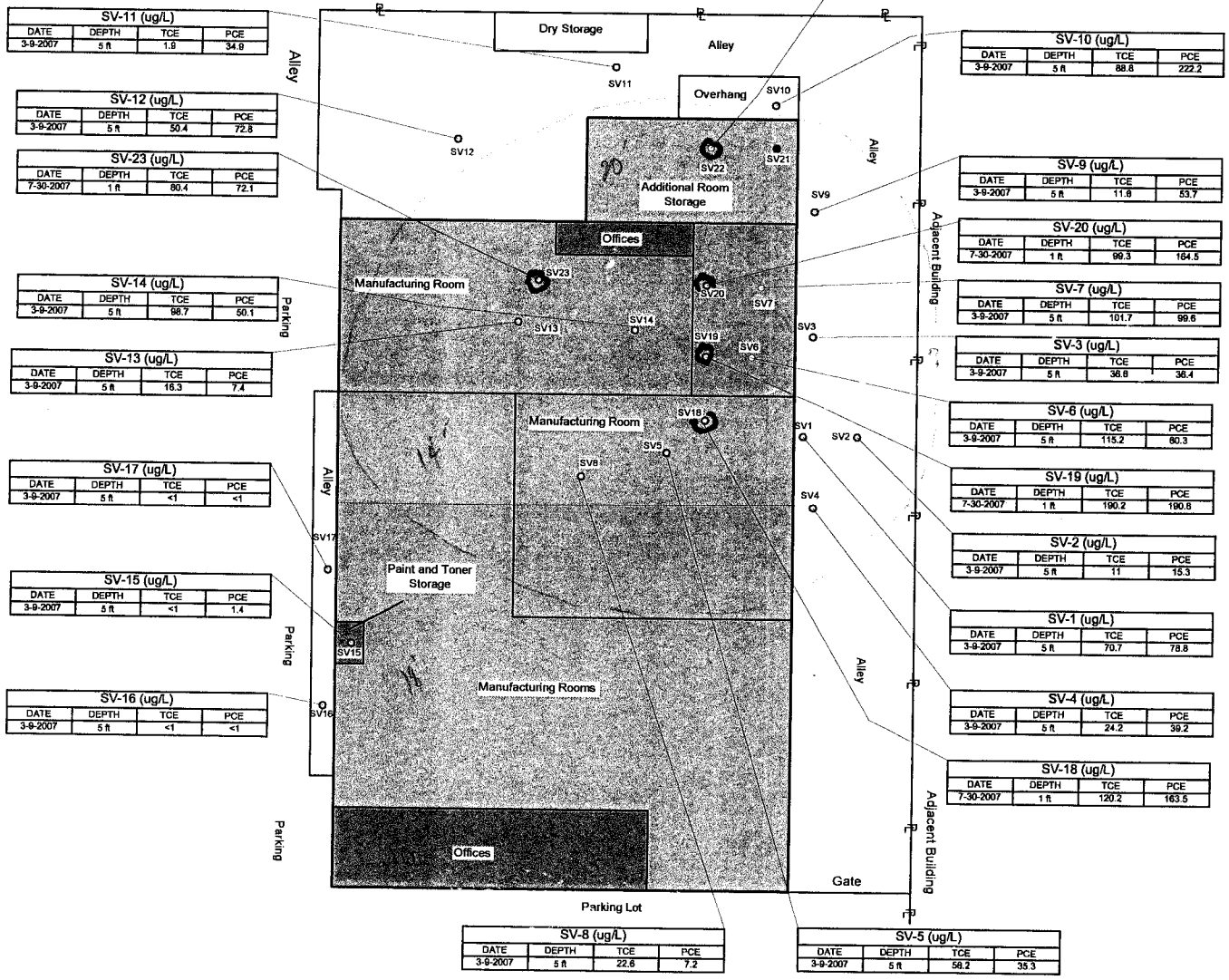
Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls
(Active Soil Vapor Extraction Area)



SV-11 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	1.9	34.9

SV-12 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	50.4	72.8

SV-23 (ug/L)			
DATE	DEPTH	TCE	PCE
7-30-2007	1 ft	80.4	72.1

SV-14 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	98.7	50.1

SV-13 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	16.3	7.4

SV-17 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	<1	<1

SV-15 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	<1	1.4

SV-16 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	<1	<1

SV-22 (ug/L)			
DATE	DEPTH	TCE	PCE
7-30-2007	5 ft	710.8	1,079.4

SV-10 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	88.8	222.2

SV-9 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	11.8	53.7

SV-20 (ug/L)			
DATE	DEPTH	TCE	PCE
7-30-2007	1 ft	99.3	164.5

SV-7 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	101.7	99.6

SV-3 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	36.8	36.4

SV-6 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	115.2	80.3

SV-19 (ug/L)			
DATE	DEPTH	TCE	PCE
7-30-2007	1 ft	190.2	190.8

SV-2 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	11	15.3

SV-1 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	70.7	78.8

SV-4 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	24.2	39.2

SV-18 (ug/L)			
DATE	DEPTH	TCE	PCE
7-30-2007	1 ft	120.2	163.5

SV-8 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	22.6	7.2

SV-5 (ug/L)			
DATE	DEPTH	TCE	PCE
3-9-2007	5 ft	58.2	35.3

General Notes

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH SOIL VAPOR RESULTS AND INSIDE CEILING HEIGHTS

Figure #
Figure 2

Revise Date
July 25, 2007

Scale
No Scale

Company Information

Address
520 West 1st Street
Tustin, CA 92780

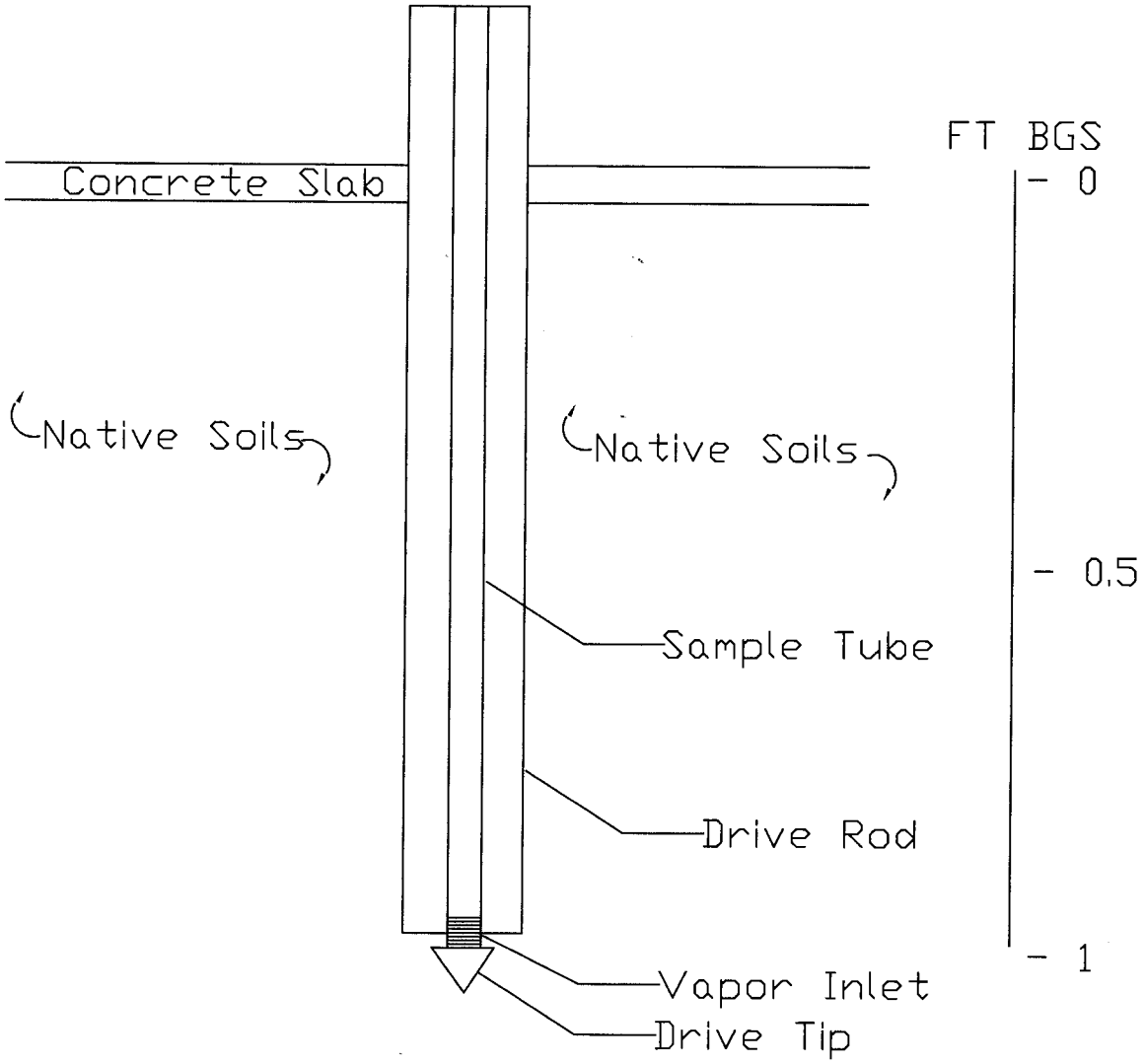
Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Temporary Gas Probe

Placement by hydraulic rig or hammer drill



General Notes

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

TEMPORARY SOIL VAPOR SAMPLING PROBE

Figure #
Figure 3

Revise Date
July 25, 2007

Scale
No Scale

Company Information

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Tustin, CA 92780

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Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

TRG 7115

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

RECEIVED
MAR 14 2007

20070312 Optimal Inst ID HP-5890-Series II 7115

March 12, 2007

Mr. Christopher Terpolilli
The Reynolds Group
520 W. 1st St.
Tustin, CA 92780

Dear Mr. Terpolilli:

This letter presents the results of the soil vapor investigation conducted by Optimal Technology (Optimal), for The Reynolds Group on March 9, 2007. The study was performed at 1551 E. Orangethorpe Avenue, Fullerton, California.

Optimal was contracted to perform a soil vapor survey at this site to screen for possible chlorinated solvents and aromatic hydrocarbons. The primary objective of this soil vapor investigation was to determine if soil vapor contamination is present in the subsurface soil, and if possible determine potential source area(s).

Sampling Method

Sampling was performed by hydraulically pushing 1/2" steel soil gas probes to a depth of 5.0 feet bgs. An electric rotary hammer drill was used to drill a 1.0 inch hole through the overlying surface to allow probe placement when required. The same electric hammer drill was used to push probes in areas of resistance during placement.

At each sampling location an electric vacuum pump (set to draw 0.1-2.0 liters/min of soil vapor at a maximum vacuum of 100" of water) was attached to the probe and purged prior to sample collection. Vapor samples were obtained in Hamilton gas-tight syringes by puncturing silicone tubing which connects the sampling probe and the vacuum pump. New silicone tubing was used at each sampling point to prevent cross contamination. Samples were immediately injected into the gas chromatograph after collection. New sampling probes were used after each sample with positive results. Equipment blanks using ambient air were collected throughout the day. If significant contamination is detected in these blanks, corrective actions would be taken to identify and eliminate the source, if possible.

All analyses were performed on a laboratory grade Hewlett Packard model 5890 Series II gas chromatograph equipped with a Flame Ionization Detector (FID) and an Electron Capture Detector (ECD). Restec wide bore capillary columns using hydrogen as the carrier gases were used to perform all analysis. All results were collected on a personal computer utilizing Hewlett Packard's PC based chromatographic data collection and handling system.

P.O. Box 4448 • Chatsworth, CA 91313 • Toll Free (877) SOIL GAS (764-5427) • (818) 734-6230 • Fax (818) 734-6235

Quality Assurance

3-Point Calibration

An initial 3-point calibration was performed on March 9, 2007 by preparing a calibration solution from a pre-mixed standard supplied by Supelco, Inc. The standard contained common halogenated solvents and aromatic hydrocarbons (see Table 1). The individual compound concentrations in the standards ranged between 0.025 ng/ul and 0.25 ng/ul.

The initial three point calibrations consisted of 20, 100 and 500 ul injections of the calibration solutions. A calibration factor on each analyte was generated using a best fit line method using the HP data system. If the r^2 factor generated from this line was not greater than 0.990, an additional three point calibration would have been performed. Method detection limits were calculated to be 1.0 ug/L for the individual compounds.

TABLE 1

Dichlorodifluoromethane	Carbon Tetrachloride	Chloroethane
Trichlorofluoromethane	1,2-Dichloroethane	Benzene
1,1-Dichloroethene	Trichloroethene	Toluene
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m-/p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113
4-Methyl-2-Pentanone	Cyclohexane	Acetone
Chlorobenzene	2-Butanone	

Sample Replicates

A replicate analysis (duplicate) is run when concentrations exceed the calibrated range of the instrument/detector being used. The duplicate sample is diluted using a smaller injection volume to assure that the instrument response falls within 50% of the calibrated range. In addition, a duplicate analysis is run a minimum of once each day to evaluate the reproducibility of the sampling system and instrument. If the difference between samples varies more than 20%, the entire system is evaluated and the inconsistency is determined and corrected, if possible.

Equipment Blanks

Blanks are run at the beginning of each workday, after calibrations and whenever sampling conditions appear to change. New vapor probes are used following each sample with positive results or when probes were damaged during installation. The blanks are collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

Subsurface Conditions

Subsurface soil conditions at this site were predominantly sandy from ground surface to 5.0 feet bgs. These soil conditions offered sampling flows at 0" water vacuum. Depth to groundwater was unknown at the time of the investigation.

Scope of Work

To achieve the objective of this investigation a total of 19 vapor samples were collected from 17 locations throughout the site. Sampling depths, vacuum readings, purge volume and sampling volumes are given on the analytical results page. All the collected vapor samples were analyzed on-site using Optimal's mobile laboratory.

Results

During this vapor investigation fifteen sample locations contained levels of Tetrachloroethene (PCE). PCE levels ranged from 1.4 ug/L at SV-15 to 222.2 ug/L at SV-10. Fourteen sample locations contained levels of Trichloroethene (TCE) and 1,1-Dichloroethene. TCE levels ranged from 1.9 ug/L at SV-11 to 115.2 ug/L at SV-6. 1,1-Dichloroethene levels ranged from 3.2 ug/L at SV-2 to 79.7 ug/L at SV-10. Eleven sample locations contained levels of 1,1,1-Trichloroethane (TCA). TCA levels ranged from 1.2 ug/L at SV-10 to 83.5 ug/L at SV-5 & SV-12. Freon 113 was found in six locations. Freon 113 levels ranged from 3.7 ug/L at SV-8 to 8.3 ug/L at SV-14. Four samples contained levels of cis-1,2-Dichloroethene. Cis-1,2-Dichloroethene levels ranged from 1.1 ug/L at SV-2 to 2.5 ug/L at SV-3. Finally, two samples contained levels of Vinyl Chloride. Vinyl Chloride levels were 1.1 ug/L at SV-13 and 3.2 ug/L at SV-12. None of the other compounds listed in Table 1 above were detected above the listed detection limits. A complete table of analytical results is included with this report.

Disclaimer

All conclusions presented in this letter are based solely on the information collected by the soil vapor survey conducted by Optimal Technology. Soil vapor testing is only a subsurface screening tool and does not represent actual contaminant concentrations in either the soil and/or groundwater. We enjoyed working with you on this project and look forward to future projects. If you have any questions please contact me at (818) 734-6230.

Sincerely,

Jason Anderson
Project Manager

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: FID and ECD

Date: 3/9/07

SAMPLE ID	N/A
Sampling Depth (Ft.)	N/A
Purge Volume (ml)	N/A
Vacuum (in. of Water)	N/A
Injection Volume (ul)	500/500
Dilution Factor (ECD/FID)	1/1

BLANK-1	SV-1	SV-1 Dil.	SV-2	SV-3	SV-4	SV-5	SV-6
N/A	5.0	5.0	5.0	5.0	5.0	5.0	5.0
N/A	1,500	1,500	1,500	1,500	1,500	1,500	1,500
N/A	0	0	0	0	0	0	0
500/500	500/500	100/500	100/500	100/500	100/500	100/500	100/500
1/1	1/1	5/1	5/1	5/1	5/1	5/1	5/1

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.0	ND	**4.7**	**5.5**	ND	ND	ND	ND	ND
Methylene Chloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1.0	ND	**53.6**	**55.0**	**3.4**	**12.7**	**11.2**	**83.5**	**71.8**
Carbon Tetrachloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	1.0	ND	**69.9**	**70.7**	**11.0**	**38.6**	**24.2**	**58.2**	**115.2**
1,1,2-Trichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	1.0	ND	**OS**	**78.8**	**15.3**	**36.4**	**39.2**	**35.3**	**80.3**
1,1,1,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.0	ND	**17.4**	**18.2**	**3.2**	**25.3**	**9.1**	**40.4**	**65.3**
trans-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	1.0	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.0	ND	ND	ND	**1.1**	**2.5**	ND	**1.2**	**1.2**
Cyclohexane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.0	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Detection Limit; OS = Off the electronic scale of detector

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OPTIMAL TECHNOLOGY
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SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: FID and ECD

Date: 3/9/07

SAMPLE ID	N/A
Sampling Depth (Ft.)	N/A
Purge Volume (ml)	N/A
Vacuum (in. of Water)	N/A
Injection Volume (ul)	500/500
Dilution Factor (ECD/FID)	1/1

SV-7	SV-8	SV-9	SV-10	SV-11	SV-11 Dup	SV-12	SV-13
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
0	0	0	0	0	0	0	0
100/500	100/500	100/500	100/500	100/500	100/500	100/500	100/500
5/1	5/1	5/1	5/1	5/1	5/1	5/1	5/1

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.0	**6.9**	**3.7**	ND	**4.4**	ND	ND	**3.9**	ND
Methylene Chloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1.0	**11.3**	**4.3**	ND	**1.2**	ND	ND	**83.5**	ND
Carbon Tetrachloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	1.0	**101.7**	**22.6**	**11.6**	**88.8**	**1.9**	**1.8**	**50.4**	**16.3**
1,1,2-Trichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	1.0	**99.6**	**7.2**	**53.7**	**222.2**	**34.9**	**32.0**	**72.8**	**7.4**
1,1,1,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1.0	ND	ND	ND	ND	ND	ND	**3.2**	**1.1**
Acetone	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.0	**78.3**	**17.7**	**6.0**	**79.7**	ND	ND	**63.6**	**7.4**
trans-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	1.0	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.0	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Detection Limit

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SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: FID and ECD

Date: 3/9/07

SAMPLE ID	N/A	SV-14	SV-15	SV-16	SV-17				
Sampling Depth (Ft.)	N/A	5.0	5.0	5.0	5.0				
Purge Volume (ml)	N/A	1,500	1,500	1,500	1,500				
Vacuum (in. of Water)	N/A	0	0	0	0				
Injection Volume (ul)	500/500	100/500	100/500	100/500	100/500				
Dilution Factor (ECD/FID)	1/1	5/1	5/1	5/1	5/1				

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)				
Dichlorodifluoromethane	1.0	ND	ND	ND	ND				
Chloroethane	1.0	ND	ND	ND	ND				
Trichlorofluoromethane	1.0	ND	ND	ND	ND				
Freon 113	1.0	**8.3**	ND	ND	ND				
Methylene Chloride	1.0	ND	ND	ND	ND				
1,1-Dichloroethane	1.0	ND	ND	ND	ND				
Chloroform	1.0	ND	ND	ND	ND				
1,1,1-Trichloroethane	1.0	**6.3**	ND	ND	ND				
Carbon Tetrachloride	1.0	ND	ND	ND	ND				
1,2-Dichloroethane	1.0	ND	ND	ND	ND				
Trichloroethene (TCE)	1.0	**98.7**	ND	ND	ND				
1,1,2-Trichloroethane	1.0	ND	ND	ND	ND				
Tetrachloroethene (PCE)	1.0	**50.1**	**1.4**	ND	ND				
1,1,1,2-Tetrachloroethane	1.0	ND	ND	ND	ND				
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND				
Vinyl Chloride	1.0	ND	ND	ND	ND				
Acetone	1.0	ND	ND	ND	ND				
1,1-Dichloroethene	1.0	**78.2**	**54.4**	ND	ND				
trans-1,2-Dichloroethene	1.0	ND	ND	ND	ND				
2-Butanone (MEK)	1.0	ND	ND	ND	ND				
cis-1,2-Dichloroethene	1.0	ND	ND	ND	ND				
Cyclohexane	1.0	ND	ND	ND	ND				
Benzene	1.0	ND	ND	ND	ND				
4-Methyl-2-Pentanone	1.0	ND	ND	ND	ND				
Toluene	1.0	ND	ND	ND	ND				
Chlorobenzene	1.0	ND	ND	ND	ND				
Ethylbenzene	1.0	ND	ND	ND	ND				
m/p-Xylene	1.0	ND	ND	ND	ND				
o-Xylene	1.0	ND	ND	ND	ND				

Note: ND = Below Listed Detection Limit

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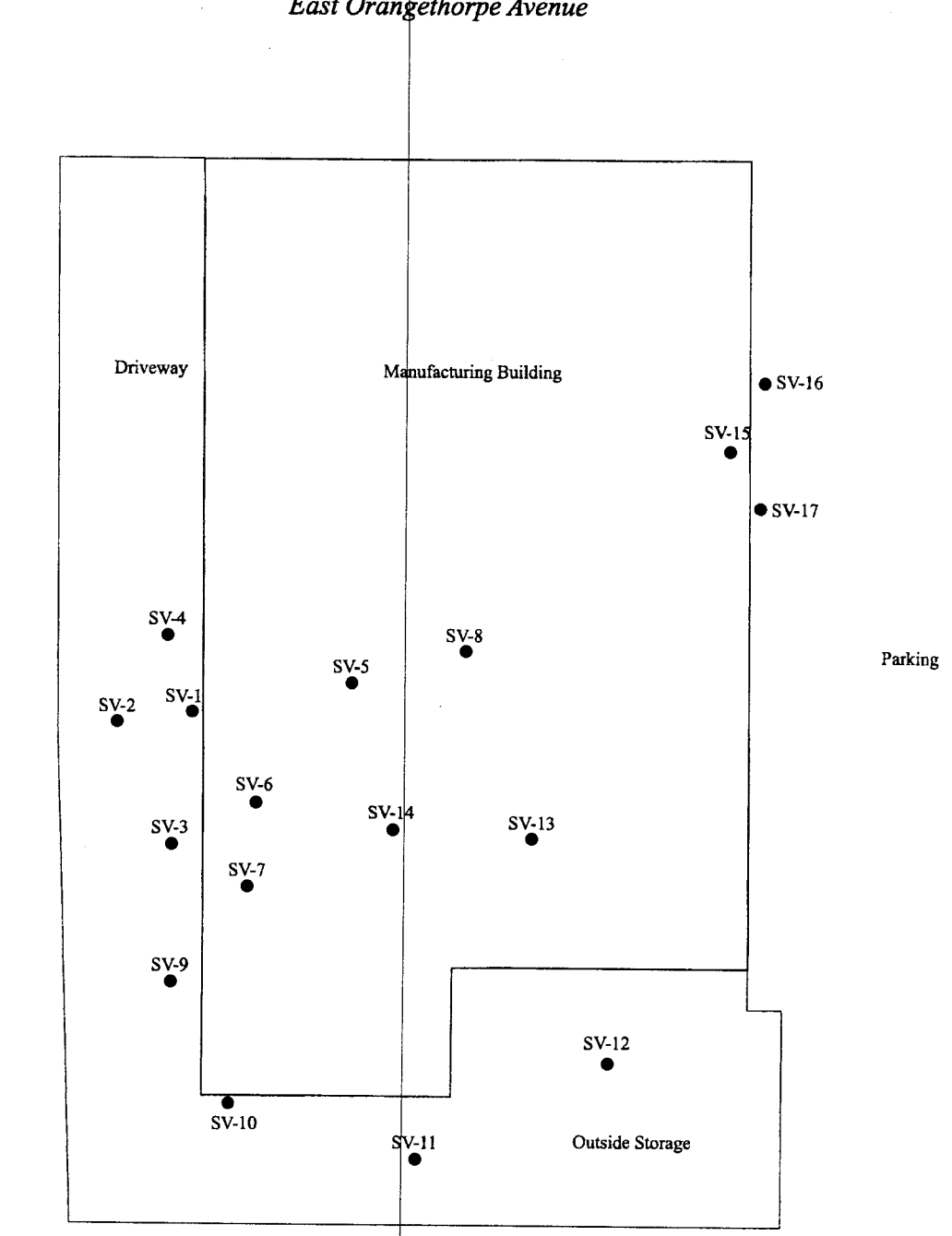

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*Tel: (818) 734-6230 * Fax: (818) 734-6235*

	DATE: March 9, 2007	**APPROXIMATE SCALE: 1" = 80'**	**FIGURE**
	COMPANY: The Reynolds Group	**TITLE:** Soil Vapor Sampling Location Map 1551 E. Orangethorpe Ave., Fullerton, CA	**1**

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Invoice No:	030907B
Invoice Date:	March 9, 2007

INVOICE

7115

BILLED TO:
The Reynolds Group
520 W. 1st St.
Tustin, CA 92780-3005

BILLED FOR:
Soil Vapor Testing at:
1551 E. Orangethorpe Ave.
Fullerton, CA

Project Name:	Contact:	P.O. Num:	Project Date:	Terms:
1551 E. Orangethorpe Ave. Fullerton, CA	Chris Terpolilli	N/A	3/9/07	Net 30 Days

Service Description	Quantity	Units	Unit Price	Extended Price
Soil Vapor Testing	1	Day	$2,800.00	$2,800.00
			Total Due	**$2,800.00**

RECEIVED
MAR 14 2007

Thank you for using Optimal Technology!

Please remit payment to:

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OPTIMAL TECHNOLOGY
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July 31, 2007

Ms. Christa Wolfe
The Reynolds Group
520 W. 1st St.
Tustin, CA 92780

Dear Ms. Wolfe:

This letter presents the results of the soil vapor investigation conducted by Optimal Technology (Optimal), for The Reynolds Group on July 30, 2007. The study was performed at 1551 E. Orangethorpe Avenue, Fullerton, California.

Optimal was contracted to perform a soil vapor survey at this site to screen for possible chlorinated solvents and aromatic hydrocarbons. The primary objective of this soil vapor investigation was to determine if soil vapor contamination is present in the subsurface soil.

Gas Sampling Method

Gas sampling was performed by hydraulically pushing soil gas probes to a depth of 1.0-1.5 feet below the existing concrete slab. An electric rotary hammer drill was used to drill a 1.0-inch diameter hole through the overlying surface to allow probe placement when required. The same electric hammer drill was used to push probes in areas of resistance during placement.

At each sampling location an electric vacuum pump set to draw 0.2 liters per minute (L/min) of soil vapor was attached to the probe and purged prior to sample collection. Vapor samples were obtained in Hamilton gas-tight syringes by puncturing silicone tubing which connects the sampling probe and the vacuum pump. New silicone tubing was used at each sampling point to prevent cross contamination. Samples were immediately injected into the gas chromatograph after collection. Clean sampling probes were used after each sample with detectable analytes. Equipment blanks using ambient air were collected throughout the day.

All analyses were performed on a laboratory grade Hewlett Packard model 5890 Series II gas chromatograph equipped with a Hewlett Packard model 5971 Mass Spectra Detector. An SGE capillary column using helium as the carrier gas was used to perform all analysis. All results were collected on a personal computer utilizing Hewlett Packard's 5971 MS and chromatographic data collection and handling system.

Quality Assurance

3-Point Calibration
An initial 3-point calibration was performed on July 30, 2007 by preparing a calibration solution from a pre-mixed standard supplied by Supelco, Inc. The standard contained common halogenated solvents and aromatic hydrocarbons (see Table 1). The individual compound concentrations in the standards ranged between 0.025 nanograms per microliter(ng/ul) and 0.25 ng/ul.

The initial three point calibrations consisted of 100, 250 and 500 ul injections of the calibration solutions. A calibration factor on each analyte was generated using a best fit line method using the HP data system. If the r^2 factor generated from this line was not greater than 0.990, an additional three point calibration would have been performed. Method detection limits were calculated to be 1.0 micrograms per Liter (ug/L) for the individual compounds.

TABLE 1

Dichlorodifluoromethane	Carbon Tetrachloride	Chloroethane
Trichlorofluoromethane	1,2-Dichloroethane	Benzene
1,1-Dichloroethene	Trichloroethene	Toluene
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m-/p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113
4-Methyl-2-Pentanone	Cyclohexane	Acetone
Chlorobenzene	2-Butanone	

Sample Replicates
A replicate analysis (duplicate) was run to evaluate the reproducibility of the sampling system and instrument. The difference between samples did not vary more than 20%.

Purge Volume Test
"Purge volume" is the total internal volume of the sampling probe. Three separate purge volumes were tested: 1, 3, and 7 volumes. It was found that 7 volumes were best for this soil vapor survey.

Equipment Blanks
Blanks were run at the beginning of each workday and after calibrations. Clean vapor probes were used following each sample with detectable analytes or when probes were damaged during installation. The blanks were collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

Tracer Gas
A tracer gas was applied to the soil gas probes at each point of connection in which ambient air could enter the sampling system. These points include the top of the sampling probe where the tubing meets the probe connection and the surface bentonite seals. Isobutane was used as the tracer gas, found in common shaving cream. No Isobutane was found in any of the samples collected.

Scope of Work

To achieve the objective of this investigation a total of 8 vapor samples were collected from 5 locations throughout the site. Sampling depths, vacuum readings, purge volume and sampling volumes are given on the analytical results page. All the collected vapor samples were analyzed on-site using Optimal's mobile laboratory.

Subsurface Conditions

Subsurface soil conditions at this site were predominantly sandy with some silty-clay from ground surface to 2.0 feet bgs. These soil conditions offered sampling flows at 0-15" water vacuum. Depth to groundwater was unknown at the time of the investigation.

Results

During this vapor investigation all samples contained levels of Tetrachloroethene (PCE), Trichloroethene (TCE) and 1,1-Dichloroethene. PCE levels ranged from 72.1 ug/L at SV-23 to 1,079.4 ug/L at SV-22. TCE levels ranged from 80.4 ug/L at SV-23 to 710.8 ug/L at SV-22. 1,1-Dichloroethene levels ranged from 64.3 ug/L at SV-18 to 251.6 ug/L at SV-22. Five locations contained both Freon 113 and 1,1,1-Trichloroethane (TCA). Freon 113 levels ranged from 1.1 ug/L at SV-22 to 11.4 ug/L at SV-19. TCA levels ranged from 5.7 ug/L at SV-20 to 71.0 ug/L at SV-18. Additionally, SV-22 contained 6.5 ug/L of cis-1,2-Dichloroethene. None of the other compounds listed in Table 1 above were detected above the listed detection limits. A complete table of analytical results is included with this report.

Disclaimer

All conclusions presented in this letter are based solely on the information collected by the soil vapor survey conducted by Optimal Technology. Soil vapor testing is only a subsurface screening tool and does not represent actual contaminant concentrations in either the soil and/or groundwater. We enjoyed working with you on this project and look forward to future projects. If you have any questions please contact me at (877) 764-5427.

Sincerely,

Jason Anderson

Digitally signed by Jason Anderson
DN: CN = Jason Anderson, C = US
Date: 2007.07.31 13:45:15 -07'00'

Jason Anderson
Project Manager

OPTIMAL TECHNOLOGY
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SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: HP-5971 Mass Spectrometer

Date: 7/30/07

SAMPLE ID	BLANK-1	SV-18 PT3V	SV-18 PT1V	SV-18 PT7V	SV-19	SV-20	SV-21	SV-22
Sampling Depth Below Slab (Ft.)	N/A	1.0	1.0	1.0	1.0	1.0	1.0-1.5	1.5
Purge Volume (ml)	N/A	1,500	500	3,500	3,500	3,500	N/A	3,500
Vacuum (in. of Water)	N/A	10	10	10	15	0	>100	0
Injection Volume (ul)	1000	1000	1000	1000	1000	1000	N/A	1000
Dilution Factor	1	1	1	1	1	1	N/A	1

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Chloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Trichlorofluoromethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Freon 113	1.0	ND	**9.8**	**10.2**	**11.1**	**11.4**	**2.3**	N/A	**1.1**
Methylene Chloride	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
1,1-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Chloroform	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
1,1,1-Trichloroethane	1.0	ND	**45.2**	**64.1**	**71.0**	**22.2**	**5.7**	N/A	**68.0**
Carbon Tetrachloride	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
1,2-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Trichloroethene (TCE)	1.0	ND	**86.7**	**109.5**	**120.2**	**190.2**	**99.3**	N/A	**710.8**
1,1,2-Trichloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Tetrachloroethene (PCE)	1.0	ND	**118.9**	**147.8**	**163.5**	**190.8**	**164.5**	N/A	**1,079.4**
1,1,1,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Vinyl Chloride	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Acetone	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
1,1-Dichloroethene	1.0	ND	**50.2**	**55.3**	**64.3**	**239.3**	**66.2**	N/A	**251.6**
trans-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
2-Butanone (MEK)	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
cis-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	N/A	**6.5**
Cyclohexane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Benzene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
4-Methyl-2-Pentanone	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Toluene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Chlorobenzene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Ethylbenzene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
m/p-Xylene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
o-Xylene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND

Note: ND = Below Listed Detection Limit; PT3V = Purge Test Volume; N/A = Not Applicable because no sample was taken due to high vacuum.

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SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: HP-5971 Mass Spectrometer

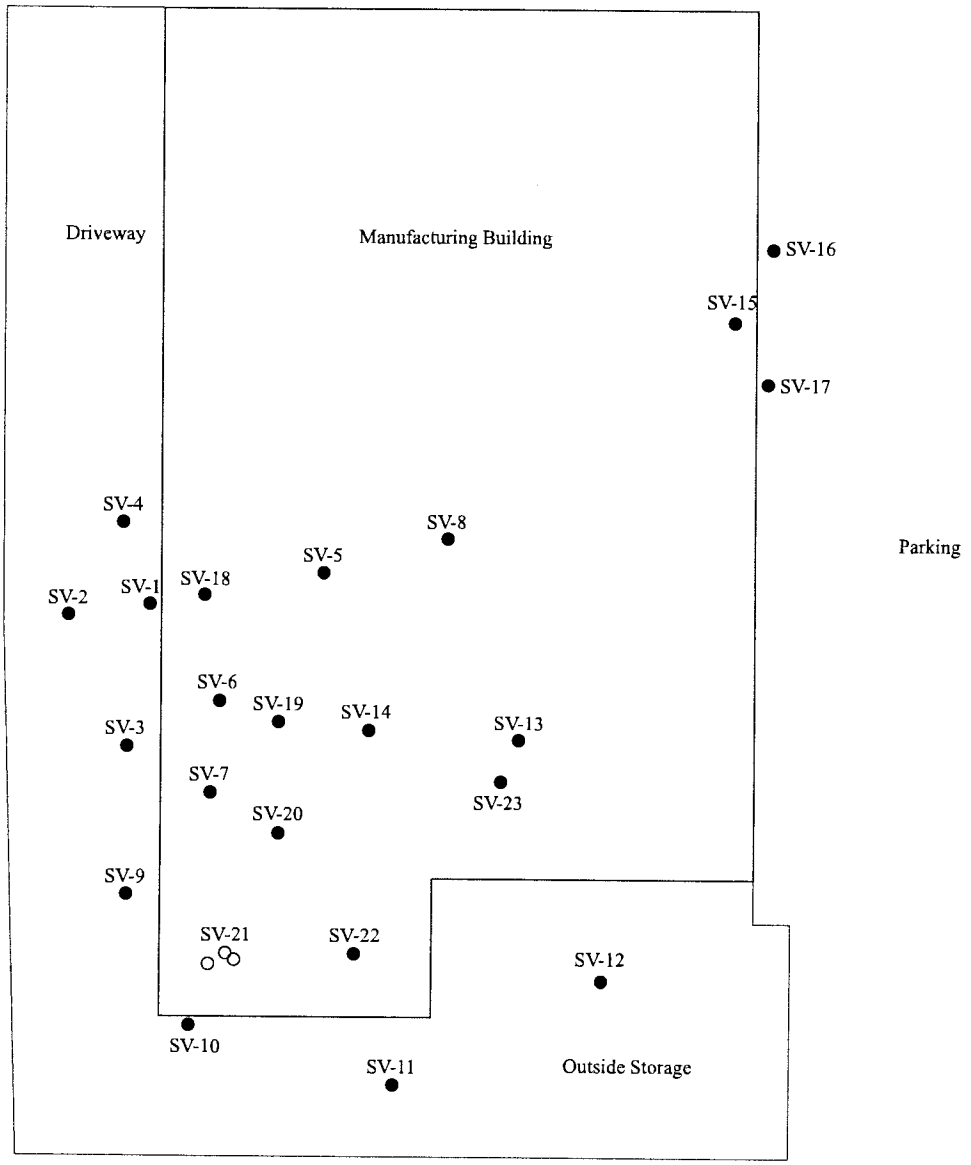
Date: 7/30/07

SAMPLE ID	SV-22 Dup	SV-23						
Sampling Depth Below Slab (Ft.)	1.5	1.0						
Purge Volume (ml)	3,500	3,500						
Vacuum (in. of Water)	0	10						
Injection Volume (ul)	1000	1000						
Dilution Factor	1	1						

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)					
Dichlorodifluoromethane	1.0	ND	ND					
Chloroethane	1.0	ND	ND					
Trichlorofluoromethane	1.0	ND	ND					
Freon 113	1.0	**1.6**	ND					
Methylene Chloride	1.0	ND	ND					
1,1-Dichloroethane	1.0	ND	ND					
Chloroform	1.0	ND	ND					
1,1,1-Trichloroethane	1.0	**66.9**	ND					
Carbon Tetrachloride	1.0	ND	ND					
1,2-Dichloroethane	1.0	ND	ND					
Trichloroethene (TCE)	1.0	**684.9**	**80.4**					
1,1,2-Trichloroethane	1.0	ND	ND					
Tetrachloroethene (PCE)	1.0	**984.8**	**72.1**					
1,1,1,2-Tetrachloroethane	1.0	ND	ND					
1,1,2,2-Tetrachloroethane	1.0	ND	ND					
Vinyl Chloride	1.0	ND	ND					
Acetone	1.0	ND	ND					
1,1-Dichloroethene	1.0	**232.8**	**79.8**					
trans-1,2-Dichloroethene	1.0	ND	ND					
2-Butanone (MEK)	1.0	ND	ND					
cis-1,2-Dichloroethene	1.0	**5.8**	ND					
Cyclohexane	1.0	ND	ND					
Benzene	1.0	ND	ND					
4-Methyl-2-Pentanone	1.0	ND	ND					
Toluene	1.0	ND	ND					
Chlorobenzene	1.0	ND	ND					
Ethylbenzene	1.0	ND	ND					
m/p-Xylene	1.0	ND	ND					
o-Xylene	1.0	ND	ND					

Note: ND = Below Listed Detection Limit

East Orangethorpe Avenue



N

0 40 80

Approximate Scale

Legend

SV-1 - Soil Vapor Sample Number

● - Soil Vapor Sample Location

○ - No Sample Taken Due to High Vacuum

Optimal Technology
P.O. Box 4448
Chatsworth, CA 91313
Toll-free (877) SOIL GAS
*Tel: (818) 734-6230 * Fax: (818) 734-6235*

DATE: July 30, 2007

APPROXIMATE SCALE: 1" = 80'

FIGURE 1

COMPANY: The Reynolds Group

TITLE: Soil Vapor Sampling Location Map
1551 E. Orangethorpe Ave. , Fullerton, CA

CONVERSE CONSULTANTS
ORANGE COUNTY

Consulting Engineering
and Applied Sciences

15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307

Telephone (714) 453-2880
Facsimile (714) 453-2888

January 26, 1995

Mr. Louis Lodrigueza
Orange County Health Care Agency
2009 East Edinger Avenue
Santa Ana, California 92705

Subject: **SUMMARY REPORT OF ADDITIONAL SITE CHARACTERIZATION**
Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California
OCHCA Case No. 94IC29
(Converse Project No. 94-42871-03)

Dear Mr. Lodrigueza:

Converse Consultants Orange County (Converse), on behalf of Red Eagle Properties, is pleased to present this Summary Report of the Additional Site Characterization activities at the referenced property. This report documents the general activities at the referenced property associated with tetrachloroethene (PCE) contamination, discovered during the removal of the southern clarifier. For site vicinity, see Figure 1.

Background

During removal of two clarifiers from the property in September 1994, soil contamination from tetrachloroethene (PCE) and total recoverable petroleum hydrocarbons (TRPH) was discovered beneath the southern clarifier. For site layout, see Figure 2.

Initial site characterization indicated that significant contamination was not present at 15 feet beneath the former clarifier. Additional investigation was requested by the California Regional Water Quality Control Board, Santa Ana Region.

On December 2, 1994, Converse advanced six (6) soil borings using a Geoprobe Systems sampling technique. Initial depths of 15 feet bgs were targeted for investigation. Soil samples were obtained from 15 feet bgs, and were field screened using an organic vapor analyzer (OVA). Soil samples were then submitted to an on-site mobil laboratory for analysis. Borings from which the soil sample exhibited elevated levels of PCE were advanced further, and samples were obtained at five-foot intervals. Additional borings were located based on soil analytical results from previous borings.

Analytical results from the soil samples obtained indicated that further study was needed to define the vertical and lateral extent of PCE contamination.

Field Activities

On January 9 through 11, 1995, Converse advanced (9) additional soil borings on the property in an attempt to vertically and laterally characterize the extent of contamination (BH-4A through BH-6A and BH-8 through BH-13) using a Geoprobe Systems sampling technique. All borings were located based on previous soil analytical data. See Figure 3 for boring locations.

Borings BH-4A, BH-5A, and BH-6A were adjacent to BH-4, BH-5, and BH-6, respectively. Soil samples were obtained from borings BH-4A and BH-6A at 5-foot intervals, beginning at 20 feet. Boring BH-5A was a continuously cored boring to 40 feet, with soil samples obtained at 5-foot intervals, beginning at 25 feet.

Borings BH-8 through BH-13 were advanced to 40 feet, with soil samples obtained at 5-foot intervals beginning at 15 feet. Boring BH-11 was a continuously cored boring.

Soil samples from each boring were submitted to an on-site mobil laboratory for analysis. Additional borings were then located based upon the mobil laboratories analytical results. At the completion of the boring activities, the boreholes were backfilled with bentonite chips and hydrated with purified water. See Appendix A for field methodologies.

Soil Analytical Results

A total of 51 soil samples were submitted to the mobil laboratory for analysis. The samples were analyzed in accordance with EPA methods 8010 (PCE). The analytical results, including the results from borings from the previous investigations are presented in Table I.

The highest concentrations of PCE contamination occurred consistently between 20 and 25 feet bgs. PCE (less than 60 ppb) was detected in some samples obtained from 40 feet bgs at three of the nine new boring locations (BH-10, BH-11, and BH-12). Samples obtained from shallower depths in these three locations did not reveal PCE soil contamination.

For a complete copy of the analytical results, see Appendix B.

Soil Conditions and Other Observations

Generally, the subsurface soil conditions consist primarily of clayey silts and silty clays encountered at approximately 15 feet bgs and extending to approximately 35 feet bgs. Some fine grained sand with silt was encountered at 20 feet bgs and 37 feet bgs in BH-11 and BH-5A, extending to approximately 40 feet bgs, where more clayey silt was encountered. See Appendix C for the boring logs.

Ground water was not encountered in any borings, and is estimated at a depth of approximately 60 feet bgs in the area, based on information obtained from nearby monitoring wells. The gradient is believed to be towards the southwest.

Conclusions and Recommendations

Based on the findings from the additional characterization activities, it appears that contamination of the soil from PCE has essentially been defined laterally to the west and northwest of the former clarifier. The vertical extent has not been completely defined, although the highest concentrations found occur above 30 feet bgs.

The highest concentrations of PCE found in the soil occur to the west and northwest of the former clarifier at depths of 20 to 25 feet bgs. It is possible that contamination could have occurred from a source between the existing building and the former clarifier (possibly a former fill pipe). The contamination detected at 40 feet could be from migration of the suspected source (fill pipe), or from a different (possibly off-site) source.

Due to the elevated concentration of PCE contamination at depths of 20 to 25 feet, the presence of PCE at 40 feet, and your verbal suggestions, Converse recommends the installation of three (3) ground water monitoring wells on the property. This will determine if ground water has been impacted by the suspected on-site source or an off-site source.

Limitations

The findings presented herein are based on our evaluation of currently available data and were prepared in accordance with generally accepted environmental principles common to the local area in which we practice. We make no other warranty, either expressed or implied.

Converse is not responsible for the accuracy of information provided by others. This report should not be regarded as a guarantee that no subsurface contamination is present at the property beyond what has been disclosed. There may be subsurface conditions that cannot be reasonably predicted with the services performed to-date.

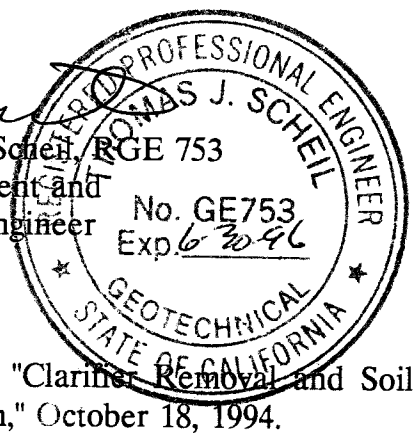
If you have any questions, please contact us at (714) 453-2880.

Sincerely,

CONVERSE CONSULTANTS ORANGE COUNTY

J. Michael Batten
Project Geologist

Thomas J. Scheil, RGE 753
Vice President and
Principal Engineer



JMB/GSS/TJS

References: Converse Consultants Orange County, "Clarifier Removal and Soil Analysis, Fullerton Business Park North," October 18, 1994.

Converse Consultants Orange County, "Site Characterization Summary Report, Fullerton Business Park North," November 11, 1994.

Converse Consultants Orange County, "Summary Report, Additional Site Characterizaton, Fullerton Business Park North," December 13, 1994.

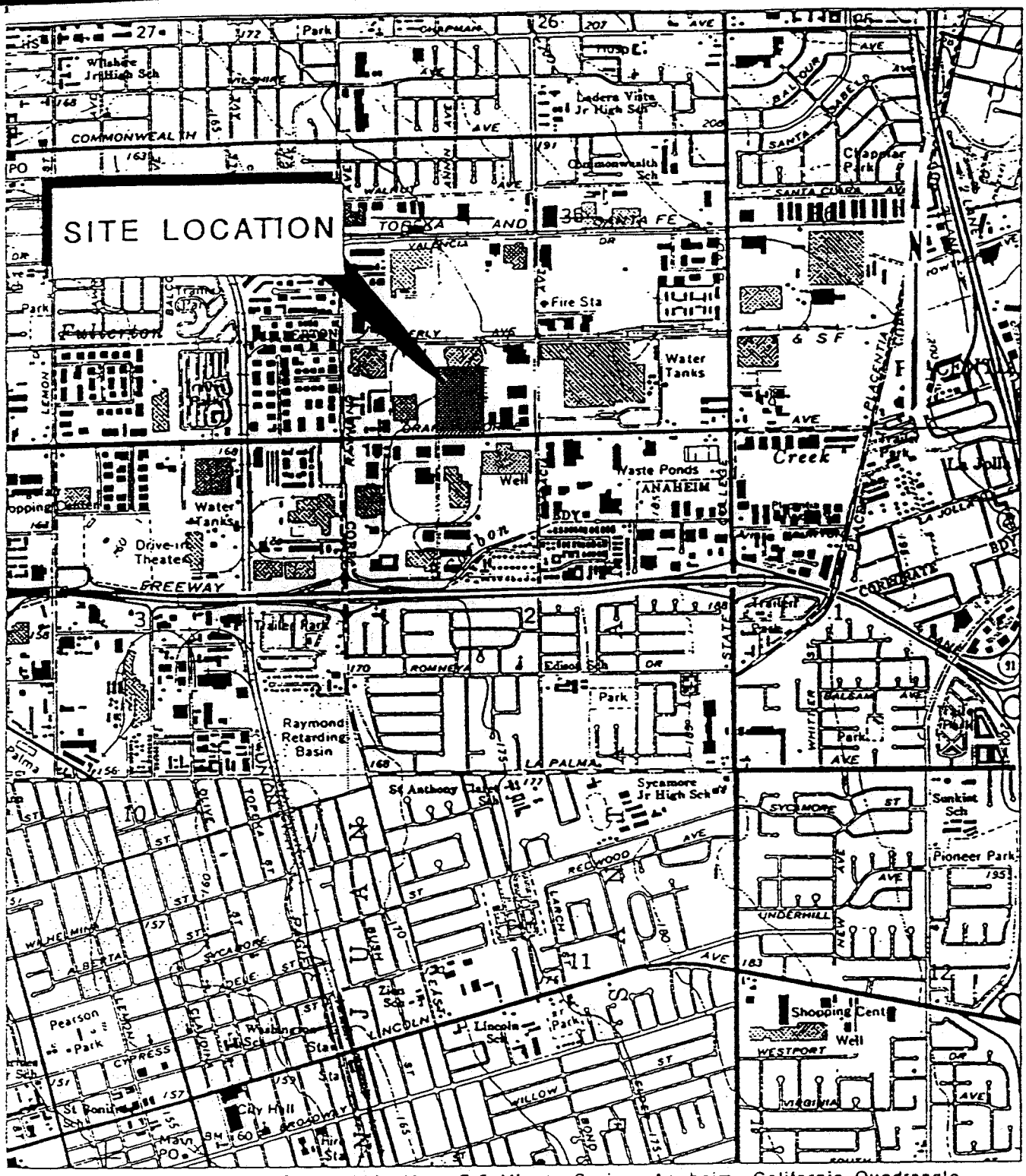
Attachments:

Figure 1 - Vicinity Map
Figure 2 - Site Layout Map
Figure 3 - Detail Map
Table I - PCE Concentrations in Soil Samples
Appendix A - Field Methodologies
Appendix B - Analytical Report
Appendix C - Boring Logs

Distribution:

1 Addressee
1 Mr. Robert Holub, Santa Ana Regional Water Quality Control Board
2 Mr. Carl Ross, Red Eagle Properties
1 Mr. Mark Boen, Red Eagle Properties

FIGURES



Reference: U.S.G.S Topographic Map, 7.5 Minute Series, Anaheim, California Quadrangle, Dated 1965, (Photorevised 1981).

0 2000 4000

SCALE IN FEET

VICINITY MAP

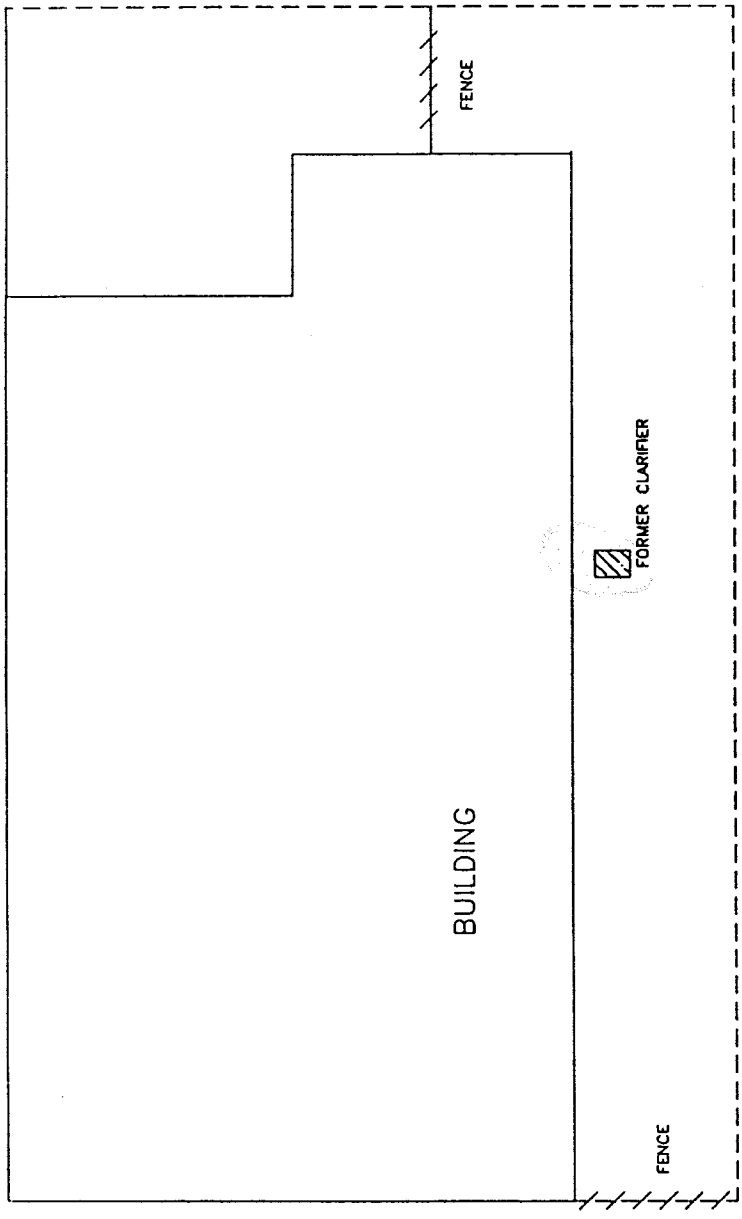
SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No.
94-42871-03

Figure No.
1

Converse Consultants
Orange County

Geotechnical Engineering and Applied Sciences



0 60 120

SCALE IN FEET

N

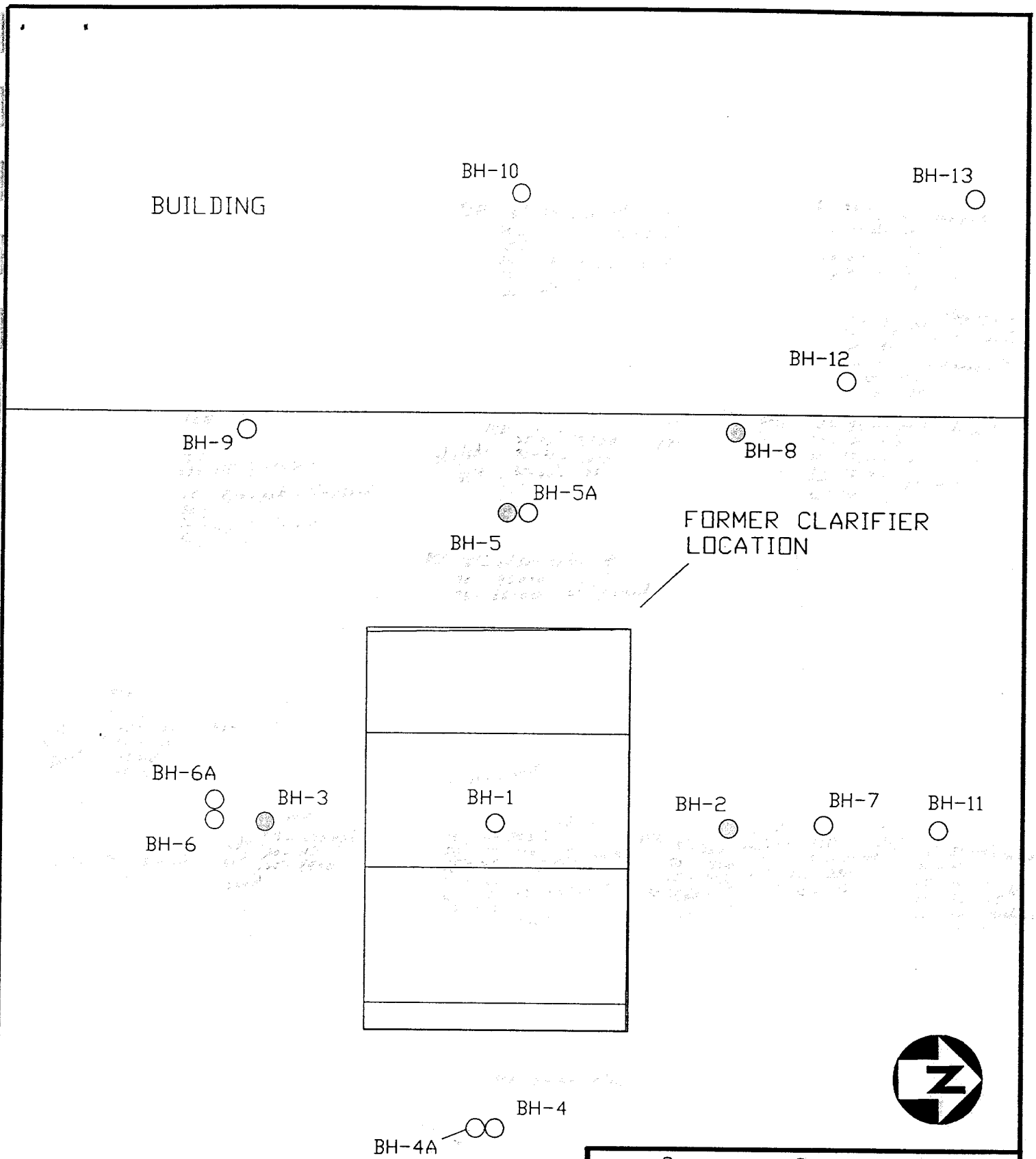
Converse Consultants
Orange County
Consulting Engineering and Applied Sciences

SITE LAYOUT MAP

Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California

DATE: 11/14/94	PROJECT NO: 94-42871-03	FIGURE NO: 2
SCALE: 1" = 60'	CHECKED BY:	

NOTE:
This figure is part of Converse Consultants Orange County report dated 1/24/95.



NOTE:
This figure is part of Converse Consultants Orange County report dated 12/6/94.

Converse Consultants
Orange County
Consulting Engineering and Applied Sciences

SITE LAYOUT MAP

Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California

DATE: 12/12/94	PROJECT NO: 9442871-03	FIGURE NO: 3
SCALE: 1" = 4'	CHECKED BY:	

TABLES

871tbl_1.wq1
Revised: 25-JAN-95
PM: JMB

TABLE I
PCE CONCENTRATIONS IN SOIL SAMPLES
FULLERTON BUSINESS PARK NORTH
(Converse Project No. 94-42871-03)

DEPTH OF SAMPLE (FT)	BORING LOCATION NO.															
	BH-1	BH-2	BH-3	BH-4	BH-4A	BH-5	BH-5A	BH-6	BH-6A	BH-7	BH-8	BH-9	BH-10	BH-11	BH-12	BH-13
15	ND	3,500	270	ND	--	84,500	--	ND	--	130	32,000	ND	570	31	190	140
20	17	320	ND	--	ND	96,000	--	--	ND	330	26,000	ND	ND	19	ND	16
25	ND	1,950	8,900	--	12	88,000	--	--	20	ND	92,000	18,000	ND	100	41	13
30	38	ND	--	--	23	--	17,500	--	56	--	15,000	ND	ND	29	11	ND
35	ND	ND	--	--	39	--	1,070	--	ND	--	ND	ND	ND	ND	ND	ND
40	ND	ND	--	--	52	--	28	--	ND	--	ND	ND	45	16	50	ND

Reported in parts per billion (ug/kg, ppb)
ND = Not Detected
-- = Sample not obtained

APPENDIX A

FIELD METHODOLOGIES

Geoprobe Advancement

The exploration program for this study consisted of Geoprobe probe advancement and drive sampling for the collection of soil samples. The probe was advanced on January 9 - 11, 1995 by On-Site Services using a Geoprobe Systems probing machine.

Probe advancement was conducted such that the locations were open to the atmosphere (air-filled) during advancement. No fluids, including clean water, or additives were used during probe advancement.

Drive Sampling

Drive soil samples were collected from the probe locations at specified depth intervals (typically 5-foot). Soil samples were obtained by driving a 1-inch diameter steel driving tube at the end of a percussion drill steel. The sampling tube was equipped with a steel drive head which was withdrawn, via the extending rod, at the upper limit of the desired sample interval. The tube was then driven into the undisturbed soil and an approximately 100 gram sample was collected over a 1-foot vertical interval. The sample was then brought to the ground surface by withdrawing the sections of drill steel.

After the sampler was removed from the probe location, the soil sample for chemical analyses was inspected to verify that there was no head space in the sample. If gravel extended from the sample, or head space was observed in the soil sample, the sample was considered invalid and an additional attempt was made to collect a valid sample. If the retrieved sample was considered valid, the brass sleeve was covered with teflon sheeting and tightly capped.

Once at the ground surface, the soil sampling tube was capped, placed into a polyethylene bag, labeled, and immediately submitted to an on-site mobil laboratory for analysis. Soil samples were collected, stored, transported and analyzed in accordance with EPA Sample Collection Codes. A Chain-of-Custody record was maintained throughout the operation. Analytical Laboratories of Orange, California (State certified laboratory) chemically analyzed selected samples in accordance with EPA Method 8010.

After a soil sample was collected, the sampling equipment was washed with alcanox and rinsed.

Chain-of-Custody Procedures

Chain-of-Custody procedures were maintained for all soil samples collected. This form was completed by the sample collector before releasing the samples to the laboratory. The chain-of-custody form was routed with the samples through transportation and analyses. Completed chain-of-custody forms were returned to Converse along with the results from the analytical laboratory. These forms are retained by Converse in the central project files, and are included in Appendix B.

APPENDIX B

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92668 - 714/771-6900 FAX 714/538-1209

CLIENT

Converse Environmental West (4708)
Attn: Mike Batton
15245 Alton Parkway
Suite 100
Irvine, CA 92718

LAB NO. G83413
REPORTED 01/10/95

SAMPLE Soil
IDENTIFICATION As Below
Date Collected 01/09/95
BASED ON SAMPLE As Submitted

RECEIVED 01/09/95

Tetrachloroethene EPA 8010

BH-5A/1	17,500 mg/kg
BH-5A/2	1,070 mg/kg
BH-5A/3	28 mg/kg
BH-6A/1	ND<10 mg/kg
BH-6A/2	20 mg/kg
BH-6A/3	56 mg/kg
BH-6A/4	ND<10 mg/kg
BH-6A/5	ND<10 mg/kg
BH-4A/1	ND<10 mg/kg
BH-4A/2	12 mg/kg
BH-4A/3	23 mg/kg
BH-4A/4	39 mg/kg
BH-4A/5	52 mg/kg

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

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806 North Batavia - Orange, California 92668 - 714/771-6900
FAX 714/538-1209

CLIENT

Converse Environmental West
Attn: Mike Batten
15245 Alton Pkwy., #100
Irvine, CA 92718-2307

LAB NO ML00791

REPORTED 01/16/95

SAMPLE Soil

IDENTIFICATION Red Eagle
Project #9442871-03
1551 Orangethorpe, Fullerton

BASED ON SAMPLE As Submitted to Our Mobile Laboratory

RECEIVED 01/10/95

	Tetrachloroethene
BH-8 @ 15-15.5'	32,000 ppb
BH-8 @ 20-20.5'	26,000 ppb
BH-8 @ 25-25.5'	92,000 ppb
BH-8 @ 30-30.5'	15,000 ppb
BH-8 @ 35-35.5'	ND<10 ppb
BH-8 @ 40-40.5'	ND<10 ppb
BH-9 @ 15-15.5'	ND<10 ppb
BH-9 @ 20-20.5'	ND<10 ppb
BH-9 @ 25-25.5'	18,000 ppb
BH-9 @ 30-30.5'	ND<10 ppb
BH-9 @ 35-35.5'	ND<10 ppb
BH-9 @ 40-40.5'	ND<10 ppb
BH-10 @ 15-15.5'	570 ppb
BH-10 @ 20-20.5'	ND<10 ppb
BH-10 @ 25-25.5'	ND<10 ppb
BH-10 @ 30-30.5'	ND<10 ppb
BH-10 @ 35-35.5'	ND<10 ppb
BH-10 @ 40-40.5'	45 ppb

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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Chemical •
Microbiological •
Environmental •

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92668
(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 1/10/95 Page 1 of 2

CLIENT Converse Consultants
ADDRESS 15265 Alton Pkwy. Hill
Irvine, CA. 92718-2307
PROJECT NAME RED EAGLE
PROJECT MANAGER Mike Bolton
PHONE NUMBER (714) 453-2880
SAMPLERS: (Signature)

Samples Intact Yes ✓ No ____
County Seals Intact Yes ____ No N/A
Sample Ambient ____ Cooled ✓ Frozen ____
Same Day ____ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	SAMPLE TYPE AIR	SAMPLE TYPE SOLID	NO OF CNTNRS	SUSP. CONTAM	TESTS REQUIRED
1-	BH-8 15-15.5'	1/10/95	8:20			✓	1	RE	(5010) RE only
2-	BH-8 20-20.5'		8:25			✓	1		
3-	BH-8 25-25.5'		8:30			✓	1		
4-	BH-8 30-30.5'		9:15			✓	1		
5-	BH-8 35-35.5'		9:30			✓	1		
6-	BH-8 40-40.5'		9:55			✓	1		
7-	BH-9 15-15.5'		10:30			✓	1		
8-	BH-9 20-20.5'		10:45			✓	1		
9-	BH-9 25-25.5'		11:05			✓	1		
10-	BH-9 30-30.5'		11:15			✓	1		
11-	BH-9 35-35.5'		11:40			✓	1		
12-	BH-9 40-40.5'		11:55			✓	1		

Relinquished by: (Signature) 1/10/95
Received by: (Signature)
Date/Time 1/10/95
Relinquished by: (Signature)
Received by Laboratory for analysis: (Signature)
Date/Time
Special Instructions:

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(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 1/10/95 Page 2 of 2

CLIENT Conestoga Consultants
ADDRESS 15245 Alton Pkwy. #100
Irvine, CA. 92718-2307
PROJECT NAME RED EAGLE
PROJECT MANAGER Mike Batten
PHONE NUMBER (714) 453-2880
SAMPLERS: (Signature)

Samples Intact Yes ✓ No ____
County Seals Intact Yes ____ No N/A
Sample Ambient ____ Cooled ____ Frozen ____
Same Day ✓ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE: WATER	SAMPLE TYPE: AIR	SAMPLE TYPE: SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
13-	BH-10 15-15.5'	1/10/95	2:00			✓	1	ACE	8015 ACE only!)
14-	BH-10 20-20.5'		2:30			✓	1		
15.	BH-10 25-25.5'		3:15			✓	1		
16-	BH-10 30-30.5'		3:30			✓	1		
17-	BH-10 35-35.5'		4:10			✓	1		
18	BH-10 40-40.5'		4:55			✓	1		

Relinquished by: (Signature)
Received by: (Signature)
Date/Time 1/10/95

Relinquished by: (Signature)
Received by Laboratory for analysis: (Signature)
Date/Time

Special Instructions:

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ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900 FAX 714/538-1209

CLIENT

Converse Environmental West
Attn: Mike Batten
15245 Alton Pkwy., #100
Irvine, CA 92718-2307

LAB NO. ML00794
REPORTED 01/16/95

SAMPLE Soil
IDENTIFICATION Red Eagle
Project #942871-03
1551 Orangethorpe, Fullerton
BASED ON SAMPLE As Submitted to Our Mobile Laboratory

RECEIVED 01/11/95

	Tetrachloroethene
BH-11 @ 15-15.5'	31 ppb
BH-11 @ 20-20.5'	19 ppb
BH-11 @ 25-25.5'	100 ppb
BH-11 @ 30-30.5'	29 ppb
BH-11 @ 40-40.5'	16 ppb
BH-11 @ 35-35.5'	ND<10 ppb
BH-12 @ 15-15.5'	190 ppb
BH-12 @ 20-20.5'	ND<10 ppb
BH-12 @ 25-25.5'	41 ppb
BH-12 @ 30-30.5'	11 ppb
BH-12 @ 35-35.5'	ND<10 ppb
BH-12 @ 40-40.5'	50 ppb
BH-13 @ 15-15.5'	140 ppb
BH-13 @ 20-20.5'	16 ppb
BH-13 @ 25-25.5'	13 ppb
BH-13 @ 30-30.5'	ND<10 ppb
BH-13 @ 35-35.5'	ND<10 ppb
BH-13 @ 40-40.5'	ND<10 ppb

ASSOCIATED LABORATORIES, by:

Edward S. Behare, Ph.D.
Vice President

ESB/ql

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Chemical • Microbiological • Environmental •

ASSOCIATED LABORATORIES
806 N. Batavia • Orange, CA 92668
(714) 771-6900 • FAX: (714) 538-1209

CHAIN OF CUSTODY RECORD

Date 1/11/95 Page 1 of 2

CLIENT Converse Consultants

ADDRESS 1-2-15 Acton Pkwy. #100
Irvine, CA. 92715-2307

PROJECT NAME RED EAGLE

PROJECT MANAGER Mike Britton

PHONE NUMBER (714) 453-2880

SAMPLERS: (Signature) [illegible]

Samples Intact Yes ✓ No ___
County Seals Intact Yes ___ No N/A
Sample Ambient ✓ Cooled ___ Frozen ___
Same Day ✓ 24 Hr. ___
Regular ___ 48 Hr. ___

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE WATER	AIR	SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
1-	BH-11 - 15-15.5'	1/11/95	8:25			✓	1-	PCE	
2-	BH-11 20-20.5'		8:50			✓	1		(8010) PCE only
3-	BH-11 25-25.5'		9:10			✓	1		
4-	BH-11 30-30.5'		9:30			✓	1		
5-	BH-11 40-40.5'		9:50			✓	1		
6-	BH-11 35-35.5'		10:10			✓	1		
7-	BH-12 15-15.5'		10:20			✓	1		
8-	BH-12 20-20.5'		12:00			✓	1		
9-	BH-12 25-25.5'		12:00			✓	1		
10-	BH-12 30-30.5		12:30			✓	1		
11-	BH-12 35-35.5		12:45			✓	1		
12-	BH-12 40-40.5		1:10			✓	1		

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Steve Mofield	Don MWh	1/11/95
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time

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CHAIN OF CUSTODY RECORD

Date 1/11/95 Page 2 of 2

CLIENT Converse Consultants
ADDRESS 15245 Alton Pkwy. #100
Irvine, CA. 92718-2305
PROJECT NAME RED EAGLE

PROJECT MANAGER Mike Batton
PHONE NUMBER (714) 453-2880
SAMPLERS: (Signature)

Samples Intact Yes ✓ No ____
County Seals Intact Yes ____ No N/A
Sample Ambient ____ Cooled ____ Frozen ____
Same Day ✓ 24 Hr. ____
Regular ____ 48 Hr. ____

SAMPLE NUMBER	LOCATION DESCRIPTION	DATE	TIME	SAMPLE TYPE: WATER	SAMPLE TYPE: AIR	SAMPLE TYPE: SOLID	NO OF CNTNRS	SUSP. CONTAM.	TESTS REQUIRED
13-	BH-13 15-15.5'	1/11/95	2:10			✓	1	RE	8010 ACE only
14-	BH-13 20-20.5'		2:25			✓	1		
15-	BH-13 25-25.5'		2:35			✓	1		
16-	BH-13 30-30.5'		2:55			✓	1		
17-	BH-13 35-35.5'		3:10			✓	1		
18	BH-13 40-40.5'		3:30			✓	1		

Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1/11/95
Relinquished by: (Signature)	Received by Laboratory for analysis: (Signature)	Date/Time

Special Instructions:

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APPENDIX C

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-4A

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE SERVICES
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE SERVICES
SITE GEOLOGIST(S)	SSM	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 41.00	WELL CONST TD(ft) N/A
ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	
GRADE LEVEL(ft)		CITY FULLERTON	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	1/9/95	ATD		N/A
WELL CONST	1/9/95	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	1/9/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 1/6/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											ASPHALT
		5											
		10											
1		15									sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN SAND, BROWN.
2		20									sm	SM	SANDY SILT: INCREASING SAND, FINE TO MEDIUM GRAIN.
		25											

DESCRIPTION
OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-03

LOG OF: BH-4A

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25											OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
3		30									sm	ML	CLAYEY SILT: SOME SAND,DRK. BROWN.
											sm	SM	SILTY SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
4		35									sm	SP	SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
5											sm	ML	SANDY SILT: TRACE CLAY, BROWN, FINE TO MEDIUM GRAIN SAND.
		40											PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
		45											
		50											
		55											
		60											
		65											

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-11

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE SERVICES
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE SERVICES
SITE GEOLOGIST(S)	SSM	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 41.00	WELL CONST TD(ft) N/A
ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	
GRADE LEVEL(ft)		CITY FULLERTON	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	1/11/95	ATD		N/A
WELL CONST	1/11/95	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	1/11/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 1/6/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS (Gvl Scr Smd Sfn Slt Cl)	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0			sm	SP	ASPHALT SAND: FINE TO MEDIUM GRAIN, LT.BROWN
		5					
		10			sm	ML	CLAYEY SILT: DRK. BROWN, INCREASING FINES. INCREASING CLAY.
1		15			sm	SP	SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
					sm	SM	SANDY SILT: FINE GRAIN SAND, BROWN.
					sm	SP	SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
2		20			sm	ML	CLAYEY SILT: DRK BROWN.
					sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN, BROWN.
		25			sm	ML	CLAYEY SILT: DRK. BROWN.

CONVERSE ENVIRONMENTAL WEST, INC.

PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-03

LOG OF: BH-11

Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25											OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
3											sm	SM	SILTY SAND/SANDY SILT: INCREASING SAND, BROWN.
											sm	ML	CLAYEY SILT: DRK. BROWN.
4		30									sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN SAND, DRK. BROWN.
											sm	ML	CLAYEY SILT: DRK. BROWN, INCREASING CLAY.
											sm	CL	SILTY CLAY: DRK. BROWN.
											sm	SM	SANDY SILT/SILTY SAND: BROWN, FINE TO MEDIUM GRAIN SAND.
5		35									sm	SP	SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
											sm	ML	CLAYEY SILT: DRK. BROWN.
6		40											PROBER'S TOTAL DEPTH = 40.5 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
		45											
		50											
		55											
		60											
		65											

CONVERSE ENVIRONMENTAL WEST - O.C.

SHEET 1 OF 2

LOG OF: BH-6A

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE SERVICES
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE SERVICES
SITE GEOLOGIST(S)	SSM	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 41.00	WELL CONST TD(ft) N/A
ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	
GRADE LEVEL(ft)		CITY FULLERTON	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	1/9/95	ATD		N/A
WELL CONST	1/9/95	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	1/9/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 1/6/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											ASPHALT
		5											
		10											
		15											
1		20									sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN SAND, BROWN, CHLORINATED ODOR.
2		25									sm	SM	SILTY SAND: INCREASING SAND, FINE TO MEDIUM GRAIN, SLIGHT ODOR.

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-03

LOG OF: BH-6A

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl | Scr | Smd | Sfn | Slt | Cl

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25					OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
3		30			sm	SM	SILTY SAND: FINE TO MEDIUM GRAIN,DRK. BROWN.
4		35			sm	SP	SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
					sm	SP	SAND: FINE TO MEDIUM GRAIN.
5		40			sm	SM	SILTY SAND: FINE TO MEDIUM GRAIN. PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
		45					
		50					
		55					
		60					
		65					

CONVERSE ENVIRONMENTAL WEST - O.C.

SHEET 1 OF 2

LOG OF: BH-8

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE SERVICES
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE SERVICES
SITE GEOLOGIST(S)	SSM	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 41.00	WELL CONST TD(ft) N/A
ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	
GRADE LEVEL(ft)		CITY FULLERTON	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	1/10/95	ATD		N/A
WELL CONST	1/10/95	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	1/10/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 1/6/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0					ASPHALT
		5					
1		10			sm	ML	SANDY SILT: FINE GRAIN SAND, BROWN, CHLORINATED ODOR.
2		15			sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN SAND, BROWN, CHLORINATED ODOR.
3		20			sm	SM	SILTY SAND: INCREASING SAND, FINE TO MEDIUM GRAIN, SLIGHT ODOR.
		25					

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-03

LOG OF: BH-8

Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25					OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
4		30			sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN, DRK. BROWN, SLIGHT ODOR.
5		35			sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN, BROWN, SLIGHT ODOR.
6		40			sm	ML	CLAYEY SILT: TRACE SAND, SLIGHT ODOR.
		45					PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
		50					
		55					
		60					
		65					

CONVERSE ENVIRONMENTAL WEST - O.C.

SHEET 1 OF 2

LOG OF: BH-9

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE SERVICES
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE SERVICES
SITE GEOLOGIST(S)	SSM	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 41.00	WELL CONST TD(ft) N/A
ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	
GRADE LEVEL(ft)		CITY FULLERTON	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	1/10/95	ATD		N/A
WELL CONST	1/10/95	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	1/10/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl Scr Smd Sfn Slt Cl

PID/OVA CALIBRATION DATE: 1/6/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0					ASPHALT
		5					
		10					
1					sm	SM	SANDY SILT: FINE GRAIN SAND, BROWN, CHLORINATED ODOR.
		15					
2					sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN SAND, BROWN, SOME CLAY.
		20					
3					sm	SM	SILTY SAND: FINE TO MEDIUM GRAIN, SLIGHT ODOR.
		25					

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.

PROJECT NAME RED EAGLE/FULLERTON

PROJECT NO 94-42871-03

LOG OF: BH-9

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud
Gvl | Scr | Smd | Sfn | Slt | Cl

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25					OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
4		30			sm	ML	CLAYEY SILT: SOME FINE GRAIN SAND, DRK. BROWN, SLIGHT ODOR.
5		35			sm	SP	SAND: FINE TO MEDIUM GRAIN, BROWN, SLIGHT ODOR.
6		40			sm	ML	SANDY SILT: FINE TO MEDIUM GRAIN SAND, SOME CLAY, SLIGHT ODOR.
		45					PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
		50					
		55					
		60					
		65					

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-10

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE SERVICES
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE SERVICES
SITE GEOLOGIST(S)	SSM	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 41.00	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)
GRADE LEVEL(ft) _____
TOP OF CASING(ft) N/A

LOCATION T R SEC. 1/4
CITY FULLERTON CO OR
COORDINATES(ft)

RECORD:	DATE/TIME
DRLG/CORING	1/10/95
WELL CONST	1/10/95
WELL DEVELOP	N/A
BACKFILL	1/10/95

GROUNDWATER:	DEPTH(ft)	DATE/TIME
ATD		N/A
SWL*		N/A
SPL*	N/A	N/A

(* PRIOR TO INITIAL DEVELOPMENT)

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 1/6/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											ASPHALT
		5											
1		10									sm	ML	SANDY SILT: FINE GRAIN SAND, BROWN.
2		15									sm	SM	SANDY SILT/SILTY SAND: INCREASING SAND-FINE TO MEDIUM GRAIN BROWN,
3		20									sm	ML	SANDY SILT: FINE GRAINSAND.
		25											

PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-03

LOG OF: BH-10

Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25					OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
4		30			sm	ML	SANDY SILT: SOME FINE GRAIN SAND AND CLAY, BROWN, SLIGHT ODOR.
5		35			sm	SP	SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
6		40			sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN SAND, SOME CLAY.
		45					PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
		50					
		55					
		60					
		65					

PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-03

LOG OF: BH-5A

Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25									sm	ML	CLAYEY SILT: DRK. BROWN, CHLORINATED ODOR.
											sm	SM	SILTY SAND: FINE TO MEDIUM GRAIN SAND, BROWN, CHLORINATED ODOR.
											sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN SAND, CHLORINATED ODOR.
1		30									sm	ML	CLAYEY SILT: SOME SAND, INCREASING CLAY, DRK. BROWN.
											sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN SAND, BROWN.
2		35									sm	ML	CLAYEY SILT: BROWN, CHLORINATED ODOR.
											sm	SP	SAND: FINE TO MEDIUM GRAIN, CHLORINATED ODOR.
3		40									sm	SM	SANDY SILT: TRACE CLAY, FINE TO MEDIUM GRAIN SAND.
											sm	SM	SILTY SAND
													PROBER'S TOTAL DEPTH = 41.5 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
		45											
		50											
		55											
		60											
		65											

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-5A

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE SERVICES
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE SERVICES
SITE GEOLOGIST(S)	SSM	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 41.50	WELL CONST TD(ft) N/A
ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	
GRADE LEVEL(ft)		CITY FULLERTON	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	1/9/95	ATD		N/A
WELL CONST	1/9/95	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	1/9/95	(* PRIOR TO INITIAL DEVELOPMENT)		

PID/OVA CALIBRATION DATE: 1/6/95 CALIBRATION UNITS: 95 ppm

THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.

THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											ASPHALT
		5											
		10											
		15											
		20											
		25											

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-12

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE SERVICES
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE SERVICES
SITE GEOLOGIST(S)	SSM	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 41.00	WELL CONST TD(ft) N/A
ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	
GRADE LEVEL(ft)		CITY FULLERTON	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	1/11/95	ATD		N/A
WELL CONST	1/11/95	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	1/11/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 1/6/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											ASPHALT
		5											
1		10									sm	ML	CLAYEY SILT: BROWN.
2		15									sm	SM	SILTY SAND: INCREASING SAND-FINE TO MEDIUM GRAIN, BROWN,
3		20									sm	SM	SILTY SAND: FINE TO MEDIUM GRAIN.
		25											

DESCRIPTION
OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-03

LOG OF: BH-12

Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25											OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
4		30									sm	ML	CLAYEY SILT: INCREASING CLAY, BROWN.
5		35									sm	SP	SAND: FINE TO MEDIUM GRAIN, LT. BROWN.
6		40									sm	ML	CLAYEY SILT: SOME FINE GRAIN SAND, DRK. BROWN.
		45											PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
		50											
		55											
		60											
		65											

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-13

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	ON-SITE SERVICES
PROJECT NO.	94-42871-03	DRILLER(S)	ON-SITE SERVICES
SITE GEOLOGIST(S)	SSM	RIG/METHOD	GEOPROBE
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 41.00	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)		LOCATION T R SEC. 1/4	
GRADE LEVEL(ft)		CITY FULLERTON	CO OR
TOP OF CASING(ft)	N/A	COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	1/11/95	ATD		N/A
WELL CONST	1/11/95	SWL*		N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	1/11/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 1/6/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											ASPHALT
		5											
1		10									sm	ML	CLAYEY SILT: BROWN.
2		15									sm	SM	SANDY SILT: INCREASING SAND-FINE TO MEDIUM GRAIN, BROWN,
3		20									sm	SM	SANDY SILT: FINE TO MEDIUM GRAIN SAND, MICACEOUS.
		25											

DESCRIPTION
OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-03

LOG OF: BH-13

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25					OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
4		30			sm	ML	CLAYEY SILT: INCREASING CLAY, BROWN.
5		35			sm	ML	SANDY SILT: FINE TO MEDIUM GRAIN SAND, SOME CLAY, LT. BROWN.
		40			sm	SP	SAND: FINE TO MEDIUM GRAIN SAND, LT. BROWN.
		45			sm	ML	CLAYEY SILT: DRK BROWN. PROBER'S TOTAL DEPTH = 41 FEET BELOW GROUND SURFACE. NO FREE GROUND WATER ENCOUNTERED BELOW GROUND SURFACE.
		50					
		55					
		60					
		65					

Reference:
Reynolds, 2008

March 14, 2008
(TRG No. 7115)

Mr. Luis Lodrigueza
ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
1241 E. Dyer Road Suite 120
Santa Ana, CA 92705-5611

THE REYNOLDS GROUP
a California corporation

SITE: **FULLERTON BUSINESS PARK NORTH**
(FORMER OCHCA #94IC29)
1551 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

SUBJECT: **SOIL VAPOR SURVEY AND ADDITIONAL VAPOR WELL INSTALLATION REPORT**

Dear Mr. Lodrigueza:

This report summarizes recent work completed at the subject Site as envisioned by The Reynolds Group (TRG) in the "Workplan for Additional Soil Vapor Assessment, Vapor Well Installation, and Commencement of Soil Extraction" dated October 5, 2007, and approved by the Orange County Health Care Agency (OCHCA) in a letter dated October 11, 2007 (see Attachment A).

SUMMARY OF RECENT WORK

Work between October 2007 and January 2008 was summarized in an e-mail to you dated January 21, 2008 (see Attachment B). To reiterate, TRG had installed 12 temporary soil vapor probes, six vapor extraction wells, and four passive wells. A Soil Vapor Extraction (SVE) unit was delivered, mobilized, and the system started in early January 2008. On January 21, 2008, the Radius of Influence (ROI) was measured from well screens at 5, 15 and 25 ft below ground surface (ft bgs) with an influence of 0, 55, and 65 radial feet, respectively.

This report summarizes field activities performed in February 2008, including further soil vapor sampling and the installation of eight additional vapor extraction wells (VEWs). To date, the full scope of work proposed in the October 2007 workplan has been completed.

FEBRUARY 2008 FIELD ACTIVITIES

Soil Vapor Sampling

On February 22, 2008, TRG directed Optimal Technologies of Chatsworth, California, to collect 14 soil vapor samples from eight temporary soil probes (SV26, SV27, SV29 – SV33 and VEW6). The soil vapor samples were collected with an electric vacuum pump. Three point calibration, leak testing, equipment blanks, and tracer gas leak testing were all included in these field activities. Based on previous fieldwork at the Site, seven purge volumes produced the

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MAR 13 2008
ENVIRONMENTAL HLTH

Tel 714-730-5397 PO Box 1996, Tustin, California 92781-1996 Fax 714-730-6476
www.reynolds-group.com

highest vapor sample concentrations and, thus, this purge volume was applied to this February 2008 sampling event.

TRG conducted this additional vapor sampling to determine the effectiveness of the SVE system. The October 2007 and February 2008 vapor sample results with corresponding PCE and TCE concentrations are summarized in the following table and the full laboratory report is provided as Attachment C of this report.

Sample Location	Date	Depth (ft)	PCE (ug/L)	TCE(ug/L)
SV26	10/10/07	15	11.0	2.0*
	2/18/08		2.2	1.1*
SV27	10/10/07	5	66.0	50.0
	2/18/08		5.1	3.1*
	10/10/07	15	74.0	68.0
	2/18/08		10.0	2.5*
SV29	10/10/07	5	23.0	5.2*
	2/18/08		9.6	1.6*
	10/10/07	15	21.0	6.3*
	2/18/08		13.3	2.9*
SV30	10/9/07	5	53.0	71.0
	2/18/08		14.4	15.7*
	10/9/07	15	4.8	2.8*
	2/18/08		21.7	26.6
SV31	10/9/07	5	1.5	2.0*
	2/18/08		Refusal	
	10/9/07	15	16.0	44.0
	2/18/08		11.9	23.4
SV32	10/9/07	5	11	38
	2/18/08		2.0	7.2*
	10/9/07	15	11	32
	2/18/08		2.3	12.4*
SV33	10/9/07	5	25	47
	2/18/08		1.0	<5.0*
	10/9/08	15	54	90
	2/18/08		6.7	15.9*
VEW6	10/18/07	5	3.7	3.1*
	2/18/08		7.3	14.6*
	10/18/07	15	110	110
	2/18/08		8.2	12.4*

Notes: * - locations below the site specific clean up levels (PCE = 0.603 and TCE = 17.7)

Vapor Well Installation

The initial vapor extraction well (VEW) locations in the October 2007 Workplan were proposed according to the ROI measured at 25 radial feet during the last remediation in the 1990s. Based on the 55 foot ROI measured by TRG in January 2008 and the decrease in concentrations between the October 2007 and February 2008 vapor sampling events, TRG adjusted locations of the proposed VEWs by increasing the lateral distance between wells as still provide ample vapor extraction coverage in the area of impact (see Figure 2 – Plot Plan with Well Locations).

On February 25 and 27, 2008, TRG advanced eight soil borings using a limited access rig, three to 25 ft bgs and five to 15 ft bgs. All borings were converted into additional soil vapor extraction wells at the Site (VEW7, VEW8, VEW10, VEW11, and VEW13 through VEW16) as shown on the attached Figure 2 – "Plot Plan with Well Locations." The additional wells were installed to complete the scope of work proposed in the October 2007 Workplan and with the intent of capturing the remaining areas under the warehouse potentially impacted by chlorinated solvent vapors. Since vapor intrusion is the primary concern at the Site, and because of the poor correlations between soil matrix data and soil vapor data, no soil samples were collected during the February 2008 work.

A drilling rig equipped with 8-inch hollow stem augers was used to advance the soil borings to 15 or 25 ft bgs. Five of the borings were converted into shallow vapor extraction wells, screened from 2 to 5 and 12 to 15 feet. The remaining three borings were converted into deeper vapor wells, screened from 2 to 5, 12 to 15, and 22 to 25 feet. Each well was constructed with 2-inch diameter schedule 40 PVC piping.

All field wastes were containerized and disposed. A manifest for the disposal of soil is attached to this report.

The new wells were tied into the soil vapor extraction system between February 28 and March 4, 2008. Construction activities included an additional manifold, the installation of sampling ports at each well, and the suspension of PVC from the warehouse ceiling to the SVE system.

PROJECT STATUS

TRG plans to operate the soil vapor extraction system until vapor concentrations have declined sufficiently for your re-issue of a "no further action" letter.

REGISTERED PROFESSIONAL STATEMENT

All work on this project was performed under the responsible charge of a California Registered Civil Engineer. The licensed professional whose wet ink signature and seal appear at the end of this report supervised and conducted all work associated with the project.

Should you have any questions regarding this report, please do not hesitate to contact Christa Wolfe at (714)920-7772. Thank you for your oversight of this work. Please come to the Site anytime to visit us and personally see the case.

Sincerely,
THE REYNOLDS GROUP
a California corporation by:

F. Edward Reynolds, Jr.
California Registered Civil Engineer #

REGISTERED PROFESSIONAL ENGINEER
F. EDWARD REYNOLDS, JR.
No. 38877
F. March 31, 2009
CIVIL
STATE OF CALIFORNIA

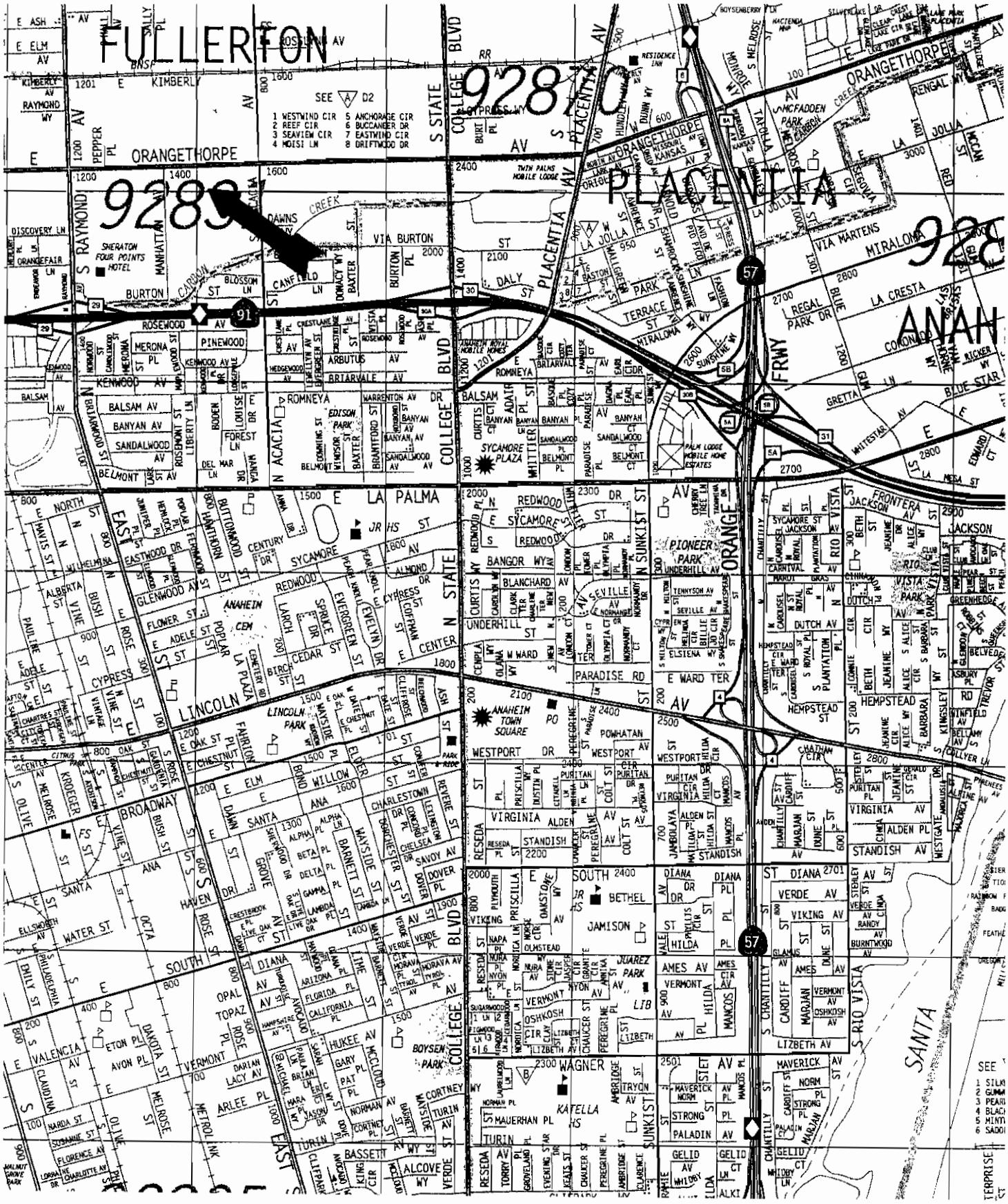
Christa Wolfe
Project Manager

Attachments:

Figure 1 –	Site Location Map
Figure 2 –	Plot Plan with Well Locations
Attachment A	OCHCA Workplan Approval Letter dated October 11, 2007
Attachment B	January 2008 E-Mail to OCHCA Summarizing Oct. to Jan. 2008 Work
Attachment C	Laboratory Analytical Results (October 2007 and February 2008)

cc: Dominick Baione, **UNIVERSAL MOLDING EXTRUSION COMPANY c/o**
James McFadden, **GRUBB & ELLIS**

FIGURES



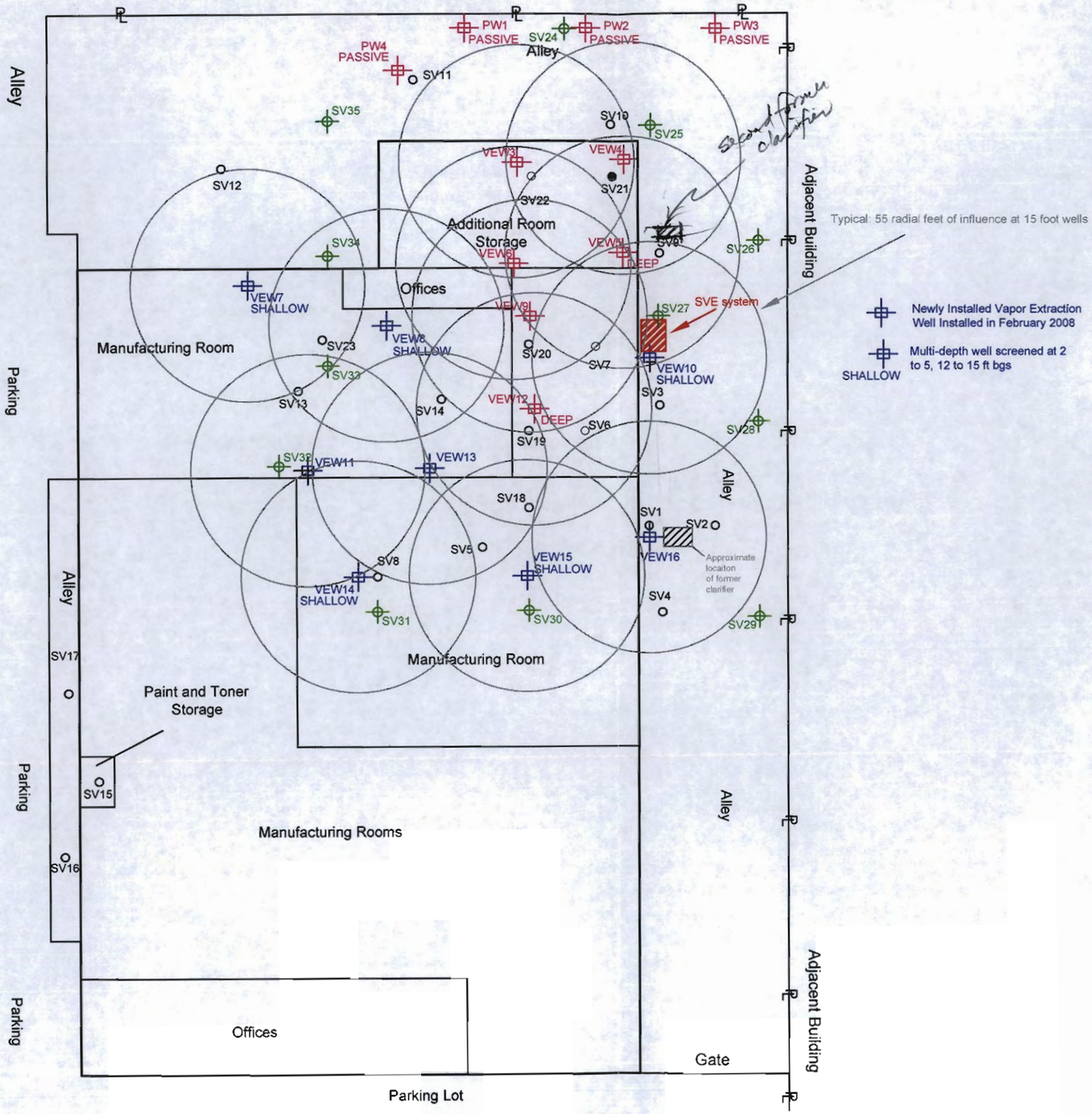
Adapted from Orange County
Thomas Brothers Map Guide 2006

N

THE REYNOLDS GROUP ENVIRONMENTAL SERVICES

Project No. 7115	SITE LOCATION MAP
Date: March 2007	
1551 E. Orangethorpe Fullerton, CA	FIGURE 1

Former Johnson Controls
(Active Remediation Area)



NORTH

General Notes

- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP -Vapor Extraciton Well Locaiton (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE -Passive Vapor Well Locaiton (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- - Soil Vapor Probe Location
- ○ - Soil Gas Locaiton
- ● - Soil Gas Location with no recovery

Note: TYP = typical

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH WELL LOCATIONS

Figure #
Figure 2

Revise Date
March 7, 2008

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

ATTACHMENT A

OCHCA WORKPLAN APPROVAL LETTER DATED OCTOBER 11, 2007

JC

RECEIVED
OCT 17 2007
CF

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH

JULIETTE A. POULSON, RN, MN
DIRECTOR

DAVID M. SOULELES, MPH
DEPUTY AGENCY DIRECTOR

RICHARD SANCHEZ, REHS, MPH
INTERIM DIRECTOR
ENVIRONMENTAL HEALTH

MAILING ADDRESS:
1241 EAST DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611

TELEPHONE: (714) 433-6000
FAX: (714) 754-1732
E-MAIL: ehealth@ochca.com

Excellence
Integrity
Service

20071011 OCHCA WP For Added Assessment SVE. 7115

October 11, 2007

Dominick Baione
Universal Molding Extrusion Company
9151 East Imperial Highway
Downey, CA 90242

Subject: **Work Plan for Additional Assessment, Soil Vapor Extraction**

Re: Fullerton Business Park-North
1551 Orangethorpe Avenue
Fullerton, CA 92833
OCHCA Case #07IC015

Dear Mr. Baione:

Orange County Health Care Agency (OCHCA), Environmental Health has reviewed the subject work plan, dated October 5, 2007, submitted by The Reynolds Group. OCHCA finds the work plan to be acceptable, provided the following considerations are addressed:

1. The soil permeability and radius of influence cited from another consultant must be independently verified, and the soil vapor extraction system design modified accordingly.
2. Final verification of the successful completion of remedial action must be conducted in the presence of OCHCA staff.

If you have any questions regarding this matter, please contact the undersigned at (714) 433-6253.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Mitigation Section
Environmental Health Division

PROJ# 7115 Name Universal
C P R
cc JC DZ ER RT AL

cc: Kamron Saremi, California Regional Water Quality Control Board- Santa Ana Region
John Cleary, The Reynolds Group, 520 West First Street, Tustin, CA 92780
James R. McFadden, Grubb & Ellis, 500 North State College Suite 100, Orange, CA 92868
John C. Glaser, Glaser, Tonsich & Associates, LLC, 765 West 9th Street, San Pedro, CA 90731

ATTACHEMENT B

JANUARY 2008 E-MAIL TO OCHCA
SUMMARIZING OCTOBER TO JANUARY 2008 WORK

Subject :
Date : Mon, 21 Jan 2008 15:56:00 -0700
Linked to : Luis Lodrigueza (Dominick Baione)
From : Christa Wolfe <wolfe@reynolds-group.com>
To : Luis Lodrigueza <llodrigueza@ochca.com>
Cc : Dominick Baione <unianimex@aol.com>; James R. McFadden <jim.mcfadden@grubb-ellis.com>

Dear Mr. Lodrigueza,

The Reynolds Group (TRG) would like to thank you for your supervision of the remediation activities at 1551 E. Orangethorpe Ave Fullerton. Our last correspondence with you occurred in October 2007 with the receipt of your approval letter for the "Workplan for Additional Assessment, Soil Vapor Extraction" dated October 11, 2007. We would like to update you on the actives at the property since our last correspondence.

In accordance with the approved workplan, TRG installed twelve (12) temporary soil vapor probes and six (6) of the sixteen proposed vapor wells. Four passive wells open to the atmosphere were also advanced to prevent the migration of vapors from the adjacent property previously owned by Johnson Controls (see the attached Site Plot Plan). We delivered and mobilized a Soil Vapor Extraction (SVE) system with a various locations permit on January 4th 2008. All four (4) triple-nested and both quad-nested Vapor Extraction Wells (VEW) are open to the system and moving vapors from the zone of highest contaminations between 5 and 25 ft below ground surface (bgs). The deep VEWs set at 60 ft bgs are not open to the system as the bulk of the vacuum is applied to the shallow zone with purpose of expediting the time to achieve lower levels.

TRG collected data for the Radius Of Influence (ROI) on January 21, 2008. The ROI at 15 and 25 ft below ground surface is 55 and 65 radial feet, respectively (see the attached Cross Section).
In March 2008 the second round of soil vapor sampling will be conducted to quantify the progress of the remediation activities. Please call us at anytime to see the site.

Best Regards,

Christa Wolfe
with The Reynolds Group
714-920-7772

ATTACHMENT C

LABORATORY ANALYTICAL REPORTS (OCTOBER 2007 AND FEBRUARY 2008)

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

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FEB 2 3 2008

February 21, 2008

Ms. Christa Wolfe
The Reynolds Group
520 W. 1st St.
Tustin, CA 92780

Dear Ms. Wolfe:

This letter presents the results of the soil vapor investigation conducted by Optimal Technology (Optimal), for The Reynolds Group on February 18, 2008. The study was performed at 1551 E. Orangethorpe Avenue, Fullerton, California.

Optimal was contracted to perform a soil vapor survey at this site to screen for possible chlorinated solvents and aromatic hydrocarbons. The primary objective of this soil vapor investigation was to determine if soil vapor contamination is present in the subsurface soil.

Gas Sampling Method

Gas sampling was performed by attaching an electric vacuum pump (able to draw 0.1-5.0 liters/min of soil vapor at a maximum vacuum of 100" of water) to the existing vapor well and purged prior to sample collection. Vapor samples were obtained in Hamilton gas-tight syringes by puncturing silicone tubing which connects the sampling well and the vacuum pump. New silicone tubing was used at each sampling point to prevent cross contamination. Samples were immediately injected into the gas chromatograph after collection.

All analyses were performed on a laboratory grade Hewlett Packard model 5890 Series II gas chromatograph equipped with a Hewlett Packard model 5971 Mass Spectra Detector. An SGE capillary column using helium as the carrier gas was used to perform all analysis. All results were collected on a personal computer utilizing Hewlett Packard's 5971 MS and chromatographic data collection and handling system.

Quality Assurance

3-Point Calibration
An initial 3-point calibration was performed on February 18, 2008 by preparing a calibration solution from a pre-mixed standard supplied by Supelco, Inc. The standard contained common halogenated solvents and aromatic hydrocarbons (see Table 1). The individual compound concentrations in the standards ranged between 0.025 nanograms per microliter(ng/ul) and 0.25 ng/ul.

The initial three point calibrations consisted of 100, 250 and 500 ul injections of the calibration solutions. A calibration factor on each analyte was generated using a best fit line method using the HP data system. If the r^2 factor generated from this line was not greater than 0.990, an additional three point calibration would have been performed. Method detection limits were calculated to be 1.0 micrograms per Liter (ug/L) for the individual compounds.

TABLE 1

Dichlorodifluoromethane	Carbon Tetrachloride	Chloroethane
Trichlorofluoromethane	1,2-Dichloroethane	Benzene
1,1-Dichloroethene	Trichloroethene	Toluene
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m-/p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113
4-Methyl-2-Pentanone	Cyclohexane	Acetone
Chlorobenzene	2-Butanone	Isobutane

Sample Replicates

A replicate analysis (duplicate) was run to evaluate the reproducibility of the sampling system and instrument. The difference between samples did not vary more than 20%.

Equipment Blanks

Blanks were run at the beginning of each workday and after calibrations. The blanks were collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

Tracer Gas

A tracer gas was applied to the soil gas well at each point of connection in which ambient air could enter the sampling system. These points include the top of the sampling well where the tubing meets the well connection and the surface bentonite seals. Isobutane was used as the tracer gas, found in common shaving cream. No Isobutane was found in any of the samples collected.

Scope of Work

To achieve the objective of this investigation a total of 15 vapor samples were collected from 10 locations throughout the site. Sampling depths, vacuum readings, purge volume and sampling volumes are given on the analytical results page. All the collected vapor samples were analyzed on-site using Optimal's mobile laboratory.

Results

During this vapor investigation all samples contained levels of Tetrachloroethene (PCE). PCE levels ranged from 1.0 ug/L at SV-33-5' to 21.7 ug/L at SV-30-15'. Fourteen samples contained levels of Trichloroethene (TCE). TCE levels ranged from 1.1 ug/L at SV-26-15' to 26.6 ug/L at SV-30-15'. Four samples contained levels of 1,1-Dichloroethene. 1,1-Dichloroethene levels ranged from 6.5 ug/L at SV-30-15' to 10.3 ug/L at SV-32-15'. Eight samples contained levels of 1,1,1-Trichloroethane (TCA). TCA levels ranged from 1.2 ug/L at SV-32-5' to 23.0 ug/L at SV-30-15'. Additionally, SV-31-15' contained 3.4 ug/L of Freon 113. Finally, six well samples were not collected or tested because the wells had high vacuum. No airflow was attained. None of the other compounds listed in Table 1 above were detected above the listed detection limits. A complete table of analytical results is included with this report.

Disclaimer

All conclusions presented in this letter are based solely on the information collected by the soil vapor survey conducted by Optimal Technology. Soil vapor testing is only a subsurface screening tool and docs not represent actual contaminant concentrations in either the soil and/or groundwater. We enjoyed working with you on this project and look forward to future projects. If you have any questions please contact me at (877) 764-5427.

Sincerely,

Jason Anderson
Project Manager

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: HP-5971 Mass Spectrometer

Date: 2/18/08

SAMPLE ID	BLANK-1	SV-29-5'	SV-29-15'	SV-25-5'	SV-25-15'	SV-27-5'	SV-27-15'	VEW-6-5'
Sampling Depth (Ft.)	N/A	5.0	15.0	5.0	15.0	5.0	15.0	5.0
Purge Volume (ml)	N/A	337	1,013	N/A	N/A	337	1,013	22,000
Vacuum (in. of Water)	N/A	0	0	> 100	> 100	0	0	0
Injection Volume (ul)	1000	1000	1000	N/A	N/A	1000	1000	1000
Dilution Factor	1	1	1	N/A	N/A	1	1	1

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Chloroethane	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Trichlorofluoromethane	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Freon 113	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Methylene Chloride	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
1,1-Dichloroethane	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Chloroform	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
1,1,1-Trichloroethane	1.0	ND	ND	ND	N/A	N/A	ND	ND	**1.3**
Carbon Tetrachloride	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
1,2-Dichloroethane	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Trichloroethene (TCE)	1.0	ND	**1.6**	**2.9**	N/A	N/A	**3.1**	**2.5**	**14.6**
1,1,2-Trichloroethane	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Tetrachloroethene (PCE)	1.0	ND	**9.6**	**13.3**	N/A	N/A	**5.1**	**10.0**	**7.3**
1,1,1,2-Tetrachloroethane	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Vinyl Chloride	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Acetone	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
1,1-Dichloroethene	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
trans-1,2-Dichloroethene	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
2-Butanone (MEK)	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
cis-1,2-Dichloroethene	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Cyclohexane	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Benzene	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
4-Methyl-2-Pentanone	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Toluene	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Chlorobenzene	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Ethylbenzene	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
m/p-Xylene	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
o-Xylene	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND
Isobutane (Tracer Gas)	1.0	ND	ND	ND	N/A	N/A	ND	ND	ND

Note: ND = Below Listed Detection Limit; N/A = No Sample Taken Due To High Vacuum

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: HP-5971 Mass Spectrometer

Date: 2/18/08

SAMPLE ID	VEW-6-15'	SV-30-5'	SV-30-15'	SV-32-5'	SV-32-15'	SV-32-15' Dup	SV-33-5'	SV-33-15'
Sampling Depth (Ft.)	15.0	5.0	15.0	5.0	15.0	15.0	5.0	15.0
Purge Volume (ml)	65,000	337	1,013	337	1,013	1,013	337	1,013
Vacuum (in. of Water)	0	0	0	0	0	0	0	0
Injection Volume (ul)	1000	1000	1000	1000	1000	1000	1000	1000
Dilution Factor	1	1	1	1	1	1	1	1

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1.0	**2.3**	**8.7**	**23.0**	**1.2**	**1.3**	**1.4**	ND	ND
Carbon Tetrachloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	1.0	**12.4**	**15.7**	**26.6**	**7.2**	**10.5**	**12.4**	ND	**15.9**
1,1,2-Trichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	1.0	**8.2**	**14.4**	**21.7**	**2.0**	**2.3**	**2.3**	**1.0**	**6.7**
1,1,1,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.0	ND	ND	**6.5**	ND	**9.4**	**10.3**	ND	ND
trans-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	1.0	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Isobutane (Tracer Gas)	1.0	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Detection Limit

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: HP-5971 Mass Spectrometer

Date: 2/18/08

SAMPLE ID	SV-24-5'	SV-24-15'	SV-26-5'	SV-26-15'	SV-31-5'	SV-31-15'		
Sampling Depth (Ft.)	5.0	15.0	5.0	15.0	5.0	15.0		
Purge Volume (ml)	N/A	N/A	N/A	1,013	N/A	1,013		
Vacuum (in. of Water)	> 100	> 100	> 100	30	> 100	0		
Injection Volume (ul)	N/A	N/A	N/A	1000	N/A	1000		
Dilution Factor	N/A	N/A	N/A	1	N/A	1		

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)		
Dichlorodifluoromethane	1.0	N/A	N/A	N/A	ND	N/A	ND		
Chloroethane	1.0	N/A	N/A	N/A	ND	N/A	ND		
Trichlorofluoromethane	1.0	N/A	N/A	N/A	ND	N/A	ND		
Freon 113	1.0	N/A	N/A	N/A	ND	N/A	**3.4**		
Methylene Chloride	1.0	N/A	N/A	N/A	ND	N/A	ND		
1,1-Dichloroethane	1.0	N/A	N/A	N/A	ND	N/A	ND		
Chloroform	1.0	N/A	N/A	N/A	ND	N/A	ND		
1,1,1-Trichloroethane	1.0	N/A	N/A	N/A	ND	N/A	**19.3**		
Carbon Tetrachloride	1.0	N/A	N/A	N/A	ND	N/A	ND		
1,2-Dichloroethane	1.0	N/A	N/A	N/A	ND	N/A	ND		
Trichloroethene (TCE)	1.0	N/A	N/A	N/A	**1.1**	N/A	**23.4**		
1,1,2-Trichloroethane	1.0	N/A	N/A	N/A	ND	N/A	ND		
Tetrachloroethene (PCE)	1.0	N/A	N/A	N/A	**2.2**	N/A	**11.9**		
1,1,1,2-Tetrachloroethane	1.0	N/A	N/A	N/A	ND	N/A	ND		
1,1,2,2-Tetrachloroethane	1.0	N/A	N/A	N/A	ND	N/A	ND		
Vinyl Chloride	1.0	N/A	N/A	N/A	ND	N/A	ND		
Acetone	1.0	N/A	N/A	N/A	ND	N/A	ND		
1,1-Dichloroethene	1.0	N/A	N/A	N/A	ND	N/A	**9.0**		
trans-1,2-Dichloroethene	1.0	N/A	N/A	N/A	ND	N/A	ND		
2-Butanone (MEK)	1.0	N/A	N/A	N/A	ND	N/A	ND		
cis-1,2-Dichloroethene	1.0	N/A	N/A	N/A	ND	N/A	ND		
Cyclohexane	1.0	N/A	N/A	N/A	ND	N/A	ND		
Benzene	1.0	N/A	N/A	N/A	ND	N/A	ND		
4-Methyl-2-Pentanone	1.0	N/A	N/A	N/A	ND	N/A	ND		
Toluene	1.0	N/A	N/A	N/A	ND	N/A	ND		
Chlorobenzene	1.0	N/A	N/A	N/A	ND	N/A	ND		
Ethylbenzene	1.0	N/A	N/A	N/A	ND	N/A	ND		
m/p-Xylene	1.0	N/A	N/A	N/A	ND	N/A	ND		
o-Xylene	1.0	N/A	N/A	N/A	ND	N/A	ND		
Isobutane (Tracer Gas)	1.0	N/A	N/A	N/A	ND	N/A	ND		

Note: ND = Below Listed Detection Limit; N/A = No Sample Taken Due To High Vacuum

MOBILE GEOCHEMISTRY

H&P

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16 October 2007

Ms. Christa Wolfe
The Reynolds Group - Tustin
520 West 1st Street
Tustin, CA 92780
RE: TRG100907-L4

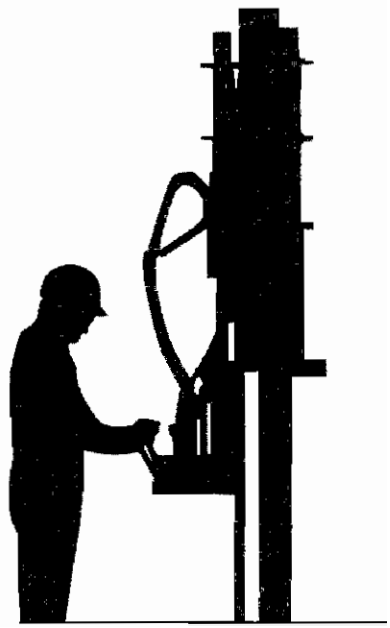
Enclosed are the results of analyses for samples received by the laboratory on 10/9/2007 -10/10/2007. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Shilling, for

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.



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MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-35-15, 1PV, 81cc	E710027-01	Vapor	09-Oct-07	09-Oct-07
SV-35-15, 3PV, 223cc	E710027-02	Vapor	09-Oct-07	09-Oct-07
SV-35-15, 7PV, 507cc	E710027-03	Vapor	09-Oct-07	09-Oct-07
SV-34-15, 507cc	E710027-04	Vapor	09-Oct-07	09-Oct-07
SV-33-5, 497cc	E710027-05	Vapor	09-Oct-07	09-Oct-07
SV-33-15, 507cc	E710027-06	Vapor	09-Oct-07	09-Oct-07
SV-32-5, 497cc	E710027-07	Vapor	09-Oct-07	09-Oct-07
SV-32-15, 507cc	E710027-08	Vapor	09-Oct-07	09-Oct-07
SV-30-5, 497cc	E710027-09	Vapor	09-Oct-07	09-Oct-07
SV-30-15, 507cc	E710027-10	Vapor	09-Oct-07	09-Oct-07
SV-31-5, 497cc	E710027-11	Vapor	09-Oct-07	09-Oct-07
SV-31-15, 507cc	E710027-12	Vapor	09-Oct-07	09-Oct-07
SV-31-15 DUP, 567cc	E710027-13	Vapor	09-Oct-07	09-Oct-07
SV-25-5, 497cc	E710033-01	Vapor	10-Oct-07	10-Oct-07
SV-25-15, 507cc	E710033-02	Vapor	10-Oct-07	10-Oct-07
SV-24-15, 507cc	E710033-03	Vapor	10-Oct-07	10-Oct-07
SV-27-5, 497cc	E710033-04	Vapor	10-Oct-07	10-Oct-07
SV-27-15, 507cc	E710033-05	Vapor	10-Oct-07	10-Oct-07
SV-28-5, 497cc	E710033-06	Vapor	10-Oct-07	10-Oct-07
SV-26-15, 507cc	E710033-07	Vapor	10-Oct-07	10-Oct-07
SV-29-5, 497cc	E710033-08	Vapor	10-Oct-07	10-Oct-07
SV-29-15, 507cc	E710033-09	Vapor	10-Oct-07	10-Oct-07
SV-29-5 DUP, 557cc	E710033-10	Vapor	10-Oct-07	10-Oct-07

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-35-15, 1PV, 81cc (E710027-01) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	35	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	25	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	40	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.6 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*93.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-35-15, 3PV, 223cc (E710027-02) Vapor	**Sampled: 09-Oct-07**		**Received: 09-Oct-07**						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	120	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.7	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.7	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.4	0.5	"	"	"	"	"	"	
Chloroform	0.5	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	57	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	74	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-35-15, 7PV, 507cc (E710027-03) Vapor	**Sampled: 09-Oct-07**		**Received: 09-Oct-07**						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	140	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	2.1	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.7	0.5	"	"	"	"	"	"	
Chloroform	0.6	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.3	0.1	"	"	"	"	"	"	
Trichloroethene	72	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	93	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-34-15, 507cc (E710027-04) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	460	10	"	1	"	"	09-Oct-07	"	
Methylene chloride	ND	0.5	"	0.05	"	"	09-Oct-07	"	
Freon 113	1.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	6.9	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.2	0.5	"	"	"	"	"	"	
Chloroform	1.9	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	2.7	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	110	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	92	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*97.2 %*	*75-125*			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*98.0 %*	*75-125*			"	"	"	"	
Surrogate: Toluene-d8	*93.6 %*	*75-125*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*97.6 %*	*75-125*			"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-33-5, 497cc (E710027-05) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	55	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.6	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.2	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.5	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	0.9	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	47	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	25	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*108 %*	*75-125*			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*107 %*	*75-125*			"	"	"	"	
Surrogate: Toluene-d8	*105 %*	*75-125*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*104 %*	*75-125*			"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-33-15, 507cc (E710027-06) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	140	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	2.0	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	4.0	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	1.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	2.5	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	90	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	54	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*99.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-32-5, 497cc (E710027-07) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	73	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	2.6	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	0.5	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.3	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.4	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	38	0.1	"	"	"	"	"	"	
Toluene	2.1	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	11	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*98.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-32-15, 507cc (E710027-08) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	49	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	1.8	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.3	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.1	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	32	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	11	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-30-5, 497cc (E710027-09) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	61	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	14	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.5	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.6	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	79	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.3	0.1	"	"	"	"	"	"	
Trichloroethene	71	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	53	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-30-15, 507cc (E710027-10) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	0.5	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	0.5	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	2.8	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	4.8	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-31-5, 497cc (E710027-11) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	0.6	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	2.0	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	1.5	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-31-15, 507cc (E710027-12) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	53	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	11	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.3	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	30	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	44	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	16	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-31-15 DUP, 567cc (E710027-13) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	53	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	11	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.3	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	29	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	41	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	13	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-25-5, 497cc (E710033-01) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	20	ug/l	0.1	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.2	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	100	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Freon 113	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	1.1	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
Chloroform	0.6	0.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.2	"	"	"	"	"	"	
Benzene	0.3	0.2	"	"	"	"	"	"	
Trichloroethene	48	0.2	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	110	0.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*100 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*85.6 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*83.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.4 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-25-15, 507cc (E710033-02) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	20	ug/l	0.1	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.2	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	250	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Freon 113	2.0	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	3.0	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	2.2	1.0	"	"	"	"	"	"	
Chloroform	1.3	0.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.9	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.2	"	"	"	"	"	"	
Benzene	0.4	0.2	"	"	"	"	"	"	
Trichloroethene	100	0.2	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	180	0.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-24-15, 507cc (E710033-03) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	20	ug/l	0.1	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.2	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	30	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Freon 113	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	8.2	1.0	"	"	"	"	"	"	
Chloroform	0.2	0.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.2	"	"	"	"	"	"	
1,2-Dichloroethane	0.2	0.2	"	"	"	"	"	"	
Benzene	0.3	0.2	"	"	"	"	"	"	
Trichloroethene	32	0.2	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	120	0.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.6 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-27-5, 497cc (E710033-04) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	88	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	2.5	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.5	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.6	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	7.4	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	50	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	66	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*94.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.6 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-27-15, 507cc (E710033-05) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	140	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	4.4	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	2.2	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.8	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	10	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	68	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	74	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*120 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-28-5, 497cc (E710033-06) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	0.4	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	1.4	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*94.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-26-15, 507cc (E710033-07) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	14	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	1.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	2.0	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	11	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-29-5, 497cc (E710033-08) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	0.9	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.7	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.1	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	5.4	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	22	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*99.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-29-15, 507cc (E710033-09) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	1.0	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.1	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	6.3	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	21	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-29-5 DUP, 557cc (E710033-10) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	0.8	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.7	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.0	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.3	0.1	"	"	"	"	"	"	
Trichloroethene	5.2	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	23	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*124 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ70901 - EPA 5030										
Blank (EJ70901-BLK1)				Prepared & Analyzed: 09-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	"							
Vinyl chloride	ND	0.1	"							
Chloroethane	ND	0.5	"							
Trichlorofluoromethane	ND	0.5	"							
1,1-Dichloroethene	ND	0.5	"							
Methylene chloride	ND	0.5	"							
Freon 113	ND	0.5	"							
trans-1,2-Dichloroethene	ND	0.5	"							
1,1-Dichloroethane	ND	0.5	"							
cis-1,2-Dichloroethene	ND	0.5	"							
Chloroform	ND	0.1	"							
1,1,1-Trichloroethane	ND	0.5	"							
Carbon tetrachloride	ND	0.1	"							
1,2-Dichloroethane	ND	0.1	"							
Benzene	ND	0.1	"							
Trichloroethene	ND	0.1	"							
Toluene	ND	1.0	"							
1,1,2-Trichloroethane	ND	0.5	"							
Tetrachloroethene	ND	0.1	"							
Ethylbenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	0.5	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	0.5	"							
Surrogate: Dibromofluoromethane	*2.48*		"	*2.50*		*99.2*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.48*		"	*2.50*		*99.2*	*75-125*			
Surrogate: Toluene-d8	*2.54*		"	*2.50*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.44*		"	*2.50*		*97.6*	*75-125*			

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ71001 - EPA 5030										
Blank (EJ71001-BLK1)				Prepared & Analyzed: 10-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	"							
Vinyl chloride	ND	0.1	"							
Chloroethane	ND	0.5	"							
Trichlorofluoromethane	ND	0.5	"							
1,1-Dichloroethene	ND	0.5	"							
Methylene chloride	ND	0.5	"							
Freon 113	ND	0.5	"							
trans-1,2-Dichloroethene	ND	0.5	"							
1,1-Dichloroethane	ND	0.5	"							
cis-1,2-Dichloroethene	ND	0.5	"							
Chloroform	ND	0.1	"							
1,1,1-Trichloroethane	ND	0.5	"							
Carbon tetrachloride	ND	0.1	"							
1,2-Dichloroethane	ND	0.1	"							
Benzene	ND	0.1	"							
Trichloroethene	ND	0.1	"							
Toluene	ND	1.0	"							
1,1,2-Trichloroethane	ND	0.5	"							
Tetrachloroethene	ND	0.1	"							
Ethylbenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	0.5	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	0.5	"							
Surrogate: Dibromofluoromethane	*2.69*		"	*2.50*		*108*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.30*		"	*2.50*		*92.0*	*75-125*			
Surrogate: Toluene-d8	*2.40*		"	*2.50*		*96.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.38*		"	*2.50*		*95.2*	*75-125*			

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

E710027
EJ70901

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10-9-07
H&P Project # TRG100907-L4
Outside Lab:

Client: The Reynolds Group
Address: 520 West 1st Street
Tustin, CA 92780
Email: wolfe@reynolds-group.com Phone: 714-730-5397

Collector: Cherita / Mark L
Page: 1 of 2
Client Project # 7115 Phase 250
Project Contact: John Cleary/Christa Wolfe
Location: 1551 E. Orangethorpe Ave.
Fax: 714-730-6476
Turn around time:

EDF: Yes ☐ No ☐
Global ID:

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

Sample Name	~~Field Point Name~~	Purge Vol	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB Low Level	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) 1, 1 DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2				Total # of containers
SV-35 1PV	15ft	81cc	9:02	10-9-07	Vapor	60cc Syringe							X				X							1
SV-35 3PV	15ft	223cc	9:04	↓	↓	↓							X				X							1
SV-35 7PV	15ft	507cc	9:07	↓	↓	↓							X				X							1
SV-34-15	15ft 507cc	~~497cc~~ 507cc	10:30	↓	↓	↓							X				X							1
SV-33-5	5ft	497cc	1040	↓	↓	↓							X				X							1
SV-33-15	15ft	507cc	1045	↓	↓	↓							X				X							1
SV-32-5		497cc	1118	↓	↓	↓							X				X							1
SV-32-15		507cc	1145	↓	↓	↓							X				X							1
SV-30-5		497cc	1215	↓	↓	↓							X				X							1
SV-30-15		507cc	1226	↓	↓	↓							X				X							1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Wolfe	TRG	Cherita Lara	H&P	10-9-07	15:05

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

Holding Times: Holding times are carefully monitored by H&P MOBILE GEOCHEMISTRY (H&P) since this is a vital part of quality control procedures H&P will make every effort to perform analysis within the applicable holding times established by the EPA or equivalent methodology. However, samples and sample integrity are ultimately the responsibility of the client. H&P reserves the right to apply rush analysis surcharges to prices in order to meet holding time constraints.

Sample Archiving: H&P retains all samples received for a period of one month, including samples designated as "hold". Upon specific written request of the client, samples may be held for a defined period beyond one month. H&P reserves the right to charge for the extended holding of samples.

Hazardous Samples: Hazardous or difficult to dispose samples may be returned to the client. All samples received by H&P are subject to a per sample disposal fee.

Reporting Results: Analyses are reported in wet weight values. Dry weight values may be obtained when moisture content analysis is performed at an additional cost.

Payment Terms: Standard credit terms are net 30 days, and are independent of when clients are compensated. H&P reserves the right to require payment in advance until a credit application has been approved. Credit limits may at any time be increased or decreased, based upon payment history. Accounts over 30 days are subject to 1.5% per month interest (18% per annum). Delinquent accounts are liable for legal costs and fees incurred by H&P in its efforts to collect outstanding balances.

Sample Collection: H&P does not accept any liability with regard to the collection, preservation technique, or transportation method of samples by clients.

Limit of Liability: H&P strives to perform all services in accordance with the local standard of care in the geographic region at the time the services are rendered. Clients should recognize that all samples and sampling events are unique, and that not all samples can be successfully analyzed by generally accepted methods. If analysis proves unsuccessful, the total liability of H&P shall not exceed three times the invoiced amount for the services provided. This limit of liability shall supercede all clauses to the contrary, implied or otherwise, in any client purchase order or contract, unless different terms are authorized in advanced in writing by an officer of H&P.

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159

☐ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10-9-07

H&P Project # TRG100907-LA

Outside Lab: _____

Client: The Reynolds Group

Address: 520 West 1st Street, Tustin, CA. 92780

Email: wolfe@reynolds-group.com Phone: 714-730-5397

Collector: Cherita / Mark L Page: 2 of 2

Client Project # 7115 Phase 2SD Project Contact: John Cleary

Location: 1551 E. Orangethorpe Ave

Fax: 714-730-6476 Turn around time: _____

EDF: Yes ☐ No ☐

Global ID: _____

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB LCW	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) 1,1 DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2				Total # of containers
SV-31-5		497cc	1240	10-9-07	Vapor	Leer Syringe							X				X							1
SV-31-15		507cc	1245	↓	↓	↓							X				X							1
SV-31-15 Dup		561cc	1247	↓	↓	↓							X				X							1
~~SV-31-Co~~																								

Relinquished by: (Signature) T. Wolfe	(company) TRG	Received by: (Signature) Cherita Lewis	(company) H&P	Date: 10-9-07	Time: 1310
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

Holding Times: Holding times are carefully monitored by H&P MOBILE GEOCHEMISTRY (H&P) since this is a vital part of quality control procedures H&P will make every effort to perform analysis within the applicable holding times established by the EPA or equivalent methodology. However, samples and sample integrity are ultimately the responsibility of the client. H&P reserves the right to apply rush analysis surcharges to prices in order to meet holding time constraints.

Sample Archiving: H&P retains all samples received for a period of one month, including samples designated as "hold". Upon specific written request of the client, samples may be held for a defined period beyond one month. H&P reserves the right to charge for the extended holding of samples.

Hazardous Samples: Hazardous or difficult to dispose samples may be returned to the client. All samples received by H&P are subject to a per sample disposal fee.

Reporting Results: Analyses are reported in wet weight values. Dry weight values may be obtained when moisture content analysis is performed at an additional cost.

Payment Terms: Standard credit terms are net 30 days, and are independent of when clients are compensated. H&P reserves the right to require payment in advance until a credit application has been approved. Credit limits may at any time be increased or decreased, based upon payment history. Accounts over 30 days are subject to 1.5% per month interest (18% per annum). Delinquent accounts are liable for legal costs and fees incurred by H&P in its efforts to collect outstanding balances.

Sample Collection: H&P does not accept any liability with regard to the collection, preservation technique, or transportation method of samples by clients.

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E710033
EJ71001

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10-10-07
H&P Project # TRG100907-L4
Outside Lab:

Client: The Reynolds Group
Address: 520 West 1st Street
Tustin, CA 92780
Email: wolfe@reynolds-group.com Phone: 714-730-5397

Collector: Cherita / Mark L
Client Project # 7115 Phase 250 Project Contact: Christa Wolfe
Location: 1551 E. Orangethorpe Ave
Fax: 714-730-6476 Turn around time:

Page: 1 of 2

EDF: Yes☐ No☐
Global ID:

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:
SV-24-5
SV-28-15 (SV-28-15) } could not collect any sample through probe. Tight draw.
SV-26-5

	Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB Low	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) 1,1 DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2	Total # of containers
1	SV-25-5		497cc	9:45AM	10-10-07	Vapor	60cc Syringe							X				X				1
2	SV-25-15		507cc	9:48AM										X				X				1
3	SV-24-15		507cc	9:51AM										X				X				1
4	SV-27-5		497cc	10:57AM										X				X				1
5	SV-27-15		507cc	10:59AM										X				X				1
6	~~SV-24-5~~		~~497cc~~	~~11:11AM~~										X				X				1
7	SV-28-5		497cc	12:15pm										X				X				1
8	SV-26-15		507cc	12:30pm										X				X				1
9	SV-29-5		497cc	1315										X				X				1
	SV-29-15		507cc	1320										X				X				1

Relinquished by: (Signature)	(company) TRG	Received by: (Signature) Cherita Smith	(company) H&P Mobile Geo	Date: 10-10-07	Time: 14:40
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159

☐ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10-10-07

H&P Project # TRG100907-24

Outside Lab: _____

Client: The Reynolds Group

Address: 520 West 1st Street
Tustin, CA 92780

Email: wolfe@reynolds-group.com Phone: 714-730-5397

Collector: Cherita / Mark h

Client Project # 7115 Phase 250

Location: 1551 E. Orangethorpe Ave

Fax: 714-730-6476

Page: 2 of 2

Project Contact: Christa Wolfe

Turn around time: _____

EDF: Yes☐ No☐

Global ID: _____

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

SV-24-5 } could not collect any
SV-28-15 } sample through probe.
SV-26-5 } Tight draw.

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify)	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2	Total # of containers
SV-29-5 Dup	557cc	447cc	1350	10-10-07	Vapor	60cc Syringe							X				X				1

Relinquished by: (Signature)	(company)	Received by: (Signature) Cherita Smith	(company) H&P Mobile GeoChemistry	Date: 10-10-07	Time: 14:40
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date.	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

Holding Times: Holding times are carefully monitored by H&P MOBILE **GEO**CHEMISTRY (H&P) since this is a vital part of quality control procedures H&P will make every effort to perform analysis within the applicable holding times established by the EPA or equivalent methodology. However, samples and sample integrity are ultimately the responsibility of the client. H&P reserves the right to apply rush analysis surcharges to prices in order to meet holding time constraints.

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Reporting Results: Analyses are reported in wet weight values. Dry weight values may be obtained when moisture content analysis is performed at an additional cost.

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MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	23-Oct-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DRAFT VEW6-25', P135 4L	E710074-01	Vapor	18-Oct-07	18-Oct-07
DRAFT VEW5-5', P28 1L	E710074-02	Vapor	18-Oct-07	18-Oct-07
DRAFT VEW5-15', P71.4L	E710074-03	Vapor	18-Oct-07	18-Oct-07
DRAFT VEW5-25', P114.6L	E710074-04	Vapor	18-Oct-07	18-Oct-07
DRAFT VEW5-60', P266 1L	E710074-05	Vapor	18-Oct-07	18-Oct-07
DRAFT. Trip Blank	E710074-06	Vapor	18-Oct-07	18-Oct-07

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: VEW6-25', P135,4L (E710074-01) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	23-Oct-07	EPA TO-15	
Propene	ND	500	ug/m³ Air	"	"	"	19-Oct-07	"	
Dichlorodifluoromethane	ND	500	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
1,3-Butadiene	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Acetone	93000	1000	"	"	"	"	"	"	E
1,1-Dichloroethene	2500	250	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
2-Butanone	180000	250	"	"	"	"	"	"	E
n-Hexane	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Ethyl acetate	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Tetrahydrofuran	690000	250	"	"	"	"	"	"	E
1,1,1-Trichloroethane	440	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
Benzene	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Cyclohexane	ND	250	"	"	"	"	"	"	
n-Heptane	ND	250	"	"	"	"	"	"	
Trichloroethene	9100	250	"	"	"	"	"	"	
1,2-Dichloropropane	ND	250	"	"	"	"	"	"	
1,4-Dioxane	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: VEW6-25', P135.4L (E710074-01) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
Toluene	ND	250	ug/m³ Air	50	EJ72302	19-Oct-07	19-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Dibromochloromethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	8500	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
m,p-Xylene	ND	250	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
o-Xylene	ND	250	"	"	"	"	"	"	
Bromoform	ND	1000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
4-Ethyltoluene	ND	250	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"	
Benzyl chloride	ND	250	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	500	"	"	"	"	"	"	
Hexachlorobutadiene	1400	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.3 %*		*80-120*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported
Tustin, CA 92780	Project Manager: Mr John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: VEW5-5', P28.1L (E710074-02) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	23-Oct-07	EPA TO-15	
Propene	1000	500	ug/m³ Air	"	"	"	20-Oct-07	"	
Dichlorodifluoromethane	ND	500	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
1,3-Butadiene	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Acetone	ND	1000	"	"	"	"	"	"	
1,1-Dichloroethene	3100	250	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	630	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
2-Butanone	3600	250	"	"	"	"	"	"	
n-Hexane	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Ethyl acetate	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Tetrahydrofuran	13000	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	1300	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
Benzene	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Cyclohexane	ND	250	"	"	"	"	"	"	
n-Heptane	ND	250	"	"	"	"	"	"	
Trichloroethene	8200	250	"	"	"	"	"	"	
1,2-Dichloropropane	ND	250	"	"	"	"	"	"	
1,4-Dioxane	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project TRG101807-11	
520 West 1st Street	Project Number 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager Mr John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: VEW5-5', P28.1L (E710074-02) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
Toluene	ND	250	ug/m³ Air	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Dibromochloromethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	12000	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
m,p-Xylene	ND	250	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
o-Xylene	ND	250	"	"	"	"	"	"	
Bromoform	ND	1000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
4-Ethyltoluene	ND	250	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"	
Benzyl chloride	ND	250	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*99.9 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.5 %*		*80-120*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: VEW5-15', P71.4L (E710074-03) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	23-Oct-07	EPA TO-15	
Propene	1300	500	ug/m³ Air	"	"	"	20-Oct-07	"	
Dichlorodifluoromethane	ND	500	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
1,3-Butadiene	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Acetone	1100	1000	"	"	"	"	"	"	
1,1-Dichloroethene	7800	250	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	1600	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	360	250	"	"	"	"	"	"	
2-Butanone	660	250	"	"	"	"	"	"	
n-Hexane	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Ethyl acetate	ND	250	"	"	"	"	"	"	
Chloroform	270	250	"	"	"	"	"	"	
Tetrahydrofuran	2200	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	1500	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
Benzene	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Cyclohexane	ND	250	"	"	"	"	"	"	
n-Heptane	ND	250	"	"	"	"	"	"	
Trichloroethene	13000	250	"	"	"	"	"	"	
1,2-Dichloropropane	ND	250	"	"	"	"	"	"	
1,4-Dioxane	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: VEW5-15', P71.4L (E710074-03) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
Toluene	330	250	ug/m³ Air	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Dibromochloromethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	19000	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
m,p-Xylene	ND	250	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
o-Xylene	ND	250	"	"	"	"	"	"	
Bromoform	ND	1000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
4-Ethyltoluene	ND	250	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"	
Benzyl chloride	ND	250	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	580	500	"	"	"	"	"	"	
Hexachlorobutadiene	1500	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.9 %*	*80-120*		"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: VEW5-25', P114.6L (E710074-04) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	23-Oct-07	EPA TO-15	
Propene	ND	500	ug/m³ Air	"	"	"	20-Oct-07	"	
Dichlorodifluoromethane	ND	500	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
1,3-Butadiene	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Acetone	ND	1000	"	"	"	"	"	"	
1,1-Dichloroethene	11000	250	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	1600	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
2-Butanone	ND	250	"	"	"	"	"	"	
n-Hexane	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Ethyl acetate	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Tetrahydrofuran	1200	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	970	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
Benzene	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Cyclohexane	ND	250	"	"	"	"	"	"	
n-Heptane	ND	250	"	"	"	"	"	"	
Trichloroethene	17000	250	"	"	"	"	"	"	
1,2-Dichloropropane	ND	250	"	"	"	"	"	"	
1,4-Dioxane	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	

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The Reynolds Group - Tustin	Project TRG101807-11	
520 West 1st Street	Project Number 7115 Phase 250	Reported
Tustin, CA 92780	Project Manager Mr John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: VEW5-25', P114.6L (E710074-04) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
Toluene	ND	250	ug/m³ Air	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Dibromochloromethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	16000	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
m,p-Xylene	ND	250	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
o-Xylene	ND	250	"	"	"	"	"	"	
Bromoform	ND	1000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	
4-Ethyltoluene	ND	250	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"	
Benzyl chloride	ND	250	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	500	"	"	"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.2 %*	*80-120*		"	"	"	"	

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: VEW5-60', P266.1L (E710074-05) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	23-Oct-07	EPA TO-15	
Propene	ND	10000	ug/m³ Air	1000	"	"	23-Oct-07	"	
Dichlorodifluoromethane	ND	10000	"	"	"	"	"	"	
Chloromethane	ND	5000	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	10000	"	"	"	"	"	"	
Vinyl chloride	ND	5000	"	"	"	"	"	"	
1,3-Butadiene	ND	5000	"	"	"	"	"	"	
Bromomethane	ND	5000	"	"	"	"	"	"	
Chloroethane	ND	5000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5000	"	"	"	"	"	"	
Acetone	ND	20000	"	"	"	"	"	"	
1,1-Dichloroethene	150000	5000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	14000	10000	"	"	"	"	"	"	
Methylene chloride	ND	5000	"	"	"	"	"	"	
Carbon disulfide	ND	5000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5000	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5000	"	"	"	"	"	"	
Vinyl acetate	ND	5000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5000	"	"	"	"	"	"	
2-Butanone	ND	5000	"	"	"	"	"	"	
n-Hexane	ND	5000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5000	"	"	"	"	"	"	
Ethyl acetate	ND	5000	"	"	"	"	"	"	
Chloroform	ND	5000	"	"	"	"	"	"	
Tetrahydrofuran	ND	5000	"	"	"	"	"	"	
1,1,1-Trichloroethane	32000	5000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5000	"	"	"	"	"	"	
Benzene	ND	5000	"	"	"	"	"	"	
Carbon tetrachloride	ND	5000	"	"	"	"	"	"	
Cyclohexane	ND	5000	"	"	"	"	"	"	
n-Heptane	ND	5000	"	"	"	"	"	"	
Trichloroethene	570000	5000	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5000	"	"	"	"	"	"	
1,4-Dioxane	ND	5000	"	"	"	"	"	"	
Bromodichloromethane	ND	5000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5000	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5000	"	"	"	"	"	"	

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The Reynolds Group - Tustin	Project TRG101807-11	
520 West 1st Street	Project Number 7115 Phase 250	Reported
Tustin, CA 92780	Project Manager: Mr. John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: VEW5-60', P266.1L (E710074-05) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
Toluene	ND	5000	ug/m³ Air	1000	EJ72302	19-Oct-07	23-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	5000	"	"	"	"	"	"	
2-Hexanone	ND	10000	"	"	"	"	"	"	
Dibromochloromethane	ND	5000	"	"	"	"	"	"	
Tetrachloroethene	140000	5000	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5000	"	"	"	"	"	"	
Chlorobenzene	ND	5000	"	"	"	"	"	"	
Ethylbenzene	ND	5000	"	"	"	"	"	"	
m,p-Xylene	ND	5000	"	"	"	"	"	"	
Styrene	ND	5000	"	"	"	"	"	"	
o-Xylene	ND	5000	"	"	"	"	"	"	
Bromoform	ND	20000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5000	"	"	"	"	"	"	
4-Ethyltoluene	ND	5000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5000	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
Benzyl chloride	ND	5000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10000	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10000	"	"	"	"	"	"	
Surrogate: Toluene-d8		*100 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*78.0 %*		*80-120*	"	"	"	"	*S-QC*

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: Trip Blank (E710074-06) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1000	EJ72302	19-Oct-07	23-Oct-07	EPA TO-15	
Propene	ND	10	ug/m³ Air	1	"	"	19-Oct-07	"	
Dichlorodifluoromethane	ND	10	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
1,3-Butadiene	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Acetone	ND	20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	10	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	5.0	"	"	"	"	"	"	
n-Hexane	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Ethyl acetate	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	5.0	"	"	"	"	"	"	
n-Heptane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
DRAFT: Trip Blank (E710074-06) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
Toluene	ND	5.0	ug/m³ Air	1	EJ72302	19-Oct-07	19-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	
Benzyl chloride	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.7 %*	*80-120*		"	"	"	"	

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The Reynolds Group - Tustin	Project TRG101807-11	
520 West 1st Street	Project Number 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager. Mr. John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ72302 - TO-15										
Blank (EJ72302-BLK1)				Prepared & Analyzed 19-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Propene	ND	10	ug/m³ Air							
Dichlorodifluoromethane	ND	10	"							
Chloromethane	ND	5.0	"							
Dichlorotetrafluoroethane	ND	10	"							
Vinyl chloride	ND	5.0	"							
1,3-Butadiene	ND	5.0	"							
Bromomethane	ND	5.0	"							
Chloroethane	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
Acetone	ND	20	"							
1,1-Dichloroethene	ND	5.0	"							
1,1,2-Trichlorotrifluoroethane	ND	10	"							
Methylene chloride	ND	5.0	"							
Carbon disulfide	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Vinyl acetate	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
2-Butanone	ND	5.0	"							
n-Hexane	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
Ethyl acetate	ND	5.0	"							
Chloroform	ND	5.0	"							
Tetrahydrofuran	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
Benzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Cyclohexane	ND	5.0	"							
n-Heptane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,4-Dioxane	ND	5.0	"							

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ72302 - TO-15										
Blank (EJ72302-BLK1)			Prepared & Analyzed: 19-Oct-07							
Bromodichloromethane	ND	5.0	ug/m³ Air							
cis-1,3-Dichloropropene	ND	5.0	"							
4-Methyl-2-pentanone	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Toluene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
2-Hexanone	ND	10	"							
Dibromochloromethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
Styrene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Bromoform	ND	20	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
4-Ethyltoluene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	10	"							
Benzyl chloride	ND	5.0	"							
1,4-Dichlorobenzene	ND	10	"							
1,2-Dichlorobenzene	ND	10	"							
1,2,4-Trichlorobenzene	ND	10	"							
Hexachlorobutadiene	ND	10	"							
Surrogate: 1,2-Dichloroethane-d4	*91.8*		"	*103*		*89.1*	*80-120*			
Surrogate: Toluene-d8	*93.4*		"	*96.2*		*97.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*171*		"	*182*		*94.0*	*80-120*			

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project. TRG101807-11	
520 West 1st Street	Project Number 7115 Phase 250	Reported.
Tustin, CA 92780	Project Manager Mr. John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ72302 - TO-15										
LCS (EJ72302-BS1)				Prepared & Analyzed: 19-Oct-07						
Propene	35.7	10	ug/m³ Air	35 0		102	65-135			
Dichlorodifluoromethane	107	10	"	101		106	65-135			
Chloromethane	43.3	5.0	"	42 0		103	65-135			
Dichlorotetrafluoroethane	153	10	"	142		108	65-135			
Vinyl chloride	54.3	5.0	"	52 0		104	65-135			
1,3-Butadiene	45.9	5.0	"	44 8		102	65-135			
Bromomethane	84.4	5.0	"	79 2		107	65-135			
Chloroethane	58.2	5.0	"	53 6		109	65-135			
Trichlorofluoromethane	117	5.0	"	113		104	65-135			
Acetone	45.9	20	"	48 4		94 8	65-135			
1,1-Dichloroethene	83.1	5.0	"	80 8		103	65-135			
1,1,2-Trichlorotrifluoroethane	160	10	"	155		103	65-135			
Methylene chloride	74.3	5.0	"	70 8		105	65-135			
Carbon disulfide	63.9	5.0	"	63.2		101	65-135			
trans-1,2-Dichloroethene	82.3	5.0	"	80.8		102	65-135			
Methyl tert-butyl ether	75.2	5.0	"	73 6		102	65-135			
Vinyl acetate	66.8	5.0	"	72 0		92 8	65-135			
1,1-Dichloroethane	84.4	5.0	"	82.4		102	65-135			
2-Butanone	61.7	5.0	"	60 0		103	65-135			
n-Hexane	79.3	5.0	"	72 0		110	65-135			
cis-1,2-Dichloroethene	83.5	5.0	"	80.0		104	65-135			
Ethyl acetate	73.1	5.0	"	73 6		99 3	65-135			
Chloroform	103	5.0	"	99.2		104	65-135			
Tetrahydrofuran	62.2	5.0	"	60 0		104	65-135			
1,1,1-Trichloroethane	113	5.0	"	111		102	65-135			
1,2-Dichloroethane	79.3	5.0	"	82.4		96 2	65-135			
Benzene	71.4	5.0	"	64.8		110	65-135			
Carbon tetrachloride	127	5.0	"	128		99 2	65-135			
Cyclohexane	73.4	5.0	"	70 4		104	65-135			
n-Heptane	93.0	5.0	"	83 6		111	65-135			
Trichloroethene	116	5.0	"	110		105	65-135			
1,2-Dichloropropane	102	5.0	"	94.4		108	65-135			
1,4-Dioxane	70.0	5.0	"	73.6		95 1	65-135			
Bromodichloromethane	136	5.0	"	137		99.3	65-135			

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	23-Oct-07

DRAFT: Volatile Organic Compounds by EPA TO-15 - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ72302 - TO-15										
LCS (EJ72302-BS1)				Prepared & Analyzed 19-Oct-07						
cis-1,3-Dichloropropene	94.8	5.0	ug/m³ Air	92.4		103	65-135			
4-Methyl-2-pentanone	78.8	5.0	"	83.2		94.7	65-135			
trans-1,3-Dichloropropene	88.4	5.0	"	92.4		95.7	65-135			
Toluene	81.8	5.0	"	76.8		107	65-135			
1,1,2-Trichloroethane	117	5.0	"	111		105	65-135			
2-Hexanone	73.6	10	"	83.2		88.5	65-135			
Dibromochloromethane	170	5.0	"	174		97.7	65-135			
Tetrachloroethene	147	5.0	"	138		107	65-135			
1,2-Dibromoethane (EDB)	159	5.0	"	157		101	65-135			
Chlorobenzene	117	5.0	"	93.6		125	65-135			
Ethylbenzene	107	5.0	"	88.4		121	65-135			
m,p-Xylene	209	5.0	"	177		118	65-135			
Styrene	102	5.0	"	86.8		118	65-135			
o-Xylene	104	5.0	"	88.4		118	65-135			
Bromoform	956	20	"	840		114	65-135			
1,1,2,2-Tetrachloroethane	161	5.0	"	140		115	65-135			
4-Ethyltoluene	111	5.0	"	100		111	65-135			
1,3,5-Trimethylbenzene	108	5.0	"	100		108	65-135			
1,2,4-Trimethylbenzene	108	5.0	"	100		108	65-135			
1,3-Dichlorobenzene	125	10	"	122		102	65-135			
Benzyl chloride	97.7	5.0	"	105		93.0	65-135			
1,4-Dichlorobenzene	132	10	"	122		108	65-135			
1,2-Dichlorobenzene	126	10	"	122		103	65-135			
1,2,4-Trichlorobenzene	115	10	"	151		76.2	65-135			
Hexachlorobutadiene	188	10	"	218		86.2	65-135			
Surrogate: 1,2-Dichloroethane-d4	*88.2*		"	*103*		*85.6*	*80-120*			
Surrogate: Toluene-d8	*93.9*		"	*96.2*		*97.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*189*		"	*182*		*104*	*80-120*			

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115 Phase 250	Reported
Tustin, CA 92780	Project Manager: Mr. John Cleary	23-Oct-07

Notes and Definitions

S-QC	Surrogate recovery is outside of acceptance limits. Spike recovery acceptable
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument This value is considered an estimate (CLP E-flag)
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Reference:
Reynolds, 2009a

January 15, 2009
(TRG No. 7115)

Mr. Luis Lodrigueza
ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
1241 E. Dyer Road Suite 120
Santa Ana, CA 92705-5611

THE REYNOLDS GROUP
a California corporation

SITE: **FULLERTON BUSINESS PARK NORTH**
(FORMER OCHCA #94IC29)
1551 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

SUBJECT: **REMEDIATION STATUS REPORT AND VERIFICATION SAMPLING WORKPLAN**

Dear Mr. Lodrigueza:

On behalf of Universal Molding Extrusion Company (the Client), The Reynolds Group (TRG) has been performing soil vapor extraction (SVE) remediation of chlorinated hydrocarbons, primarily tetrachloroethene (PCE) and trichloroethene (TCE), from subsurface soils at the subject Site (see Figure 1 – Site Location Map). Currently at the Site there are 14 double/triple-nested Vapor Extraction Wells (VEW), four Passive Wells (PW) and 11 Temporary Soil Vapor Probes (see Figure 2 – Site Plot Plan with Well and Soil Vapor Probe Locations). TRG operated the SVE system continuously from start-up on January 4, 2008, through November 28, 2008, when the system was shut down.

This report provides a summary of the SVE operations and a workplan for verification sampling of the soil remediation at the Site.

BACKGROUND

During removal of two clarifiers at the Site in 1994 by Converse Consultants, concentrations of PCE and other constituents were detected in soil samples. Converse concluded, following further investigation, that PCE impacted soils existed primarily within the top 35 feet of soils in an estimated area of 1,200 square feet. Converse further stated that groundwater beneath the

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Site, estimated at 115 ft bgs had not been impacted (Converse 1995). Soil vapor extraction was proposed by Converse to remediate the PCE impacted soils at the Site.

An SVE system operated at the Site from August to November 1995. Confirmation borings performed in December 1995 showed a decrease in PCE concentrations as follows: 99% at 15 ft bgs, 87% at 20 ft bgs, and 84% at 25 ft bgs. Based on those results, Converse recommended no further action at the Site to the Orange County Health Care Agency (OCHCA). In a Case Closure letter dated December 15, 1995, OCHCA confirmed completion of remedial action at the Site.

On April 11, 2005, the Orange County Water District (OCWD) filed a lawsuit naming several Potential Responsible Parties (PRPs), including the subject Site address, for contributing to a regional VOC-impacted groundwater plume in the vicinity of the Site.

Also in 2005, shallow soils at the Former Johnson Controls Battery property adjoining north of the subject Site at 1550 E. Kimberly Avenue, were discovered to be impacted with lead, arsenic, VOCs, and petroleum hydrocarbons (ref. JCI Fullerton Corrective Measures Completion Report, dated May 2007). Subsequent soil vapor extraction, soils excavation, and groundwater monitoring were performed at the Johnson Controls property. The DTSC determined that corrective action had been completed at the property for shallow and deep soils in letters May 22 and September 20, 2007, respectively.

In early 2007, TRG was contracted as the Consultant for the Fullerton Business Park Site. TRG advanced 17 soil vapor probes at the Site in March 2007 and performed an environmental screening on behalf of our Client prior to purchasing the subject Site. PCE and TCE were detected at maximum soil vapor concentrations of 222.2 and 115.2 micrograms per liter (ug/L), respectively, from five ft bgs. The fieldwork and results were detailed in TRG's "Results of Soil Vapor Investigation" report, dated March 19, 2007.

On July 24, 2007, TRG submitted a "Request for Remedial Action Supervision" to the Orange County Health Care Agency (OCHCA) on behalf of our Client for review of the results, for providing proper oversight, and for eventual regulatory closure. TRG met with Luis Lodrigueza of OCHCA on July 24, 2007, to discuss the case and was directed to further assess the soil vapors immediately beneath the concrete slab at the Site.

On July 30, 2007, five additional soil vapor points were sampled. Maximum concentrations of 1,079.4 ug/L PCE and 710.8 ug/L TCE were detected during the investigation. Details of the work were provided in TRG's "Summary of Shallow Soil Vapor Survey and Interior Ceiling Heights" report, dated August 9, 2007. Based on the data, OCHCA determined that health risk at the Site ranges from 5.9E-0.5 to 7.9E-04. These values were considered orders of magnitude higher than the allowable risk of one in a million (1.0E-0.6). Based on the July 2007 vapor assessment, OCHCA requested further assessment in the warehouse to further define the lateral extent of chlorinated solvent impact and to provide a basis for remediation action.

In accordance with OCHCA, TRG installed and sampled 12 temporary soil vapor probes (SV23 through SV35), six vapor extraction wells (VEW3 through VEW 6, VEW9, and VEW12), and four passive wells (PMW1 through PMW4) from October 2007 through January 2008. On February 22, 2008, TRG conducted an additional vapor sampling event to determine the effectiveness of the SVE system. TRG collected 14 soil vapor samples from eight temporary soil probes (SV26, SV27, SV29 through SV33 and VEW6). On February 25 and 27, 2008, TRG installed eight additional soil vapor extraction wells (VEW7, VEW8, VEW10, VEW11, and VEW13 through VEW16). The work was detailed in TRG's "Soil Vapor Survey and Additional Vapor Well Installation Report", dated March 14, 2008. Well and probe details are summarized in the attached Table 1 – Well Construction Detail Summary, and analytical results of the soil vapor sampling are provided in the attached Table 2 – Summary of Soil Vapor Survey Sampling Results.

SUMMARY OF SYSTEM OPERATION

On January 4, 2008, the SVE was initiated at the Site from wells VEW3 through VEW 6, VEW9, and VEW12. In February 2008, wells VEW7, VEW8, VEW10, VEW11, and VEW13 through VEW16 were connected to the remediation system. The SVE system consisted of a 300 cfm blower and two 1,000 lbs carbon filters in series. The wells were connected to the SVE system through an above-ground system manifold and the system operated by extracting from a different series of wells on rotational basis, focusing on hot zones to optimize the extraction and maintain a good vacuum of influence. SVE was performed primarily from 15 and 25 ft bgs to focus on vapors trapped directly beneath the concrete slab, thereby reducing the risk of vapor intrusion.

Weekly system operation and maintenance visits were performed at the site which included system maintenance, flow and vacuum readings, well extraction rotations, and soil vapor sampling. Soil vapor samples from the SVE system inlet, carbon filters, and outlet were collected and analyzed on a weekly basis in accordance with AQMD permit requirements. Vapor samples from individual wells were collected and analyzed periodically to monitor progress. Soil vapor operational data is provided in the attached Table 3 – Summary of Operational Soil Vapor Sampling Results.

Other than occasional down-time for general maintenance and carbon filter change-out, the SVE remediation system operated continuously until November 28, 2008, when the system was shut down (see Table 4 – Summary of Operational Data and Mass Removal, and Appendix B – System Operation Field Notes).

A brief summary of operational detail is outlined below:

Date of SVE System Start Up:	January 4, 2008
Period Covered in this Report:	Jan. 4 through Nov. 28, 2008 (see Table 4)
Total System Running Time Since Start-Up:	7,305.5 hrs
Average Total Flow Rate @ Inlet:	161 cfm
Number of Vapor Extraction Wells:	14 at multiple depths (see Table 1)
Cumulative Pounds of PCE Removed:	49.48 lbs (see Table 4 and Figure 3)
Cumulative Pounds of TCE Removed:	6.57 lbs (see Table 4 and Figure 3)

Remediation Status

TRG shut down the SVE system on November 28, 2008. After 11 months of soil vapor extraction at the site, soil vapor PCE and TCE concentrations declined significantly at most locations beneath the Site building. Concentrations were reduced to a lesser degree in the northern SVE wells which are located near the Former Johnson Control's property, known to have released chlorinated compounds (including PCE and TCE) into the subsurface adjacent to the northeastern portion of the subject Site. Appendix C – "Soil Vapor Concentrations Over Time" shows the reduction in soil vapor concentrations from each individual well from SVE. Figures 5 through 10 attached to this report present the remediation progress at the Site, comparing the PCE concentrations before and after SVE remediation.

TRG believes that PCE and TCE concentrations in the subsurface have been remediated to low enough concentrations for low risk closure consideration. To ensure that residual concentrations are within closure criteria, TRG proposes to perform verification sampling at the site. A proposed Workplan for verification sampling follows.

WORKPLAN FOR CLEANUP VERIFICATION SAMPLING

TRG proposes to sample VEW3 through VEW16 and SV33 at the wells screened from 2-5 ft bgs, 12-15 ft bgs, and 22-25 ft bgs, and to install and sample six sub-slab soil vapor probes (SV36 through SV41) to verify cleanup of the shallow subsurface soils (see Figure 11 – Site Plot Plan with Proposed Verification Sampling Locations). Soil vapor samples collected from the 2-5 ft bgs wells and 1 ft bgs probes will be used for representative samples of sub-slab conditions at the Site. The soil vapor survey will follow the February 7, 2005, updated DTSC "Interim Final – Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air" (the "DTSC Guidance").

Specifically, the Scope of Work will include the following:

1. Follow the Health and Safety Plan that is attached to this workplan.
2. Install sub-slab soil vapor probes SV36 through SV41.
3. Collect shallow soil vapor samples in a syringe or clean summa canisters from each vapor extraction well and probe location.
4. Immediately following sample collection, analyze vapor samples by a state-certified mobile laboratory by EPA Method 8260 full scan for VOCs. Ten percent (10%) of the soil vapor samples will also be analyzed by EPA Method TO-15 to screen for other potential chemicals of concern, such as vinyl chloride, naphthalene and benzene.
5. Prepare a report signed by a California Registered Civil Engineer detailing field activities and results for OCHCA to perform an indoor human health risk analysis and evaluate the Site for closure.

Temporary Sub-slab Soil Vapor Probes

Prior to performing fieldwork, TRG will contact underground service alert and consult with the Site owner to identify any underground conduits or hazards. TRG will also obtain all any necessary permits to complete the work.

The temporary sub-slab soil vapor probes (SV36 through SV41) will be advanced to one ft bgs beneath the building concrete slab in order to adequately assess soil vapor conditions at the Site, while minimizing above grade ambient air influences. The temporary vapor probe points will be advanced using a hand-held hammer drill with a disposable drive tip. Once the temporary vapor probes reach the appropriate depth, a Nylaflow sample tube will be advanced inside the drive rod to one ft bgs. The end of the Nylaflow tubing has a 1.5 inch long air stone filter which allows soil vapor to enter the tubing while limiting the possibility of water or soil intrusion. The top of the Nylaflow tube has a plastic valve to prevent ambient air intrusion. The Nylaflow tubing and valves will be sealed at the surface with hydrated bentonite.

After temporary vapor probe placement, a period of at least 20 minutes will be allowed to pass before sample collection. This equilibration time will allow subsurface conditions to equilibrate prior to purge volume testing, leak testing, and soil vapor sampling.

Sample Collection

Based on previous fieldwork at the Site, seven purge volumes produced the highest vapor sample concentrations and, thus, this purge volume will be applied to the verification sampling event. Due to the large casing diameter, a 100 to 200 mL/min extraction rate from the soil vapor extraction wells is not feasible and, therefore, as with previous sampling events, a 5 L/min extraction rate will be applied to all sample locations, except SV33 and SV36 through SV41, where a 200 mL/min extraction rate will be used.

Leak Testing

Leak testing will be conducted at every sample location. A tracer compound such as 1,1-difluoroethane will be released at the ambient ground surface and analyzed in the soil vapor sample. A detection of the tracer compound in the subsurface soil vapor sample will indicate that ambient air intrusion occurred.

Disposable Equipment and Decontamination Procedures

Non-reusable nylon sample tubing will be discarded between sample locations. After each use, drive rods and other re-usable components will be properly decontaminated by a 3-stage wash and rinse process including a non-phosphate detergent such as Liquinox and a final distilled water rinse. Clean, dry tubing will be used for sampling at all times.

Laboratory Analyses.

All soil vapor samples will be collected and analyzed in the field by a state certified mobile laboratory. Samples will be collected with glass syringes and analyzed on-Site by EPA Method 8260B full scan for VOCs. A detection limit of 0.1 ug/L as vapor for carcinogenic compounds (PCE and TCE) and 1.0 ug/L as vapor for non-carcinogenic compounds will be used, as specified in the *DTSC Guidance.*

Ten percent (10%) of the soil vapor samples will also be collected with Summa Canisters and analyzed by EPA Method TO-15 to screen the samples for other chemicals of potential concern, such as vinyl chloride, naphthalene, and benzene. The Summa samples will be transported to Chemical and Environmental Laboratories of Santa Fe Springs, California, for EPA TO-15 analysis. Chemical and Environmental Laboratories is a state-certified laboratory. Chain-of custody procedures will be followed in transporting samples to the onsite and offsite laboratories.

Waste Disposal

Any field generated wastes will be properly disposed in accordance with federal, state and local requirements. TRG, however, does not anticipate any wastes to be generated from this work.

Report on the Work

The results of the verification sampling fieldwork and analytical results will be put into a report signed by a California Registered Civil Engineer that incorporates all of the requirements of your agency. TRG requests that OCHCA evaluate the results for indoor human health risk analysis and closure consideration.

Health and Safety Plan

All staff and third parties who will be near or around the project will be required to sign the health and safety plan that has been prepared and is attached in Appendix D.

REGISTERED PROFESSIONAL STATEMENT

All work on this project is being performed under the responsible charge of a California Registered Civil Engineer. The licensed professional whose wet ink signature and seal appears at the end of this report will supervise all work associated with the project.

CORRESPONDENCES CONCERNING THIS PROJECT:

Please be sure that your mailing list includes The Reynolds Group and:

Dominique Baione
UNIVERSAL MOLDING EXTRUSION COMPANY
9151 East Imperial Highway
Downey, CA 90242

and

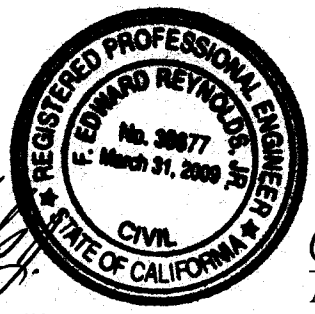
James R. McFadden
GRUBB & ELLIS
500 North State College Suite 100
Orange, CA 92868

and

John C. Glaser
GLASER, TONSICH & ASSOCIATES, LLC
765 West 9th Street
San Pedro, CA 90731

Should you have any questions regarding this report, please do not hesitate to contact our Project Manager for this Site, Alejandro Fuan, at (714) 920-9312 (cell) or via e-mail to fuan@reynolds-group.com . Thank you for your oversight of this work.

Sincerely,
THE REYNOLDS GROUP
a California corporation by:



F. Edward Reynolds, Jr.
California Registered Civil Engineer #38677

Alejandro Fuan
Project Manager

Attachments:

Table 1 –	Well Construction Detail Summary
Table 2 –	Summary of Soil Vapor Survey Sampling Results
Table 3 –	Summary of Operational Soil Vapor Sampling Results
Table 4 –	Summary of Operational Data and Mass Removal
Figure 1 –	Site Location Map
Figure 2 –	Site Plot Plan with Well and Soil Vapor Probe Locations
Figure 3 –	Cumulative PCE & TCE Removed over Time
Figure 4 –	Inlet PCE & TCE Concentration over Time
Figure 5 –	Site Plot Plan with Pre-Remediation PCE Soil Vapor Concentration Contours at 1 and 5 ft bgs.
Figure 6 –	Site Plot Plan with Post-Remediation PCE Soil Vapor Concentration Contours at 5 ft bgs.

Figure 7 –	Site Plot Plan with Pre-Remediation PCE Soil Vapor Concentration Contours at 15 ft bgs.
Figure 8 –	Site Plot Plan with Post-Remediation PCE Soil Vapor Concentration Contours at 15 ft bgs.
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cc: Dominick Baione, **UNIVERSAL MOLDING EXTRUSION COMPANY**
James McFadden, **GRUBB & ELLIS**
John C. Glaser, **GLASER, TONSICH & ASSOCIATES, LLC**

TABLES

TABLE 1
WELL CONSTRUCTION
DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
VEW3	VEW3-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW3-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW3-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW4	VEW4-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW4-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW4-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW5	VEW5-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW5-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW5-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW5-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft
VEW6	VEW6-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW6-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW6-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW7	VEW7-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW7-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW8	VEW8-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW8-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW9	VEW9-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW9-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW9-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW10	VEW10-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW10-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW11	VEW11-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW11-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW11-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW12	VEW12-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW12-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW12-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW12-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft

TABLE 1 (Continued)
WELL CONSTRUCTION
DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
VEW13	VEW13-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW13-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW13-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW14	VEW14-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW14-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW15	VEW15-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW15-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW16	VEW16-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW16-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW16-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
PMW1	PMW1-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW1-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW1-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW1-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW2	PMW2-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW2-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW2-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW2-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW3	PMW3-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW3-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW3-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW3-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW4	PMW4-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW4-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW4-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW4-60	Nylaflow tubing	1/4"	60 ft	60 ft
SV23	SV23-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV23-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV24	SV24-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV24-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV25	SV25-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV25-15	Nylaflow tubing	1/4"	15 ft	15 ft

TABLE 1 (Continued)
WELL CONSTRUCTION
DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
SV26	SV26-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV26-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV27	SV27-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV27-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV28	SV28-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV28-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV29	SV29-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV29-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV30	SV30-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV30-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV31	SV31-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV31-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV32	SV32-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV32-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV33	SV33-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV33-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV34	SV34-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV34-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV35	SV35-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV35-15	Nylaflow tubing	1/4"	15 ft	15 ft

TABLE 2
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV1-5	3/9/2007	OS	69.9	17.4
SV1-5 Dil.	3/9/2007	78.8	70.7	18.2
SV2-5	3/9/2007	15.3	11	3.2
SV3-5	3/9/2007	36.4	38.6	25.3
SV4-5	3/9/2007	39.2	24.2	9.1
SV5-5	3/9/2007	35.3	58.2	40.4
SV6-5	3/9/2007	80.3	115.2	65.3
SV7-5	3/9/2007	99.6	101.7	78.3
SV8-5	3/9/2007	7.2	22.6	17.7
SV9-5	3/9/2007	53.7	11.6	6
SV10-5	3/9/2007	222.2	88.8	79.7
SV11-5	3/9/2007	34.9	1.9	<1
SV11-5 Dup	3/9/2007	32	1.8	<1
SV12-5	3/9/2007	72.8	50.4	63.6
SV13-5	3/9/2007	7.4	16.3	7.4
SV14-5	3/9/2007	50.1	98.7	78.2
SV15-5	3/9/2007	1.4	<1	54.4
SV16-5	3/9/2007	<1	<1	<1
SV17-5	3/9/2007	<1	<1	<1
SV18-5'	7/30/2007	163.5	120.2	64.3
SV19-5'	7/30/2007	190.8	190.2	239.9
SV20-5'	7/30/2007	164.5	99.3	66.2
SV21-5'	7/30/2007	~~<1~~ NA	~~<1~~ NA	~~<1~~ NA - not analyzed
SV22-5	7/30/2007	1,079.40	710.8	257.6
SV22-5 Dup	7/30/2007	984.8	684.9	232.8
SV23-5'	7/30/2007	72.1	80.4	79.8
SV24-5	2/18/2008	REFUSAL		
SV24-15	10/16/2007	120	32	30
SV24-15	2/18/2008	REFUSAL		
SV25-5	10/16/2007	110	48	100
SV25-5	2/18/2008	REFUSAL		
SV25-15	10/16/2007	180	100	250
SV25-15	2/18/2008	REFUSAL		
SV26-5	2/18/2008	REFUSAL		
SV26-15	10/16/2007	11	2	14
SV26-15	2/18/2008	2.2	1.1	
SV27-5	10/16/2007	66	50	88
SV27-5	2/18/2008	5.1	3.1	<1
SV27-15	10/16/2007	74	68	140
SV27-15	2/18/2008	10	2.5	<1

TABLE 2 (Continued)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter – ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV28-5	10/16/2007	1.4	0.4	<0.5
SV29-5	10/16/2007	22	5.4	0.9
SV29-5 Dup	10/16/2007	23	5.2	0.8
SV29-5	2/18/2008	9.6	1.6	<1
SV29-15	10/16/2007	21	6.3	1
SV29-15	2/18/2008	13.3	2.9	<1
SV30-5	10/16/2007	53	71	61
SV30-5	2/18/2008	14.4	15.7	<1
SV30-15	10/16/2007	4.8	2.8	0.5
SV30-15	2/18/2008	21.7	15.7	6.5
SV31-5	10/16/2007	1.5	2	0.6
SV31-5	2/18/2008	REFUSAL		
SV31-15	10/16/2007	16	44	53
SV31-15 Dup	10/16/2007	13	41	53
SV31-15	2/18/2008	11.9	23.4	9
SV32-5	10/16/2007	11	38	73
SV32-5	2/18/2008	2	7.2	<1
SV32-15	10/16/2007	11	32	49
SV32-15	2/18/2008	2.3	10.5	9.4
SV32-15 Dup	2/18/2008	2.3	12.4	10.3
SV33-5	10/16/2007	25	47	55
SV33-5	2/18/2008	1	<1	<1
SV33-15	10/16/2007	54	90	140
SV33-15	2/18/2008	6.7	15.9	<1
SV34-15	10/16/2007	92	110	460
SV34-15	10/16/2007	93	72	140
VEW3-5	10/25/2007	24	29	6.6
VEW3-15	10/25/2007	240	140	74
VEW3-25	10/25/2007	210	120	83
VEW4-5	11/14/2007	21	17	1.7
VEW4-15	11/14/2007	380	150	86
VEW4-15 Dup	11/14/2007	360	140	73
VEW4-25	11/14/2007	470	180	160
VEW5-5	10/25/2007	23	13	3.8
VEW5-5	10/30/2007	12	8.2	3.1
VEW5-15	10/25/2007	19	14	6
VEW5-15	10/30/2007	19	13	7.8

TABLE 2 (Continued)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW5-25	10/25/2007	12	8.7	13
VEW5-25 Dup	10/25/2007	4.2	3.2	4.9
VEW5-25	10/30/2007	16	17	11
VEW5-60	10/25/2007	170	550	170
VEW5-60	10/30/2007	140	570	150
VEW6-5	11/14/2007	3.7	3.1	<0.5
VEW6-5	2/18/2008	7.3	14.6	<1
VEW6-15	11/14/2007	110	110	17
VEW6-15	2/18/2008	8.2	12.4	<1
VEW6-25	10/30/2007	8.5	9.1	2.5
VEW6-25	11/14/2007	320	370	250
VEW9-5	10/25/2007	39	43	42
VEW9-15	10/25/2007	89	130	170
VEW9-25	10/25/2007	64	69	61
VEW12-5	10/25/2007	30	64	120
VEW12-15	10/25/2007	3.1	8.2	9.8
VEW12-25	10/25/2007	56	110	210
VEW12-60	10/25/2007	10	43	9
PW1-5	11/14/2007	31	6.1	1.1
PW1-15	11/14/2007	21	1.5	<0.5
PW1-25	11/14/2007	4,200	140	55
PW1-60	11/14/2007	70	220	39
PW2-5	12/18/2007	2	8.9	2.5
PW2-5 Dup	12/18/2007	1.5	7.2	2.5
PW2-15	12/17/2007	1.5	7.4	3.1
PW2-15	12/18/2007	6.2	12	6.2
PW2-25	12/18/2007	37	19	20
PW2-60	12/10/2007	75	370	100
PW2-60	12/18/2007	75	370	100
PW3-5	12/10/2007	3.8	1.7	0.6
PW3-5 Dup	12/10/2007	4.3	1.7	0.7
PW3-15	12/10/2007	1.4	1	1.9
PW3-25	12/10/2007	17	2.2	1.6
PW3-60	12/10/2007	<0.1	<0.1	<0.5
PW4-5	12/18/2007	3.8	1.7	0.6
PW4-5 Dup	12/18/2007	4.3	1.7	0.7
PW4-15	12/18/2007	1.4	1	1.9
PW4-25	12/18/2007	17	2.2	1.6
PW4-60	12/18/2007	<0.1	<0.1	<0.5

TABLE 3

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW3-5	2/14/08	10.73	2.23	1.26
	10/31/08	5.45	0.30	<0.05
VEW3-15	2/14/08	69.83	18.04	18.40
	11/10/08	11.13	2.57	1.66
VEW3-25	8/4/08	10.24	1.53	1.74
	11/10/08	9.06	2.98	3.56
VEW4-5	2/14/08	0.74	<1	<1
VEW4-15	2/14/08	2.35	<1	<1
	11/19/08	0.38	<0.05	<0.05
VEW4-25	8/4/08	2.47	0.26	<0.05
	11/10/08	0.72	0.09	<0.05
VEW5-5	2/14/08	<1	<1	<1
VEW5-15	2/14/08	<1	<1	<1
VEW5-25	8/4/08	0.19	<0.05	<0.05
	10/21/08	0.23	<0.05	<0.05
VEW5-60	11/10/08	3.81	27.75	17.72
VEW6-5	2/14/08	0.74	<1	<1
VEW6-15	2/14/08	2.21	2.79	2.52
	11/10/08	0.48	0.12	<0.05
VEW6-25	8/4/08	2.10	0.22	<0.05
	11/10/08	0.14	0.25	<0.05
VEW7-15	4/2/08	3.74	2.95	0.82
	5/5/08	2.65	0.62	<0.01
	6/12/08	2.04	0.20	<0.01
	9/2/08	0.10	0.38	<0.05
	10/6/08	0.21	<0.05	<0.05
VEW8-15	4/2/08	2.02	2.44	0.99
	5/5/08	2.69	0.87	<0.01
	6/12/08	4.40	0.81	<0.01
	9/2/08	0.25	1.79	<0.05
	10/6/08	2.03	0.21	<0.05
	11/19/08	0.43	<0.05	<0.05
VEW9-5	2/14/08	<1	<1	<1
VEW9-15	2/14/08	0.88	1.86	1.26
	11/10/08	0.80	0.10	<0.05
VEW9-25	8/4/08	0.15	<0.05	<0.05
VEW10-5	11/4/08	<0.05	<0.05	<0.05
VEW10-15	4/2/08	0.22	<0.01	<0.01
	5/5/08	<0.01	<0.01	<0.01
	6/12/08	<0.01	<0.01	<0.01
	8/4/08	<0.05	<0.05	<0.05
VEW11-15	11/10/08	<0.05	<0.05	<0.05

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW11-25	4/2/08	0.14	0.56	<0.01
	5/5/08	<0.01	0.32	<0.01
	6/12/08	<0.01	<0.01	<0.01
	9/2/08	0.17	0.25	<0.05
VEW12-5	2/14/08	2.65	3.91	1.51
	11/4/08	<0.05	<0.05	<0.05
VEW12-15	2/14/08	<1	<1	<1
VEW12-25	8/4/08	0.39	0.36	<0.05
VEW12-60	11/10/08	2.75	21.49	10.1
VEW13-5	11/4/08	<0.05	<0.05	<0.05
VEW13-25	4/2/08	1.96	5.91	2.75
	5/5/08	0.75	2.26	1.65
	6/12/08	0.63	1.67	0.95
	9/2/08	0.99	2.69	1.26
VEW14-5	9/2/08	0.18	<0.05	<0.05
VEW14-15	4/2/08	0.61	1.08	<0.01
	5/5/08	0.23	0.27	<0.01
	6/12/08	0.24	0.34	<0.01
VEW15-15	4/2/08	0.98	1.31	<0.01
	5/5/08	0.70	0.87	<0.01
	6/12/08	0.75	0.88	<0.01
	9/2/08	0.45	0.67	<0.05
	11/10/08	0.33	0.60	<0.05
VEW16-15	11/10/08	0.77	0.59	<0.05
VEW16-25	4/2/08	1.00	0.16	<0.01
	5/5/08	0.28	0.61	<0.01
	6/2/08	0.69	0.17	<0.01
	9/2/08	0.86	0.92	<0.05
	10/21/08	1.62	1.29	<0.05
Inlet	1/4/08	18.23	10.42	15.12
	1/11/08	10.14	3.16	1.51
	1/17/08	8.38	1.86	<1
	1/21/08	6.32	1.30	<1
	1/30/08	5.29	1.49	<1
	2/5/08	3.09	<1	<1
	2/14/08	2.94	0.93	<1
	3/7/08	0.91	1.13	0.76
	3/11/08	0.65	1.09	0.69
	3/20/08	0.65	0.97	<0.01
	3/27/08	0.36	0.38	<0.01
	4/2/08	0.91	1.54	0.55
	4/10/08	0.96	0.88	<0.01
	4/15/08	0.92	0.39	<0.01

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Inlet (cont'd)	4/25/08	1.15	0.67	<0.01
	5/5/08	1.14	0.27	<0.01
	5/14/08	0.92	0.22	<0.01
	5/19/08	0.81	0.45	<0.01
	5/27/08	0.98	0.31	<0.01
	6/2/08	1.41	0.73	<0.01
	6/12/08	1.10	0.28	<0.01
	6/19/08	0.88	0.38	<0.01
	6/23/08	0.76	<0.01	<0.01
	7/8/08	0.72	<0.01	<0.01
	7/17/08	0.36	<0.05	<0.05
	8/4/08	0.49	<0.05	<0.05
	8/11/08	1.75	0.47	<0.05
	8/18/08	0.14	<0.05	<0.05
	8/25/08	0.47	<0.05	<0.05
	9/2/08	0.72	0.46	<0.05
	9/11/08	0.91	<0.05	<0.05
	9/19/08	0.11	<0.05	<0.05
	9/23/08	0.28	<0.05	<0.05
	9/30/08	1.12	0.56	<0.05
	10/6/08	0.86	0.41	<0.05
	10/13/08	0.27	0.19	<0.05
	10/15/08	1.16	<0.05	<0.05
	10/21/08	0.57	0.86	<0.05
	10/31/08	1.87	0.30	<0.05
	11/4/08	<0.05	<0.05	<0.05
	11/10/08	0.15	0.26	<0.05
	11/19/08	0.40	<0.05	<0.05
Outlet	1/4/08	<1	<1	<1
	1/11/08	<1	<1	<1
	1/17/08	<1	0.93	<1
	1/21/08	<1	<1	<1
	1/30/08	<1	<1	<1
	2/5/08	<1	<1	<1
	2/14/08	<1	<1	<1
	3/7/08	0.51	0.98	1.11
	3/11/08	<1	<1	0.51
	3/20/08	<0.01	<0.01	<0.01
	3/27/08	<0.01	<0.01	<0.01
	4/2/08	<0.01	<0.01	<0.01
	4/10/08	<0.01	<0.01	<0.01
	4/15/08	<0.01	<0.01	<0.01
	4/25/08	<0.01	<0.01	<0.01
	5/5/08	<0.01	<0.01	<0.01
	5/14/08	<0.01	<0.01	<0.01

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Outlet (cont'd)	5/19/08	<0.01	<0.01	<0.01
	5/27/08	<0.01	<0.01	<0.01
	6/2/08	<0.01	<0.01	<0.01
	6/12/08	<0.01	<0.01	<0.01
	6/19/08	<0.01	<0.01	<0.01
	6/23/08	<0.01	<0.01	<0.01
	7/8/08	<0.01	<0.01	<0.01
	7/17/08	<0.05	<0.05	<0.05
	8/4/08	<0.05	<0.05	<0.05
	8/11/08	<0.05	<0.05	<0.05
	8/18/08	<0.05	<0.05	<0.05
	8/25/08	<0.05	<0.05	<0.05
	9/2/08	<0.05	<0.05	<0.05
	9/11/08	<0.05	<0.05	<0.05
	9/19/08	<0.05	<0.05	<0.05
	9/23/08	<0.05	<0.05	<0.05
	9/30/08	<0.05	<0.05	<0.05
	10/6/08	0.34	<0.05	<0.05
	10/13/08	<0.05	<0.05	<0.05
	10/15/08	<0.05	<0.05	<0.05
	10/21/08	<0.05	<0.05	<0.05
	10/31/08	<0.05	<0.05	<0.05
	11/4/08	<0.05	<0.05	<0.05
	11/10/08	<0.05	<0.05	<0.05
	11/19/08	<0.05	<0.05	<0.05
Mid	1/4/08	14.55	10.23	14.87
	1/11/08	Not sampled.		
	1/17/08	<1	<1	<1
	1/21/08	Not sampled.		
	1/30/08	<1	<1	<1
	2/5/08	<1	<1	<1
	2/14/08	<1	<1	<1
	3/7/08	<1	<1	1.44
	3/11/08	<1	<1	0.98
	3/20/08	<0.01	<0.01	<0.01
	3/27/08	<0.01	<0.01	<0.01
	4/2/08	<0.01	<0.01	0.69
	4/10/08	<0.01	<0.01	<0.01
	4/15/08	<0.01	<0.01	<0.01
	4/25/08	<0.01	<0.01	<0.01
	5/5/08	<0.01	<0.01	<0.01
	5/14/08	<0.01	<0.01	<0.01
	5/19/08	<0.01	<0.01	<0.01
	5/27/08	<0.01	<0.01	<0.01
	6/2/08	<0.01	<0.01	<0.01
	6/12/08	<0.01	<0.01	<0.01

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Mid (cont'd)	6/19/08	<0.01	<0.01	<0.01
	6/23/08	<0.01	<0.01	<0.01
	7/8/08	<0.01	<0.01	<0.01
	7/17/08	<0.05	<0.05	<0.05
	8/4/08	0.54	0.39	<0.05
	8/11/08	<0.05	<0.05	<0.05
	8/18/08	<0.05	0.32	<0.05
	8/25/08	<0.05	0.39	<0.05
	9/2/08	0.08	0.55	<0.05
	9/11/08	<0.05	<0.05	<0.05
	9/19/08	<0.05	<0.05	<0.05
	9/23/08	<0.05	<0.05	<0.05
	9/30/08	<0.05	<0.05	<0.05
	10/6/08	<0.05	<0.05	<0.05
	10/13/08	<0.05	<0.05	<0.05
	10/15/08	<0.05	<0.05	<0.05
	10/21/08	<0.05	<0.05	<0.05
	10/31/08	<0.05	<0.05	<0.05
	11/4/08	<0.05	<0.05	<0.05
	11/10/08	<0.05	<0.05	<0.05
	11/19/08	<0.05	<0.05	<0.05

Notes:
- Samples collected from 1/4/08 through 2/14/08 were reported in mg/L by the laboratory and converted to ppmv.
- Samples collected from 3/7/08 through 7/8/08 were reported in ug/L by the laboratory and converted to ppmv .

TABLE 4

SUMMARY OF OPERATIONAL DATA AND MASS REMOVAL
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Sample ID	Date Sampled	Sample Concentration				Pipe Dia.	Flow Rate	Cumulative Time	Mass Removed	
		PCE ppmv	PCE ug/L	TCE ppmv	TCE ug/L	inches	cfm	hrs	Cumulative PCE lbs	Cumulative TCE lbs
Inlet	1/4/2008	17.971	124	10.182	56	4	88.6	0.0	0.00	0.00
Inlet	1/11/2008	10.000	69	3.091	17	4	133.5	161.8	5.57	0.69
Inlet	1/17/2008	8.261	57	1.818	10	4	222.2	308.1	12.50	1.29
Inlet	1/21/2008	6.232	43	1.273	7	4	247.2	401.1	16.19	1.59
Inlet	1/30/2008	5.217	36	1.455	8	4	185.7	619	21.64	2.20
Inlet	2/5/2008	3.043	21	<RL	<RL	4	269.3	761	24.64	2.20
Inlet	2/14/2008	2.899	20	0.909	5	4	306.8	977.1	29.60	2.82
Inlet	3/7/2008	0.893	6.16	1.105	6.08	4	330.2	1201.9	31.31	3.66
Inlet	3/11/2008	0.642	4.43	1.069	5.88	4	157.3	1298.3	31.56	3.83
Inlet	3/20/2008	0.638	4.40	0.953	5.24	4	130.1	1515.3	32.02	4.11
Inlet	3/27/2008	0.358	2.47	0.375	2.06	4	162.0	1681.2	32.27	4.21
Inlet	4/2/2008	0.900	6.21	1.504	8.27	4	162.0	1823.6	32.80	4.57
Inlet	4/10/2008	0.951	6.56	0.864	4.75	4	121.4	2018.2	33.38	4.78
Inlet	4/15/2008	0.907	6.26	0.385	2.12	4	158.6	2137.9	33.83	4.85
Inlet	4/25/2008	1.132	7.81	0.651	3.58	4	132.9	2371.8	34.73	5.06
Inlet	5/5/2008	1.120	7.73	0.267	1.47	4	160.5	2493.1	35.30	5.11
Inlet	5/14/2008	0.909	6.27	0.211	1.16	4	150.4	2707.9	36.05	5.18
Inlet	5/19/2008	0.797	5.50	0.436	2.40	4	123.0	2828.6	36.36	5.25
Inlet	5/27/2008	0.965	6.66	0.385	2.12	4	123.0	3020.1	36.95	5.34
Inlet	6/2/2008	1.390	9.59	0.716	3.94	4	256.8	3163	38.26	5.61
Inlet	6/12/2008	1.084	7.48	0.278	1.53	4	225.0	3403.2	39.77	5.77
Inlet	6/19/2008	0.865	5.97	0.367	2.02	4	136.1	3569.6	40.28	5.85
Inlet	6/23/2008	0.762	5.26	<RL	<RL	4	229.6	3667.3	40.72	5.85
Inlet	7/3/2008	0.978	6.75	<RL	<RL	4	225.2	3905.8	42.07	5.85
Inlet	7/8/2008	0.710	4.90	<RL	<RL	4	176.0	4027.1	42.46	5.85
Inlet	7/17/2008	0.360	2.48	<RL	<RL	4	172.2	4243.8	42.81	5.85
Inlet	8/4/2008	0.490	3.38	<RL	<RL	4	158.2	4677.2	43.68	5.85
Inlet	8/11/2008	1.750	12.08	0.470	2.59	4	105.2	4844.7	44.47	5.94
Inlet	8/18/2008	0.140	0.97	<RL	<RL	4	167.8	5014.1	44.58	5.94
Inlet	8/25/2008	0.470	3.24	<RL	<RL	4	153.0	5179.3	44.88	5.94
Inlet	9/2/2008	0.720	4.97	0.420	2.31	4	190.2	5373.3	45.57	6.10
Inlet	9/11/2008	0.910	6.28	<RL	<RL	4	111.2	5585.6	46.12	6.10
Inlet	9/19/2008	0.110	0.76	<RL	<RL	4	139.3	5778.1	46.20	6.10
Inlet	9/23/2008	0.280	1.93	<RL	<RL	4	136.6	5874.7	46.29	6.10
Inlet	9/30/2008	1.120	7.73	0.560	3.08	4	106.4	6041.6	46.81	6.20
Inlet	10/6/2008	0.860	5.93	0.410	2.26	4	143.1	6185	47.26	6.29
Inlet	10/13/2008	0.270	1.86	0.190	1.05	4	129.9	6354	47.41	6.33
Inlet	10/15/2008	1.160	8.00	<RL	<RL	4	129.9	6402	47.60	6.33
Inlet	10/21/2008	0.570	3.93	0.860	4.73	4	106.6	6526.7	47.80	6.45
Inlet	10/30/2008	1.870	12.90	0.300	1.65	4	107.9	6784.6	49.14	6.53
Inlet	11/4/2008	<RL	<RL	<RL	<RL	4	140.0	6881	49.14	6.53
Inlet	11/10/2008	0.150	1.04	0.260	1.43	4	105.1	7013.8	49.19	6.57
Inlet	11/19/2008	0.400	2.76	<RL	<RL	4	87.6	7230.1	49.39	6.57
Inlet	11/26/2008	0.400	2.76	<RL	<RL	4	124.2	7256.1	49.42	6.57
Inlet	11/28/2008	0.400	2.76	<RL	<RL	4	124.3	7305.5	49.48	6.57

Mass Removal Calculations

Example calculations:

PCE Concentration (ppmv) X conversion factor (ppmv→ mg/m^3) = PCE Concentration (mg/m^3)

C_{ppmv} X $cf_{ppmv\rightarrow mg/m3}$ = $C_{mg/m3}$

42.35 ppmv X 6.91 $(mg/m^3)/(ppmv)$ = 292.64 mg/m^3

Air Speed (ft/min) X π X (Pipe radius (ft))^2 = Flow Rate (cfm)

V_{air} X $\pi(r_{pipe})^2$ = Q_{cfm}

4,920 ft/min X 3.14 X $(0.125\ ft)^2$ = 241.51 cfm

Flow Rate (cfm) X conversion factor (cfm→ m^3/min) = Flow Rate (m^3/min)

Q_{cfm} X conversion factor $_{cfm\rightarrow m3/min}$ = $Q_{m3/min}$

242 cfm X 0.0283168 (m^3/ft^3) = 6.85 m^3/min

Flow Rate (m^3/min) X Time on system (min) = Volume extracted (m^3)

$Q_{m3/min}$ X T = V_{ext}

6.85 m^3/min X 6,240 min = 42,760 m^3

Volume extracted (m^3) X PCE Concentration (mg/m^3) X conversion factor (mg→ kg) = PCE removed (kg)

V_{ext} X $C_{mg/m3}$ X $cf_{mg\rightarrow kg}$ = M_{kg}

42,760 m^3 X 292.64 mg/m^3 X (1kg)/(1,000,000 mg) = 12.51 kg

PCE removed (kg) X Conversion factor (kg→ lbs) = PCE removed (lbs)

Mass Removal Calculations

M_{kg} X $cf_{kg\rightarrow lbs}$ = M_{lbs}

12.51 kg X 2.205 (lbs)/(kg) = 27.59 lbs Removed

1. Conversion from parts per million by Volume concentration (ppmv) to mg/m^3

Contaminant Concentration (ppmv) X Conversion Factor (ppmv→ mg/m^3) = Contaminant concentration (mg/m^3)

C_{ppmv} X $cf_{ppmv\rightarrow mg/m3}$ = $C_{mg/m3}$

Conversion from ppmv → mg/m^3			
Compound	**PCE**	**TCE**	**1,1 DCA**
Conversion factor	**6.9**	**5.5**	**4.0**

2. Calculation of flow rate and conversion from cfm to m^3/min

Air Speed (ft/min) X Cross sectional Area = Flow Rate (cfm)

V_{air} X A_{pipe} = Q_{cfm}

Cross sectional area (A_{pipe}) = πr^2 = $\pi(r_{pipe})^2$ r_{pipe} = pipe radius = 1.5 in = 0.125 ft

Flow Rate (cfm or ft^3/min) X conversion factor (cfm→ m^3/min) = Flow Rate (m^3/min)

Q_{cfm} X $cf_{cfm\rightarrow m3/min}$ = $Q_{m3/min}$

3. Calculation of Volume Extracted (m^3) during operating period

Flow Rate (m^3/min) X Time on system (min) = Volume extracted (m^3)

$Q_{m3/min}$ X T = V_{ext}

4. Amount of PCE removed (kg) and conversion from kg to lbs

Volume extracted (m^3) X PCE Concentration (mg/m^3) X conversion factor (mg→ kg) = PCE mass removed (kg)

V_{ext} X $C_{mg/m3}$ X $cf_{mg\rightarrow kg}$ = M_{kg}

PCE mass removed (kg) X Conversion factor (kg→ lbs) = PCE mass removed (lbs)

M_{kg} X $cf_{kg\rightarrow lbs}$ = M_{lbs}

Mass Removal Calculations (continued)

Example calculations:

PCE Concentration (ppmv) X conversion factor (ppmv→ mg/m^3) = PCE Concentration (mg/m^3)

C_{ppmv} X $cf_{ppmv \rightarrow mg/m3}$ = $C_{mg/m3}$

2,369.13 ppmv X 4.42 $(mg/m^3)/(ppmv)$ = 10,471.55 mg/m^3

Air Speed (ft/min) X π X (Pipe raduis (ft))^2 = Flow Rate (cfm)

V_{air} X $\pi(r_{pipe})^2$ = Q_{cfm}

9,100 ft/min X 3.14 X $(0.125\ ft)^2$ = 446.47 cfm

Flow Rate (cfm) X conversion factor (cfm→ m^3/min) = Flow Rate (m^3/min)

Q_{cfm} X $cf_{cfm \rightarrow m3/min}$ = $Q_{m3/min}$

446.47 cfm X 0.0283168 (m^3/ft^3) = 12.64 m^3/min

Flow Rate (m^3/min) X Time on system (min) = Volume extracted (m^3)

$Q_{m3/min}$ X T = V_{ext}

12.64 m^3/min X 21,606 min = 273,155.29 m^3

Volume extracted (m^3) X PCE Concentration (mg/m^3) X conversion factor (mg→ kg) = PCE removed (kg)

V_{ext} X $C_{mg/m3}$ X $cf_{mg \rightarrow kg}$ = M_{kg}

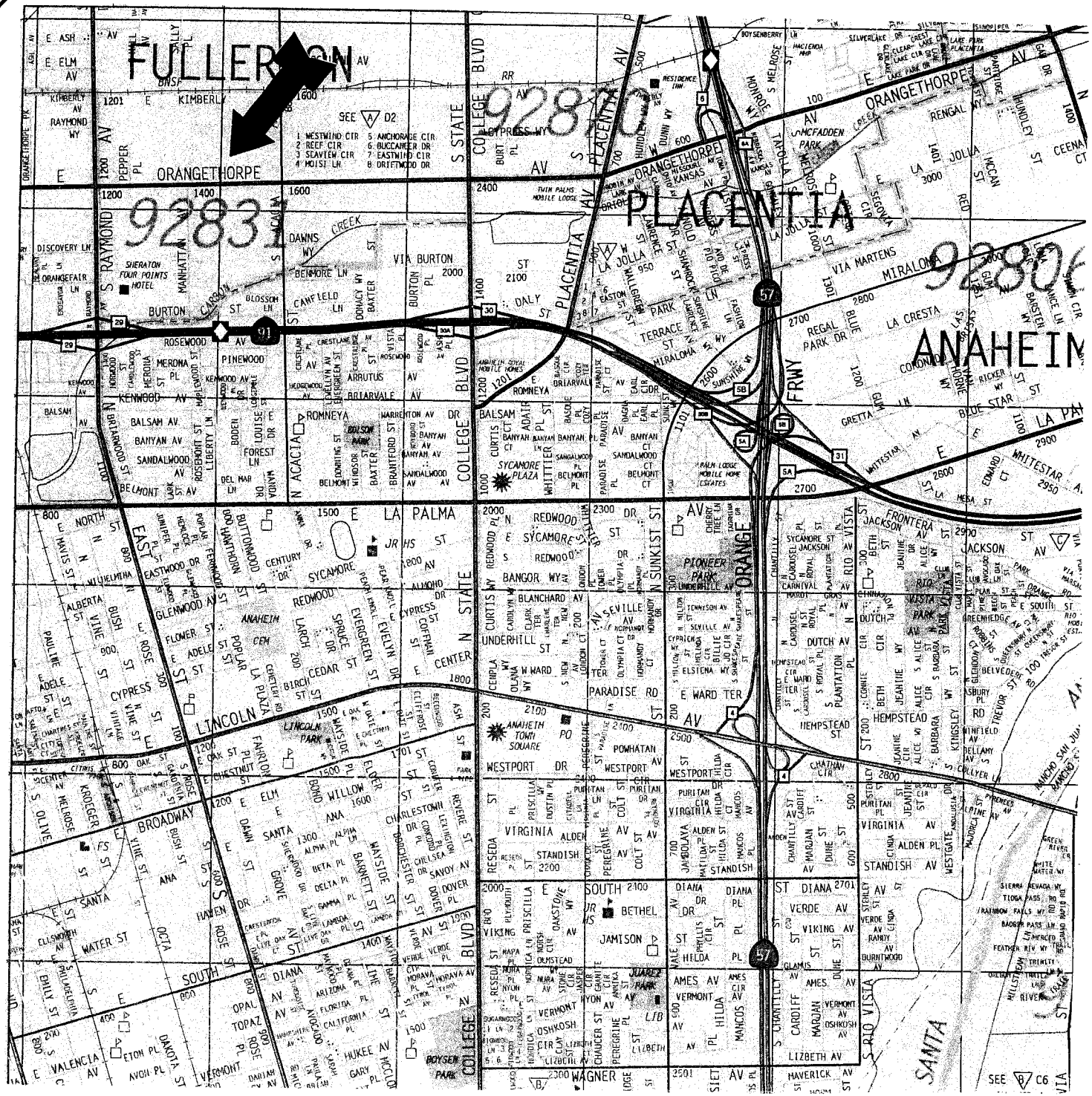
273,155.29 m^3 X 10,471.55 mg/m^3 X (1kg)/(1,000,000 mg) = 2,860.36 kg

PCE removed (kg) X Conversion factor (kg→ lbs) = PCE removed (lbs)

M_{kg} X $cf_{kg \rightarrow lbs}$ = M_{lbs}

2,860.36 kg X 2.205 (lbs)/(kg) = 6,307.09 lbs Removed

FIGURES



General Notes

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*ADAPTED FROM GOOGLEMAPS 2008

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe
Fullerton, CA

Number
7115

Figure Details

SITE LOCATION MAP

Figure #
Figure 1

Revise Date
July 23, 2008

0' 2,400'
Approximate Scale

Scale
1" = 2,400'

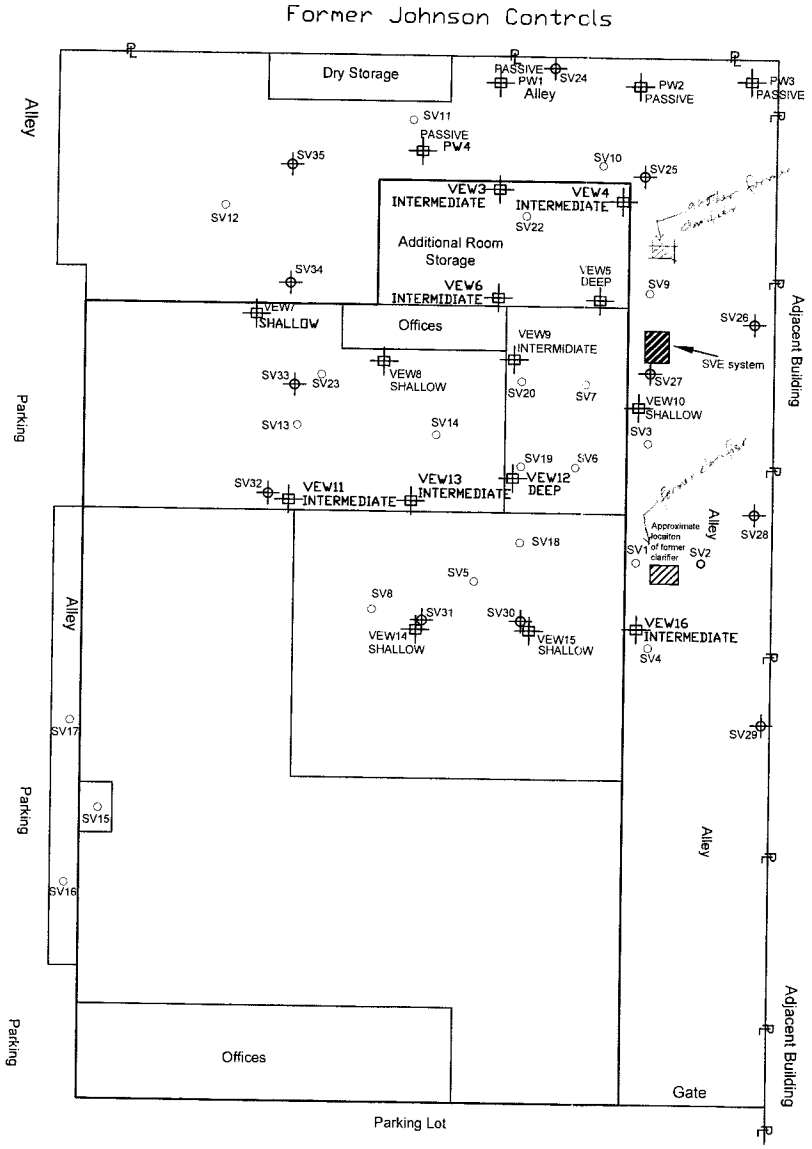
Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES



NORTH

General Notes

- SHALLOW – Vapor Extraction Well Locaiton (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP – Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE – Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH WELL AND SOIL BORING LOCATIONS

Figure #
Figure 2

Revise Date
December 2008

Approximate Scale 0 60'

Scale
1" = 60'

Company Information

Address
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(714) 730-6476

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Figure 3 - Cumulative PCE & TCE Removed over Time

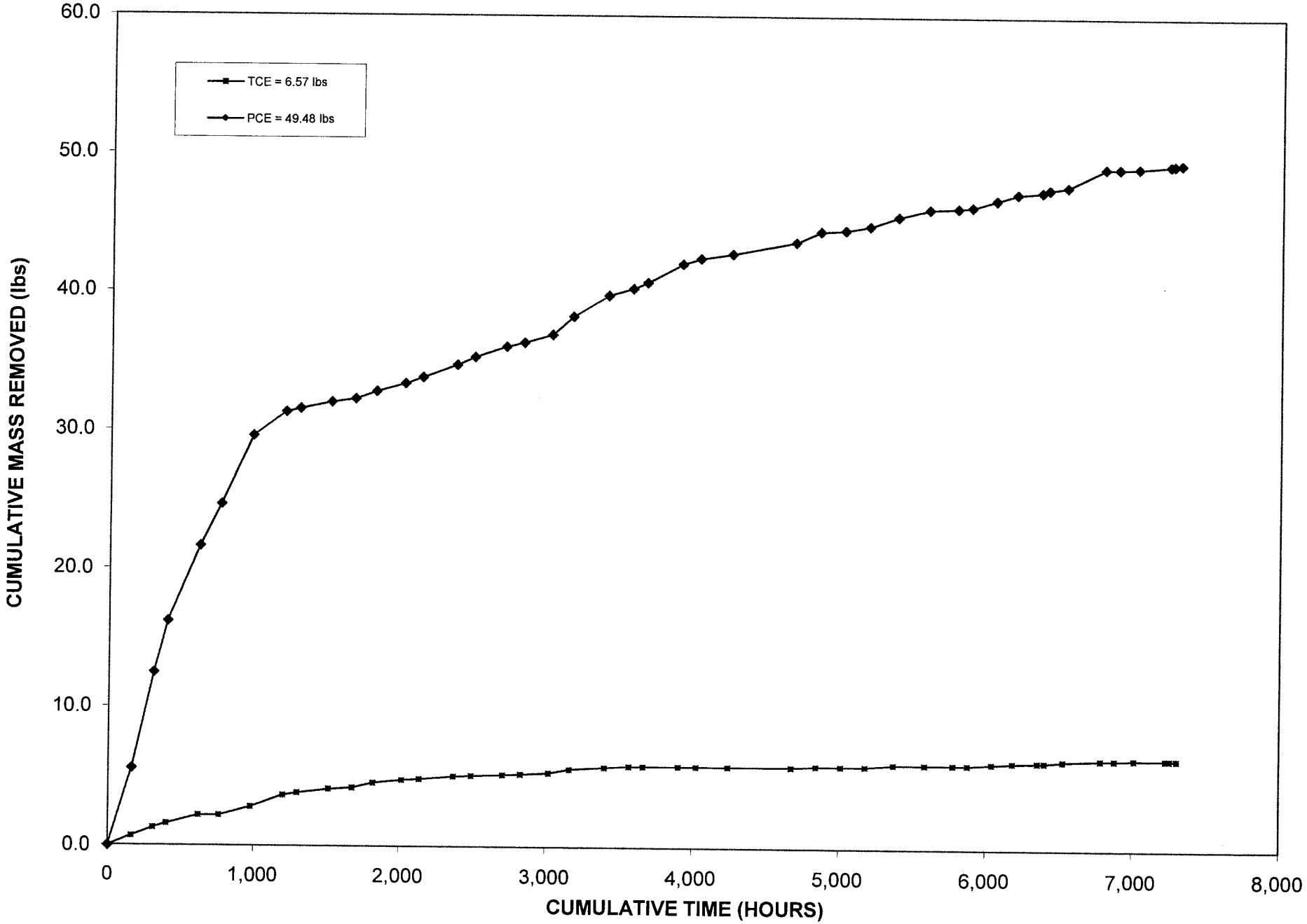
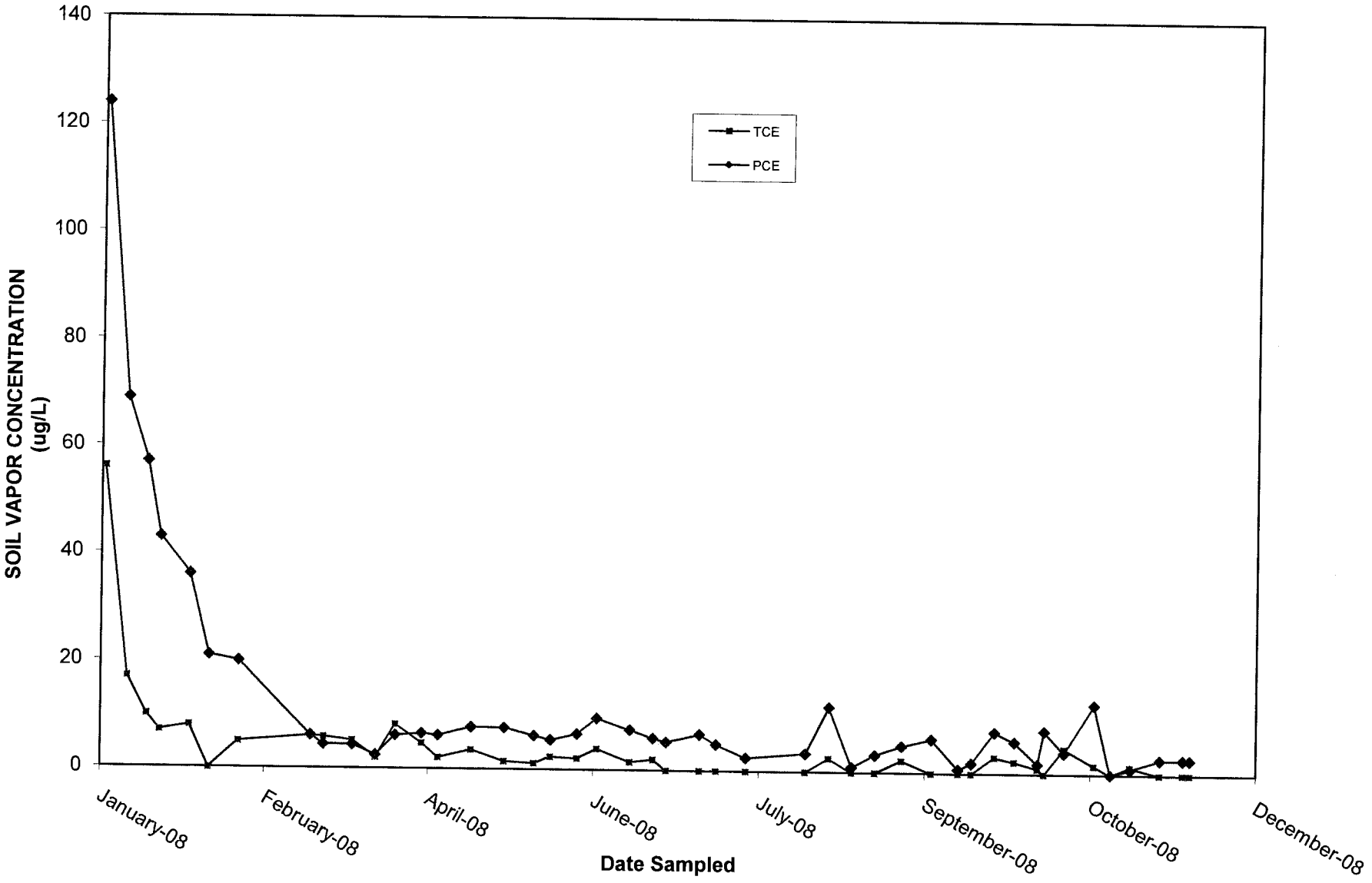
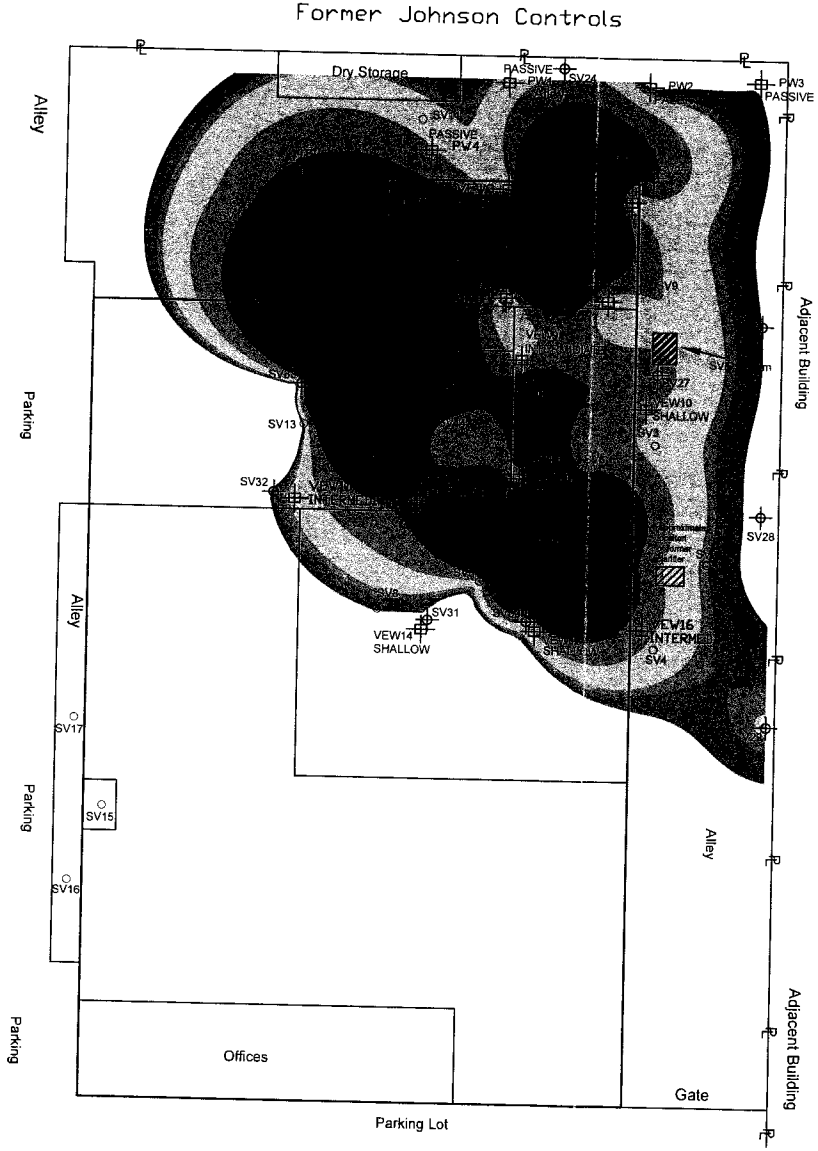


FIGURE 4 - Inlet PCE & TCE Vapor Concentration over Time





- 200 ug/L or greater
- 100 ug/L
- 50 ug/L
- 20 ug/L
- 5 ug/L

NORTH

General Notes

SHALLOW -Vapor Extraciton Well Locaiton (Multi-depth well screened at 2 to 5 and 12 to 15)

-Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)

DEEP -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)

PASSIVE -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)

-Temporary Soil Vapor Probe Location

○ - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH PRE-REMEDIATION SOIL VAPOR CONCENTRATION CONTOURS AT 1 AND 5 FT BGS

Figure #
Figure 5

Revise Date
December 2008

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

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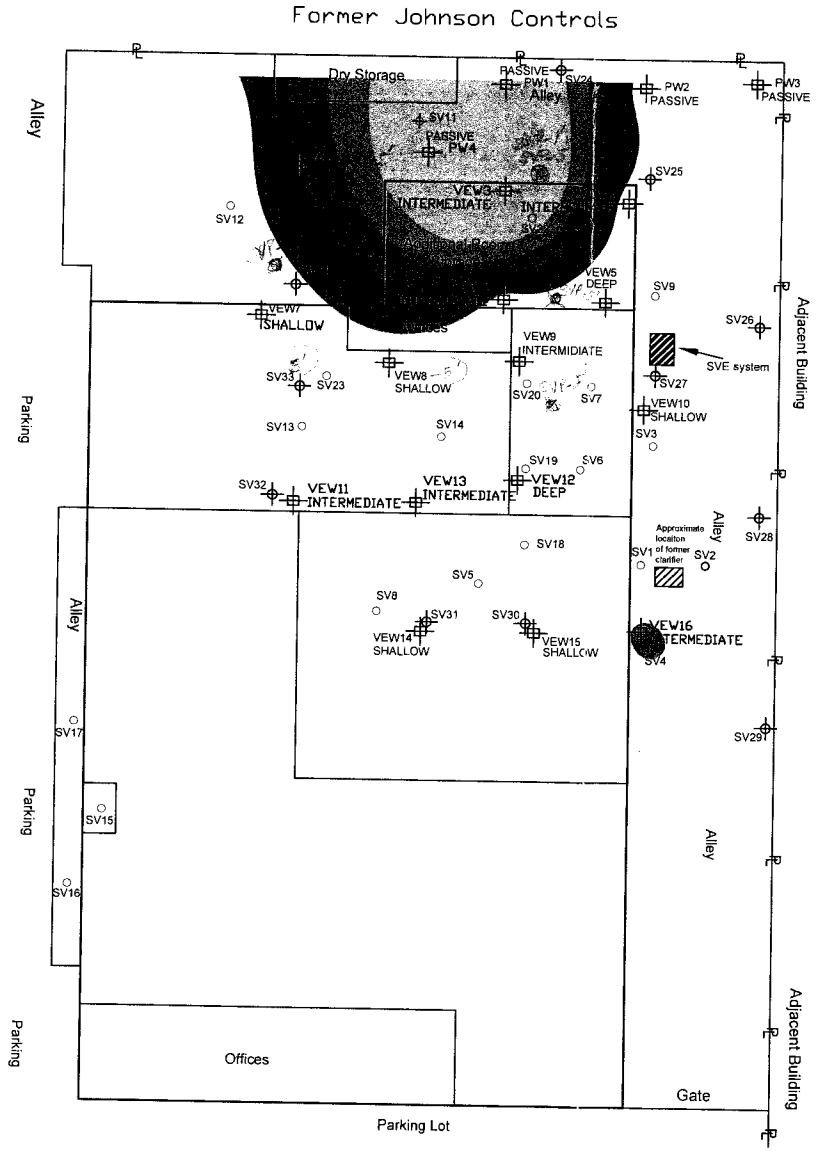

General Notes

- SHALLOW: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 Ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH POST-REMEDIATION SOIL VAPOR CONCENTRATION CONTOURS AT 5 FT BGS

Figure #
Figure 6

Revise Date
December 2008

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
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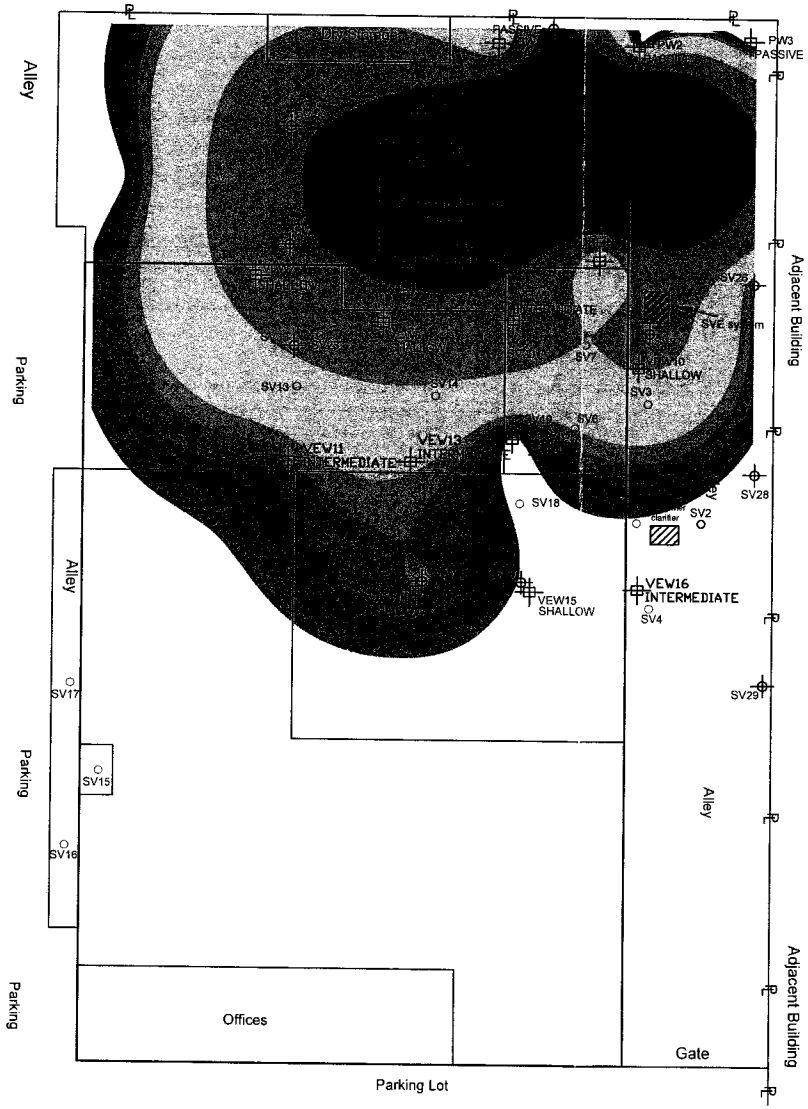
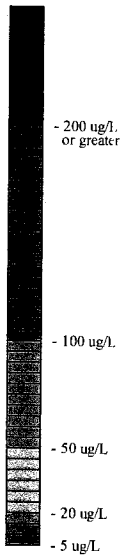
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls





NORTH

General Notes

- SHALLOW - Vapor Extraction Well Locaiton (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
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Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH PRE-REMEDIATION SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS

Figure #
Figure 7

Revise Date
December 2008

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

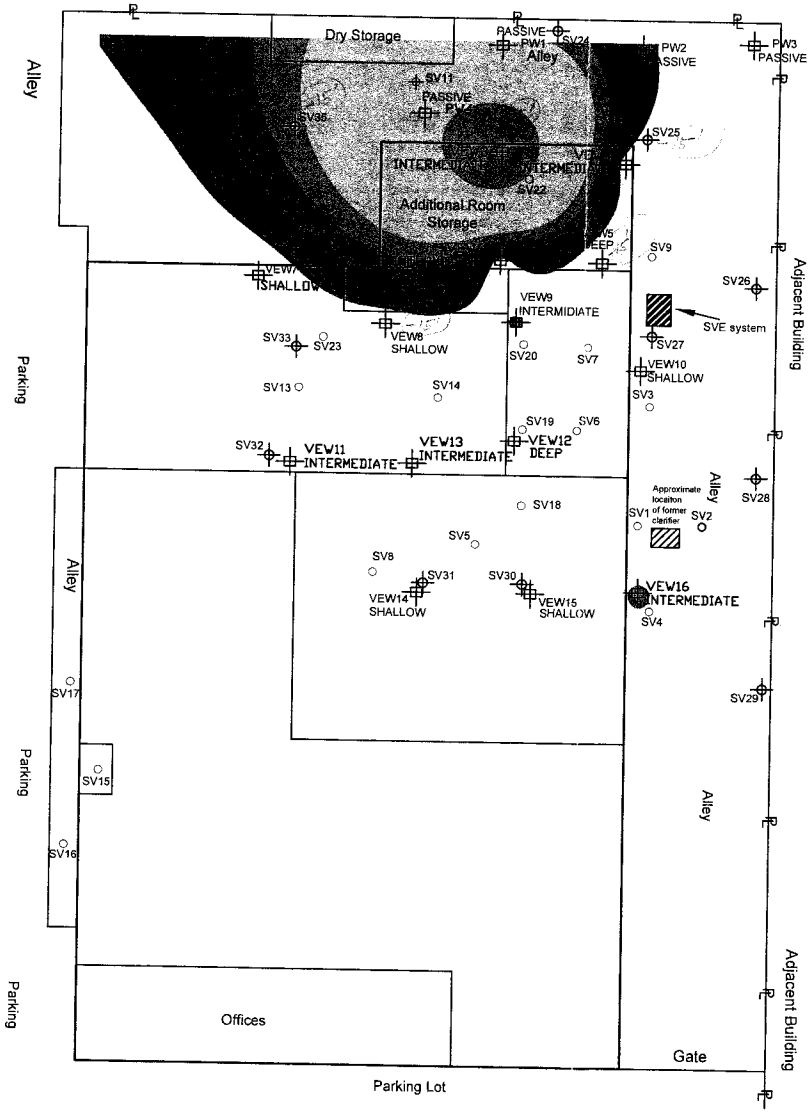
Address
520 West 1st Street
Tustin, CA 92780

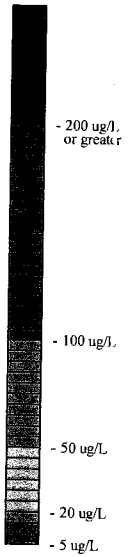
Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls





NORTH

General Notes

- SHALLOW: -Vapor Extraciton Well Locaiton (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH POST-REMEDIATIONSOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS

Figure #
Figure 8

Revise Date
December 2008

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

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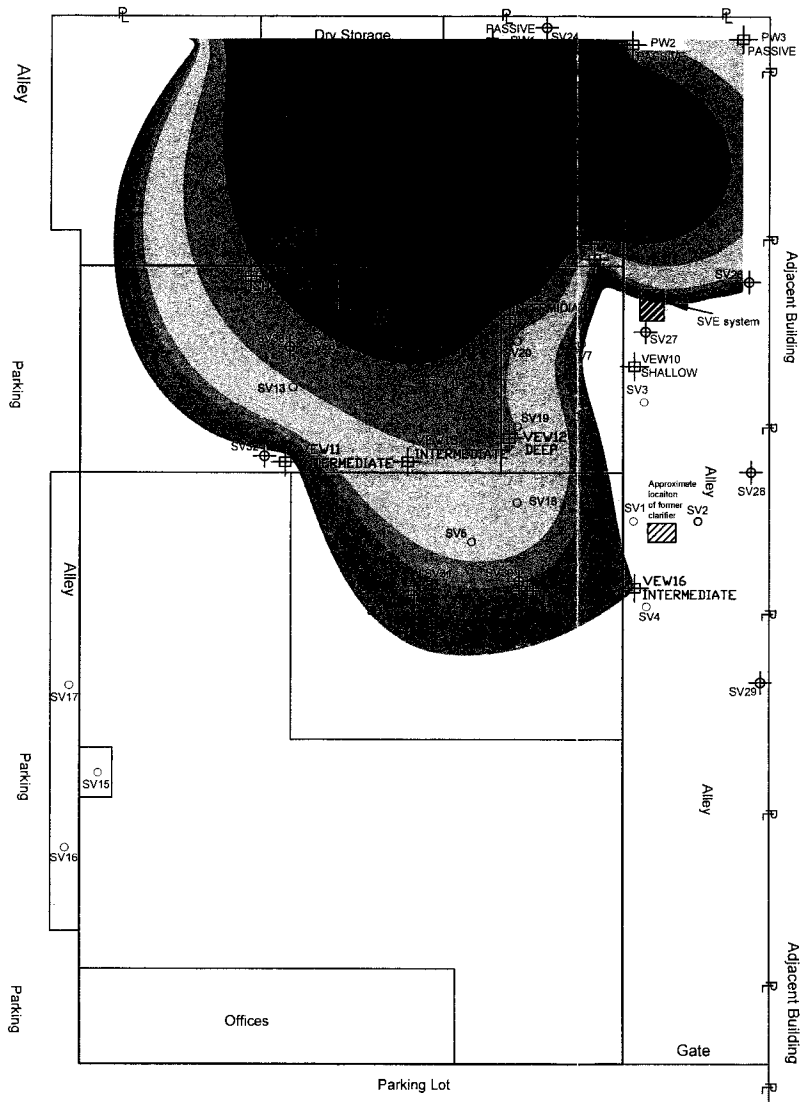

- 200 ug/L or greater
- 100 ug/L
- 50 ug/l
- 20 ug/L
- 5 ug/L

NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 Ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH PRE-REMEDIATION SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS

Figure #
Figure 9

Revise Date
December 2008

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
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(714) 730-6476

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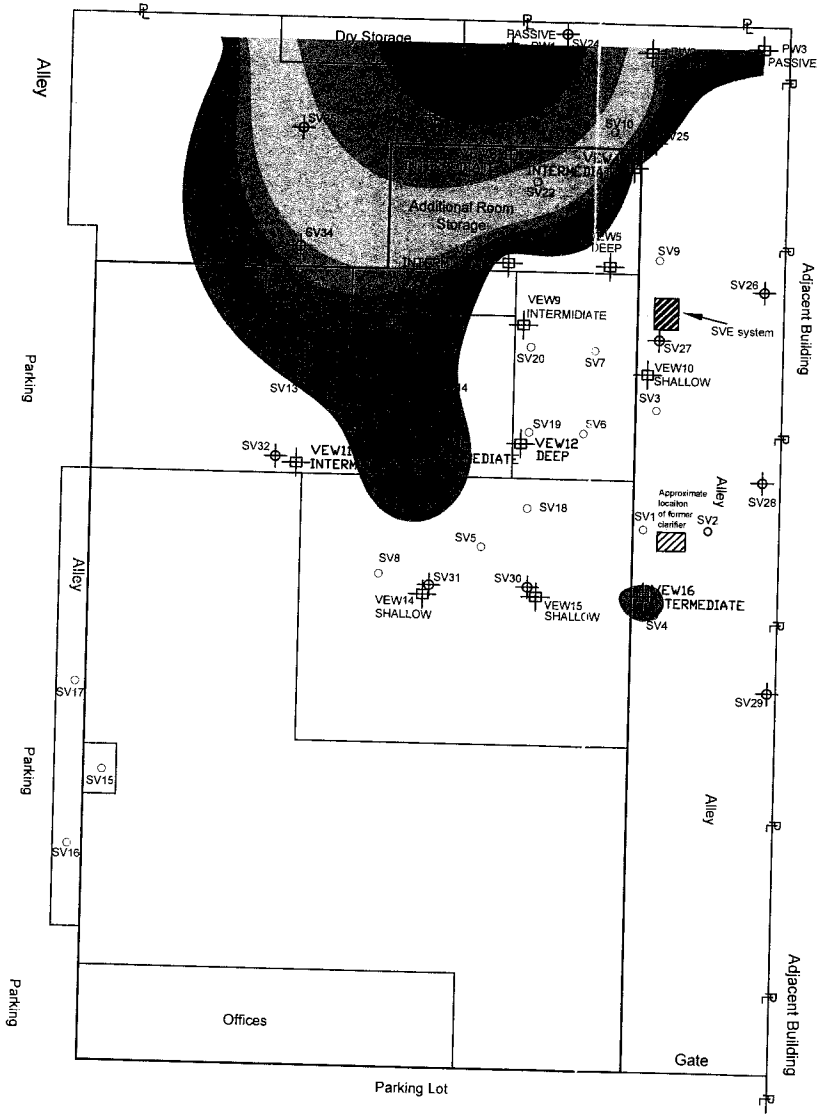

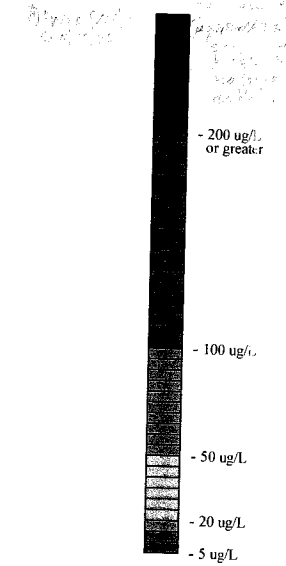

NORTH

General Notes

- SHALLOW: -Vapor Extraciton Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH POST-REMEDIATION SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS

Figure #
Figure 10

Revise Date
December 2008

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

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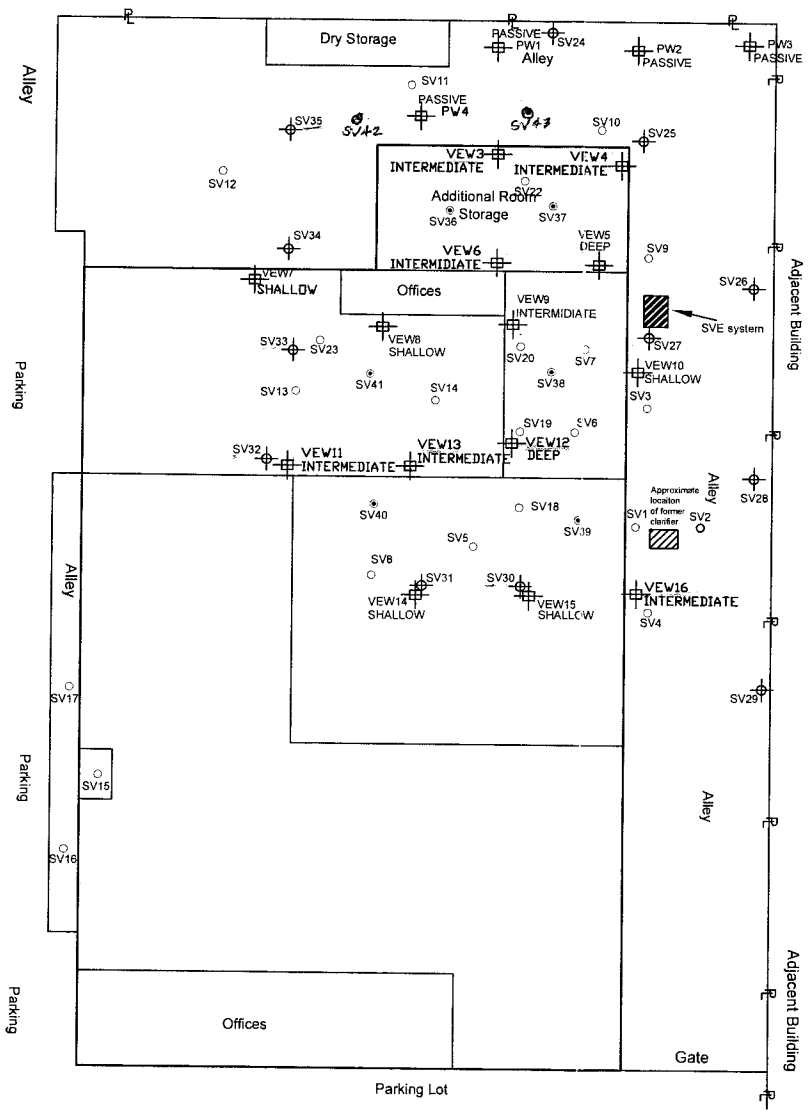

NORTH

General Notes

- SHALLOW – Vapor Extraciton Well Locaiton (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP – Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE – Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location
- Proposed Sub-Slab Sampling Location

Project Detoils

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH PROPOSED VERIFICATION SAMPLING LOCATIONS

Figure #
Figure 11

Revise Date
December 2008

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

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(714) 730-5397

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ENVIRONMENTAL SERVICES

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March 12, 2007

Mr. Christopher Terpolilli
The Reynolds Group
520 W. 1st St.
Tustin, CA 92780

Dear Mr. Terpolilli:

This letter presents the results of the soil vapor investigation conducted by Optimal Technology (Optimal), for The Reynolds Group on March 9, 2007. The study was performed at 1551 E. Orangethorpe Avenue, Fullerton, California.

Optimal was contracted to perform a soil vapor survey at this site to screen for possible chlorinated solvents and aromatic hydrocarbons. The primary objective of this soil vapor investigation was to determine if soil vapor contamination is present in the subsurface soil, and if possible determine potential source area(s).

Sampling Method

Sampling was performed by hydraulically pushing 1/2" steel soil gas probes to a depth of 5.0 feet bgs. An electric rotary hammer drill was used to drill a 1.0 inch hole through the overlying surface to allow probe placement when required. The same electric hammer drill was used to push probes in areas of resistance during placement.

At each sampling location an electric vacuum pump (set to draw 0.1-2.0 liters/min of soil vapor at a maximum vacuum of 100" of water) was attached to the probe and purged prior to sample collection. Vapor samples were obtained in Hamilton gas-tight syringes by puncturing silicone tubing which connects the sampling probe and the vacuum pump. New silicone tubing was used at each sampling point to prevent cross contamination. Samples were immediately injected into the gas chromatograph after collection. New sampling probes were used after each sample with positive results. Equipment blanks using ambient air were collected throughout the day. If significant contamination is detected in these blanks, corrective actions would be taken to identify and eliminate the source, if possible.

All analyses were performed on a laboratory grade Hewlett Packard model 5890 Series II gas chromatograph equipped with a Flame Ionization Detector (FID) and an Electron Capture Detector (ECD). Restec wide bore capillary columns using hydrogen as the carrier gases were used to perform all analysis. All results were collected on a personal computer utilizing Hewlett Packard's PC based chromatographic data collection and handling system.

Quality Assurance

3-Point Calibration

An initial 3-point calibration was performed on March 9, 2007 by preparing a calibration solution from a pre-mixed standard supplied by Supelco, Inc. The standard contained common halogenated solvents and aromatic hydrocarbons (see Table 1). The individual compound concentrations in the standards ranged between 0.025 ng/ul and 0.25 ng/ul.

The initial three point calibrations consisted of 20, 100 and 500 ul injections of the calibration solutions. A calibration factor on each analyte was generated using a best fit line method using the HP data system. If the r^2 factor generated from this line was not greater than 0.990, an additional three point calibration would have been performed. Method detection limits were calculated to be 1.0 ug/L for the individual compounds.

TABLE 1

Dichlorodifluoromethane	Carbon Tetrachloride	Chloroethane
Trichlorofluoromethane	1,2-Dichloroethane	Benzene
1,1-Dichloroethene	Trichloroethene	Toluene
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m-/p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113
4-Methyl-2-Pentanone	Cyclohexane	Acetone
Chlorobenzene	2-Butanone	

Sample Replicates

A replicate analysis (duplicate) is run when concentrations exceed the calibrated range of the instrument/detector being used. The duplicate sample is diluted using a smaller injection volume to assure that the instrument response falls within 50% of the calibrated range. In addition, a duplicate analysis is run a minimum of once each day to evaluate the reproducibility of the sampling system and instrument. If the difference between samples varies more than 20%, the entire system is evaluated and the inconsistency is determined and corrected, if possible.

Equipment Blanks

Blanks are run at the beginning of each workday, after calibrations and whenever sampling conditions appear to change. New vapor probes are used following each sample with positive results or when probes were damaged during installation. The blanks are collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

Subsurface Conditions

Subsurface soil conditions at this site were predominantly sandy from ground surface to 5.0 feet bgs. These soil conditions offered sampling flows at 0" water vacuum. Depth to groundwater was unknown at the time of the investigation.

Scope of Work

To achieve the objective of this investigation a total of 19 vapor samples were collected from 17 locations throughout the site. Sampling depths, vacuum readings, purge volume and sampling volumes are given on the analytical results page. All the collected vapor samples were analyzed on-site using Optimal's mobile laboratory.

Results

During this vapor investigation fifteen sample locations contained levels of Tetrachloroethene (PCE). PCE levels ranged from 1.4 ug/L at SV-15 to 222.2 ug/L at SV-10. Fourteen sample locations contained levels of Trichloroethene (TCE) and 1,1-Dichloroethene. TCE levels ranged from 1.9 ug/L at SV-11 to 115.2 ug/L at SV-6. 1,1-Dichloroethene levels ranged from 3.2 ug/L at SV-2 to 79.7 ug/L at SV-10. Eleven sample locations contained levels of 1,1,1-Trichloroethane (TCA). TCA levels ranged from 1.2 ug/L at SV-10 to 83.5 ug/L at SV-5 & SV-12. Freon 113 was found in six locations. Freon 113 levels ranged from 3.7 ug/L at SV-8 to 8.3 ug/L at SV-14. Four samples contained levels of cis-1,2-Dichloroethene. Cis-1,2-Dichloroethene levels ranged from 1.1 ug/L at SV-2 to 2.5 ug/L at SV-3. Finally, two samples contained levels of Vinyl Chloride. Vinyl Chloride levels were 1.1 ug/L at SV-13 and 3.2 ug/L at SV-12. None of the other compounds listed in Table 1 above were detected above the listed detection limits. A complete table of analytical results is included with this report.

Disclaimer

All conclusions presented in this letter are based solely on the information collected by the soil vapor survey conducted by Optimal Technology. Soil vapor testing is only a subsurface screening tool and does not represent actual contaminant concentrations in either the soil and/or groundwater. We enjoyed working with you on this project and look forward to future projects. If you have any questions please contact me at (818) 734-6230.

Sincerely,

Jason Anderson

Digitally signed by Jason Anderson
DN: CN = Jason Anderson, C = US
Date: 2007.03.12 15:32:56 -07'00'

Jason Anderson
Project Manager

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SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: FID and ECD

Date: 3/9/07

SAMPLE ID	N/A
Sampling Depth (Ft.)	N/A
Purge Volume (ml)	N/A
Vacuum (in. of Water)	N/A
Injection Volume (ul)	500/500
Dilution Factor (ECD/FID)	1/1

BLANK-1	SV-1	SV-1 Dil.	SV-2	SV-3	SV-4	SV-5	SV-6
N/A	5.0	5.0	5.0	5.0	5.0	5.0	5.0
N/A	1,500	1,500	1,500	1,500	1,500	1,500	1,500
N/A	0	0	0	0	0	0	0
500/500	500/500	100/500	100/500	100/500	100/500	100/500	100/500
1/1	1/1	5/1	5/1	5/1	5/1	5/1	5/1

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.0	ND	**4.7**	**5.5**	ND	ND	ND	ND	ND
Methylene Chloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	1.0	ND	**53.6**	**55.0**	**3.4**	**12.7**	**11.2**	**83.5**	**71.8**
1,2-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1.0	ND	**69.9**	**70.7**	**11.0**	**38.6**	**24.2**	**58.2**	**115.2**
Tetrachloroethene (PCE)	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	1.0	ND	**OS**	**78.8**	**15.3**	**36.4**	**39.2**	**35.3**	**80.3**
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	1.0	ND	**17.4**	**18.2**	**3.2**	**25.3**	**9.1**	**40.4**	**65.3**
2-Butanone (MEK)	1.0	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	1.0	ND	ND	ND	**1.1**	**2.5**	ND	**1.2**	**1.2**
Benzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.0	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Detection Limit; OS = Off the electronic scale of detector

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OPTIMAL TECHNOLOGY
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SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: FID and ECD

Date: 3/9/07

SAMPLE ID	N/A
Sampling Depth (Ft.)	N/A
Purge Volume (ml)	N/A
Vacuum (in. of Water)	N/A
Injection Volume (ul)	500/500
Dilution Factor (ECD/FID)	1/1

SV-7	SV-8	SV-9	SV-10	SV-11	SV-11 Dup	SV-12	SV-13
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
0	0	0	0	0	0	0	0
100/500	100/500	100/500	100/500	100/500	100/500	100/500	100/500
5/1	5/1	5/1	5/1	5/1	5/1	5/1	5/1

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	1.0	**6.9**	**3.7**	ND	**4.4**	ND	ND	**3.9**	ND
Methylene Chloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	1.0	**11.3**	**4.3**	ND	**1.2**	ND	ND	**83.5**	ND
Carbon Tetrachloride	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)	1.0	**101.7**	**22.6**	**11.6**	**88.8**	**1.9**	**1.8**	**50.4**	**16.3**
1,1,2-Trichloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)	1.0	**99.6**	**7.2**	**53.7**	**222.2**	**34.9**	**32.0**	**72.8**	**7.4**
1,1,1,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	1.0	ND	ND	ND	ND	ND	ND	**3.2**	**1.1**
Acetone	1.0	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	1.0	**78.3**	**17.7**	**6.0**	**79.7**	ND	ND	**63.6**	**7.4**
trans-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	1.0	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Cyclohexane	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-Pentanone	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
m/p-Xylene	1.0	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1.0	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = Below Listed Detection Limit

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SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: FID and ECD

Date: 3/9/07
Page: 3 of 3

SAMPLE ID	N/A	SV-14	SV-15	SV-16	SV-17				
Sampling Depth (Ft.)	N/A	5.0	5.0	5.0	5.0				
Purge Volume (ml)	N/A	1,500	1,500	1,500	1,500				
Vacuum (in. of Water)	N/A	0	0	0	0				
Injection Volume (ul)	500/500	100/500	100/500	100/500	100/500				
Dilution Factor (ECD/FID)	1/1	5/1	5/1	5/1	5/1				

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)				
Dichlorodifluoromethane	1.0	ND	ND	ND	ND				
Chloroethane	1.0	ND	ND	ND	ND				
Trichlorofluoromethane	1.0	ND	ND	ND	ND				
Freon 113	1.0	**8.3**	ND	ND	ND				
Methylene Chloride	1.0	ND	ND	ND	ND				
1,1-Dichloroethane	1.0	ND	ND	ND	ND				
Chloroform	1.0	ND	ND	ND	ND				
1,1,1-Trichloroethane	1.0	**6.3**	ND	ND	ND				
Carbon Tetrachloride	1.0	ND	ND	ND	ND				
1,2-Dichloroethane	1.0	ND	ND	ND	ND				
Trichloroethene (TCE)	1.0	**98.7**	ND	ND	ND				
1,1,2-Trichloroethane	1.0	ND	ND	ND	ND				
Tetrachloroethene (PCE)	1.0	**50.1**	**1.4**	ND	ND				
1,1,1,2-Tetrachloroethane	1.0	ND	ND	ND	ND				
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND				
Vinyl Chloride	1.0	ND	ND	ND	ND				
Acetone	1.0	ND	ND	ND	ND				
1,1-Dichloroethene	1.0	**78.2**	**54.4**	ND	ND				
trans-1,2-Dichloroethene	1.0	ND	ND	ND	ND				
2-Butanone (MEK)	1.0	ND	ND	ND	ND				
cis-1,2-Dichloroethene	1.0	ND	ND	ND	ND				
Cyclohexane	1.0	ND	ND	ND	ND				
Benzene	1.0	ND	ND	ND	ND				
4-Methyl-2-Pentanone	1.0	ND	ND	ND	ND				
Toluene	1.0	ND	ND	ND	ND				
Chlorobenzene	1.0	ND	ND	ND	ND				
Ethylbenzene	1.0	ND	ND	ND	ND				
m/p-Xylene	1.0	ND	ND	ND	ND				
o-Xylene	1.0	ND	ND	ND	ND				

Note: ND = Below Listed Detection Limit

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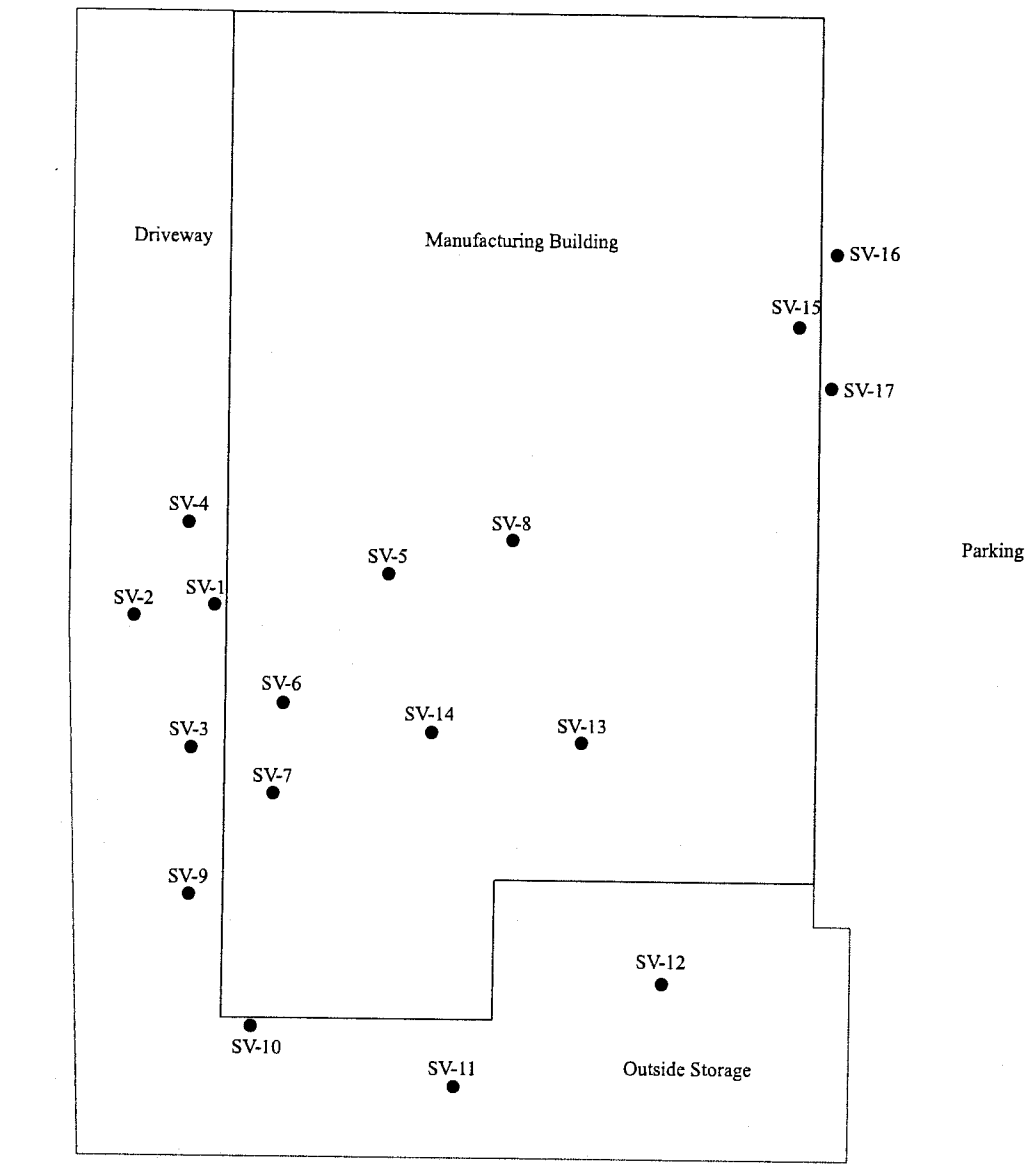
East Orangethorpe Avenue



N

0 40 80

Approximate Scale

Legend

SV-1 - Soil Vapor Sample Number

● - Soil Vapor Sample Location

Optimal Technology
P.O. Box 4448
Chatsworth, CA 91313
Toll-free (877) SOIL GAS
*Tel: (818) 734-6230 * Fax: (818) 734-6235*

DATE: March 9, 2007

COMPANY: The Reynolds Group

APPROXIMATE SCALE: 1" = 80'

TITLE: Soil Vapor Sampling Location Map
1551 E. Orangethorpe Ave., Fullerton, CA

FIGURE

1

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

July 31, 2007

Ms. Christa Wolfe
The Reynolds Group
520 W. 1st St.
Tustin, CA 92780

Dear Ms. Wolfe:

This letter presents the results of the soil vapor investigation conducted by Optimal Technology (Optimal), for The Reynolds Group on July 30, 2007. The study was performed at 1551 E. Orangethorpe Avenue, Fullerton, California.

Optimal was contracted to perform a soil vapor survey at this site to screen for possible chlorinated solvents and aromatic hydrocarbons. The primary objective of this soil vapor investigation was to determine if soil vapor contamination is present in the subsurface soil.

Gas Sampling Method

Gas sampling was performed by hydraulically pushing soil gas probes to a depth of 1.0-1.5 feet below the existing concrete slab. An electric rotary hammer drill was used to drill a 1.0-inch diameter hole through the overlying surface to allow probe placement when required. The same electric hammer drill was used to push probes in areas of resistance during placement.

At each sampling location an electric vacuum pump set to draw 0.2 liters per minute (L/min) of soil vapor was attached to the probe and purged prior to sample collection. Vapor samples were obtained in Hamilton gas-tight syringes by puncturing silicone tubing which connects the sampling probe and the vacuum pump. New silicone tubing was used at each sampling point to prevent cross contamination. Samples were immediately injected into the gas chromatograph after collection. Clean sampling probes were used after each sample with detectable analytes. Equipment blanks using ambient air were collected throughout the day.

All analyses were performed on a laboratory grade Hewlett Packard model 5890 Series II gas chromatograph equipped with a Hewlett Packard model 5971 Mass Spectra Detector. An SGE capillary column using helium as the carrier gas was used to perform all analysis. All results were collected on a personal computer utilizing Hewlett Packard's 5971 MS and chromatographic data collection and handling system.

Quality Assurance

3-Point Calibration
An initial 3-point calibration was performed on July 30, 2007 by preparing a calibration solution from a pre-mixed standard supplied by Supelco, Inc. The standard contained common halogenated solvents and aromatic hydrocarbons (see Table 1). The individual compound concentrations in the standards ranged between 0.025 nanograms per microliter(ng/ul) and 0.25 ng/ul.

The initial three point calibrations consisted of 100, 250 and 500 ul injections of the calibration solutions. A calibration factor on each analyte was generated using a best fit line method using the HP data system. If the r^2 factor generated from this line was not greater than 0.990, an additional three point calibration would have been performed. Method detection limits were calculated to be 1.0 micrograms per Liter (ug/L) for the individual compounds.

TABLE 1

Dichlorodifluoromethane	Carbon Tetrachloride	Chloroethane
Trichlorofluoromethane	1,2-Dichloroethane	Benzene
1,1-Dichloroethene	Trichloroethene	Toluene
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m-/p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113
4-Methyl-2-Pentanone	Cyclohexane	Acetone
Chlorobenzene	2-Butanone	

Sample Replicates
A replicate analysis (duplicate) was run to evaluate the reproducibility of the sampling system and instrument. The difference between samples did not vary more than 20%.

Purge Volume Test
"Purge volume" is the total internal volume of the sampling probe. Three separate purge volumes were tested: 1, 3, and 7 volumes. It was found that 7 volumes were best for this soil vapor survey.

Equipment Blanks
Blanks were run at the beginning of each workday and after calibrations. Clean vapor probes were used following each sample with detectable analytes or when probes were damaged during installation. The blanks were collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

Tracer Gas
A tracer gas was applied to the soil gas probes at each point of connection in which ambient air could enter the sampling system. These points include the top of the sampling probe where the tubing meets the probe connection and the surface bentonite seals. Isobutane was used as the tracer gas, found in common shaving cream. No Isobutane was found in any of the samples collected.

Scope of Work

To achieve the objective of this investigation a total of 8 vapor samples were collected from 5 locations throughout the site. Sampling depths, vacuum readings, purge volume and sampling volumes are given on the analytical results page. All the collected vapor samples were analyzed on-site using Optimal's mobile laboratory.

Subsurface Conditions

Subsurface soil conditions at this site were predominantly sandy with some silty-clay from ground surface to 2.0 feet bgs. These soil conditions offered sampling flows at 0-15" water vacuum. Depth to groundwater was unknown at the time of the investigation.

Results

During this vapor investigation all samples contained levels of Tetrachloroethene (PCE), Trichloroethene (TCE) and 1,1-Dichloroethene. PCE levels ranged from 72.1 ug/L at SV-23 to 1,079.4 ug/L at SV-22. TCE levels ranged from 80.4 ug/L at SV-23 to 710.8 ug/L at SV-22. 1,1-Dichloroethene levels ranged from 64.3 ug/L at SV-18 to 251.6 ug/L at SV-22. Five locations contained both Freon 113 and 1,1,1-Trichloroethane (TCA). Freon 113 levels ranged from 1.1 ug/L at SV-22 to 11.4 ug/L at SV-19. TCA levels ranged from 5.7 ug/L at SV-20 to 71.0 ug/L at SV-18. Additionally, SV-22 contained 6.5 ug/L of cis-1,2-Dichloroethene. None of the other compounds listed in Table 1 above were detected above the listed detection limits. A complete table of analytical results is included with this report.

Disclaimer

All conclusions presented in this letter are based solely on the information collected by the soil vapor survey conducted by Optimal Technology. Soil vapor testing is only a subsurface screening tool and does not represent actual contaminant concentrations in either the soil and/or groundwater. We enjoyed working with you on this project and look forward to future projects. If you have any questions please contact me at (877) 764-5427.

Sincerely,

Jason Anderson

Digitally signed by Jason Anderson
DN: CN = Jason Anderson, C = US
Date: 2007.07.31 13:45:15 -07'00'

Jason Anderson
Project Manager

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: HP-5971 Mass Spectrometer

Date: 7/30/07

SAMPLE ID	BLANK-1	SV-18 PT3V	SV-18 PT1V	SV-18 PT7V	SV-19	SV-20	SV-21	SV-22
Sampling Depth Below Slab (Ft.)	N/A	1.0	1.0	1.0	1.0	1.0	1.0-1.5	1.5
Purge Volume (ml)	N/A	1,500	500	3,500	3,500	3,500	N/A	3,500
Vacuum (in. of Water)	N/A	10	10	10	15	0	>100	0
Injection Volume (ul)	1000	1000	1000	1000	1000	1000	N/A	1000
Dilution Factor	1	1	1	1	1	1	N/A	1

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)
Dichlorodifluoromethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Chloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Trichlorofluoromethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Freon 113	1.0	ND	**9.8**	**10.2**	**11.1**	**11.4**	**2.3**	N/A	**1.1**
Methylene Chloride	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
1,1-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Chloroform	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
1,1,1-Trichloroethane	1.0	ND	**45.2**	**64.1**	**71.0**	**22.2**	**5.7**	N/A	**68.0**
Carbon Tetrachloride	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
1,2-Dichloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Trichloroethene (TCE)	1.0	ND	**86.7**	**109.5**	**120.2**	**190.2**	**99.3**	N/A	**710.8**
1,1,2-Trichloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Tetrachloroethene (PCE)	1.0	ND	**118.9**	**147.8**	**163.5**	**190.8**	**164.5**	N/A	**1,079.4**
1,1,1,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Vinyl Chloride	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Acetone	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
1,1-Dichloroethene	1.0	ND	**50.2**	**55.3**	**64.3**	**239.3**	**66.2**	N/A	**251.6**
trans-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
2-Butanone (MEK)	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
cis-1,2-Dichloroethene	1.0	ND	ND	ND	ND	ND	ND	N/A	**6.5**
Cyclohexane	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Benzene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
4-Methyl-2-Pentanone	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Toluene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Chlorobenzene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
Ethylbenzene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
m/p-Xylene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND
o-Xylene	1.0	ND	ND	ND	ND	ND	ND	N/A	ND

Note: ND = Below Listed Detection Limit; PT3V = Purge Test Volume; N/A = Not Applicable because no sample was taken due to high vacuum.

OPTIMAL TECHNOLOGY
Specializing in Environmental Field Services

SOIL VAPOR RESULTS

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA
Analyst J.A.
Collector: J.A.

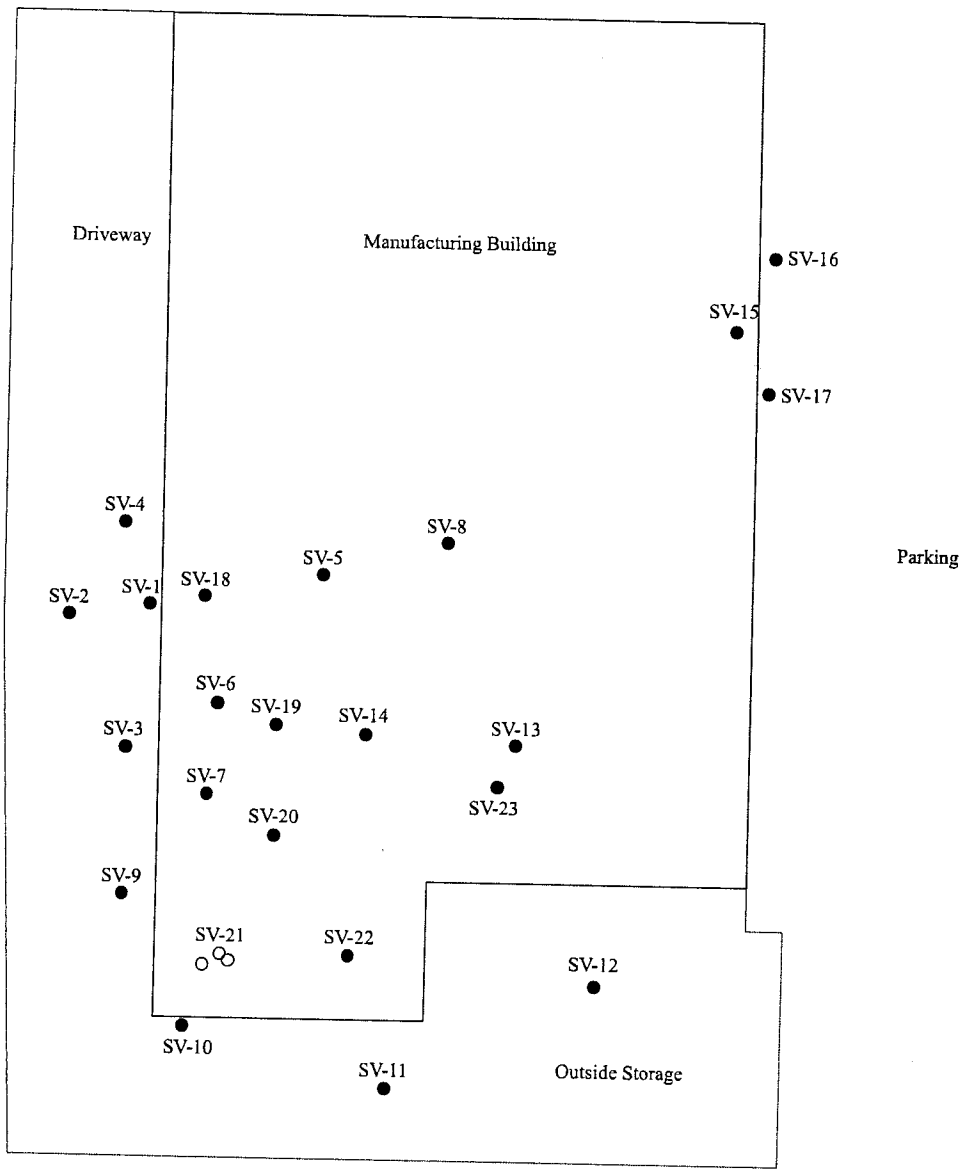
Lab Name: Optimal Technology
Inst. ID: HP-5890 Series II
Detectors: HP-5971 Mass Spectrometer

Date: 7/30/07

SAMPLE ID	SV-22 Dup	SV-23						
Sampling Depth Below Slab (Ft.)	1.5	1.0						
Purge Volume (ml)	3,500	3,500						
Vacuum (in. of Water)	0	10						
Injection Volume (ul)	1000	1000						
Dilution Factor	1	1						

COMPOUND	DET. LIMIT	CONC (ug/L)	CONC (ug/L)						
Dichlorodifluoromethane	1.0	ND	ND						
Chloroethane	1.0	ND	ND						
Trichlorofluoromethane	1.0	ND	ND						
Freon 113	1.0	**1.6**	ND						
Methylene Chloride	1.0	ND	ND						
1,1-Dichloroethane	1.0	ND	ND						
Chloroform	1.0	ND	ND						
1,1,1-Trichloroethane	1.0	**66.9**	ND						
Carbon Tetrachloride	1.0	ND	ND						
1,2-Dichloroethane	1.0	ND	ND						
Trichloroethene (TCE)	1.0	**684.9**	**80.4**						
1,1,2-Trichloroethane	1.0	ND	ND						
Tetrachloroethene (PCE)	1.0	**984.8**	**72.1**						
1,1,1,2-Tetrachloroethane	1.0	ND	ND						
1,1,2,2-Tetrachloroethane	1.0	ND	ND						
Vinyl Chloride	1.0	ND	ND						
Acetone	1.0	ND	ND						
1,1-Dichloroethene	1.0	**232.8**	**79.8**						
trans-1,2-Dichloroethene	1.0	ND	ND						
2-Butanone (MEK)	1.0	ND	ND						
cis-1,2-Dichloroethene	1.0	**5.8**	ND						
Cyclohexane	1.0	ND	ND						
Benzene	1.0	ND	ND						
4-Methyl-2-Pentanone	1.0	ND	ND						
Toluene	1.0	ND	ND						
Chlorobenzene	1.0	ND	ND						
Ethylbenzene	1.0	ND	ND						
m/p-Xylene	1.0	ND	ND						
o-Xylene	1.0	ND	ND						

Note: ND = Below Listed Detection Limit



Legend

SV-1 - Soil Vapor Sample Number

● - Soil Vapor Sample Location

○ - No Sample Taken Due to High Vacuum

Optimal Technology
P.O. Box 4448
Chatsworth, CA 91313
Toll-free (877) SOIL GAS
*Tel: (818) 734-6230 * Fax: (818) 734-6235*

DATE: July 30, 2007

APPROXIMATE SCALE: 1" = 80'

FIGURE 1

COMPANY: The Reynolds Group

TITLE: Soil Vapor Sampling Location Map
1551 E. Orangethorpe Ave. , Fullerton, CA

MOBILE GEOCHEMISTRY

H&P

RECEIVED
OCT 16 2007
CF

16 October 2007

Ms. Christa Wolfe
The Reynolds Group - Tustin
520 West 1st Street
Tustin, CA 92780
RE: TRG100907-L4

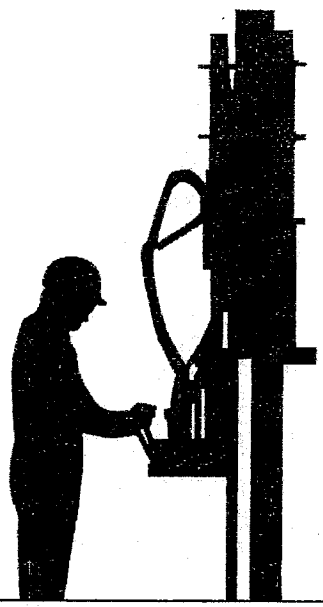
Enclosed are the results of analyses for samples received by the laboratory on 10/9/2007 -10/10/2007. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for J Shilling, on

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.



2470 Impala Drive, Carlsbad, California 92010 | 760.804.9678 — Fax 760.804.9159
3825 Industry Avenue, Lakewood, California 90712 | 562.426.6991 — Fax 562.426.6995
www.HandPmg.com | 1-800-834-9888

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-35-15, 1PV, 81cc	E710027-01	Vapor	09-Oct-07	09-Oct-07
SV-35-15, 3PV, 223cc	E710027-02	Vapor	09-Oct-07	09-Oct-07
SV-35-15, 7PV, 507cc	E710027-03	Vapor	09-Oct-07	09-Oct-07
SV-34-15, 507cc	E710027-04	Vapor	09-Oct-07	09-Oct-07
SV-33-5, 497cc	E710027-05	Vapor	09-Oct-07	09-Oct-07
SV-33-15, 507cc	E710027-06	Vapor	09-Oct-07	09-Oct-07
SV-32-5, 497cc	E710027-07	Vapor	09-Oct-07	09-Oct-07
SV-32-15, 507cc	E710027-08	Vapor	09-Oct-07	09-Oct-07
SV-30-5, 497cc	E710027-09	Vapor	09-Oct-07	09-Oct-07
SV-30-15, 507cc	E710027-10	Vapor	09-Oct-07	09-Oct-07
SV-31-5, 497cc	E710027-11	Vapor	09-Oct-07	09-Oct-07
SV-31-15, 507cc	E710027-12	Vapor	09-Oct-07	09-Oct-07
SV-31-15 DUP, 567cc	E710027-13	Vapor	09-Oct-07	09-Oct-07
SV-25-5, 497cc	E710033-01	Vapor	10-Oct-07	10-Oct-07
SV-25-15, 507cc	E710033-02	Vapor	10-Oct-07	10-Oct-07
SV-24-15, 507cc	E710033-03	Vapor	10-Oct-07	10-Oct-07
SV-27-5, 497cc	E710033-04	Vapor	10-Oct-07	10-Oct-07
SV-27-15, 507cc	E710033-05	Vapor	10-Oct-07	10-Oct-07
SV-28-5, 497cc	E710033-06	Vapor	10-Oct-07	10-Oct-07
SV-26-15, 507cc	E710033-07	Vapor	10-Oct-07	10-Oct-07
SV-29-5, 497cc	E710033-08	Vapor	10-Oct-07	10-Oct-07
SV-29-15, 507cc	E710033-09	Vapor	10-Oct-07	10-Oct-07
SV-29-5 DUP, 557cc	E710033-10	Vapor	10-Oct-07	10-Oct-07

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-35-15, 1PV, 81cc (E710027-01) Vapor	**Sampled: 09-Oct-07 Received: 09-Oct-07**								
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	35	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	25	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	40	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.6 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*93.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-35-15, 3PV, 223cc (E710027-02) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	120	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.7	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.7	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.4	0.5	"	"	"	"	"	"	
Chloroform	0.5	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	57	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	74	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-35-15-7PV, 507cc (E710027-03) Vapor	**Sampled: 09-Oct-07**		**Received: 09-Oct-07**						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	140	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	2.1	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.7	0.5	"	"	"	"	"	"	
Chloroform	0.6	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.3	0.1	"	"	"	"	"	"	
Trichloroethene	72	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	93	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*100 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-34-15, 507cc (E710027-04) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	460	10	"	1	"	"	09-Oct-07	"	
Methylene chloride	ND	0.5	"	0.05	"	"	09-Oct-07	"	
Freon 113	1.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	6.9	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.2	0.5	"	"	"	"	"	"	
Chloroform	1.9	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	2.7	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	110	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	92	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*97.2 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*93.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.6 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-33-5, 497cc (E710027-05) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	55	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.6	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.2	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.5	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	0.9	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	47	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	25	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-33-15, 507cc (E710027-06) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	140	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	2.0	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	4.0	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	1.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	2.5	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	90	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	54	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*99.6 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-32-5, 497cc (E710027-07) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	73	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	2.6	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	0.5	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.3	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.4	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	38	0.1	"	"	"	"	"	"	
Toluene	2.1	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	11	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*98.4 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-32-15, 507cc (E710027-08) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	49	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	1.8	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.3	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.1	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	32	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	11	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-30 5,497cc (E710027-09) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	61	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	14	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.5	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.6	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	79	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.3	0.1	"	"	"	"	"	"	
Trichloroethene	71	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	53	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-30-15, 507cc (E710027-10) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	0.5	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	0.5	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	2.8	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	4.8	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-31-5, 497cc (E710027-11) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	0.6	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	2.0	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	1.5	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*99.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.2 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-31-15, 507cc (E710027-12) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	53	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	11	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.3	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	30	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	44	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	16	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-31-15 DUP, 567cc (E710027-13) Vapor	**Sampled: 09-Oct-07**	**Received: 09-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	53	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	11	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.3	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	29	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	41	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	13	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*98.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-25-5 497cc (E710033-01) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	20	ug/l	0.1	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.2	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	100	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Freon 113	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	1.1	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
Chloroform	0.6	0.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.2	"	"	"	"	"	"	
Benzene	0.3	0.2	"	"	"	"	"	"	
Trichloroethene	48	0.2	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	110	0.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*100 %*	*75-125*			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*85.6 %*	*75-125*			"	"	"	"	
Surrogate: Toluene-d8	*83.6 %*	*75-125*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*90.4 %*	*75-125*			"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-25-15, 507cc (E710033-02) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	20	ug/l	0.1	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.2	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	250	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Freon 113	2.0	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	3.0	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	2.2	1.0	"	"	"	"	"	"	
Chloroform	1.3	0.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.9	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.2	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.2	"	"	"	"	"	"	
Benzene	0.4	0.2	"	"	"	"	"	"	
Trichloroethene	100	0.2	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	180	0.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-24 15, 507cc (E710033-03) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	20	ug/l	0.1	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	0.2	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	30	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Freon 113	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	8.2	1.0	"	"	"	"	"	"	
Chloroform	0.2	0.2	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.2	"	"	"	"	"	"	
1,2-Dichloroethane	0.2	0.2	"	"	"	"	"	"	
Benzene	0.3	0.2	"	"	"	"	"	"	
Trichloroethene	32	0.2	"	"	"	"	"	"	
Toluene	ND	2.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	120	0.2	"	"	"	"	"	"	
Ethylbenzene	ND	2.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	2.0	"	"	"	"	"	"	
o-Xylene	ND	2.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.6 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-27-5, 497cc (E710033-04) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	88	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	2.5	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.5	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.6	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	7.4	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	50	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	66	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane	*111 %*	*75-125*			"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	*98.0 %*	*75-125*			"	"	"	"	
Surrogate: Toluene-d8	*94.8 %*	*75-125*			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	*97.6 %*	*75-125*			"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-27-15, 507cc (E710033-05) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	140	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	4.4	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	2.2	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.8	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	10	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	68	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	74	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*120 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-28-5, 497cc (E710033-06) Vapor Sampled: 10-Oct-07 Received: 10-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	0.4	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	1.4	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*94.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-26-15, 507cc (E710033-07) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	14	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	1.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	2.0	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	11	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-29-5, 497cc (E710033-08) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	0.9	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.7	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.1	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	5.4	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	22	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*	*75-125*	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*75-125*	"	"	"	"	"	
Surrogate: Toluene-d8		*99.6 %*	*75-125*	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.0 %*	*75-125*	"	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-29-15, 507cc (E710033-09) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	1.0	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.1	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	6.3	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	21	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*119 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*102 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-2975 DUP, 557cc (E710033-10) Vapor	**Sampled: 10-Oct-07**	**Received: 10-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	0.8	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.7	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.0	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.3	0.1	"	"	"	"	"	"	
Trichloroethene	5.2	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	23	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*124 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*113 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*104 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG100907-L4	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	16-Oct-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ70901 - EPA 5030										
Blank (EJ70901-BLK1)				Prepared & Analyzed: 09-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	"							
Vinyl chloride	ND	0.1	"							
Chloroethane	ND	0.5	"							
Trichlorofluoromethane	ND	0.5	"							
1,1-Dichloroethene	ND	0.5	"							
Methylene chloride	ND	0.5	"							
Freon 113	ND	0.5	"							
trans-1,2-Dichloroethene	ND	0.5	"							
1,1-Dichloroethane	ND	0.5	"							
cis-1,2-Dichloroethene	ND	0.5	"							
Chloroform	ND	0.1	"							
1,1,1-Trichloroethane	ND	0.5	"							
Carbon tetrachloride	ND	0.1	"							
1,2-Dichloroethane	ND	0.1	"							
Benzene	ND	0.1	"							
Trichloroethene	ND	0.1	"							
Toluene	ND	1.0	"							
1,1,2-Trichloroethane	ND	0.5	"							
Tetrachloroethene	ND	0.1	"							
Ethylbenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	0.5	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	0.5	"							
Surrogate: Dibromofluoromethane	*2.48*		"	*2.50*		*99.2*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.48*		"	*2.50*		*99.2*	*75-125*			
Surrogate: Toluene-d8	*2.54*		"	*2.50*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.44*		"	*2.50*		*97.6*	*75-125*			

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ71001 - EPA 5030										
Blank (EJ71001-BLK1)				Prepared & Analyzed: 10-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	"							
Vinyl chloride	ND	0.1	"							
Chloroethane	ND	0.5	"							
Trichlorofluoromethane	ND	0.5	"							
1,1-Dichloroethene	ND	0.5	"							
Methylene chloride	ND	0.5	"							
Freon 113	ND	0.5	"							
trans-1,2-Dichloroethene	ND	0.5	"							
1,1-Dichloroethane	ND	0.5	"							
cis-1,2-Dichloroethene	ND	0.5	"							
Chloroform	ND	0.1	"							
1,1,1-Trichloroethane	ND	0.5	"							
Carbon tetrachloride	ND	0.1	"							
1,2-Dichloroethane	ND	0.1	"							
Benzene	ND	0.1	"							
Trichloroethene	ND	0.1	"							
Toluene	ND	1.0	"							
1,1,2-Trichloroethane	ND	0.5	"							
Tetrachloroethene	ND	0.1	"							
Ethylbenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	0.5	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	0.5	"							
Surrogate: Dibromofluoromethane	*2.69*		"	*2.50*		*108*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.30*		"	*2.50*		*92.0*	*75-125*			
Surrogate: Toluene-d8	*2.40*		"	*2.50*		*96.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.38*		"	*2.50*		*95.2*	*75-125*			

MOBILE GEOCHEMISTRY

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20071030 H&P results LAB Analyses

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30 October 2007

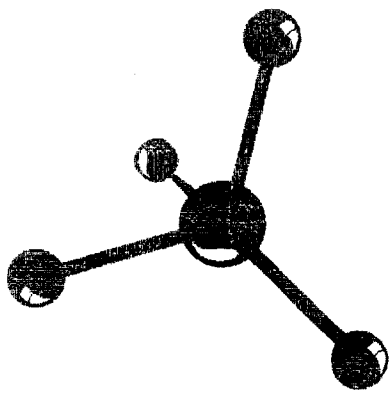
Mr. John Cleary
The Reynolds Group - Tustin
520 West 1st Street
Tustin, CA 92780
RE: TRG101807-11

Enclosed are the results of analyses for samples received by the laboratory on 18-Oct-07 . If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.



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MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-11 Project Number: 7115 Project Manager: Mr. John Cleary	Reported: 30-Oct-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VEW6-25', P135.4L	E710074-01	Vapor	18-Oct-07	18-Oct-07
VEW5-5', P28.1L	E710074-02	Vapor	18-Oct-07	18-Oct-07
VEW5-15', P71.4L	E710074-03	Vapor	18-Oct-07	18-Oct-07
VEW5-25', P114.6L	E710074-04	Vapor	18-Oct-07	18-Oct-07
VEW5-60', P266.1L	E710074-05	Vapor	18-Oct-07	18-Oct-07
Trip Blank	E710074-06	Vapor	18-Oct-07	18-Oct-07

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW6-25', P135.4L (E710074-01) Vapor	**Sampled: 18-Oct-07 Received: 18-Oct-07**								
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	19-Oct-07	EPA TO-15	
Propene	ND	500	ug/m³ Air	"	"	"	"	"	
Dichlorodifluoromethane	ND	500	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
1,3-Butadiene	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Acetone	93000	1000	"	"	"	"	"	"	E
1,1-Dichloroethene	2500	250	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
2-Butanone	180000	250	"	"	"	"	"	"	E
n-Hexane	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Ethyl acetate	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Tetrahydrofuran	690000	250	"	"	"	"	"	"	E
1,1,1-Trichloroethane	440	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
Benzene	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Cyclohexane	ND	250	"	"	"	"	"	"	
n-Heptane	ND	250	"	"	"	"	"	"	
Trichloroethene	9100	250	"	"	"	"	"	"	
1,2-Dichloropropane	ND	250	"	"	"	"	"	"	
1,4-Dioxane	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-11 Project Number: 7115 Project Manager: Mr. John Cleary	Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW6-25', P135.4L (E710074-01) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
Toluene	ND	250	ug/m³ Air	50	EJ72302	19-Oct-07	19-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Dibromochloromethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	8500	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
m,p-Xylene	ND	250	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
o-Xylene	ND	250	"	"	"	"	"	"	
Bromoform	ND	1000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	C-07
4-Ethyltoluene	ND	250	"	"	"	"	"	"	C-07
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	C-07
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
Benzyl chloride	ND	250	"	"	"	"	"	"	C-07
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
1,2,4-Trichlorobenzene	ND	500	"	"	"	"	"	"	C-07
Hexachlorobutadiene	1400	500	"	"	"	"	"	"	C-07, QL-1H
Surrogate: Toluene-d8	*99.2 %*	*80-120*		"	"	"	"		
Surrogate: 4-Bromofluorobenzene	*86.3 %*	*80-120*		"	"	"	"		

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-5', P28.1L (E710074-02) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
Propene	1000	500	ug/m³ Air	"	"	"	"	"	
Dichlorodifluoromethane	ND	500	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
1,3-Butadiene	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Acetone	ND	1000	"	"	"	"	"	"	
1,1-Dichloroethene	3100	250	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	630	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
2-Butanone	3600	250	"	"	"	"	"	"	
n-Hexane	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Ethyl acetate	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Tetrahydrofuran	13000	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	1300	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
Benzene	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Cyclohexane	ND	250	"	"	"	"	"	"	
n-Heptane	ND	250	"	"	"	"	"	"	
Trichloroethene	8200	250	"	"	"	"	"	"	
1,2-Dichloropropane	ND	250	"	"	"	"	"	"	
1,4-Dioxane	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	

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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-11 Project Number: 7115 Project Manager: Mr. John Cleary	Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-5', P28.1L (E710074-02) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
Toluene	ND	250	ug/m³ Air	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Dibromochloromethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	12000	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
m,p-Xylene	ND	250	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
o-Xylene	ND	250	"	"	"	"	"	"	
Bromoform	ND	1000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	C-07
4-Ethyltoluene	ND	250	"	"	"	"	"	"	C-07
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	C-07
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
Benzyl chloride	ND	250	"	"	"	"	"	"	C-07
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
1,2,4-Trichlorobenzene	ND	500	"	"	"	"	"	"	C-07
Hexachlorobutadiene	ND	500	"	"	"	"	"	"	C-07
Surrogate: Toluene-d8		*99.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.5 %*	*80-120*		"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-15', P71.4L (E710074-03) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
Propene	1300	500	ug/m³ Air	"	"	"	"	"	
Dichlorodifluoromethane	ND	500	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
1,3-Butadiene	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Acetone	1100	1000	"	"	"	"	"	"	
1,1-Dichloroethene	7800	250	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	1600	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	360	250	"	"	"	"	"	"	
2-Butanone	660	250	"	"	"	"	"	"	
n-Hexane	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Ethyl acetate	ND	250	"	"	"	"	"	"	
Chloroform	270	250	"	"	"	"	"	"	
Tetrahydrofuran	2200	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	1500	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
Benzene	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Cyclohexane	ND	250	"	"	"	"	"	"	
n-Heptane	ND	250	"	"	"	"	"	"	
Trichloroethene	13000	250	"	"	"	"	"	"	
1,2-Dichloropropane	ND	250	"	"	"	"	"	"	
1,4-Dioxane	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-11 Project Number: 7115 Project Manager: Mr. John Cleary	Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-15', P71.4L (E710074-03) Vapor	**Sampled: 18-Oct-07 Received: 18-Oct-07**								
Toluene	330	250	ug/m³ Air	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Dibromochloromethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	19000	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
m,p-Xylene	ND	250	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
o-Xylene	ND	250	"	"	"	"	"	"	
Bromoform	ND	1000	"	"	"	"	"	"	C-07
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	C-07
4-Ethyltoluene	ND	250	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	C-07
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	C-07
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
Benzyl chloride	ND	250	"	"	"	"	"	"	C-07
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
1,2,4-Trichlorobenzene	580	500	"	"	"	"	"	"	C-07, QL-1H
Hexachlorobutadiene	1500	500	"	"	"	"	"	"	C-07, QL-1H
Surrogate: Toluene-d8		*98.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.9 %*	*80-120*		"	"	"	"	

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-25', P114.6L (E710074-04) Vapor	**Sampled: 18-Oct-07 Received: 18-Oct-07**								
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
Propene	ND	500	ug/m³ Air	"	"	"	"	"	
Dichlorodifluoromethane	ND	500	"	"	"	"	"	"	
Chloromethane	ND	250	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	500	"	"	"	"	"	"	
Vinyl chloride	ND	250	"	"	"	"	"	"	
1,3-Butadiene	ND	250	"	"	"	"	"	"	
Bromomethane	ND	250	"	"	"	"	"	"	
Chloroethane	ND	250	"	"	"	"	"	"	
Trichlorofluoromethane	ND	250	"	"	"	"	"	"	
Acetone	ND	1000	"	"	"	"	"	"	
1,1-Dichloroethene	11000	250	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	1600	500	"	"	"	"	"	"	
Methylene chloride	ND	250	"	"	"	"	"	"	
Carbon disulfide	ND	250	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	250	"	"	"	"	"	"	
Vinyl acetate	ND	250	"	"	"	"	"	"	
1,1-Dichloroethane	ND	250	"	"	"	"	"	"	
2-Butanone	ND	250	"	"	"	"	"	"	
n-Hexane	ND	250	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	250	"	"	"	"	"	"	
Ethyl acetate	ND	250	"	"	"	"	"	"	
Chloroform	ND	250	"	"	"	"	"	"	
Tetrahydrofuran	1200	250	"	"	"	"	"	"	
1,1,1-Trichloroethane	970	250	"	"	"	"	"	"	
1,2-Dichloroethane	ND	250	"	"	"	"	"	"	
Benzene	ND	250	"	"	"	"	"	"	
Carbon tetrachloride	ND	250	"	"	"	"	"	"	
Cyclohexane	ND	250	"	"	"	"	"	"	
n-Heptane	ND	250	"	"	"	"	"	"	
Trichloroethene	17000	250	"	"	"	"	"	"	
1,2-Dichloropropane	ND	250	"	"	"	"	"	"	
1,4-Dioxane	ND	250	"	"	"	"	"	"	
Bromodichloromethane	ND	250	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	250	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	250	"	"	"	"	"	"	

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-11 Project Number: 7115 Project Manager: Mr. John Cleary	Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-25', P114.6L (E710074-04) Vapor	**Sampled: 18-Oct-07 Received: 18-Oct-07**								
Toluene	ND	250	ug/m³ Air	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250	"	"	"	"	"	"	
2-Hexanone	ND	500	"	"	"	"	"	"	
Dibromochloromethane	ND	250	"	"	"	"	"	"	
Tetrachloroethene	16000	250	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	250	"	"	"	"	"	"	
Chlorobenzene	ND	250	"	"	"	"	"	"	
Ethylbenzene	ND	250	"	"	"	"	"	"	
m,p-Xylene	ND	250	"	"	"	"	"	"	
Styrene	ND	250	"	"	"	"	"	"	
o-Xylene	ND	250	"	"	"	"	"	"	
Bromoform	ND	1000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	250	"	"	"	"	"	"	C-07
4-Ethyltoluene	ND	250	"	"	"	"	"	"	C-07
1,3,5-Trimethylbenzene	ND	250	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	250	"	"	"	"	"	"	C-07
1,3-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
Benzyl chloride	ND	250	"	"	"	"	"	"	C-07
1,4-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
1,2-Dichlorobenzene	ND	500	"	"	"	"	"	"	C-07
1,2,4-Trichlorobenzene	ND	500	"	"	"	"	"	"	C-07
Hexachlorobutadiene	ND	500	"	"	"	"	"	"	C-07
Surrogate: Toluene-d8		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.2 %*	*80-120*		"	"	"	"	

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Volatile Organic Compounds by EPA TO-15

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-60', P266.1L (E710074-05) Vapor	**Sampled: 18-Oct-07 Received: 18-Oct-07**								
1,1-Difluoroethane (LCC)	ND	10	ug/l	1000	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
Propene	ND	10000	ug/m³ Air	"	"	"	"	"	
Dichlorodifluoromethane	ND	10000	"	"	"	"	"	"	
Chloromethane	ND	5000	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	10000	"	"	"	"	"	"	
Vinyl chloride	ND	5000	"	"	"	"	"	"	
1,3-Butadiene	ND	5000	"	"	"	"	"	"	
Bromomethane	ND	5000	"	"	"	"	"	"	
Chloroethane	ND	5000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5000	"	"	"	"	"	"	
Acetone	ND	20000	"	"	"	"	"	"	
1,1-Dichloroethene	150000	5000	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	14000	10000	"	"	"	"	"	"	
Methylene chloride	ND	5000	"	"	"	"	"	"	
Carbon disulfide	ND	5000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5000	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5000	"	"	"	"	"	"	
Vinyl acetate	ND	5000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5000	"	"	"	"	"	"	
2-Butanone	ND	5000	"	"	"	"	"	"	
n-Hexane	ND	5000	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5000	"	"	"	"	"	"	
Ethyl acetate	ND	5000	"	"	"	"	"	"	
Chloroform	ND	5000	"	"	"	"	"	"	
Tetrahydrofuran	ND	5000	"	"	"	"	"	"	
1,1,1-Trichloroethane	32000	5000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5000	"	"	"	"	"	"	
Benzene	ND	5000	"	"	"	"	"	"	
Carbon tetrachloride	ND	5000	"	"	"	"	"	"	
Cyclohexane	ND	5000	"	"	"	"	"	"	
n-Heptane	ND	5000	"	"	"	"	"	"	
Trichloroethene	570000	5000	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5000	"	"	"	"	"	"	
1,4-Dioxane	ND	5000	"	"	"	"	"	"	
Bromodichloromethane	ND	5000	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5000	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5000	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5000	"	"	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-11 Project Number: 7115 Project Manager: Mr. John Cleary	Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-60', P266.1L (E710074-05) Vapor	**Sampled: 18-Oct-07 Received: 18-Oct-07**								
Toluene	ND	5000	ug/m³ Air	1000	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	5000	"	"	"	"	"	"	
2-Hexanone	ND	10000	"	"	"	"	"	"	
Dibromochloromethane	ND	5000	"	"	"	"	"	"	
Tetrachloroethene	140000	5000	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5000	"	"	"	"	"	"	
Chlorobenzene	ND	5000	"	"	"	"	"	"	
Ethylbenzene	ND	5000	"	"	"	"	"	"	
m,p-Xylene	ND	5000	"	"	"	"	"	"	
Styrene	ND	5000	"	"	"	"	"	"	
o-Xylene	ND	5000	"	"	"	"	"	"	
Bromoform	ND	20000	"	"	"	"	"	"	C-07
1,1,2,2-Tetrachloroethane	ND	5000	"	"	"	"	"	"	C-07
4-Ethyltoluene	ND	5000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5000	"	"	"	"	"	"	C-07
1,2,4-Trimethylbenzene	ND	5000	"	"	"	"	"	"	C-07
1,3-Dichlorobenzene	ND	10000	"	"	"	"	"	"	C-07
Benzyl chloride	ND	5000	"	"	"	"	"	"	C-07
1,4-Dichlorobenzene	ND	10000	"	"	"	"	"	"	C-07
1,2-Dichlorobenzene	ND	10000	"	"	"	"	"	"	C-07
1,2,4-Trichlorobenzene	ND	10000	"	"	"	"	"	"	C-07
Hexachlorobutadiene	ND	10000	"	"	"	"	"	"	C-07
Surrogate: Toluene-d8		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*77.5 %*	*80-120*		"	"	"	"	*S-04*

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (E710074-06) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EJ72302	19-Oct-07	19-Oct-07	EPA TO-15	
Propene	ND	10	ug/m³ Air	"	"	"	"	"	
Dichlorodifluoromethane	ND	10	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
1,3-Butadiene	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Acetone	ND	20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	10	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	5.0	"	"	"	"	"	"	
n-Hexane	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Ethyl acetate	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	5.0	"	"	"	"	"	"	
n-Heptane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (E710074-06) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
Toluene	ND	5.0	ug/m³ Air	1	EJ72302	19-Oct-07	19-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	20	"	"	"	"	"	"	C-07
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	C-07
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	C-07
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	C-07
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	C-07
Benzyl chloride	ND	5.0	"	"	"	"	"	"	C-07
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	C-07
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	C-07
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	C-07
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	C-07
Surrogate: Toluene-d8		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.7 %*	*80-120*		"	"	"	"	

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ72302 - TO-15										
Blank (EJ72302-BLK1)				Prepared & Analyzed: 19-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Propene	ND	10	ug/m³ Air							
Dichlorodifluoromethane	ND	10	"							
Chloromethane	ND	5.0	"							
Dichlorotetrafluoroethane	ND	10	"							
Vinyl chloride	ND	5.0	"							
1,3-Butadiene	ND	5.0	"							
Bromomethane	ND	5.0	"							
Chloroethane	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
Acetone	ND	20	"							
1,1-Dichloroethene	ND	5.0	"							
1,1,2-Trichlorotrifluoroethane	ND	10	"							
Methylene chloride	ND	5.0	"							
Carbon disulfide	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Vinyl acetate	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
2-Butanone	ND	5.0	"							
n-Hexane	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
Ethyl acetate	ND	5.0	"							
Chloroform	ND	5.0	"							
Tetrahydrofuran	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
Benzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Cyclohexane	ND	5.0	"							
n-Heptane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,4-Dioxane	ND	5.0	"							

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ72302 - TO-15										
Blank (EJ72302-BLK1)				Prepared & Analyzed: 19-Oct-07						
Bromodichloromethane	ND	5.0	ug/m³ Air							
cis-1,3-Dichloropropene	ND	5.0	"							
4-Methyl-2-pentanone	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Toluene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
2-Hexanone	ND	10	"							
Dibromochloromethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
Styrene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Bromoform	ND	20	"							C-07
1,1,2,2-Tetrachloroethane	ND	5.0	"							C-07
4-Ethyltoluene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							C-07
1,2,4-Trimethylbenzene	ND	5.0	"							C-07
1,3-Dichlorobenzene	ND	10	"							C-07
Benzyl chloride	ND	5.0	"							C-07
1,4-Dichlorobenzene	ND	10	"							C-07
1,2-Dichlorobenzene	ND	10	"							C-07
1,2,4-Trichlorobenzene	ND	10	"							C-07
Hexachlorobutadiene	ND	10	"							C-07
Surrogate: Toluene-d8	*95.3*		"	*96.2*		*99.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*165*		"	*182*		*90.7*	*80-120*			

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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ72302 - TO-15										
LCS (EJ72302-BS1)				Prepared & Analyzed: 19-Oct-07						
Propene	38.9	10	ug/m³ Air	35.0		111	65-135			
Dichlorodifluoromethane	121	10	"	101		120	65-135			
Chloromethane	48.0	5.0	"	42.0		114	65-135			
Dichlorotetrafluoroethane	163	10	"	142		115	65-135			
Vinyl chloride	58.0	5.0	"	52.0		112	65-135			
1,3-Butadiene	50.4	5.0	"	44.8		112	65-135			
Bromomethane	88.1	5.0	"	79.2		111	65-135			
Chloroethane	60.3	5.0	"	53.6		112	65-135			
Trichlorofluoromethane	135	5.0	"	113		119	65-135			
Acetone	56.2	20	"	48.4		116	65-135			
1,1-Dichloroethene	98.8	5.0	"	80.8		122	65-135			
1,1,2-Trichlorotrifluoroethane	173	10	"	155		112	65-135			
Methylene chloride	81.9	5.0	"	70.8		116	65-135			
Carbon disulfide	69.2	5.0	"	63.2		109	65-135			
trans-1,2-Dichloroethene	95.1	5.0	"	80.8		118	65-135			
Methyl tert-butyl ether	85.7	5.0	"	73.6		116	65-135			
Vinyl acetate	83.9	5.0	"	72.0		117	65-135			
1,1-Dichloroethane	95.6	5.0	"	82.4		116	65-135			
2-Butanone	69.6	5.0	"	60.0		116	65-135			
n-Hexane	81.4	5.0	"	72.0		113	65-135			
cis-1,2-Dichloroethene	92.0	5.0	"	80.0		115	65-135			
Ethyl acetate	88.5	5.0	"	73.6		120	65-135			
Chloroform	118	5.0	"	99.2		119	65-135			
Tetrahydrofuran	67.7	5.0	"	60.0		113	65-135			
1,1,1-Trichloroethane	136	5.0	"	111		123	65-135			
1,2-Dichloroethane	97.2	5.0	"	82.4		118	65-135			
Benzene	75.2	5.0	"	64.8		116	65-135			
Carbon tetrachloride	154	5.0	"	128		120	65-135			
Cyclohexane	77.6	5.0	"	70.4		110	65-135			
n-Heptane	95.5	5.0	"	83.6		114	65-135			
Trichloroethene	127	5.0	"	110		115	65-135			
1,2-Dichloropropane	109	5.0	"	94.4		115	65-135			
1,4-Dioxane	85.5	5.0	"	73.6		116	65-135			
Bromodichloromethane	160	5.0	"	137		117	65-135			

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ72302 - TO-15										
LCS (EJ72302-BS1)				Prepared & Analyzed: 19-Oct-07						
cis-1,3-Dichloropropene	109	5.0	ug/m³ Air	92.4		118	65-135			
4-Methyl-2-pentanone	99.3	5.0	"	83.2		119	65-135			
trans-1,3-Dichloropropene	112	5.0	"	92.4		121	65-135			
Toluene	89.5	5.0	"	76.8		117	65-135			
1,1,2-Trichloroethane	134	5.0	"	111		121	65-135			
2-Hexanone	98.5	10	"	83.2		118	65-135			
Dibromochloromethane	216	5.0	"	174		124	65-135			
Tetrachloroethene	162	5.0	"	138		117	65-135			
1,2-Dibromoethane (EDB)	195	5.0	"	157		124	65-135			
Chlorobenzene	116	5.0	"	93.6		124	65-135			
Ethylbenzene	109	5.0	"	88.4		123	65-135			
m,p-Xylene	221	5.0	"	177		125	65-135			
Styrene	113	5.0	"	86.8		130	65-135			
o-Xylene	114	5.0	"	88.4		129	65-135			
Bromoform	1230	20	"	840		146	65-135			C-07, QL-1H
1,1,2,2-Tetrachloroethane	220	5.0	"	140		157	65-135			C-07, QL-1H
4-Ethyltoluene	135	5.0	"	100		135	65-135			
1,3,5-Trimethylbenzene	138	5.0	"	100		138	65-135			QL-1H, C-07
1,2,4-Trimethylbenzene	146	5.0	"	100		146	65-135			C-07, QL-1H
1,3-Dichlorobenzene	179	10	"	122		147	65-135			C-07, QL-1H
Benzyl chloride	170	5.0	"	105		162	65-135			QL-1H, C-07
1,4-Dichlorobenzene	192	10	"	122		157	65-135			QL-1H, C-07
1,2-Dichlorobenzene	202	10	"	122		166	65-135			QL-1H, C-07
1,2,4-Trichlorobenzene	280	10	"	151		185	65-135			C-07, QL-1H
Hexachlorobutadiene	335	10	"	218		154	65-135			C-07, QL-1H
Surrogate: Toluene-d8	*95.8*		"	*96.2*		*99.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*182*		"	*182*		*100*	*80-120*			

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin	Project: TRG101807-11	
520 West 1st Street	Project Number: 7115	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	30-Oct-07

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered an estimate only.
QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered an estimate only.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
C-07	The initial calibration curve for this TO-15/TO-14A analyte was not verified by a passing second source standard. Therefore, any result for this analyte should be considered an estimate.
C-07	The initial calibration curve for this TO-15/TO-14A analyte was not verified by a passing second source standard. Therefore, any result for this analyte should be considered an estimate.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

☑ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159

☐ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10/18/07

H&P Project # TRG101807-11

Outside Lab:

Client: TRG [520 west 4th street Tustin CA]

Collector: Dave Balkenbush

Page: 1 of 1

Address: 1551 E. Orangethorpe Ave Fullerton, CA

Client Project # 7115

Project Contact: John Cleary / Christa Wolfe

Location:

Email: Wolfe@reynolds-group.com

Phone: 714-920-7772

Fax: 714-730-6476

Turn around time: Normal

EDF: Yes ☐ No ☐

Global ID:

Sample Receipt
Intact: ☒ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☒ N/A
Cold: ☐ Yes ☒ No
N/A (Received on Site)

Special Instructions:

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) 4 DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2				Total # of containers
VEW6-25'		135.4L	1225	10/18	Vapor	Summa									X		X							1
VEW5-5'		28.1L	1248	10/18	Vapor	Summa									X		X							1
VEW5-15'		71.4L	1304	10/18	Vapor	Summa									X		X							1
VEW5-25'		114.6L	1324	10/18	Vapor	Summa									X		X							1
VEW5-60'		266.1L	1400	10/18	Vapor	Summa									X		X							1
Trip Blank		—	1405	10/18	Vapor	Summa									X		X							1

Relinquished by: (Signature) E. Wolfe	(company) TRG	Received by: (Signature) Dave Balk	(company) H&P	Date: 10/18/07	Time: 1500
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG121207-12 Project Number: 7115 Phase 250 Project Manager: Mr. John Cleary	Reported: 17-Dec-07

Volatile Organic Compounds by EPA TO-15 - Quality Control
H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71403 - TO-15										
LCS (EL71403-BS1)				Prepared & Analyzed: 13-Dec-07						
cis-1,3-Dichloropropene	91.8	5.0	ug/m³ Air	92.4		99.4	65-135			
4-Methyl-2-pentanone	86.8	5.0	"	83.2		104	65-135			
trans-1,3-Dichloropropene	89.9	5.0	"	92.4		97.3	65-135			
Toluene	76.7	5.0	"	76.8		99.9	65-135			
1,1,2-Trichloroethane	109	5.0	"	111		98.2	65-135			
2-Hexanone	81.0	10	"	83.2		97.4	65-135			
Dibromochloromethane	164	5.0	"	174		94.3	65-135			
Tetrachloroethene	136	5.0	"	138		98.6	65-135			
1,2-Dibromoethane (EDB)	147	5.0	"	157		93.6	65-135			
Chlorobenzene	87.8	5.0	"	93.6		93.8	65-135			
Ethylbenzene	81.8	5.0	"	88.4		92.5	65-135			
m,p-Xylene	165	5.0	"	177		93.2	65-135			
Styrene	73.2	5.0	"	86.8		84.3	65-135			
o-Xylene	81.2	5.0	"	88.4		91.9	65-135			
Bromoform	692	20	"	840		82.4	65-135			
1,1,2,2-Tetrachloroethane	95.5	5.0	"	140		68.2	65-135			C-07
4-Ethyltoluene	81.2	5.0	"	100		81.2	65-135			
1,3,5-Trimethylbenzene	81.7	5.0	"	100		81.7	65-135			
1,2,4-Trimethylbenzene	75.0	5.0	"	100		75.0	65-135			
1,3-Dichlorobenzene	83.1	10	"	122		68.1	65-135			C-07
Benzyl chloride	60.3	5.0	"	105		57.4	65-135			C-07, QL-1L
1,4-Dichlorobenzene	81.6	10	"	122		66.9	65-135			C-07
1,2-Dichlorobenzene	70.5	10	"	122		57.8	65-135			C-07, QL-1L
1,2,4-Trichlorobenzene	47.9	10	"	151		31.7	65-135			C-07, QL-1L
Hexachlorobutadiene	119	10	"	218		54.6	65-135			QL-1L, C-07
Surrogate: 1,2-Dichloroethane-d4	*108*		"	*103*		*105*	*80-120*			
Surrogate: Toluene-d8	*93.2*		"	*96.2*		*96.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*176*		"	*182*		*96.7*	*80-120*			

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG121207-12 Project Number: 7115 Phase 250 Project Manager: Mr. John Cleary	Reported: 17-Dec-07

Notes and Definitions

QL-1L	The LCS and/or LCSD recoveries fell below the established control specifications for this analyte. Any result for this compound is qualified and should be considered an estimate only.
C-07	The initial calibration curve for this TO-15/TO-14A analyte was not verified by a passing second source standard. Therefore, any result for this analyte should be considered an estimate.
C-07	The initial calibration curve for this TO-15/TO-14A analyte was not verified by a passing second source standard. Therefore, any result for this analyte should be considered an estimate.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☑ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10/18/07
H&P Project # TRG101807-~~FH~~/SD1
Outside Lab:

Client: The Reynolds Group
Address: 520 West 1st Street
Tustin, CA 92780
Email: wolfe@reynolds-group.com Phone: (714) 730-5397

Collector: Dave Balkenbush Page: 2 of 2
Client Project # 7115 Phase 250 Project Contact: Christa Wolfe
Location: 1551 E. Orangethorpe Ave, Fullerton
Fax: (714) 730-6476 Turn around time:

EDF: Yes☐ No☐
Global ID:

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

	Sample Name	~~Point Name~~ Notes	(cc) Purge Vol	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	6021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB - Low Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) 1,4 DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2	Total # of containers
11	VEW5-5		28.1	12:43	10/18/07	Vapor	Syringe							X			X				1
12	VEW5-15		71.4	12:58										X			X				1
13	VEW5-25		114.6	13:21										X			X				1
14	VEW5-25 DUP		114.7	13:22										X			X				1
15	VEW5-60		266.1	13:53										X			X				1
16	VEW3-5		59.7	14:28										X			X				1
17	VEW3-15		102.9	14:48										X			X				1
18	VEW3-25		146.2	15:05										X			X				1

Relinquished by: (Signature) T. Wolfe	(company) TRG	Received by: (Signature) Daniel J Chavez	(company) H&P	Date: 10/18/07	Time: 1930
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☑ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

E710067
CJ71803

Date: 10/18/07
H&P Project # TRG101807-~~14~~/SB1
Outside Lab:

Client: The Reynolds Group
Address: 520 West 1st Street
Tustin, CA 92780
Email: wolfe@reynolds-group.com Phone: (714) 730-5397

Collector: Dave Balkenbush Page: 1 of 2
Client Project # 7115 Phase 250 Project Contact: Christa Wolfe
Location: 1551 E. Orangethorpe Ave., Fullerton
Fax: (714) 730-6476 Turn around time: on site

EDF: Yes ☐ No ☐
Global ID:

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

	Sample Name	Notes ~~Field Point Name~~	L (~~cc~~) Purge Vol	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B BTEX / Oxygenates	8260B TPH gas	8260B VOC's	8260B DTSC/LARWQCB → LOW	8260B Ketones	TO-15 Full List	TO-15 BTEX/MTBE	LCC (specify) 1,1-DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2				Total # of containers
01	VEW12-5		58.4	8:38	10/18/07	Vapor	Syringe							X				X							1
02	VEW12-15		101.7	9:02	↓	↓	↓							X				X							1
03	VEW12-25		144.9	9:35	↓	↓	↓							X				X							1
04	VEW12-60		296.3	10:08	↓	↓	↓							X				X							1
05	VEW9-5		28.1	10:29	↓	↓	↓							X				X							1
06	VEW9-15		71.4	10:54	↓	↓	↓							X				X							1
07	VEW9-25		114.6	11:14	↓	↓	↓							X				X							1
08	VEW6-5	Do Not Report	48.9	11:31	↓	↓	↓							X				X							1
09	VEW6-15	Valve left open	92.1	11:53	↓	↓	↓							X				X							1
10	VEW6-25		135.4	12:18	↓	↓	↓							X				X							1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
C. Wolfe	TRG	Daniel J Chávez	H+P	10/18/07	1530
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG100907-L4 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 16-Oct-07

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

MOBILE GEOCHEMISTRY

H&P

EJ70901

Chain of Custody Record

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☐ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10-9-07
H&P Project # TRG100907-L4
Outside Lab:

Client: The Reynolds Group
Address: 520 West 1st Street
Tustin, CA 92780
Email: wolfe@reynolds-group.com Phone: 714-730-5397

Collector: Cherita / Mark L
Page: 1 of 2
Client Project # 7115 Phase 250
Project Contact: John Cleary/Christa Wolfe
Location: 1551 E. Orangethorpe Ave.
Fax: 714-730-6476
Turn around time:

EDF: Yes ☐ No ☐
Global ID:

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

Sample Name	~~Field Point Name~~	Purge Vol	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB Low Level	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) 1,1 DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO2 ☐ O2 ☐ N2				Total # of containers
SV-35 1PV	15ft	81cc	9:02	10-9-07	Vapor	60cc Syringe							X				X							1
SV-35 3PV	15ft	223cc	9:04	↓	↓	↓							X				X							1
SV-35 7PV	15ft	507cc	9:07	↓	↓	↓							X				X							1
SV-34-15	15ft 507cc	~~497cc~~ CS	10:30	↓	↓	↓							X				X							1
SV-33-5	5ft	497cc	1040	↓	↓	↓							X				X							1
SV-33-15	15ft	507cc	1045	↓	↓	↓							X				X							1
SV-32-5		497cc	1118	↓	↓	↓							X				X							1
SV-32-15		507cc	1145	↓	↓	↓							X				X							1
SV-30-5		497cc	1215	↓	↓	↓							X				X							1
SV-30-15		507cc	1226	↓	↓	↓							X				X							1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Wolfe	TRG	Cherita Lowe	H&P	10-9-07	15:05

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

Holding Times: Holding times are carefully monitored by H&P MOBILE **GEO**CHEMISTRY (H&P) since this is a vital part of quality control procedures H&P will make every effort to perform analysis within the applicable holding times established by the EPA or equivalent methodology. However, samples and sample integrity are ultimately the responsibility of the client. H&P reserves the right to apply rush analysis surcharges to prices in order to meet holding time constraints.

Sample Archiving: H&P retains all samples received for a period of one month, including samples designated as "hold". Upon specific written request of the client, samples may be held for a defined period beyond one month. H&P reserves the right to charge for the extended holding of samples.

Hazardous Samples: Hazardous or difficult to dispose samples may be returned to the client. All samples received by H&P are subject to a per sample disposal fee.

Reporting Results: Analyses are reported in wet weight values. Dry weight values may be obtained when moisture content analysis is performed at an additional cost.

Payment Terms: Standard credit terms are net 30 days, and are independent of when clients are compensated. H&P reserves the right to require payment in advance until a credit application has been approved. Credit limits may at any time be increased or decreased, based upon payment history. Accounts over 30 days are subject to 1.5% per month interest (18% per annum). Delinquent accounts are liable for legal costs and fees incurred by H&P in its efforts to collect outstanding balances.

Sample Collection: H&P does not accept any liability with regard to the collection, preservation technique, or transportation method of samples by clients.

Limit of Liability: H&P strives to perform all services in accordance with the local standard of care in the geographic region at the time the services are rendered. Clients should recognize that all samples and sampling events are unique, and that not all samples can be successfully analyzed by generally accepted methods. If analysis proves unsuccessful, the total liability of H&P shall not exceed three times the invoiced amount for the services provided. This limit of liability shall supercede all clauses to the contrary, implied or otherwise, in any client purchase order or contract, unless different terms are authorized in advanced in writing by an officer of H&P.

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

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☐ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10-9-07

H&P Project # TRG100907-LA

Outside Lab: _____

Client: The Reynolds Group

Address: 520 West 1st Street, Tustin, CA. 92780

Email: wolfe@reynolds-group.com Phone: 714-730-5397

Collector: Cherita / Mark L

Client Project # 7115 Phase 250

Location: 1551 E. Orangethorpe Ave

Fax: 714-730-6476

Page: 2 of 2

Project Contact: John Cleary

Turn around time: _____

EDF: Yes ☐ No ☐

Global ID: _____

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB LOW	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) 1,1 DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2				Total # of containers
SV-31-5		497cc	1240	10-9-07	Vapor	60cc Syringe							X				X							1
SV-31-15		507cc	1245	↓	↓	↓							X				X							1
SV-31-15 Dup		561cc	1247	↓	↓	↓							X				X							1
~~SV-34-05~~																								

Relinquished by: (Signature) L. Wolfe	(company) TRG	Received by: (Signature)	(company) H&P	Date: 10-9-07	Time: 1310
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

Holding Times: Holding times are carefully monitored by H&P MOBILE **GEO**CHEMISTRY (H&P) since this is a vital part of quality control procedures H&P will make every effort to perform analysis within the applicable holding times established by the EPA or equivalent methodology. However, samples and sample integrity are ultimately the responsibility of the client. H&P reserves the right to apply rush analysis surcharges to prices in order to meet holding time constraints.

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Reporting Results: Analyses are reported in wet weight values. Dry weight values may be obtained when moisture content analysis is performed at an additional cost.

Payment Terms: Standard credit terms are net 30 days, and are independent of when clients are compensated. H&P reserves the right to require payment in advance until a credit application has been approved. Credit limits may at any time be increased or decreased, based upon payment history. Accounts over 30 days are subject to 1.5% per month interest (18% per annum). Delinquent accounts are liable for legal costs and fees incurred by H&P in its efforts to collect outstanding balances.

Sample Collection: H&P does not accept any liability with regard to the collection, preservation technique, or transportation method of samples by clients.

Limit of Liability: H&P strives to perform all services in accordance with the local standard of care in the geographic region at the time the services are rendered. Clients should recognize that all samples and sampling events are unique, and that not all samples can be successfully analyzed by generally accepted methods. If analysis proves unsuccessful, the total liability of H&P shall not exceed three times the invoiced amount for the services provided. This limit of liability shall supercede all clauses to the contrary, implied or otherwise, in any client purchase order or contract, unless different terms are authorized in advanced in writing by an officer of H&P.

MOBILE GEOCHEMISTRY

H&P

EJ71001

Chain of Custody Record

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10-10-07
H&P Project # TRG100907-L4
Outside Lab:

Client: The Reynolds Group
Address: 520 West 1st Street
Tustin, CA 92780
Email: wolfee@reynolds-group.com Phone: 714-730-5397

Collector: Cherita / Mark L
Client Project # 7115 Phase 250 Project Contact: Christa Wolfe
Location: 1551 E. Orangethorpe Ave
Fax: 714-730-6476 Turn around time:

Page: 1 of 2

EDF: Yes ☐ No ☐
Global ID:

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:
SV-24-5
SV-28-15 (SV-28-15) } could not collect any sample through probe. Tight draw.
SV-26-5

	Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB Low	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) 1,1 DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2				Total # of containers
1	SV-25-5		497cc	9:45AM	10-10-07	Vapor	60cc syringe							X				X							1
2	SV-25-15		507cc	9:48AM										X				X							1
3	SV-24-15		507cc	9:51AM										X				X							1
4	SV-27-5		497cc	10:57AM										X				X							1
5	SV-27-15		507cc	10:59AM										X				X							1
6	~~SV-24-5~~		~~497cc~~	~~11:14A~~										X				X							1
10	SV-28-5		497cc	12:15p										X				X							1
7	SV-26-15		507cc	12:30pm										X				X							1
8	SV-29-5		497cc	1315										X				X							1
9	SV-29-15		507cc	1320										X				X							1

Relinquished by: (Signature)	(company) TRG	Received by: (Signature)	(company) H&P Mobile Geo	Date: 10-10-07	Time: 14:40
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

Holding Times: Holding times are carefully monitored by H&P MOBILE **GEO**CHEMISTRY (H&P) since this is a vital part of quality control procedures H&P will make every effort to perform analysis within the applicable holding times established by the EPA or equivalent methodology. However, samples and sample integrity are ultimately the responsibility of the client. H&P reserves the right to apply rush analysis surcharges to prices in order to meet holding time constraints.

Sample Archiving: H&P retains all samples received for a period of one month, including samples designated as "hold". Upon specific written request of the client, samples may be held for a defined period beyond one month. H&P reserves the right to charge for the extended holding of samples.

Hazardous Samples: Hazardous or difficult to dispose samples may be returned to the client. All samples received by H&P are subject to a per sample disposal fee.

Reporting Results: Analyses are reported in wet weight values. Dry weight values may be obtained when moisture content analysis is performed at an additional cost.

Payment Terms: Standard credit terms are net 30 days, and are independent of when clients are compensated. H&P reserves the right to require payment in advance until a credit application has been approved. Credit limits may at any time be increased or decreased, based upon payment history. Accounts over 30 days are subject to 1.5% per month interest (18% per annum). Delinquent accounts are liable for legal costs and fees incurred by H&P in its efforts to collect outstanding balances.

Sample Collection: H&P does not accept any liability with regard to the collection, preservation technique, or transportation method of samples by clients.

Limit of Liability: H&P strives to perform all services in accordance with the local standard of care in the geographic region at the time the services are rendered. Clients should recognize that all samples and sampling events are unique, and that not all samples can be successfully analyzed by generally accepted methods. If analysis proves unsuccessful, the total liability of H&P shall not exceed three times the invoiced amount for the services provided. This limit of liability shall supercede all clauses to the contrary, implied or otherwise, in any client purchase order or contract, unless different terms are authorized in advanced in writing by an officer of H&P.

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159

☐ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10-10-07

H&P Project # TRG100907-24

Outside Lab: _____

Client: The Reynolds Group

Address: 520 West 1st Street
Tustin, CA 92780

Email: wolfe@reynolds-group.com Phone: 714-730-5397

Collector: Cherita / Markh

Client Project # 7115 Phase 250

Location: 1551 E. Orangethorpe Ave

Fax: 714-730-6476

Page: 2 of 2

Project Contact: Christa Wolfe

Turn around time: _____

EDF: Yes☐ No☐

Global ID: _____

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

SV-24-5 } could not collect any
SV-28-15 } sample through probe.
SV-26-5 } Tight draw.

Sample Name	Field Point Name	Purge Vol	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify)	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2				Total # of containers
SV-29-5 Dup	55"cc	44"cc	1350	10-10-07	Vapor	60 cc Syringe							X				X							1

Relinquished by: (Signature)	(company)	Received by: (Signature) Cherita Smith	H&P Mobile GeoChemistry (company)	Date: 10-10-07	Time: 14:40
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

Holding Times: Holding times are carefully monitored by H&P MOBILE **GEO**CHEMISTRY (H&P) since this is a vital part of quality control procedures H&P will make every effort to perform analysis within the applicable holding times established by the EPA or equivalent methodology. However, samples and sample integrity are ultimately the responsibility of the client. H&P reserves the right to apply rush analysis surcharges to prices in order to meet holding time constraints.

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MOBILE GEOCHEMISTRY

H&P

25 October 2007

Ms. Christa Wolfe
The Reynolds Group - Tustin
520 West 1st Street
Tustin, CA 92780
RE: TRG101807-SB1

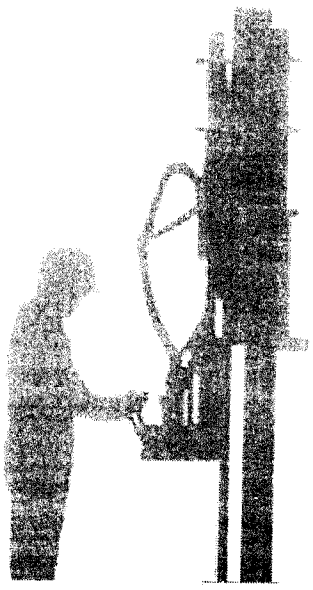
Enclosed are the results of analyses for samples received by the laboratory on 18-Oct-07 . If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.



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MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VEW12-5, P58.4L	E710067-01	Vapor	18-Oct-07	18-Oct-07
VEW12-15, P101.7L	E710067-02	Vapor	18-Oct-07	18-Oct-07
VEW12-25, P144.9L	E710067-03	Vapor	18-Oct-07	18-Oct-07
VEW12-60, P296.3L	E710067-04	Vapor	18-Oct-07	18-Oct-07
VEW9-5, P28.1L	E710067-05	Vapor	18-Oct-07	18-Oct-07
VEW9-15, P71.4L	E710067-06	Vapor	18-Oct-07	18-Oct-07
VEW9-25, P114.6L	E710067-07	Vapor	18-Oct-07	18-Oct-07
VEW5-5, P28.1L	E710067-11	Vapor	18-Oct-07	18-Oct-07
VEW5-15, P71.4L	E710067-12	Vapor	18-Oct-07	18-Oct-07
VEW5-25, P114.6L	E710067-13	Vapor	18-Oct-07	18-Oct-07
VEW5-25DUP, P114.7L	E710067-14	Vapor	18-Oct-07	18-Oct-07
VEW5-60, P266.1L	E710067-15	Vapor	18-Oct-07	18-Oct-07
VEW3-5, P59.7L	E710067-16	Vapor	18-Oct-07	18-Oct-07
VEW3-15, P102.9L	E710067-17	Vapor	18-Oct-07	18-Oct-07
VEW3-25, P146.2L	E710067-18	Vapor	18-Oct-07	18-Oct-07

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW12-5, P58.4L (E710067-01) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	120	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	4.2	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	2.4	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.9	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	13	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	64	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	30	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*94.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG101807-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW12-15, P101.7L (E710067-02) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	9.8	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.2	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	ND	0.1	"	"	"	"	"	"	
Trichloroethene	8.2	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	3.1	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.6 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*94.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.6 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW12-25, P144.9L (E710067-03) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	210	5.0	"	0.5	"	"	"	"	
Methylene chloride	ND	0.5	"	0.05	"	"	"	"	
Freon 113	7.3	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	4.2	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	0.5	0.5	"	"	"	"	"	"	
Chloroform	1.6	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	21	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	110	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	56	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*98.4 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*103 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG101807-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW12-60, P296.3L (E710067-04) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	9.0	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.1	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	3.9	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	43	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	10	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*115 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*107 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin	Project: TRG101807-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW9-5, P28.1L (E710067-05) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	42	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.6	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.4	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.8	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	3.4	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	43	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	39	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92.8 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*87.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG101807-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW9-15, P71.4L (E710067-06) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	170	5.0	"	0.5	"	"	"	"	
Methylene chloride	ND	0.5	"	0.05	"	"	"	"	
Freon 113	1.8	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	5.2	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	0.8	0.5	"	"	"	"	"	"	
Chloroform	2.6	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	11	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	4.4	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	130	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	1.6	0.5	"	"	"	"	"	"	
Tetrachloroethene	89	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*92.8 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW9-25, P114.6L (E710067-07) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	61	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.9	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	1.0	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	5.0	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	0.7	0.1	"	"	"	"	"	"	
Benzene	ND	0.1	"	"	"	"	"	"	
Trichloroethene	69	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	64	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*95.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-5, P28.1L (E710067-11) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	3.8	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.6	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	13	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	23	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.4 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.0 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-15, P71.4L (E710067-12) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	6.0	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	1.3	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	14	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	19	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*108 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.6 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-25, P114.6L (E710067-13) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	13	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.1	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	0.8	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	ND	0.1	"	"	"	"	"	"	
Trichloroethene	8.7	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	12	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*101 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.0 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*93.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.6 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-25DUP, P114.7L (E710067-14) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	4.9	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	ND	0.1	"	"	"	"	"	"	
Trichloroethene	3.2	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	4.2	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*107 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*103 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*96.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.2 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin	Project: TRG101807-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-60, P266.1L (E710067-15) Vapor	**Sampled: 18-Oct-07**	**Received: 18-Oct-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	170	5.0	"	0.5	"	"	"	"	
Methylene chloride	ND	0.5	"	0.05	"	"	"	"	
Freon 113	15	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	3.3	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.1	0.5	"	"	"	"	"	"	
Chloroform	1.1	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	34	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.9	0.1	"	"	"	"	"	"	
Trichloroethene	550	1.0	"	0.5	"	"	"	"	
Toluene	ND	1.0	"	0.05	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	170	1.0	"	0.5	"	"	"	"	
Ethylbenzene	ND	1.0	"	0.05	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*98.8 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*88.4 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW3-5, P59.7L (E710067-16) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	6.6	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.3	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	7.7	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	ND	0.1	"	"	"	"	"	"	
Trichloroethene	29	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	24	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*88.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.4 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW3-15, P102.9L (E710067-17) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	74	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	3.5	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	3.2	0.5	"	"	"	"	"	"	
Chloroform	2.0	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	29	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	0.7	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	140	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	240	1.0	"	0.5	"	"	"	"	
Ethylbenzene	ND	1.0	"	0.05	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*92.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG101807-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW3-25, P146.2L (E710067-18) Vapor Sampled: 18-Oct-07 Received: 18-Oct-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	83	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	3.6	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	3.5	0.5	"	"	"	"	"	"	
Chloroform	1.9	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	26	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	1.0	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	120	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	210	1.0	"	0.5	"	"	"	"	
Ethylbenzene	ND	1.0	"	0.05	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*97.2 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*91.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ71803 - EPA 5030										
Blank (EJ71803-BLK1)				Prepared & Analyzed: 18-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	"							
Vinyl chloride	ND	0.1	"							
Chloroethane	ND	0.5	"							
Trichlorofluoromethane	ND	0.5	"							
1,1-Dichloroethene	ND	0.5	"							
Methylene chloride	ND	0.5	"							
Freon 113	ND	0.5	"							
trans-1,2-Dichloroethene	ND	0.5	"							
1,1-Dichloroethane	ND	0.5	"							
cis-1,2-Dichloroethene	ND	0.5	"							
Chloroform	ND	0.1	"							
1,1,1-Trichloroethane	ND	0.5	"							
Carbon tetrachloride	ND	0.1	"							
1,2-Dichloroethane	ND	0.1	"							
Benzene	ND	0.1	"							
Trichloroethene	ND	0.1	"							
Toluene	ND	1.0	"							
1,1,2-Trichloroethane	ND	0.5	"							
Tetrachloroethene	ND	0.1	"							
Ethylbenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	0.5	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	0.5	"							
Surrogate: Dibromofluoromethane	*2.46*		"	*2.50*		*98.4*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.32*		"	*2.50*		*92.8*	*75-125*			
Surrogate: Toluene-d8	*2.30*		"	*2.50*		*92.0*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.43*		"	*2.50*		*97.2*	*75-125*			

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG101807-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 25-Oct-07

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Holding Times: Holding times are carefully monitored by H&P MOBILE **GEO**CHEMISTRY (H&P) since this is a vital part of quality control procedures H&P will make every effort to perform analysis within the applicable holding times established by the EPA or equivalent methodology. However, samples and sample integrity are ultimately the responsibility of the client. H&P reserves the right to apply rush analysis surcharges to prices in order to meet holding time constraints.

Sample Archiving: H&P retains all samples received for a period of one month, including samples designated as "hold". Upon specific written request of the client, samples may be held for a defined period beyond one month. H&P reserves the right to charge for the extended holding of samples.

Hazardous Samples: Hazardous or difficult to dispose samples may be returned to the client. All samples received by H&P are subject to a per sample disposal fee.

Reporting Results: Analyses are reported in wet weight values. Dry weight values may be obtained when moisture content analysis is performed at an additional cost.

Payment Terms: Standard credit terms are net 30 days, and are independent of when clients are compensated. H&P reserves the right to require payment in advance until a credit application has been approved. Credit limits may at any time be increased or decreased, based upon payment history. Accounts over 30 days are subject to 1.5% per month interest (18% per annum). Delinquent accounts are liable for legal costs and fees incurred by H&P in its efforts to collect outstanding balances.

Sample Collection: H&P does not accept any liability with regard to the collection, preservation technique, or transportation method of samples by clients.

Limit of Liability: H&P strives to perform all services in accordance with the local standard of care in the geographic region at the time the services are rendered. Clients should recognize that all samples and sampling events are unique, and that not all samples can be successfully analyzed by generally accepted methods. If analysis proves unsuccessful, the total liability of H&P shall not exceed three times the invoiced amount for the services provided. This limit of liability shall supercede all clauses to the contrary, implied or otherwise, in any client purchase order or contract, unless different terms are authorized in advanced in writing by an officer of H&P.

MOBILE GEOCHEMISTRY

H&P

14 November 2007

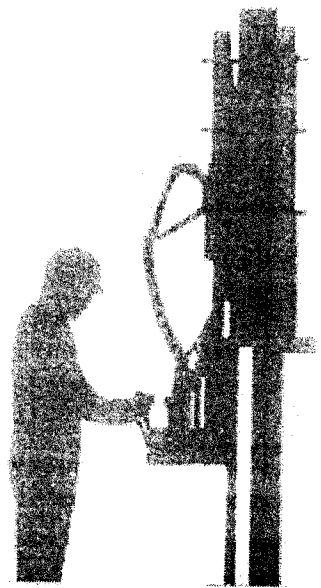
Ms. Christa Wolfe
The Reynolds Group - Tustin
520 West 1st Street
Tustin, CA 92780
RE: TRG110707-SB1

Enclosed are the results of analyses for samples received by the laboratory on 07-Nov-07 . If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.



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MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG110707-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	14-Nov-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VEW6-5, P48.9L	E711030-01	Vapor	07-Nov-07	07-Nov-07
VEW6-15, P92.1L	E711030-02	Vapor	07-Nov-07	07-Nov-07
VEW6-25, P135.4L	E711030-03	Vapor	07-Nov-07	07-Nov-07
VEW4-5, P45.4L	E711030-04	Vapor	07-Nov-07	07-Nov-07
VEW4-15, P88.7L	E711030-05	Vapor	07-Nov-07	07-Nov-07
VEW4-15DUP, P88.7L	E711030-06	Vapor	07-Nov-07	07-Nov-07
VEW4-25, P131.9L	E711030-07	Vapor	07-Nov-07	07-Nov-07
PW1-5, P21.6L	E711030-08	Vapor	07-Nov-07	07-Nov-07
PW1-15, P64.9L	E711030-09	Vapor	07-Nov-07	07-Nov-07
PW1-25, P108.2L	E711030-10	Vapor	07-Nov-07	07-Nov-07
PW1-60, P259.6L	E711030-11	Vapor	07-Nov-07	07-Nov-07

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG110707-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW6-5, P48.9L (E711030-01) Vapor Sampled: 07-Nov-07 Received: 07-Nov-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	ND	0.1	"	"	"	"	"	"	
Trichloroethene	3.1	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	3.7	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.2 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*95.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG110707-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW6-15, P92.1L (E711030-02) Vapor	**Sampled: 07-Nov-07**	**Received: 07-Nov-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	17	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	2.3	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	0.6	0.5	"	"	"	"	"	"	
Chloroform	1.9	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	7.3	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	1.4	0.1	"	"	"	"	"	"	
Benzene	ND	0.1	"	"	"	"	"	"	
Trichloroethene	110	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	2.7	0.5	"	"	"	"	"	"	
Tetrachloroethene	110	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*112 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*123 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin	Project: TRG110707-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW6-25, P135.4L (E711030-03) Vapor Sampled: 07-Nov-07 Received: 07-Nov-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	250	5.0	"	0.5	"	"	"	"	
Methylene chloride	ND	0.5	"	0.05	"	"	"	"	
Freon 113	2.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	12	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	2.5	0.5	"	"	"	"	"	"	
Chloroform	7.3	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	43	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	13	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	370	1.0	"	0.5	"	"	"	"	
Toluene	ND	1.0	"	0.05	"	"	"	"	
1,1,2-Trichloroethane	6.7	0.5	"	"	"	"	"	"	
Tetrachloroethene	320	1.0	"	0.5	"	"	"	"	
Ethylbenzene	ND	1.0	"	0.05	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*119 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG110707-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW4-5, P45.4L (E711030-04) Vapor	**Sampled: 07-Nov-07**	**Received: 07-Nov-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	1.7	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	ND	0.1	"	"	"	"	"	"	
Trichloroethene	17	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	21	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*124 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG110707-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW4-15, P88.7L (E711030-05) Vapor Sampled: 07-Nov-07 Received: 07-Nov-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	86	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	1.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	2.0	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.0	0.5	"	"	"	"	"	"	
Chloroform	1.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	5.8	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	150	1.0	"	0.5	"	"	"	"	
Toluene	ND	1.0	"	0.05	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	380	1.0	"	0.5	"	"	"	"	
Ethylbenzene	ND	1.0	"	0.05	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*110 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*125 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*101 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG110707-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW4-15DUP, P88.7L (E711030-06) Vapor Sampled: 07-Nov-07 Received: 07-Nov-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	73	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	1.5	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.6	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	0.9	0.5	"	"	"	"	"	"	
Chloroform	0.9	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	4.7	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	140	1.0	"	0.5	"	"	"	"	
Toluene	ND	1.0	"	0.05	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	360	1.0	"	0.5	"	"	"	"	
Ethylbenzene	ND	1.0	"	0.05	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*121 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*109 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin	Project: TRG110707-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW4-25, P131.9L (E711030-07) Vapor Sampled: 07-Nov-07 Received: 07-Nov-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	160	5.0	"	0.5	"	"	"	"	
Methylene chloride	ND	0.5	"	0.05	"	"	"	"	
Freon 113	2.2	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	2.8	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.5	0.5	"	"	"	"	"	"	
Chloroform	1.5	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	5.8	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	180	1.0	"	0.5	"	"	"	"	
Toluene	ND	1.0	"	0.05	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	470	1.0	"	0.5	"	"	"	"	
Ethylbenzene	ND	1.0	"	0.05	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*113 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*122 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*104 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG110707-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW1-5, P21.6L (E711030-08) Vapor Sampled: 07-Nov-07 Received: 07-Nov-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	1.1	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	ND	0.1	"	"	"	"	"	"	
Trichloroethene	6.1	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	31	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*125 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*102 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY
H&P

The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780	Project: TRG110707-SB1 Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe	Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW1-15, P64.9L (E711030-09) Vapor Sampled: 07-Nov-07 Received: 07-Nov-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	ND	0.1	"	"	"	"	"	"	
Trichloroethene	1.5	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	21	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*111 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*116 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*96.8 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.8 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG110707-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW1-25, P108.2L (E711030-10) Vapor Sampled: 07-Nov-07 Received: 07-Nov-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	55	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	9.5	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	32	0.5	"	"	"	"	"	"	
Chloroform	1.2	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	3.8	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	140	10	"	5	"	"	"	"	
Toluene	ND	1.0	"	0.05	"	"	"	"	
1,1,2-Trichloroethane	0.6	0.5	"	"	"	"	"	"	
Tetrachloroethene	4200	10	"	5	"	"	"	"	
Ethylbenzene	ND	1.0	"	0.05	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*103 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*110 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*93.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.8 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG110707-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW1-60, P259.6L (E711030-11) Vapor Sampled: 07-Nov-07 Received: 07-Nov-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	39	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	3.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	1.1	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	0.4	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	5.4	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	220	1.0	"	0.5	"	"	"	"	
Toluene	ND	1.0	"	0.05	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	70	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*102 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*119 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG110707-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	14-Nov-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK70701 - EPA 5030										
Blank (EK70701-BLK1)				Prepared & Analyzed: 07-Nov-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	"							
Vinyl chloride	ND	0.1	"							
Chloroethane	ND	0.5	"							
Trichlorofluoromethane	ND	0.5	"							
1,1-Dichloroethene	ND	0.5	"							
Methylene chloride	ND	0.5	"							
Freon 113	ND	0.5	"							
trans-1,2-Dichloroethene	ND	0.5	"							
1,1-Dichloroethane	ND	0.5	"							
cis-1,2-Dichloroethene	ND	0.5	"							
Chloroform	ND	0.1	"							
1,1,1-Trichloroethane	ND	0.5	"							
Carbon tetrachloride	ND	0.1	"							
1,2-Dichloroethane	ND	0.1	"							
Benzene	ND	0.1	"							
Trichloroethene	ND	0.1	"							
Toluene	ND	1.0	"							
1,1,2-Trichloroethane	ND	0.5	"							
Tetrachloroethene	ND	0.1	"							
Ethylbenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	0.5	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	0.5	"							
Surrogate: Dibromofluoromethane	*2.57*		"	*2.50*		*103*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.78*		"	*2.50*		*111*	*75-125*			
Surrogate: Toluene-d8	*2.41*		"	*2.50*		*96.4*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.44*		"	*2.50*		*97.6*	*75-125*			

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG110707-SB1	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Ms. Christa Wolfe	14-Nov-07

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

MOBILE GEOCHEMISTRY

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RECEIVED 7115

CF

18 December 2007

Mr. John Cleary
The Reynolds Group - Tustin
520 West 1st Street
Tustin, CA 92780
RE: TRG121007-SB1

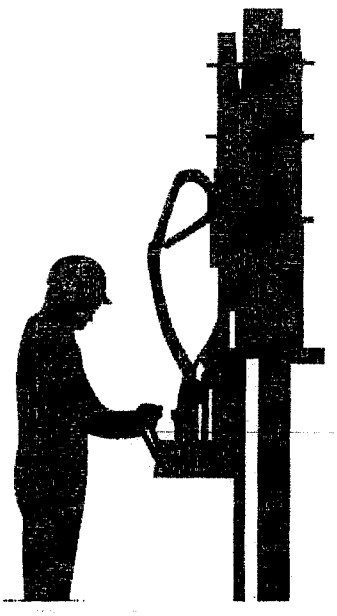
Enclosed are the results of analyses for samples received by the laboratory on 12/10/2007-12/11/2007. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for

Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.



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MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW3-60, P259L	E712025-01	Vapor	10-Dec-07	10-Dec-07
PW3-25, P108L	E712025-02	Vapor	10-Dec-07	10-Dec-07
PW3-15, P64.9L	E712025-03	Vapor	10-Dec-07	10-Dec-07
PW3-5, P21.6L	E712025-04	Vapor	10-Dec-07	10-Dec-07
PW3-5DUP, P21.6L	E712025-05	Vapor	10-Dec-07	10-Dec-07
PW2-60, P259L	E712025-06	Vapor	10-Dec-07	10-Dec-07
PW2-5, P21.6L	E712033-01	Vapor	11-Dec-07	11-Dec-07
PW2-5DUP, P21.6L	E712033-02	Vapor	11-Dec-07	11-Dec-07
PW2-15, P64.9L	E712033-03	Vapor	11-Dec-07	11-Dec-07
PW2-25, P108L	E712033-04	Vapor	11-Dec-07	11-Dec-07

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-60, P259L (E712025-01) Vapor	**Sampled: 10-Dec-07**	**Received: 10-Dec-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	ND	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	ND	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*105 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*109 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.4 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-25, P108L (E712025-02) Vapor	**Sampled: 10-Dec-07**	**Received: 10-Dec-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	1.6	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	1.0	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	2.2	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	17	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99.2 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*92.8 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-15, P64.9L (E712025-03) Vapor	**Sampled: 10-Dec-07**	**Received: 10-Dec-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	1.9	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	2.2	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	1.0	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	1.4	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*91.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.8 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-15, P64.9L (E712025-03) Vapor	**Sampled: 10-Dec-07**	**Received: 10-Dec-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	1.9	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	2.2	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	1.0	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	1.4	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*91.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.8 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-5, P21.6L (E712025-04) Vapor	**Sampled: 10-Dec-07**	**Received: 10-Dec-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	0.6	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.7	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	1.7	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	3.8	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-5, P21.6L (E712025-04) Vapor	**Sampled: 10-Dec-07**	**Received: 10-Dec-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	0.6	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.7	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	1.7	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	3.8	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-5DUP, P21.6L (E712025-05) Vapor	**Sampled: 10-Dec-07**	**Received: 10-Dec-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	0.7	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	0.9	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	1.7	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	4.3	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*106 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*105 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*92.4 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-60 P259L (E712025-06) Vapor Sampled: 10-Dec-07 Received: 10-Dec-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	100	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	14	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	2.0	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	0.8	0.5	"	"	"	"	"	"	
Chloroform	0.4	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	4.5	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.7	0.1	"	"	"	"	"	"	
Trichloroethene	370	1.0	"	0.5	"	"	"	"	
Toluene	ND	1.0	"	0.05	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	75	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*88.4 %*		*75-125*	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*95.2 %*		*75-125*	"	"	"	"	
Surrogate: Toluene-d8		*93.6 %*		*75-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.0 %*		*75-125*	"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-5, P21.6L (E712033-01) Vapor Sampled: 11-Dec-07 Received: 11-Dec-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71101	11-Dec-07	11-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	2.5	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	8.9	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	2.0	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*90.0 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*100 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*103 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-5DUP, P21.6L (E712033-02) Vapor	**Sampled: 11-Dec-07 Received: 11-Dec-07**								
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71101	11-Dec-07	11-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	2.5	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	ND	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	ND	0.1	"	"	"	"	"	"	
Trichloroethene	7.2	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	1.5	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*108 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*97.2 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.4 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-15, P64.9L (E712033-03) Vapor	**Sampled: 11-Dec-07**	**Received: 11-Dec-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71101	11-Dec-07	11-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	6.2	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	1.4	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	1.1	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.1	0.1	"	"	"	"	"	"	
Trichloroethene	12	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	6.2	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*104 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*92.4 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.4 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-25, P108L (E712033-04) Vapor Sampled: 11-Dec-07 Received: 11-Dec-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71101	11-Dec-07	11-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	"	"	"	"	
Vinyl chloride	ND	0.1	"	"	"	"	"	"	
Chloroethane	ND	0.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethene	20	0.5	"	"	"	"	"	"	
Methylene chloride	ND	0.5	"	"	"	"	"	"	
Freon 113	1.3	0.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	0.6	0.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	5.7	0.5	"	"	"	"	"	"	
Chloroform	ND	0.1	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.1	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.1	"	"	"	"	"	"	
Benzene	0.2	0.1	"	"	"	"	"	"	
Trichloroethene	19	0.1	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.5	"	"	"	"	"	"	
Tetrachloroethene	37	0.1	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*99.6 %*	*75-125*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*106 %*	*75-125*		"	"	"	"	
Surrogate: Toluene-d8		*92.0 %*	*75-125*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*75-125*		"	"	"	"	

MOBILE GEOCHEMISTRY

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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71001 - EPA 5030										
Blank (EL71001-BLK1)				Prepared & Analyzed: 10-Dec-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	"							
Vinyl chloride	ND	0.1	"							
Chloroethane	ND	0.5	"							
Trichlorofluoromethane	ND	0.5	"							
1,1-Dichloroethene	ND	0.5	"							
Methylene chloride	ND	0.5	"							
Freon 113	ND	0.5	"							
trans-1,2-Dichloroethene	ND	0.5	"							
1,1-Dichloroethane	ND	0.5	"							
cis-1,2-Dichloroethene	ND	0.5	"							
Chloroform	ND	0.1	"							
1,1,1-Trichloroethane	ND	0.5	"							
Carbon tetrachloride	ND	0.1	"							
1,2-Dichloroethane	ND	0.1	"							
Benzene	ND	0.1	"							
Trichloroethene	ND	0.1	"							
Toluene	ND	1.0	"							
1,1,2-Trichloroethane	ND	0.5	"							
Tetrachloroethene	ND	0.1	"							
Ethylbenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	0.5	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	0.5	"							
Surrogate: Dibromofluoromethane	*2.45*		"	*2.50*		*98.0*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.68*		"	*2.50*		*107*	*75-125*			
Surrogate: Toluene-d8	*2.33*		"	*2.50*		*93.2*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.05*		"	*2.50*		*82.0*	*75-125*			

MOBILE GEOCHEMISTRY
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The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control
H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71101 - EPA 5030										
Blank (EL71101-BLK1)				Prepared & Analyzed: 11-Dec-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	"							
Vinyl chloride	ND	0.1	"							
Chloroethane	ND	0.5	"							
Trichlorofluoromethane	ND	0.5	"							
1,1-Dichloroethene	ND	0.5	"							
Methylene chloride	ND	0.5	"							
Freon 113	ND	0.5	"							
trans-1,2-Dichloroethene	ND	0.5	"							
1,1-Dichloroethane	ND	0.5	"							
cis-1,2-Dichloroethene	ND	0.5	"							
Chloroform	ND	0.1	"							
1,1,1-Trichloroethane	ND	0.5	"							
Carbon tetrachloride	ND	0.1	"							
1,2-Dichloroethane	ND	0.1	"							
Benzene	ND	0.1	"							
Trichloroethene	ND	0.1	"							
Toluene	ND	1.0	"							
1,1,2-Trichloroethane	ND	0.5	"							
Tetrachloroethene	ND	0.1	"							
Ethylbenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	0.5	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	0.5	"							
Surrogate: Dibromofluoromethane	*2.41*		"	*2.50*		*96.4*	*75-125*			
Surrogate: 1,2-Dichloroethane-d4	*2.49*		"	*2.50*		*99.6*	*75-125*			
Surrogate: Toluene-d8	*2.37*		"	*2.50*		*94.8*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*2.28*		"	*2.50*		*91.2*	*75-125*			

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG121007-SB1	
520 West 1st Street	Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	18-Dec-07

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159 E712025

☑ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995 EL71001

Date: 12/10/07

H&P Project # TRG121007-SB1

Outside Lab: _____

Client: The Reynolds Group

Address: 520 West 1st Street, Tustin, CA 92780

Email: cleary@reynolds-group.com Phone: (714) 730-5397

Collector: Daniel Chavez Page: 1 of 1

Client Project # 7115 Phase 2&3 Project Contact: John Cleary

Location: 1551 E. Orangethorpe Ave., Fullerton

Fax: (714) 730-6476 Turn around time: _____

EDF: Yes ☐ No ☐

Global ID: _____

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

	Sample Name	Notes ~~Field Point Name~~	Purge Vol (L)	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB - LOW	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) 1,1-DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2				Total # of containers
01	PW3-60		259	12:06	12/10/07	Vapor	Syringe							X				X							1
02	PW3-25		108	12:35	↓	↓	↓							X				X							1
03	PW3-15		64.9	12:54										X				X							1
04	PW3-5		21.6	13:07										X				X							1
05	PW3-5 DUP		21.6	13:08										X				X							1
06	PW2-60		259	14:14	↓	↓	↓							X				X							1

Relinquished by: (Signature) T. Wolfe	(company) TRG	Received by: (Signature) Daniel J Chavez	(company) G&P	Date: 12/10/07 Time: 14:30
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

MOBILE GEOCHEMISTRY

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Chain of Custody Record

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E712033
EL71101

Date: 12/11/07
H&P Project # TRG121007-SB1
Outside Lab: _____

Client: The Reynolds Group
Address: 520 west 1st Street
Tustin, CA 92780
Email: cleary@reynolds-group.com Phone: (714) 730-5397

Collector: Daniel Chavez
Client Project # 7115 Phase 250
Location: 1551 E. Orangethorpe Ave., Fullerton
Fax: (714) 730-6476

Page: 1 of 1
Project Contact: John Cleary
Turn around time: _____

EDF: Yes☐ No☐

Global ID: _____

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

	Sample Name	Notes ~~Field Point Name~~	Purge Vol (L)	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB – Low	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) 1,1-DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2	Total # of containers
01	PW2-5		21.6	10:01	12/11/07	Vapor	Syringe							X				X				1
02	PW2-5 DUP		21.6	10:02	↓	↓	↓							X				X				1
03	PW2-15		64.9	10:24										X				X				1
04	PW2-25		108	10:58										X				X				1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: 12/11/07 Time: 11:07
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date: Time:

JRG

H&P

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ *Disposal @ $2.00 each* ☐ *Return to client* ☐ *Pickup*

MOBILE GEOCHEMISTRY
H&P

RECEIVED 7115
[illegible] 2007
CF

17 December 2007

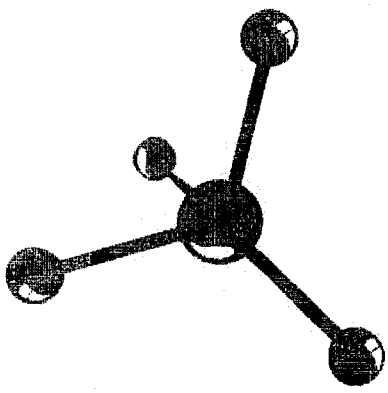
Mr. John Cleary
The Reynolds Group - Tustin
520 West 1st Street
Tustin, CA 92780
RE: TRG121207-12

Enclosed are the results of analyses for samples received by the laboratory on 11-Dec-07 . If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for
Janis Villarreal
Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.



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MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG121207-12	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	17-Dec-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW2-15, P64.9L	E712045-01	Vapor	11-Dec-07	11-Dec-07
Trip Blank	E712045-02	Vapor	11-Dec-07	11-Dec-07

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG121207-12	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	17-Dec-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-15, P64.9L (E712045-01) Vapor	**Sampled: 11-Dec-07**	**Received: 11-Dec-07**							
1,1-Difluoroethane (LCC)	ND	10	ug/l	20	EL71403	13-Dec-07	13-Dec-07	EPA TO-15	
Propene	ND	200	ug/m³ Air	"	"	"	"	"	
Dichlorodifluoromethane	ND	200	"	"	"	"	"	"	
Chloromethane	ND	100	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	200	"	"	"	"	"	"	
Vinyl chloride	ND	100	"	"	"	"	"	"	
1,3-Butadiene	ND	100	"	"	"	"	"	"	
Bromomethane	ND	100	"	"	"	"	"	"	
Chloroethane	ND	200	"	"	"	"	"	"	
Trichlorofluoromethane	ND	100	"	"	"	"	"	"	
Acetone	ND	400	"	"	"	"	"	"	
1,1-Dichloroethene	3100	100	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	600	200	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Carbon disulfide	ND	100	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	100	"	"	"	"	"	"	
Vinyl acetate	ND	100	"	"	"	"	"	"	
1,1-Dichloroethane	ND	100	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
n-Hexane	980	100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	250	100	"	"	"	"	"	"	
Ethyl acetate	ND	100	"	"	"	"	"	"	
Chloroform	ND	100	"	"	"	"	"	"	
Tetrahydrofuran	ND	100	"	"	"	"	"	"	
1,1,1-Trichloroethane	120	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	100	"	"	"	"	"	"	
Benzene	ND	100	"	"	"	"	"	"	
Carbon tetrachloride	ND	100	"	"	"	"	"	"	
Cyclohexane	ND	100	"	"	"	"	"	"	
n-Heptane	590	100	"	"	"	"	"	"	
Trichloroethene	7400	100	"	"	"	"	"	"	
1,2-Dichloropropane	ND	100	"	"	"	"	"	"	
1,4-Dioxane	ND	100	"	"	"	"	"	"	
Bromodichloromethane	ND	100	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	100	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	100	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	100	"	"	"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG121207-12	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	17-Dec-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-15, P64.9L (E712045-01) Vapor	**Sampled: 11-Dec-07**	**Received: 11-Dec-07**							
Toluene	ND	100	ug/m³ Air	20	EL71403	13-Dec-07	13-Dec-07	EPA TO-15	
1,1,2-Trichloroethane	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	200	"	"	"	"	"	"	
Dibromochloromethane	ND	100	"	"	"	"	"	"	
Tetrachloroethene	1500	100	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	100	"	"	"	"	"	"	
Chlorobenzene	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	100	"	"	"	"	"	"	
m,p-Xylene	210	100	"	"	"	"	"	"	
Styrene	ND	100	"	"	"	"	"	"	
o-Xylene	ND	100	"	"	"	"	"	"	
Bromoform	ND	400	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	100	"	"	"	"	"	"	C-07
4-Ethyltoluene	ND	100	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	100	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	100	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	200	"	"	"	"	"	"	C-07
Benzyl chloride	ND	100	"	"	"	"	"	"	C-07
1,4-Dichlorobenzene	ND	200	"	"	"	"	"	"	C-07
1,2-Dichlorobenzene	ND	200	"	"	"	"	"	"	C-07
1,2,4-Trichlorobenzene	ND	200	"	"	"	"	"	"	C-07
Hexachlorobutadiene	ND	200	"	"	"	"	"	"	C-07
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*80-120*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.1 %*	*80-120*		"	"	"	"	

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The Reynolds Group - Tustin	Project: TRG121207-12	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	17-Dec-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (E712045-02) Vapor Sampled: 11-Dec-07 Received: 11-Dec-07									
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EL71403	13-Dec-07	13-Dec-07	EPA TO-15	
Propene	ND	10	ug/m³ Air	"	"	"	"	"	
Dichlorodifluoromethane	ND	10	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
Dichlorotetrafluoroethane	ND	10	"	"	"	"	"	"	
Vinyl chloride	ND	5.0	"	"	"	"	"	"	
1,3-Butadiene	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	10	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Acetone	ND	20	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichlorotrifluoroethane	ND	10	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Carbon disulfide	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Vinyl acetate	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	5.0	"	"	"	"	"	"	
n-Hexane	19	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
Ethyl acetate	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Tetrahydrofuran	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Cyclohexane	ND	5.0	"	"	"	"	"	"	
n-Heptane	6.1	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dioxane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	

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The Reynolds Group - Tustin	Project: TRG121207-12	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	17-Dec-07

Volatile Organic Compounds by EPA TO-15

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (E712045-02) Vapor	**Sampled: 11-Dec-07**	**Received: 11-Dec-07**							
Toluene	ND	5.0	ug/m³ Air	1	EL71403	13-Dec-07	13-Dec-07	EPA TO-15	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
2-Hexanone	ND	10	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	20	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	C-07
4-Ethyltoluene	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	"	"	C-07
Benzyl chloride	ND	5.0	"	"	"	"	"	"	C-07
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	C-07
1,2-Dichlorobenzene	ND	10	"	"	"	"	"	"	C-07
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	C-07
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	C-07
Surrogate: 1,2-Dichloroethane-d4		*108 %*	*80-120*		"	"	"	"	
Surrogate: Toluene-d8		*99.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.8 %*	*80-120*		"	"	"	"	

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG121207-12	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	17-Dec-07

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71403 - TO-15										
Blank (EL71403-BLK1)				Prepared & Analyzed: 13-Dec-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Propene	ND	10	ug/m³ Air							
Dichlorodifluoromethane	ND	10	"							
Chloromethane	ND	5.0	"							
Dichlorotetrafluoroethane	ND	10	"							
Vinyl chloride	ND	5.0	"							
1,3-Butadiene	ND	5.0	"							
Bromomethane	ND	5.0	"							
Chloroethane	ND	10	"							
Trichlorofluoromethane	ND	5.0	"							
Acetone	ND	20	"							
1,1-Dichloroethene	ND	5.0	"							
1,1,2-Trichlorotrifluoroethane	ND	10	"							
Methylene chloride	ND	5.0	"							
Carbon disulfide	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							
Methyl tert-butyl ether	ND	5.0	"							
Vinyl acetate	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
2-Butanone	ND	5.0	"							
n-Hexane	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
Ethyl acetate	ND	5.0	"							
Chloroform	ND	5.0	"							
Tetrahydrofuran	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
Benzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Cyclohexane	ND	5.0	"							
n-Heptane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,4-Dioxane	ND	5.0	"							

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG121207-12	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	17-Dec-07

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71403 - TO-15										
Blank (EL71403-BLK1)			Prepared & Analyzed: 13-Dec-07							
Bromodichloromethane	ND	5.0	ug/m³ Air							
cis-1,3-Dichloropropene	ND	5.0	"							
4-Methyl-2-pentanone	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Toluene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
2-Hexanone	ND	10	"							
Dibromochloromethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	5.0	"							
Styrene	ND	5.0	"							
o-Xylene	ND	5.0	"							
Bromoform	ND	20	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							C-07
4-Ethyltoluene	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	10	"							C-07
Benzyl chloride	ND	5.0	"							C-07
1,4-Dichlorobenzene	ND	10	"							C-07
1,2-Dichlorobenzene	ND	10	"							C-07
1,2,4-Trichlorobenzene	ND	10	"							C-07
Hexachlorobutadiene	ND	10	"							C-07
Surrogate: 1,2-Dichloroethane-d4	*110*		"	*103*		*107*	*80-120*			
Surrogate: Toluene-d8	*95.4*		"	*96.2*		*99.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*160*		"	*182*		*87.9*	*80-120*			

MOBILE GEOCHEMISTRY

H&P

The Reynolds Group - Tustin	Project: TRG121207-12	
520 West 1st Street	Project Number: 7115 Phase 250	Reported:
Tustin, CA 92780	Project Manager: Mr. John Cleary	17-Dec-07

Volatile Organic Compounds by EPA TO-15 - Quality Control

H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71403 - TO-15										
LCS (EL71403-BS1)				Prepared & Analyzed: 13-Dec-07						
Propene	38.9	10	ug/m³ Air	35.0		111	65-135			
Dichlorodifluoromethane	116	10	"	101		115	65-135			
Chloromethane	49.5	5.0	"	42.0		118	65-135			
Dichlorotetrafluoroethane	169	10	"	142		119	65-135			
Vinyl chloride	61.4	5.0	"	52.0		118	65-135			
1,3-Butadiene	51.4	5.0	"	44.8		115	65-135			
Bromomethane	93.7	5.0	"	79.2		118	65-135			
Chloroethane	63.1	10	"	53.6		118	65-135			
Trichlorofluoromethane	133	5.0	"	113		118	65-135			
Acetone	55.2	20	"	48.4		114	65-135			
1,1-Dichloroethene	88.3	5.0	"	80.8		109	65-135			
1,1,2-Trichlorotrifluoroethane	171	10	"	155		110	65-135			
Methylene chloride	77.0	5.0	"	70.8		109	65-135			
Carbon disulfide	70.9	5.0	"	63.2		112	65-135			
trans-1,2-Dichloroethene	85.5	5.0	"	80.8		106	65-135			
Methyl tert-butyl ether	84.3	5.0	"	73.6		115	65-135			
Vinyl acetate	82.3	5.0	"	72.0		114	65-135			
1,1-Dichloroethane	91.6	5.0	"	82.4		111	65-135			
2-Butanone	69.5	5.0	"	60.0		116	65-135			
n-Hexane	78.9	5.0	"	72.0		110	65-135			
cis-1,2-Dichloroethene	87.0	5.0	"	80.0		109	65-135			
Ethyl acetate	80.4	5.0	"	73.6		109	65-135			
Chloroform	106	5.0	"	99.2		107	65-135			
Tetrahydrofuran	66.1	5.0	"	60.0		110	65-135			
1,1,1-Trichloroethane	119	5.0	"	111		107	65-135			
1,2-Dichloroethane	89.4	5.0	"	82.4		108	65-135			
Benzene	65.3	5.0	"	64.8		101	65-135			
Carbon tetrachloride	138	5.0	"	128		108	65-135			
Cyclohexane	71.6	5.0	"	70.4		102	65-135			
n-Heptane	89.7	5.0	"	83.6		107	65-135			
Trichloroethene	116	5.0	"	110		105	65-135			
1,2-Dichloropropane	97.2	5.0	"	94.4		103	65-135			
1,4-Dioxane	75.2	5.0	"	73.6		102	65-135			
Bromodichloromethane	145	5.0	"	137		106	65-135			

MOBILE GEOCHEMISTRY

H&P

Chain of Custody Record

☐ 2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
☑ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

E711030
EK70701

Date: 11/07/07
H&P Project #: TRG110707-SB1
Outside Lab:

Client: The Reynolds Group
Address: 520 West 1st Street
Tustin, CA 92780
Email: wolfe@reynolds-group.com Phone: (714) 730-5397

Collector: Dave Balkenbush
Client Project #: 7115 Phase 250
Location: 1551 E Orangethorpe Ave, Fullerton
Fax: (714) 730-6476

Page: 1 of 2
Project Contact: Christa Wolfe
Turn around time:

EDF: Yes☐ No☐
Global ID:

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

	Sample Name	Notes ~~Field Point Name~~	Purge Vol (L) (cc)	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: DTSC/LARWQCB - LOW	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) 4-BFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO2 ☐ O2 ☐ N2			Total # of containers
01	VEW6-5'		48.9	9:21	11/07/07	Vapor	Tygon							X				X						1
02	VEW6-15'		92.1	9:33										X				X						1
03	VEW6-25'		135.4	9:51										X				X						1
04	VEW4-5'		45.9	10:04										X				X						1
05	VEW4-15'		88.7	10:21										X				X						1
06	VEW4-15' DUP		88.7	10:22										X				X						1
07	VEW4-25'		131.9	10:50										X				X						1
08	PW1-5'		21.6	11:28										X				X						1
09	PW1-15'		64.9	11:40										X				X						1
10	PW1-25'		108.2	12:17	↓	↓	↓							X				X						1

Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Daniel	TRG	Daniel J Chang	H&P	11/07/07	
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)	Date:	Time:

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instruction: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Nov 16 2007 9:44AM HP LASERJET FAX p.2
11/16/2007 09:15 5624266995 HANDEX-06 PAGE 02

Nov 16 2007 8:44AM HP LASERJET FAX

11/16/2007 09:15 5624566995 HANDFAX PAGE 03

MOBILE GEOCHEMISTRY

H&P

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☑ 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Chain of Custody Record

Date: 11/07/07

H&P Project #: TRG110707-SB1

Outside Lab: _____

Client: The Reynolds Group

Address: 520 West 1st Street, Tustin, CA 92780

Email: wolfe@reynolds-group.com Phone: (714) 730-5397

Collector: Dave Balkenbush

Client Project #: 7115 Phase 2SO

Location: 1551 E. Orangethorpe Ave., Fullerton

Fax: (714) 730-6476

Page: 2 of 2

Project Contact: Christa Wolfe

Turn around time: _____

EDF: Yes☐ No☐

Global ID: _____

Sample Receipt
Intact: ☐ Yes ☐ No
Seal Intact: ☐ Yes ☐ No ☐ N/A
Cold: ☐ Yes ☐ No
N/A (Received on Site)

Special Instructions:

	Sample Name	Notes / Field Point Name	Purge Vol (L)	Time	Date	Sample Type	Container Type	TPH ☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	8260B: BTEX / Oxygenates	8260B: TPH gas	8260B: VOC's	8260B: OTSCALARWQCB - LOW	8260B: Ketones	TO-15: Full List	TO-15: BTEX/MTBE	LCC (specify) LL-DFA	Naphthalene ☐ 8260B ☐ TO-15	Methane	Fixed Gases ☐ CO_2 ☐ O_2 ☐ N_2				Total # of containers
11	PW1-60'		259-L	12:46	11/7/07	Vapor	Syringe							X				X							1

Relinquished by: (Signature)	(company) TRG	Received by: (Signature) Daniel J Chavez	(company) H&P
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)
Relinquished by: (Signature)	(company)	Received by: (Signature)	(company)

Date: 11/07/07 Time: _____

Date: _____ Time: _____

Date: _____ Time: _____

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Sample disposal instructions: ☐ Disposal @ $2.00 each ☐ Return to client ☐ Pickup

Reference:
Reynolds, 2009b

April 27, 2009
(trg no. 7115)

Luis Lodrigueza
ORANGE COUNTY HEALTH CARE AGENCY
Environmental Health Division
1241 East Dyer Road, Suite 120
Santa Ana, CA 92705-5611

THE REYNOLDS GROUP
a California corporation

RECEIVED HCA
MAY 01 2009
ENVIRONMENTAL HLTH

SITE: **FULLERTON BUSINESS PARK NORTH**
(FORMER OCHCA #94IC29)
1551 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

SUBJECT: **SOIL VAPOR VERIFICATION SAMPLING REPORT AND REQUEST FOR CLOSURE**

Dear Mr. Lodrigueza,

In March 2009, The Reynolds Group (TRG) performed soil vapor verification sampling at Fullerton Business Park North, 1551 East Orangethorpe Avenue in Fullerton, California (the Site, see Figure 1 – Site Location Map) after a period of active soil vapor extraction. The work was performed according to TRG's February 4, 2009, "Revised Workplan for Verification Sampling" and approved by the Orange County Health Care Agency (OCHCA) in a letter dated February 10, 2009 (see Attachment A).

1.0 EXECUTIVE SUMMARY

As detailed in this report, TRG performed verification sampling at the subject Site to verify that 11 months of soil vapor extraction (SVE) at the Site successfully removed chlorinated hydrocarbons in subsurface soils, primarily tetrachloroethene (PCE) and trichloroethene (TCE), to levels low enough for low risk closure consideration.

Results of the verification sampling indicate that remedial efforts reduced PCE and TCE vapor concentrations significantly in the shallow soils at the Site, especially in the sub-slab

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and at 5 feet below ground surface (ft bgs). Concentrations have been also been notably reduced, to a lesser degree, in the deeper soils of the northern area of the Site near the adjacent Former Johnson Controls Battery property (Johnson Controls). Johnson Controls is known to have released chlorinated compounds (including PCE and TCE) into the subsurface.

The significant reduction in PCE and TCE in the shallow subsurface suggests that the Site building areas have remediated to low enough concentrations for commercial/industrial use low risk closure consideration and, thus, TRG requests that OCHCA evaluate results of this investigation for indoor human health risk analysis and case closure.

2.0 SITE SETTING

The Site is situated in an industrial area of Fullerton and covers approximately 4.6 acres. The surrounding area has been used for industrial purposes since the 1950's, preceded by agricultural use.

Developed with the existing 108,300 square-foot single story manufacturing/warehouse building in 1956, the Site is completely paved with reinforced concrete inside the building and asphalt and concrete outside. The warehouse/manufacturing areas of the building are well ventilated, and include 14 to 20 foot high ceilings and several entryways.

Arnold Engineering Company, a stamping and milling facility, occupied the Site between 1960 through 1985. The company's operations used various volatile organic compounds (VOCs), including PCE and TCE. The Site was also used for other manufacturing activities and as a storage warehouse.

3.0 SITE GEOLOGY AND HYDROLOGY

The Site is located in the Coastal Plain of Orange County in a relatively flat topography at an elevation of approximately 177 feet above mean sea level. The area topography slopes very gently toward the west southwest.

The Coastal Plain is bound by the Puente Hills to the north, the Santa Ana Mountains to the east, the San Joaquin Hills to the south, and the Pacific Ocean to the west, and is constituted of alluvium sediments. Soil types beneath the Site consist primarily of interbedded layers of silts, clays, and fine sands in the upper 50 feet. Deeper soils (> 50 ft bgs) are comprised of fine to medium, well-sorted sands.

Groundwater beneath the Site exists at approximately 115 to 125 ft bgs and flows in a westerly direction.

4.0 SUMMARY OF HISTORICAL ENVIRONMENTAL WORK

4.1 Regional Environmental Work

In 2004, the subject Site and several potential responsible parties (PRPs) in the area were identified by the Orange County Water District (OCWD), the purveyor of domestic water in Orange County, as potential contributors to a regional VOC-impacted groundwater plume. The OCWD subsequently filed a lawsuit against the PRPs.

The former Site owner, The Alan and Kay Needle Trust, was named in a lawsuit filed by the OCWD (Case No. 04 CC 00715). The lawsuit resulted from the Santa Ana Regional Water Quality Control Board's assertions of alleged groundwater contamination in the region. On

or about May 2, 2007, The Alan and Kay Needle Trust entered into a Good Faith Settlement Agreement with the OCWD. The lawsuit is now resolved as to The Alan and Kay Needle Trust (former Site owner) and the current Site owner, Mr. Dominick Baione of Universal Mold Extrusion Company.

4.2 Former Johnson Controls Battery Property

The OCWD lawsuit also identified the Former Johnson Controls property, located adjoining north of the subject Site at 1550 E. Kimberly Avenue, as a PRP for the regional VOC impact. Shallow soils at Johnson Controls were discovered to be impacted with lead, arsenic, chlorinated VOCs (including PCE and TCE), and petroleum hydrocarbons (ref. JCI Fullerton Corrective Measures Completion Report, dated May 2007). The PCE and TCE impact at Johnson Controls was detected primarily in the southeastern portion of their property, northeast of the subject Site.

To address the PCE and TCE impacted soils at Johnson Controls, soil vapor extraction (SVE) of the deeper soils was performed from November 2006 through September 2007, with nested extraction wells screened at depths ranging from 25 to 47 ft bgs. More shallow soils were excavated. The Department of Toxic Substance Control (DTSC) later determined that corrective action had been completed at Johnson Controls for shallow and deep soils, as detailed in DTSC letters dated May 22 and September 20, 2007, respectively.

4.3 Subject Site Environmental Work

1994 to 1995 Assessment and Remediation

During removal of two clarifiers located on the eastern end of the Site in 1994 by Converse Consultants, concentrations of PCE and other constituents were detected in soil samples.

Converse concluded, following further investigation, that PCE-impacted soils existed primarily within the top 35 feet of soils in an estimated area of 1,200 square feet. Converse further stated that groundwater beneath the Site, estimated at 115 ft bgs had not been impacted (Converse 1995). SVE was proposed by Converse to remediate the PCE impacted soils at the Site.

An SVE system operated at the Site from August to November 1995. Confirmation borings performed in December 1995 showed a decrease in PCE concentrations as follows: 99% at 15 ft bgs, 87% at 20 ft bgs, and 84% at 25 ft bgs. Based on those results, Converse recommended no further action at the Site to the Orange County Health Care Agency (OCHCA). In a Case Closure letter dated December 15, 1995, OCHCA confirmed completion of remedial action at the Site and required no further investigation of the underlying groundwater, stating that the Site was not responsible for the underlying groundwater VOC impact (see Attachment D).

2007 to 2008 Subsurface Assessment

In early 2007, TRG was contracted as the Consultant for the subject Site. TRG advanced 17 soil vapor probes at the Site in March 2007 and performed an environmental screening on behalf of our Client prior to their purchasing the subject Site. PCE and TCE were detected from 5 ft bgs at maximum soil vapor concentrations of 222.2 and 115.2 micrograms per liter (ug/L), respectively. The fieldwork and results were detailed in TRG's "Results of Soil Vapor Investigation" report, dated March 19, 2007. The levels detected during the March 2007 investigation appeared to possibly exceed more recent standards.

On behalf of our Client, TRG submitted a "Request for Remedial Action Supervision", dated July 24, 2007, to OCHCA to review the March 2007 results, to provide proper regulatory oversight, and to eventually provide regulatory closure. TRG met with Luis Lodrigueza of

OCHCA on July 24, 2007, to discuss the case. Mr Lodrigueza directed TRG to further assess soil vapors immediately beneath the concrete slab at the Site.

On July 30, 2007, five additional soil vapor points were sampled by TRG. Maximum concentrations of 1,079.4 ug/L PCE and 710.8 ug/L TCE were detected during the investigation. Details of the work were provided in TRG's "Summary of Shallow Soil Vapor Survey and Interior Ceiling Heights" report, dated August 9, 2007. Based on the data, OCHCA determined that health risk at the Site ranges from 5.9E-0.5 to 7.9E-04. These values were considered higher than the allowable risk of one in a million (1.0E-0.6). Based on the July 2007 vapor assessment, OCHCA directed additional assessment in the warehouse to further define the lateral extent of chlorinated solvent impact, to initiate soil remediation, and to provide a basis for remedial action.

In accordance with OCHCA, TRG installed and sampled 12 temporary soil vapor probes (SV23 through SV35), six vapor extraction wells (VEW3 through VEW 6, VEW9, and VEW12), and four passive wells (PMW1 through PMW4) from October 2007 through January 2008. On February 22, 2008, TRG conducted an additional vapor sampling event to determine the effectiveness of the SVE system. TRG collected 14 soil vapor samples from eight temporary soil probes (SV26, SV27, SV29 through SV33 and VEW6). On February 25 and 27, 2008, TRG installed eight additional soil vapor extraction wells (VEW7, VEW8, VEW10, VEW11, and VEW13 through VEW16). The work was detailed in TRG's "Soil Vapor Survey and Additional Vapor Well Installation Report", dated March 14, 2008. Analytical results of the soil vapor sampling are summarized in the attached Table 2 – Summary of Soil Vapor Survey Sampling Results. The lateral extent of PCE and TCE impacted soils at the Site was determined to be located on the northeastern portion of the Site, with the highest subsurface concentrations closer to the Johnson Controls property, as shown in Figures 5, 8, and 9 of this report.

2008 – SVE Remediation

On January 4, 2008, TRG initiated SVE at the Site from wells VEW3 through VEW 6, VEW9, and VEW12. In February 2008, wells VEW7, VEW8, VEW10, VEW11, and VEW13 through VEW16 were connected to the remediation system. The SVE system consisted of a 300 cfm blower and two 1,000 lbs carbon filters in series. The wells were connected to the SVE system through an above-ground system manifold and the system operated by extracting from a different series of wells on rotational basis, focusing on hot zones to optimize the extraction and maintain a good vacuum of influence. After 11 months of soil vapor extraction at the Site, soil vapor PCE and TCE concentrations declined significantly at most locations beneath the Site building to asymptotic conditions.

A brief summary of operational detail is as follows:

Date of SVE System Start Up:	January 4, 2008
Period Covered in this Report:	Jan. 4 thru Nov. 28, 2008 (see Table 4)
Total System Running Time Since Start-Up:	7,305.5 hrs
Average Total Flow Rate @ Inlet:	161 cfm
Number of Vapor Extraction Wells:	14 at multiple depths (see Table 1)
Cumulative Pounds of PCE Removed:	49.48 lbs (see Table 4 and Figure 3)
Cumulative Pounds of TCE Removed:	6.57 lbs (see Table 4 and Figure 3)

Attachment C – "Soil Vapor Concentrations Over Time" shows the reduction in soil vapor concentrations from each individual well using SVE.

5.0 FIELDWORK

On February 26, 2009, TRG performed flow testing of the pre-existing soil vapor monitoring wells at the Site prior to verification sampling to ensure that sample collection was possible. Nested vapor probes SVE25, SV27, SV31, and PW4 were determined to yield no vapor flow

for sample collection and, therefore, replacements for these probes were installed (see Section 5.1 below).

5.1 Replacement Nested Soil Vapor Probe Installation

On March 2, 2009, TRG installed temporary replacement soil vapor probes for locations where sampling was no longer possible (in nested probes SV25, SV27, SV30 through SV35, and passive well PW4). Replacement nested probes were assigned with the same name, with exception of PW4, which was replaced as SV44.

All replacement nested soil vapor probes were advanced using a direct push rig with a disposable drive tip. Once the temporary vapor probes reached the appropriate depth, a Nylaflow sample tube was inserted into the drive rod to the specific depths of the replacement probes. The end of the Nylaflow tubing has a 1.5 inch long air stone filter which allows soil vapor to enter the tubing while limiting the possibility of water or soil intrusion and the top of the Nylaflow tube has a plastic valve to prevent ambient air intrusion. The Nylaflow tubing and valves were sealed at the surface with hydrated bentonite.

After temporary vapor probe placement, a period of at least 20 minutes was allowed to pass before sample collection. This equilibration time allowed subsurface conditions to equilibrate prior to purge volume testing, leak testing, and soil vapor sampling.

5.2 Sub-Slab Soil Vapor Probe Installation

On March 2 and 3, 2009, TRG advanced eight temporary sub-slab soil vapor probes (SV36 through SV43) to one ft bgs beneath the building concrete slab and in the slab vicinity in order to adequately assess soil vapor conditions beneath the foundation at the Site, while minimizing above grade ambient air influences.

All sub-slab soil vapor probes were advanced using a hand-held hammer drill. Once the temporary vapor probes reached the terminal depth, a Nylaflow sample tube was inserted hole. The end of the Nylaflow tubing has a 1.5 inch long air stone filter which allows soil vapor to enter the tubing while limiting the possibility of water or soil intrusion and the top of the Nylaflow tube has a plastic valve to prevent ambient air intrusion. The Nylaflow tubing and valves were sealed at the surface with a silicone grease coated rubber stopper to prevent any leaks.

After sub-slab temporary vapor probe placement, a period of at least 20 minutes was allowed to pass before sample collection. This equilibration time allowed subsurface conditions to equilibrate prior to purge volume testing, leak testing, and soil vapor sampling.

5.3 Sample Collection

All verification sampling work was performed according to the February 7, 2005, updated DTSC "Interim Final – Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air" (the "DTSC Guidance"), and in the presence of Mr. Lodrigueza of the OCHCA.

TRG collected a total of 58 soil vapor samples (including purge test and duplicate samples) from eight sub-slab probes, nine nested probes, one passive well, and 10 vapor extraction wells at the following locations and depths:

Probe ID	Sample Depth(s)
SV36	1 ft bgs (sub-slab)
SV37	
SV38	
SV39	
SV40	
SV41	
SV42	
SV43	
SV25*	5 and 15 ft bgs
SV27*	
SV30	
SV31*	
SV32	
SV33	
SV34	
SV35	
VEW3	15 and 25 ft bgs
VEW5	
VEW6	
VEW9	
VEW11	
VEW12	
VEW16	
SV44*	5, 15, and 25 ft bgs
PW1	
VEW8	15 ft bgs
VEW13	
VEW4	25 ft bgs

Purge volume tests were performed on probes SV27 and SV37 indicating that three purge volumes produced the highest vapor sample concentrations and, thus, this purge volume was applied to the verification sampling event. Duplicate samples were collected immediately after the original sample from five locations (SV30-15, SV39, SV44-25, VEW5-25, and VEW18-15).

All soil vapor samples were collected at an extraction rate of 200 milliliters per minute (ml/min). A vacuum reading was recorded on field data sheets for each sample. Soil vapor samples were collected in clean syringes or summa canisters. Once collected, the soil vapor

samples were immediately analyzed on-Site by Jones Environmental, Inc, a state-certified mobile laboratory.

In addition, Summa canisters were used to collect soil vapor samples from sample points SV38, SV40, SV44-25, VEW13-25, and VEW3-25. Once collected, the Summa samples were transported offsite to Chemical & Environmental Laboratories in Santa Fe Springs, CA, a state-certified laboratory, and analyzed by EPA Method TO-15 to screen the samples for other potential chemicals of concern, such as vinyl chloride, naphthalene, and benzene.

5.4 Leak Testing

Leak testing was conducted at every soil vapor probe location using a tracer gas (n-Propanol). A detection of the tracer compound in the subsurface soil vapor sample indicates that ambient air intrusion occurred. No n-Propanol was detected in any of the samples collected and analyzed.

5.5 Disposable Equipment and Decontamination Procedures

Non-reusable nylon sample tubing was discarded between sample locations. After each use, drive rods and other re-usable components were properly decontaminated by a 3-stage wash and rinse process including a Liquinox rinse and a final distilled water rinse. Clean, dry tubing was used for sampling.

5.6 Laboratory Analyses

Chain-of custody procedures were followed in transporting samples to the on-Site and offsite, state certified laboratories. All soil vapor samples for on-Site analysis were analyzed by EPA Method 8260B full scan for VOCs, including PCE and TCE, since these are the

historical compounds of concern. All Summa samples for offsite analysis were analyzed by EPA Method TO-15 to screen the samples for other potential chemicals of concern.

6.0 SUMMARY OF VERIFICATION SOIL VAPOR RESULTS

Soil vapor analytical results are summarized in Table 1, and the laboratory analytical reports are provided in Attachment B.

Where detected, PCE concentrations from the total 47 sample locations ranged from 0.068 to 768 ug/L and TCE ranged from 0.029 to 107 ug/L. The highest concentrations of each were present in vapor well VEW3 at 25' (see Figure 2). Other VOCs such as 1,1,1-Trichloroethane, 1,1-Dichloroethene, and Freon-113 were also present in some, but not all, of the soil vapor samples collected. No vinyl chloride was detected in any of the soil vapor samples.

Results from the eight sub-slab soil vapor sample locations (SV36 through SV43), where detected, showed very low to low concentrations of PCE and TCE. The highest concentrations in the sub-slab samples were detected in SV36 (26.7 ug/L PCE, 20.7 ug/L TCE), SV37 (2.59 ug/L PCE, 5.2 ug/L TCE), SV42 (1.1 ug/L PCE), and SV43 (4.66 ug/L PCE), located in the Additional Room Storage area on the north end of the Site, closest to the Johnson Controls property. Remaining sub-slab locations showed PCE and TCE concentrations from less than laboratory reporting limits (0.02 ug/L) to 0.56 ug/L.

Results from the 5 ft bgs soil vapor sample locations (SV25, SV27, SV30 through SV35, SV44, and PW1) also showed very low concentrations of PCE and TCE, with the highest detected concentrations from SV30-5 at 2.62 ug/L for PCE and 1.8 ug/L for TCE.

Concentrations of PCE and TCE detected in vapor samples from deeper soils (15 and 25 ft bgs) were higher than those collected from shallow soils, but still generally low (below 10 ug/L). Only at areas adjacent to the Jonson Controls property, and adjacent south of the Site's former clarifier location were the concentrations higher: VEW3-15 at 196 ug/L PCE, VEW3-25 at 767 ug/L PCE and 107 ug/L TCE, PW1-25 at 38.8 ug/L PCE, SV44-25 at 17.3 ug/L PCE, VEW16-15 with 20.5 ug/L PCE and 26.9 ug/L TCE, and VEW16-25 at 20.5 ug/L PCE and 26.9 ug/L TCE.

7.0 DISCUSSION AND REQUEST FOR CLOSURE

TRG performed remediation verification sampling at the Site in March 2009 to verify levels of any residual VOC concentrations. Results of the verification sampling indicate that remedial efforts have reduced PCE and TCE vapor concentrations significantly in shallow soils at the Site, especially in the sub-slab and 5 ft bgs locations. PCE and TCE have also been significantly reduced, to a lesser degree, in deeper soils beneath the northern area of the Site near the adjacent Johnson Controls property, known to have historically released chlorinated compounds (including PCE and TCE) into the subsurface. Figures 5 through 11 attached to this report show the PCE mass reduction in soils at the Site, comparing pre-remediation PCE levels with post-remediation verification PCE levels.

The Site has historically operated as a manufacturing/warehouse facility. Future use of this Site is expected to be as zoned. All potential sources of PCE and TCE impact at the Site have been removed and there are currently no activities at the Site. Further, existing reinforced concrete flooring in the Site building serves as an additional barrier for mitigating migration of low residual PCE and TCE vapors from the shallow soils into indoor ambient air.

TRG operated an SVE system at the Site from January 4 to November 28, 2008, resulting in the removal of nearly 50 pounds of PCE and 7 pounds of TCE from subsurface soils. Asymptotic conditions have been achieved since no notable rebound was observed in soil vapor concentrations from verification sampling.

Based on verification sample results, TRG believes that PCE and TCE in the Site's subsurface have been sufficiently remediated for commercial/industrial use low risk closure. TRG, therefore, requests that OCHCA evaluate results of this March 2009 investigation for indoor human health risk analysis and case closure.

If you have questions about this report, please contact our Project Manager for this Site, Alejandro Fuan, at (714) 920-9312 (cell) or via e-mail to fuan@reynolds-group.com . Thank you for your oversight of this case. We look forward to your response.

Sincerely,
THE REYNOLDS GROUP
a California corporation by:

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cc: Dominick Baione, **UNIVERSAL MOLDING EXTRUSION COMPANY**
James McFadden, **GRUBB & ELLIS**
John C. Glaser, **GLASER, TONSICH & ASSOCIATES, LLC**

TABLES

TABLE 1
VERIFICATION VAPOR SAMPLING
MARCH 2009
1551 E. ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA
(Results in Micrograms per Liter – ug/L)

Sample ID and Depth (feet)	EPA Method 8260B														
	PCE	TCE	1,1,1-TCA	1,1-DCA	1,2-DCA	1,1-DCE	Cis 1,2-DCE	Trichlor-fluoro-methane	Freon-113	Benzene	Toluene	Ethyl-benzene	Xylenes	1,3,5-trimethyl-benzene	Chloro-form	Tert-Butyl Alcohol
SV42 - [illegible]	1.10	0.200	0.170	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV43 - [illegible]	4.66	0.027	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV44-5	0.428	0.05	<0.02	<0.02	<0.02	<0.02	0.240	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV44-15	1.11	0.118	<0.02	<0.02	<0.02	<0.02	0.862	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV44-25	25.5	7.71	<0.02	0.132	<0.02	0.787	19.2	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV44-25 (Dup)	17.3	6.40	<0.02	0.101	<0.02	0.626	16.0	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
PW1-5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
PW1-15	0.168	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
PW1-25	38.8	4.07	0.078	<0.02	<0.02	1.47	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW3-15	196	8.82	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW3-25	767	107	0.771	0.815	0.157	21.5	3.65	<0.02	1.17	0.023	<0.02	<0.02	<0.02	<0.02	0.467	<0.1
VEW4-25	2.77	0.149	0.272	<0.02	<0.02	0.283	<0.02	0.035	0.258	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW5-15	0.429	0.024	0.186	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW5-25	0.267	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW5-25 (Dup)	0.303	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW6-15	20.1	1.71	0.256	<0.02	<0.02	0.268	<0.02	<0.02	0.345	<0.02	<0.02	<0.02	<0.02	<0.02	0.108	<0.1
VEW6-25	8.15	5.60	0.466	<0.02	<0.02	7.72	<0.02	0.077	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW8-15	2.50	0.294	0.313	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW8-15 (Dup)	2.27	0.302	0.225	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW9-15	1.58	2.08	0.274	<0.02	<0.02	1.99	<0.02	<0.02	0.038	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW9-25	<0.02	<0.02	0.178	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW11-15	8.33	0.685	0.633	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW11-25	0.984	3.01	0.138	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW12-15	0.184	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW12-25	0.918	4.94	3.19	<0.02	<0.02	852	<0.02	0.230	0.624	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW13-15	6.08	0.760	0.375	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW16-15	20.5	26.9	51.1	0.546	<0.02	13.7	<0.02	0.1	7.81	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
VEW16-25	20.6	36.8	140	0.821	<0.02	12.9	0.14	<0.02	7.67	0.033	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1

NOTES: All samples were analyzed by EPA Method 8260B Full Scan. Chemicals listed are only those detected during the March 2009 sampling event.
See attached Jones Environmental Laboratory Report dated 3/4/09 for a full listing of chemicals analyzed and for the full names of all chemicals.
No Vinyl Chloride was detected above the laboratory reporting limits.
Samples with no "- #" were collected from approximately 1 ft bgs.

TABLE 1
SUMMARY OF SOIL VAPOR SAMPLE RESULTS
MARCH 2009
1551 E. ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA
(Results in Micrograms per Liter – ug/L)

Sample ID and Depth (feet)	EPA Method 8260B															
	PCE	TCE	1,1,1-TCA	1,1-DCA	1,2-DCA	1,1-DCE	Cis 1,2-DCE	Trichlor-fluoro-methane	Freon-113	Benzene	Toluene	Ethyl-benzene	Xylenes	1,3,5-trimethyl-benzene	Chloro-form	Tert-Butyl Alcohol
SV25-5	0.338	<0.02	0.076	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV25-15	1.11	<0.02	0.144	<0.02	<0.02	<0.02	<0.02	<0.02	0.053	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV27-5 (1P)	0.816	0.096	0.117	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV27-5 (3P)	0.745	0.132	0.127	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV27-5 (7P)	0.678	0.108	0.109	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV27-15 (1P)	0.756	0.050	0.146	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV27-15 (3P)	0.940	0.063	0.184	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV27-15 (7P)	0.679	0.050	0.155	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV30-5	2.62	1.80	1.50	<0.02	<0.02	0.684	<0.02	<0.02	0.158	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV30-15	6.35	5.39	3.48	<0.02	<0.02	1.08	<0.02	<0.02	0.176	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV30-15 (Dup)	6.22	4.75	2.86	<0.02	<0.02	0.962	<0.02	<0.02	0.158	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV31-5	<0.02	0.142	0.204	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV31-15	0.068	0.029	0.189	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV32-5	0.132	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV32-15	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV33-5	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV33-15	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV34-5	0.276	0.064	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV34-15	2.68	<0.02	0.074	<0.02	<0.02	0.24	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV35-5	0.198	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV35-15	0.156	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV36	26.7	20.7	3.93	<0.02	<0.02	0.433	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV37 (1P)	2.36	4.77	1.43	<0.02	<0.02	2.71	<0.02	<0.02	<0.02	<0.02	0.704	0.304	0.077	0.031	<0.02	<0.1
SV37 (3P)	2.59	5.20	1.48	<0.02	<0.02	3.04	<0.02	<0.02	<0.02	<0.02	0.150	<0.02	<0.02	0.046	<0.02	<0.1
SV37 (7P)	2.21	4.62	1.50	<0.02	<0.02	2.74	<0.02	<0.02	<0.02	<0.02	0.179	<0.02	<0.02	0.030	<0.02	<0.1
SV38	<0.02	<0.02	0.877	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.120
SV39	0.307	0.547	0.436	<0.02	<0.02	1.16	<0.02	<0.02	0.316	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV39 (Dup)	0.329	0.564	0.433	<0.02	<0.02	1.18	<0.02	0.051	0.316	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV40	0.103	0.100	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1
SV41	0.081	<0.02	0.088	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.1

NOTES: All samples were analyzed by EPA Method 8260B Full Scan. Chemicals listed are only those detected during the March 2009 sampling event.
No Vinyl Chloride was detected above the laboratory reporting limits.
See attached Jones Environmental Laboratory Report dated 3/4/09 for a full listing of chemicals analyzed and for the full names of all chemicals.
Samples with no "- #" were collected from approximately 1 ft bgs.

TABLE 2
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV1-5	3/9/2007	OS	69.9	17.4
SV1-5 Dil.	3/9/2007	78.8	70.7	18.2
SV2-5	3/9/2007	15.3	11	3.2
SV3-5	3/9/2007	36.4	38.6	25.3
SV4-5	3/9/2007	39.2	24.2	9.1
SV5-5	3/9/2007	35.3	58.2	40.4
SV6-5	3/9/2007	80.3	115.2	65.3
SV7-5	3/9/2007	99.6	101.7	78.3
SV8-5	3/9/2007	7.2	22.6	17.7
SV9-5	3/9/2007	53.7	11.6	6
SV10-5	3/9/2007	222.2	88.8	79.7
SV11-5	3/9/2007	34.9	1.9	<1
SV11-5 Dup	3/9/2007	32	1.8	<1
SV12-5	3/9/2007	72.8	50.4	63.6
SV13-5	3/9/2007	7.4	16.3	7.4
SV14-5	3/9/2007	50.1	98.7	78.2
SV15-5	3/9/2007	1.4	<1	54.4
SV16-5	3/9/2007	<1	<1	<1
SV17-5	3/9/2007	<1	<1	<1
SV18-5	7/30/2007	163.5	120.2	64.3
SV19-5	7/30/2007	190.8	190.2	239.9
SV20-5	7/30/2007	164.5	99.3	66.2
SV21-5	7/30/2007	<1	<1	<1
SV22-5	7/30/2007	1,079.40	710.8	257.6
SV22-5 Dup	7/30/2007	984.8	684.9	232.8
SV23-5	7/30/2007	72.1	80.4	79.8
SV24-5	2/18/2008	REFUSAL		
SV24-15	10/16/2007	120	32	30
SV24-15	2/18/2008	REFUSAL		
SV25-5	10/16/2007	110	48	100
SV25-5	2/18/2008	REFUSAL		
SV25-15	10/16/2007	180	100	250
SV25-15	2/18/2008	REFUSAL		
SV26-5	2/18/2008	REFUSAL		
SV26-15	10/16/2007	11	2	14
SV26-15	2/18/2008	2.2	1.1	
SV27-5	10/16/2007	66	50	88
SV27-5	2/18/2008	5.1	3.1	<1
SV27-15	10/16/2007	74	68	140
SV27-15	2/18/2008	10	2.5	<1

TABLE 2 (Continued)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter – ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV28-5	10/16/2007	1.4	0.4	<0.5
SV29-5	10/16/2007	22	5.4	0.9
SV29-5 Dup	10/16/2007	23	5.2	0.8
SV29-5	2/18/2008	9.6	1.6	<1
SV29-15	10/16/2007	21	6.3	1
SV29-15	2/18/2009	13.3	2.9	<1
SV30-5	10/16/2007	53	71	61
SV30-5	2/18/2008	14.4	15.7	<1
SV30-15	10/16/2007	4.8	2.8	0.5
SV30-15	2/18/2008	21.7	15.7	6.5
SV31-5	10/16/2007	1.5	2	0.6
SV31-5	2/18/2008	REFUSAL		
SV31-15	10/16/2007	16	44	53
SV31-15 Dup	10/16/2007	13	41	53
SV31-15	2/18/2008	11.9	23.4	9
SV32-5	10/16/2007	11	38	73
SV32-5	2/18/2008	2	7.2	<1
SV32-15	10/16/2007	11	32	49
SV32-15	2/18/2008	2.3	10.5	9.4
SV32-15 Dup	2/18/2008	2.3	12.4	10.3
SV33-5	10/16/2007	25	47	55
SV33-5	2/18/2008	1	<1	<1
SV33-15	10/16/2007	54	90	140
SV33-15	2/18/2008	6.7	15.9	<1
SV34-15	10/16/2007	92	110	460
SV34-15	10/16/2007	93	72	140
VEW3-5	10/25/2007	24	29	6.6
VEW3-15	10/25/2007	240	140	74
VEW3-25	10/25/2007	210	120	83
VEW4-5	11/14/2007	21	17	1.7
VEW4-15	11/14/2007	380	150	86
VEW4-15 Dup	11/14/2007	360	140	73
VEW4-25	11/14/2007	470	180	160
VEW5-5	10/25/2007	23	13	3.8
VEW5-5	10/30/2007	12	8.2	3.1
VEW5-15	10/25/2007	19	14	6
VEW5-15	10/30/2007	19	13	7.8

TABLE 2 (Continued)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW5-25	10/25/2007	12	8.7	13
VEW5-25 Dup	10/25/2007	4.2	3.2	4.9
VEW5-25	10/30/2007	16	17	11
VEW5-60	10/25/2007	170	550	170
VEW5-60	10/30/2007	140	570	150
VEW6-5	11/14/2007	3.7	3.1	<0.5
VEW6-5	2/18/2008	7.3	14.6	<1
VEW6-15	11/14/2007	110	110	17
VEW6-15	2/18/2008	8.2	12.4	<1
VEW6-25	10/30/2007	8.5	9.1	2.5
VEW6-25	11/14/2007	320	370	250
VEW9-5	10/25/2007	39	43	42
VEW9-15	10/25/2007	89	130	170
VEW9-25	10/25/2007	64	69	61
VEW12-5	10/25/2007	30	64	120
VEW12-15	10/25/2007	3.1	8.2	9.8
VEW12-25	10/25/2007	56	110	210
VEW12-60	10/25/2007	10	43	9
PW1-5	11/14/2007	31	6.1	1.1
PW1-15	11/14/2007	21	1.5	<0.5
PW1-25	11/14/2007	4,200	140	55
PW1-60	11/14/2007	70	220	39
PW2-5	12/18/2007	2	8.9	2.5
PW2-5 Dup	12/18/2007	1.5	7.2	2.5
PW2-15	12/17/2007	1.5	7.4	3.1
PW2-15	12/18/2007	6.2	12	6.2
PW2-25	12/18/2007	37	19	20
PW2-60	12/10/2007	75	370	100
PW2-60	12/18/2007	75	370	100
PW3-5	12/10/2007	3.8	1.7	0.6
PW3-5 Dup	12/10/2007	4.3	1.7	0.7
PW3-15	12/10/2007	1.4	1	1.9
PW3-25	12/10/2007	17	2.2	1.6
PW3-60	12/10/2007	<0.1	<0.1	<0.5
PW4-5	12/18/2007	3.8	1.7	0.6
PW4-5 Dup	12/18/2007	4.3	1.7	0.7
PW4-15	12/18/2007	1.4	1	1.9
PW4-25	12/18/2007	17	2.2	1.6
PW4-60	12/18/2007	<0.1	<0.1	<0.5

TABLE 3

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW3-5	2/14/08	10.73	2.23	1.26
	10/31/08	5.45	0.30	<0.05
VEW3-15	2/14/08	69.83	18.04	18.40
	11/10/08	11.13	2.57	1.66
VEW3-25	8/4/08	10.24	1.53	1.74
	11/10/08	9.06	2.98	3.56
VEW4-5	2/14/08	0.74	<1	<1
VEW4-15	2/14/08	2.35	<1	<1
	11/19/08	0.38	<0.05	<0.05
VEW4-25	8/4/08	2.47	0.26	<0.05
	11/10/08	0.72	0.09	<0.05
VEW5-5	2/14/08	<1	<1	<1
VEW5-15	2/14/08	<1	<1	<1
VEW5-25	8/4/08	0.19	<0.05	<0.05
	10/21/08	0.23	<0.05	<0.05
VEW5-60	11/10/08	3.81	27.75	17.72
VEW6-5	2/14/08	0.74	<1	<1
VEW6-15	2/14/08	2.21	2.79	2.52
	11/10/08	0.48	0.12	<0.05
VEW6-25	8/4/08	2.10	0.22	<0.05
	11/10/08	0.14	0.25	<0.05
VEW7-15	4/2/08	3.74	2.95	0.82
	5/5/08	2.65	0.62	<0.01
	6/12/08	2.04	0.20	<0.01
	9/2/08	0.10	0.38	<0.05
	10/6/08	0.21	<0.05	<0.05
VEW8-15	4/2/08	2.02	2.44	0.99
	5/5/08	2.69	0.87	<0.01
	6/12/08	4.40	0.81	<0.01
	9/2/08	0.25	1.79	<0.05
	10/6/08	2.03	0.21	<0.05
	11/19/08	0.43	<0.05	<0.05
VEW9-5	2/14/08	<1	<1	<1
VEW9-15	2/14/08	0.88	1.86	1.26
	11/10/08	0.80	0.10	<0.05
VEW9-25	8/4/08	0.15	<0.05	<0.05
VEW10-5	11/4/08	<0.05	<0.05	<0.05
VEW10-15	4/2/08	0.22	<0.01	<0.01
	5/5/08	<0.01	<0.01	<0.01
	6/12/08	<0.01	<0.01	<0.01
	8/4/08	<0.05	<0.05	<0.05
VEW11-15	11/10/08	<0.05	<0.05	<0.05

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW11-25	4/2/08	0.14	0.56	<0.01
	5/5/08	<0.01	0.32	<0.01
	6/12/08	<0.01	<0.01	<0.01
	9/2/08	0.17	0.25	<0.05
VEW12-5	2/14/08	2.65	3.91	1.51
	11/4/08	<0.05	<0.05	<0.05
VEW12-15	2/14/08	<1	<1	<1
VEW12-25	8/4/08	0.39	0.36	<0.05
VEW12-60	11/10/08	2.75	21.49	10.1
VEW13-5	11/4/08	<0.05	<0.05	<0.05
VEW13-25	4/2/08	1.96	5.91	2.75
	5/5/08	0.75	2.26	1.65
	6/12/08	0.63	1.67	0.95
	9/2/08	0.99	2.69	1.26
VEW14-5	9/2/08	0.18	<0.05	<0.05
VEW14-15	4/2/08	0.61	1.08	<0.01
	5/5/08	0.23	0.27	<0.01
	6/12/08	0.24	0.34	<0.01
VEW15-15	4/2/08	0.98	1.31	<0.01
	5/5/08	0.70	0.87	<0.01
	6/12/08	0.75	0.88	<0.01
	9/2/08	0.45	0.67	<0.05
	11/10/08	0.33	0.60	<0.05
VEW16-15	11/10/08	0.77	0.59	<0.05
VEW16-25	4/2/08	1.00	0.16	<0.01
	5/5/08	0.28	0.61	<0.01
	6/2/08	0.69	0.17	<0.01
	9/2/08	0.86	0.92	<0.05
	10/21/08	1.62	1.29	<0.05
Inlet	1/4/08	18.23	10.42	15.12
	1/11/08	10.14	3.16	1.51
	1/17/08	8.38	1.86	<1
	1/21/08	6.32	1.30	<1
	1/30/08	5.29	1.49	<1
	2/5/08	3.09	<1	<1
	2/14/08	2.94	0.93	<1
	3/7/08	0.91	1.13	0.76
	3/11/08	0.65	1.09	0.69
	3/20/08	0.65	0.97	<0.01
	3/27/08	0.36	0.38	<0.01
	4/2/08	0.91	1.54	0.55
	4/10/08	0.96	0.88	<0.01
	4/15/08	0.92	0.39	<0.01

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Inlet (cont'd)	4/25/08	1.15	0.67	<0.01
	5/5/08	1.14	0.27	<0.01
	5/14/08	0.92	0.22	<0.01
	5/19/08	0.81	0.45	<0.01
	5/27/08	0.98	0.31	<0.01
	6/2/08	1.41	0.73	<0.01
	6/12/08	1.10	0.28	<0.01
	6/19/08	0.88	0.38	<0.01
	6/23/08	0.76	<0.01	<0.01
	7/8/08	0.72	<0.01	<0.01
	7/17/08	0.36	<0.05	<0.05
	8/4/08	0.49	<0.05	<0.05
	8/11/08	1.75	0.47	<0.05
	8/18/08	0.14	<0.05	<0.05
	8/25/08	0.47	<0.05	<0.05
	9/2/08	0.72	0.46	<0.05
	9/11/08	0.91	<0.05	<0.05
	9/19/08	0.11	<0.05	<0.05
	9/23/08	0.28	<0.05	<0.05
	9/30/08	1.12	0.56	<0.05
	10/6/08	0.86	0.41	<0.05
	10/13/08	0.27	0.19	<0.05
	10/15/08	1.16	<0.05	<0.05
	10/21/08	0.57	0.86	<0.05
	10/31/08	1.87	0.30	<0.05
	11/4/08	<0.05	<0.05	<0.05
	11/10/08	0.15	0.26	<0.05
	11/19/08	0.40	<0.05	<0.05
Outlet	1/4/08	<1	<1	<1
	1/11/08	<1	<1	<1
	1/17/08	<1	0.93	<1
	1/21/08	<1	<1	<1
	1/30/08	<1	<1	<1
	2/5/08	<1	<1	<1
	2/14/08	<1	<1	<1
	3/7/08	0.51	0.98	1.11
	3/11/08	<1	<1	0.51
	3/20/08	<0.01	<0.01	<0.01
	3/27/08	<0.01	<0.01	<0.01
	4/2/08	<0.01	<0.01	<0.01
	4/10/08	<0.01	<0.01	<0.01
	4/15/08	<0.01	<0.01	<0.01
	4/25/08	<0.01	<0.01	<0.01
	5/5/08	<0.01	<0.01	<0.01
	5/14/08	<0.01	<0.01	<0.01

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Outlet (cont'd)	5/19/08	<0.01	<0.01	<0.01
	5/27/08	<0.01	<0.01	<0.01
	6/2/08	<0.01	<0.01	<0.01
	6/12/08	<0.01	<0.01	<0.01
	6/19/08	<0.01	<0.01	<0.01
	6/23/08	<0.01	<0.01	<0.01
	7/8/08	<0.01	<0.01	<0.01
	7/17/08	<0.05	<0.05	<0.05
	8/4/08	<0.05	<0.05	<0.05
	8/11/08	<0.05	<0.05	<0.05
	8/18/08	<0.05	<0.05	<0.05
	8/25/08	<0.05	<0.05	<0.05
	9/2/08	<0.05	<0.05	<0.05
	9/11/08	<0.05	<0.05	<0.05
	9/19/08	<0.05	<0.05	<0.05
	9/23/08	<0.05	<0.05	<0.05
	9/30/08	<0.05	<0.05	<0.05
	10/6/08	0.34	<0.05	<0.05
	10/13/08	<0.05	<0.05	<0.05
	10/15/08	<0.05	<0.05	<0.05
	10/21/08	<0.05	<0.05	<0.05
	10/31/08	<0.05	<0.05	<0.05
	11/4/08	<0.05	<0.05	<0.05
	11/10/08	<0.05	<0.05	<0.05
	11/19/08	<0.05	<0.05	<0.05
Mid	1/4/08	14.55	10.23	14.87
	1/11/08	Not sampled.		
	1/17/08	<1	<1	<1
	1/21/08	Not sampled.		
	1/30/08	<1	<1	<1
	2/5/08	<1	<1	<1
	2/14/08	<1	<1	<1
	3/7/08	<1	<1	1.44
	3/11/08	<1	<1	0.98
	3/20/08	<0.01	<0.01	<0.01
	3/27/08	<0.01	<0.01	<0.01
	4/2/08	<0.01	<0.01	0.69
	4/10/08	<0.01	<0.01	<0.01
	4/15/08	<0.01	<0.01	<0.01
	4/25/08	<0.01	<0.01	<0.01
	5/5/08	<0.01	<0.01	<0.01
	5/14/08	<0.01	<0.01	<0.01
	5/19/08	<0.01	<0.01	<0.01
	5/27/08	<0.01	<0.01	<0.01
	6/2/08	<0.01	<0.01	<0.01
	6/12/08	<0.01	<0.01	<0.01

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Mid (cont'd)	6/19/08	<0.01	<0.01	<0.01
	6/23/08	<0.01	<0.01	<0.01
	7/8/08	<0.01	<0.01	<0.01
	7/17/08	<0.05	<0.05	<0.05
	8/4/08	0.54	0.39	<0.05
	8/11/08	<0.05	<0.05	<0.05
	8/18/08	<0.05	0.32	<0.05
	8/25/08	<0.05	0.39	<0.05
	9/2/08	0.08	0.55	<0.05
	9/11/08	<0.05	<0.05	<0.05
	9/19/08	<0.05	<0.05	<0.05
	9/23/08	<0.05	<0.05	<0.05
	9/30/08	<0.05	<0.05	<0.05
	10/6/08	<0.05	<0.05	<0.05
	10/13/08	<0.05	<0.05	<0.05
	10/15/08	<0.05	<0.05	<0.05
	10/21/08	<0.05	<0.05	<0.05
	10/31/08	<0.05	<0.05	<0.05
	11/4/08	<0.05	<0.05	<0.05
	11/10/08	<0.05	<0.05	<0.05
	11/19/08	<0.05	<0.05	<0.05

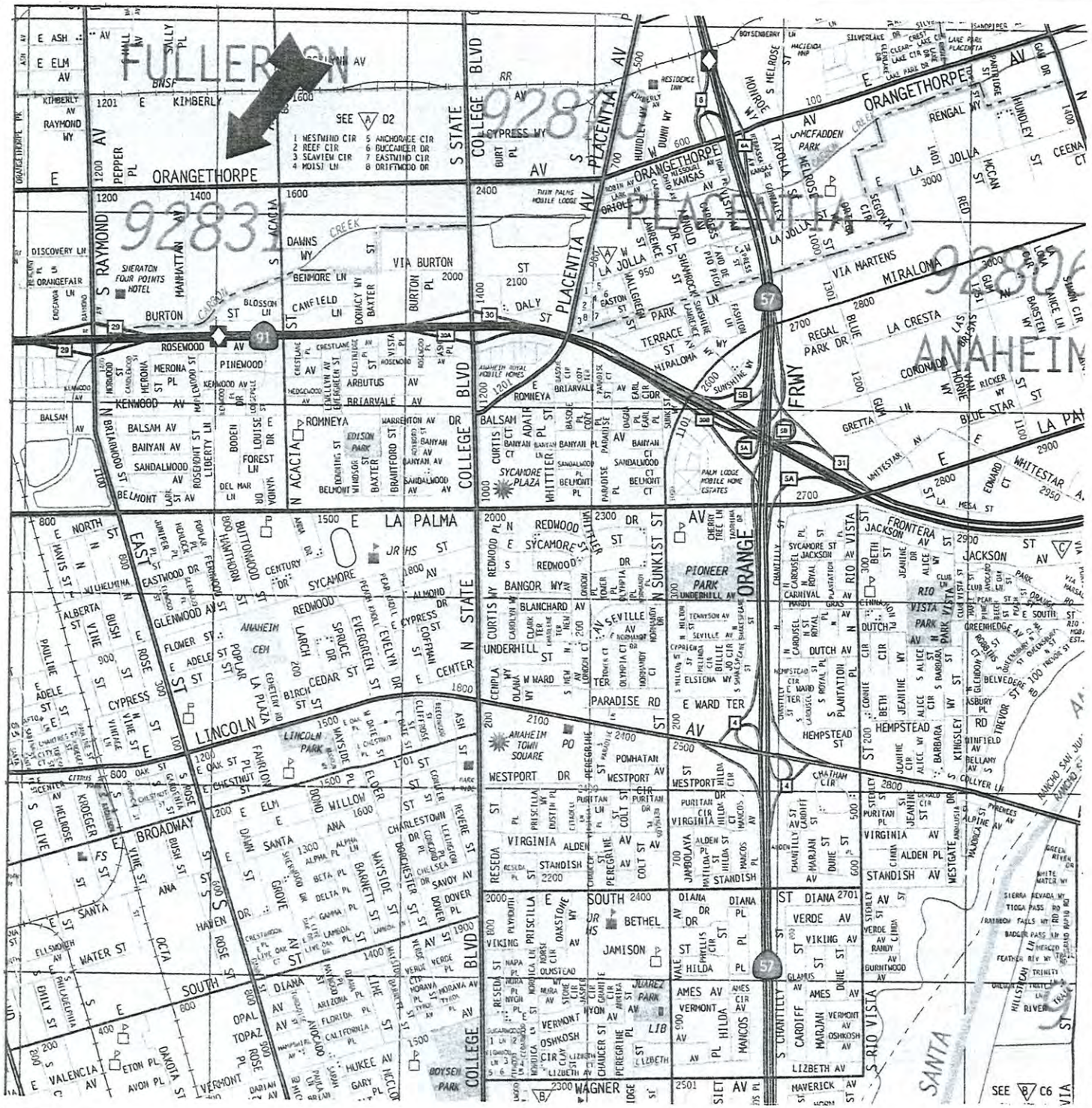
Notes:
- Samples collected from 1/4/08 through 2/14/08 were reported in mg/L by the laboratory and converted to ppmv.
- Samples collected from 3/7/08 through 7/8/08 were reported in ug/L by the laboratory and converted to ppmv .

TABLE 4

SUMMARY OF OPERATIONAL DATA AND MASS REMOVAL
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Sample ID	Date Sampled	Sample Concentration				Pipe Dia.	Flow Rate	Cumulative Time	Mass Removed	
		PCE ppmv	PCE ug/L	TCE ppmv	TCE ug/L	inches	cfm	hrs	Cumulative PCE lbs	Cumulative TCE lbs
Inlet	1/4/2008	17.971	124	10.182	56	4	88.6	0.0	0.00	0.00
Inlet	1/11/2008	10.000	69	3.091	17	4	133.5	161.8	5.57	0.69
Inlet	1/17/2008	8.261	57	1.818	10	4	222.2	308.1	12.50	1.29
Inlet	1/21/2008	6.232	43	1.273	7	4	247.2	401.1	16.19	1.59
Inlet	1/30/2008	5.217	36	1.455	8	4	185.7	619	21.64	2.20
Inlet	2/5/2008	3.043	21	<RL	<RL	4	269.3	761	24.64	2.20
Inlet	2/14/2008	2.899	20	0.909	5	4	306.8	977.1	29.60	2.82
Inlet	3/7/2008	0.893	6.16	1.105	6.08	4	330.2	1201.9	31.31	3.66
Inlet	3/11/2008	0.642	4.43	1.069	5.88	4	157.3	1298.3	31.56	3.83
Inlet	3/20/2008	0.638	4.40	0.953	5.24	4	130.1	1515.3	32.02	4.11
Inlet	3/27/2008	0.358	2.47	0.375	2.06	4	162.0	1681.2	32.27	4.21
Inlet	4/2/2008	0.900	6.21	1.504	8.27	4	162.0	1823.6	32.80	4.57
Inlet	4/10/2008	0.951	6.56	0.864	4.75	4	121.4	2018.2	33.38	4.78
Inlet	4/15/2008	0.907	6.26	0.385	2.12	4	158.6	2137.9	33.83	4.85
Inlet	4/25/2008	1.132	7.81	0.651	3.58	4	132.9	2371.8	34.73	5.06
Inlet	5/5/2008	1.120	7.73	0.267	1.47	4	160.5	2493.1	35.30	5.11
Inlet	5/14/2008	0.909	6.27	0.211	1.16	4	150.4	2707.9	36.05	5.18
Inlet	5/19/2008	0.797	5.50	0.436	2.40	4	123.0	2828.6	36.36	5.25
Inlet	5/27/2008	0.965	6.66	0.385	2.12	4	123.0	3020.1	36.95	5.34
Inlet	6/2/2008	1.390	9.59	0.716	3.94	4	256.8	3163	38.26	5.61
Inlet	6/12/2008	1.084	7.48	0.278	1.53	4	225.0	3403.2	39.77	5.77
Inlet	6/19/2008	0.865	5.97	0.367	2.02	4	136.1	3569.6	40.28	5.85
Inlet	6/23/2008	0.762	5.26	<RL	<RL	4	229.6	3667.3	40.72	5.85
Inlet	7/3/2008	0.978	6.75	<RL	<RL	4	225.2	3905.8	42.07	5.85
Inlet	7/8/2008	0.710	4.90	<RL	<RL	4	176.0	4027.1	42.46	5.85
Inlet	7/17/2008	0.360	2.48	<RL	<RL	4	172.2	4243.8	42.81	5.85
Inlet	8/4/2008	0.490	3.38	<RL	<RL	4	158.2	4677.2	43.68	5.85
Inlet	8/11/2008	1.750	12.08	0.470	2.59	4	105.2	4844.7	44.47	5.94
Inlet	8/18/2008	0.140	0.97	<RL	<RL	4	167.8	5014.1	44.58	5.94
Inlet	8/25/2008	0.470	3.24	<RL	<RL	4	153.0	5179.3	44.88	5.94
Inlet	9/2/2008	0.720	4.97	0.420	2.31	4	190.2	5373.3	45.57	6.10
Inlet	9/11/2008	0.910	6.28	<RL	<RL	4	111.2	5585.6	46.12	6.10
Inlet	9/19/2008	0.110	0.76	<RL	<RL	4	139.3	5778.1	46.20	6.10
Inlet	9/23/2008	0.280	1.93	<RL	<RL	4	136.6	5874.7	46.29	6.10
Inlet	9/30/2008	1.120	7.73	0.560	3.08	4	106.4	6041.6	46.81	6.20
Inlet	10/6/2008	0.860	5.93	0.410	2.26	4	143.1	6185	47.26	6.29
Inlet	10/13/2008	0.270	1.86	0.190	1.05	4	129.9	6354	47.41	6.33
Inlet	10/15/2008	1.160	8.00	<RL	<RL	4	129.9	6402	47.60	6.33
Inlet	10/21/2008	0.570	3.93	0.860	4.73	4	106.6	6526.7	47.80	6.45
Inlet	10/30/2008	1.870	12.90	0.300	1.65	4	107.9	6784.6	49.14	6.53
Inlet	11/4/2008	<RL	<RL	<RL	<RL	4	140.0	6881	49.14	6.53
Inlet	11/10/2008	0.150	1.04	0.260	1.43	4	105.1	7013.8	49.19	6.57
Inlet	11/19/2008	0.400	2.76	<RL	<RL	4	87.6	7230.1	49.39	6.57
Inlet	11/26/2008	0.400	2.76	<RL	<RL	4	124.2	7256.1	49.42	6.57
Inlet	11/28/2008	0.400	2.76	<RL	<RL	4	124.3	7305.5	49.48	6.57

FIGURES



General Notes

N
W E
S

*ADAPTED FROM GOOGLEMAPS 2008

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe
Fullerton, CA

Number
7115

Figure Details

SITE LOCATION MAP

Figure #
Figure 1

Revise Date
July 23, 2008

0' 2,400'
Approximate Scale

Scale
1" = 2,400'

Company Information

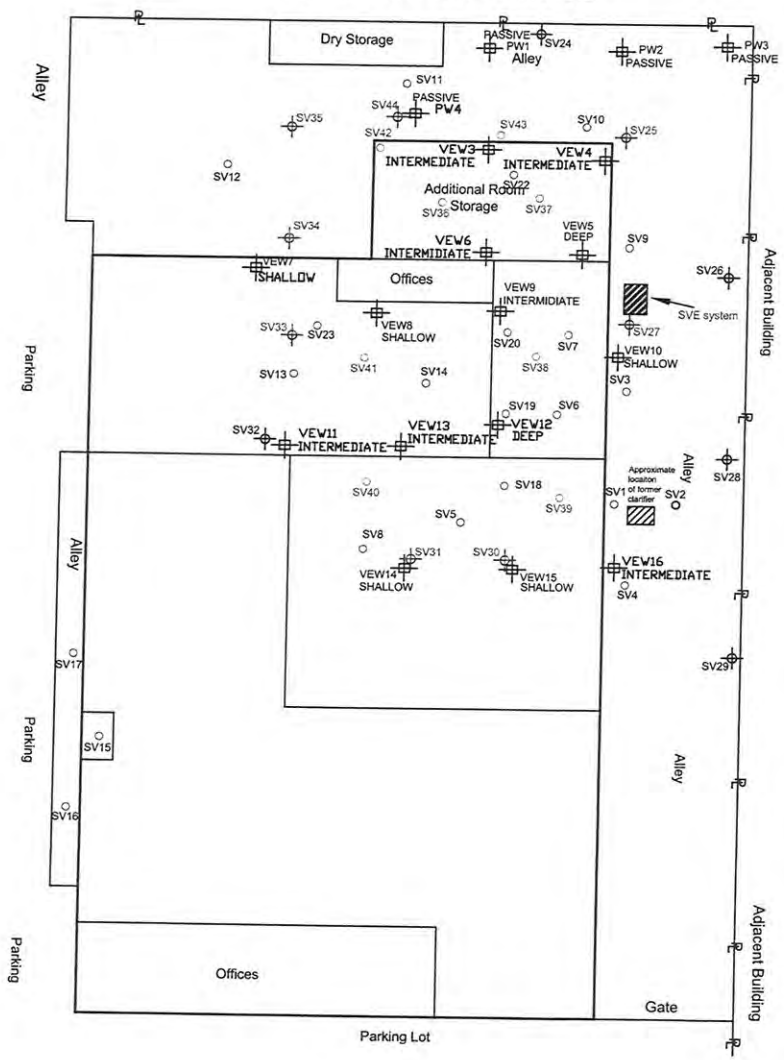
Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls



NORTH

General Notes

- SHALLOW: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH VERIFICATION SAMPLE LOCATIONS

Figure #
Figure 2

Revise Date
March 2009

0' 60' Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5597

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(714) 730-6476

THE REYNOLDS GROUP ENVIRONMENTAL SERVICES

Figure 3 - Cumulative PCE & TCE Removed over Time

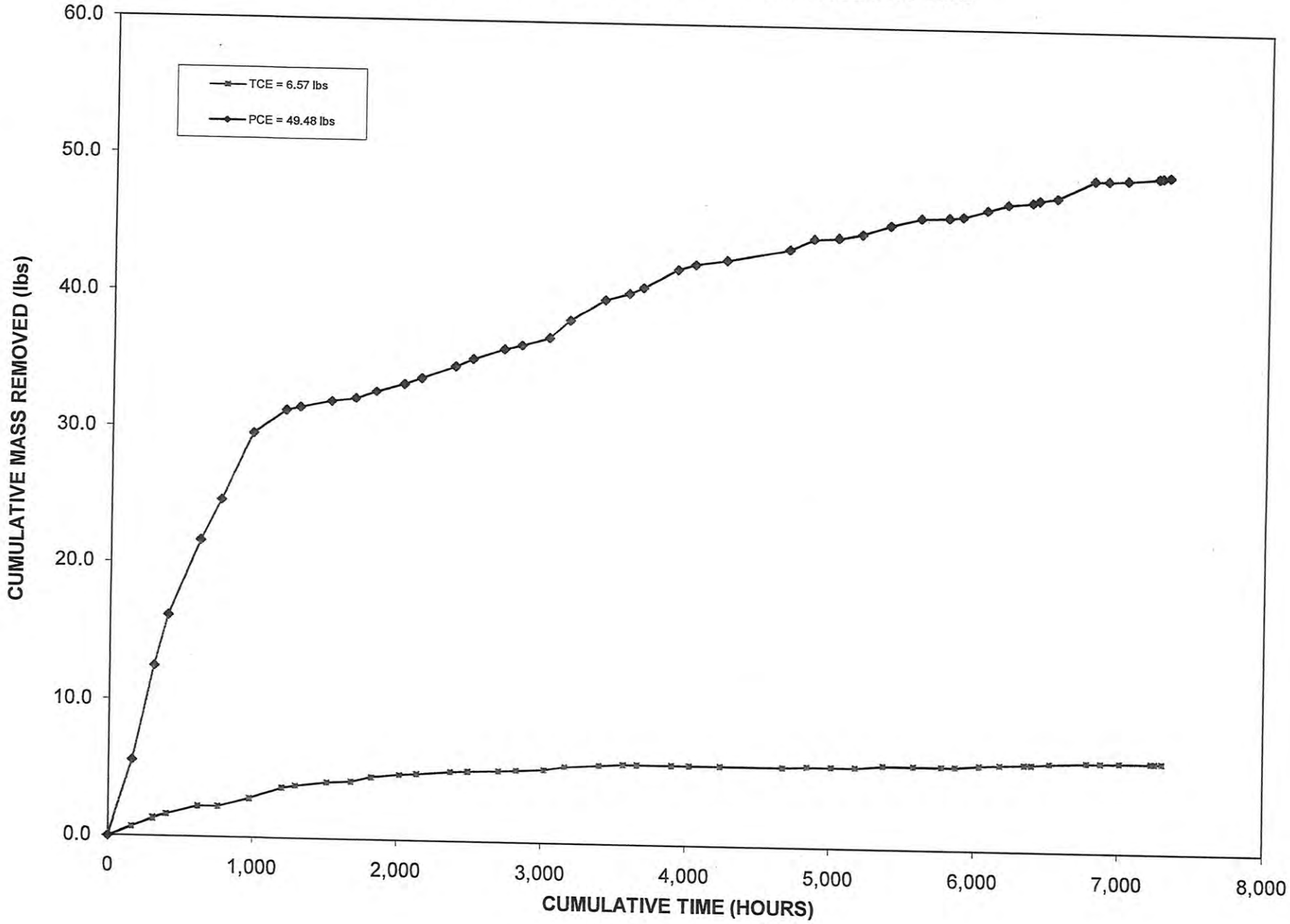
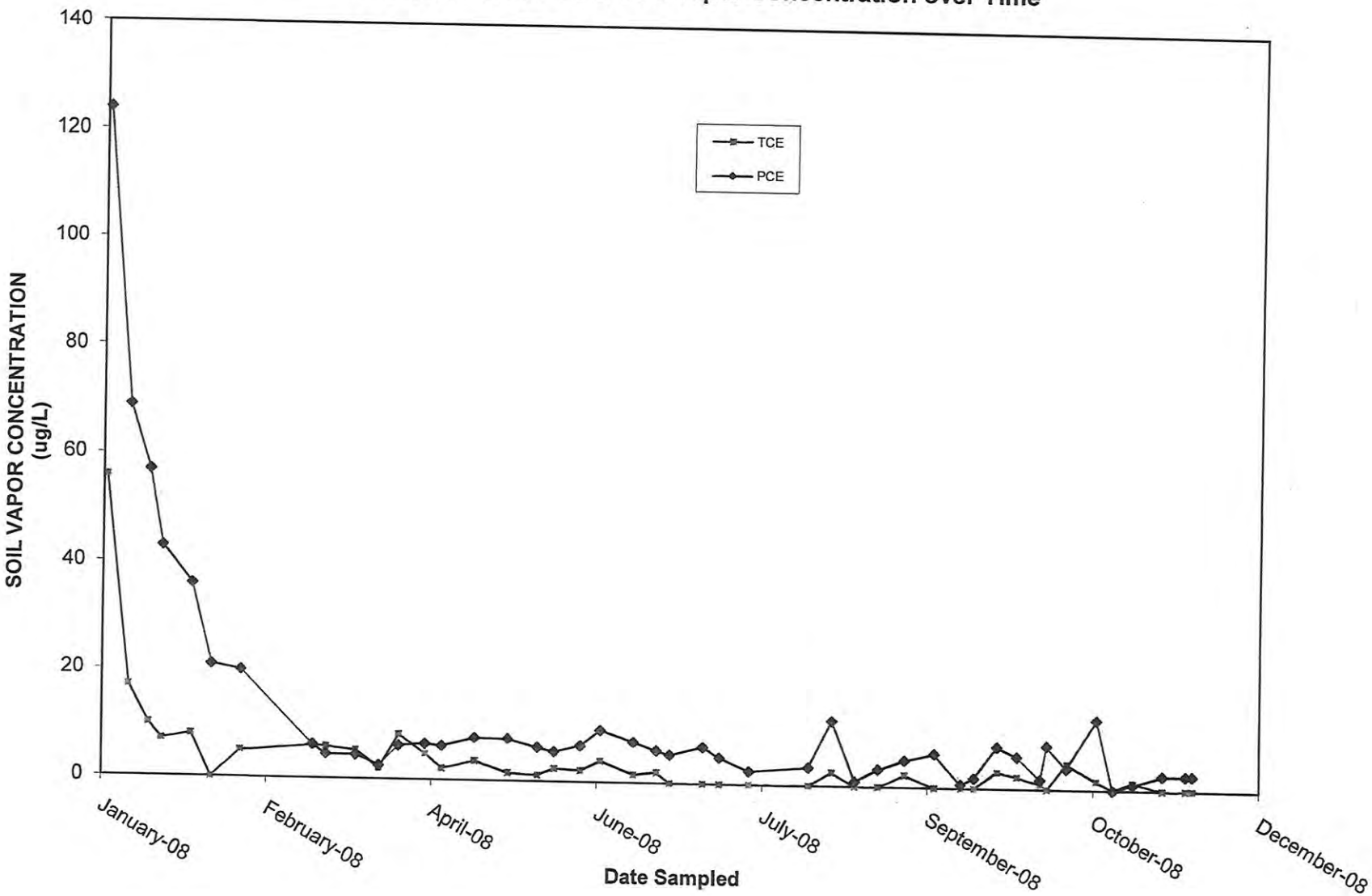


FIGURE 4 - Inlet PCE & TCE Vapor Concentration over Time



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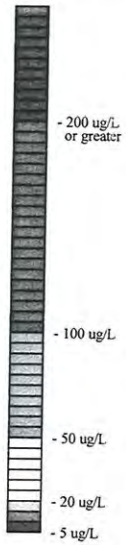

HILTON

General Notes

SHALLOW -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)

-Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)

DEEP -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)

PASSIVE -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)

-Temporary Soil Vapor Probe Location

○ - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH PRE-REMEDIATION SOIL VAPOR CONCENTRATION CONTOURS AT 1 AND 5 FT BGS

Figure #
Figure 5

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
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(714) 730-5397

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(714) 730-6476

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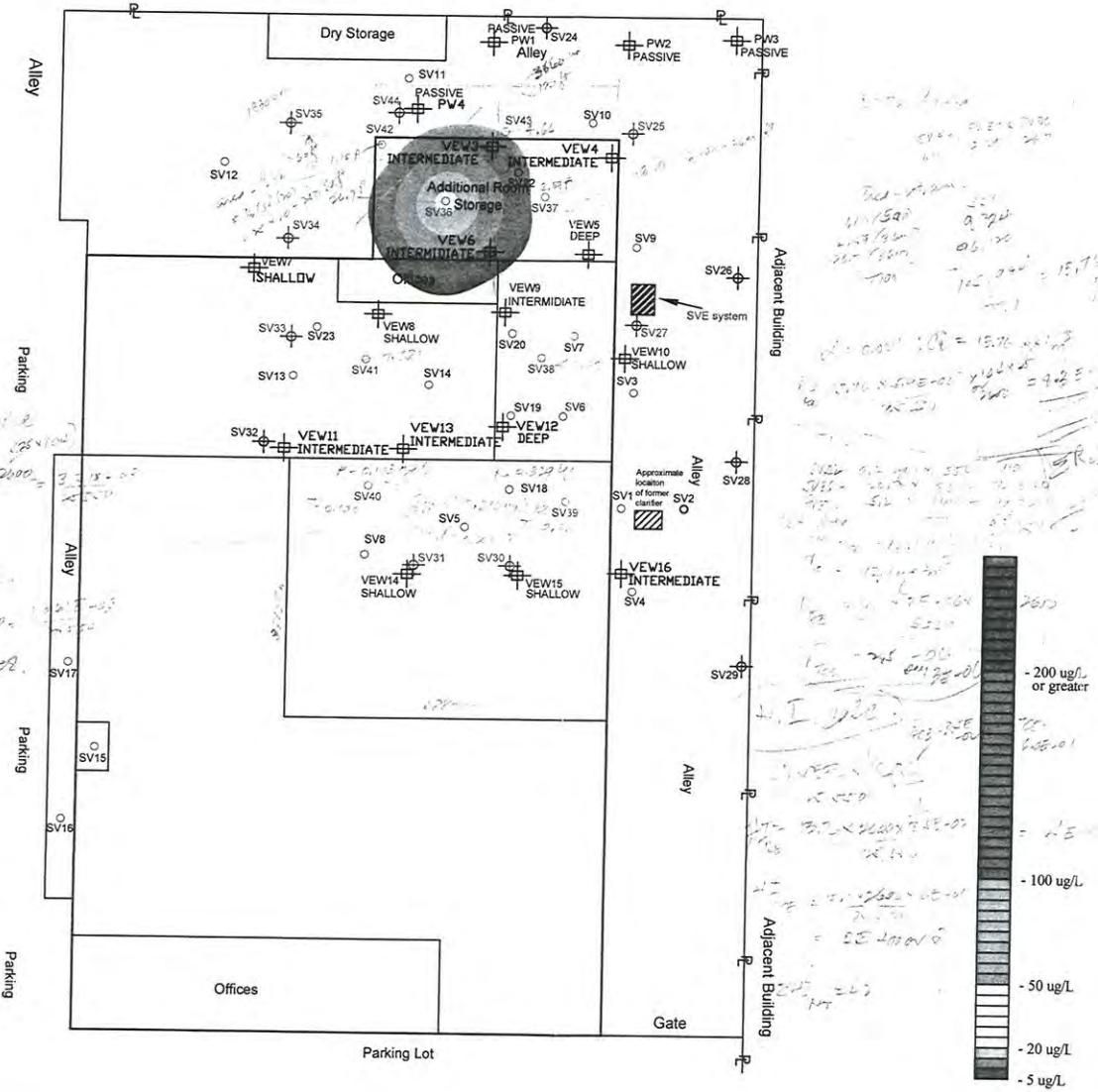
ENVIRONMENTAL SERVICES

Former Johnson Controls



NORTH

General Notes

- SHALLOW: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- ○ - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH POST-REMEDIATION SOIL VAPOR CONCENTRATION CONTOURS AT 1 FT BGS

Figure #
Figure 6

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
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(714) 730-6476

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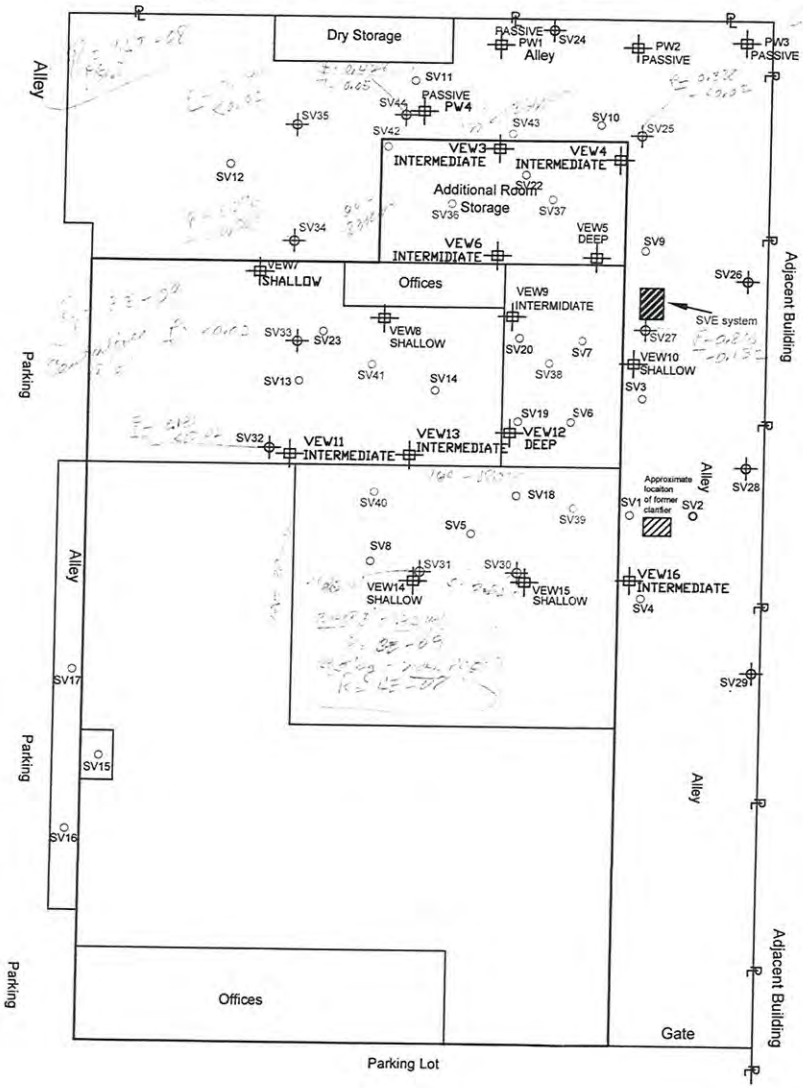
ENVIRONMENTAL SERVICES



General Notes

- SHALLOW: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH UPDATED POST-REMEDIATION SOIL VAPOR CONCENTRATION CONTOURS AT 5 FT BGS

Figure #
Figure 7

Revise Date
March 2009

Approximate Scale: 0' 60'

Scale
1" = 60'

Company Information

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(714) 730-6476

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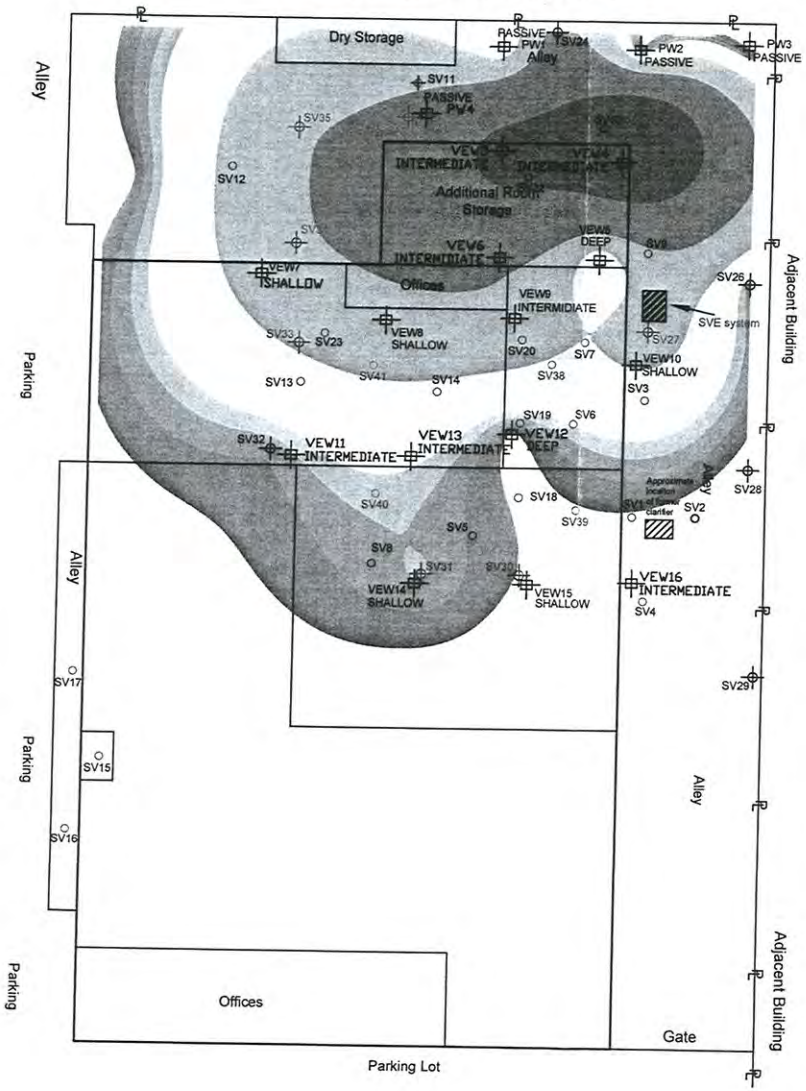

- 200 ug/L or greater
- 100 ug/L
- 50 ug/L
- 20 ug/L
- 5 ug/L

NORTH

General Notes

- SHALLOW: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH PRE-REMEDIATION SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS

Figure #
Figure 8

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
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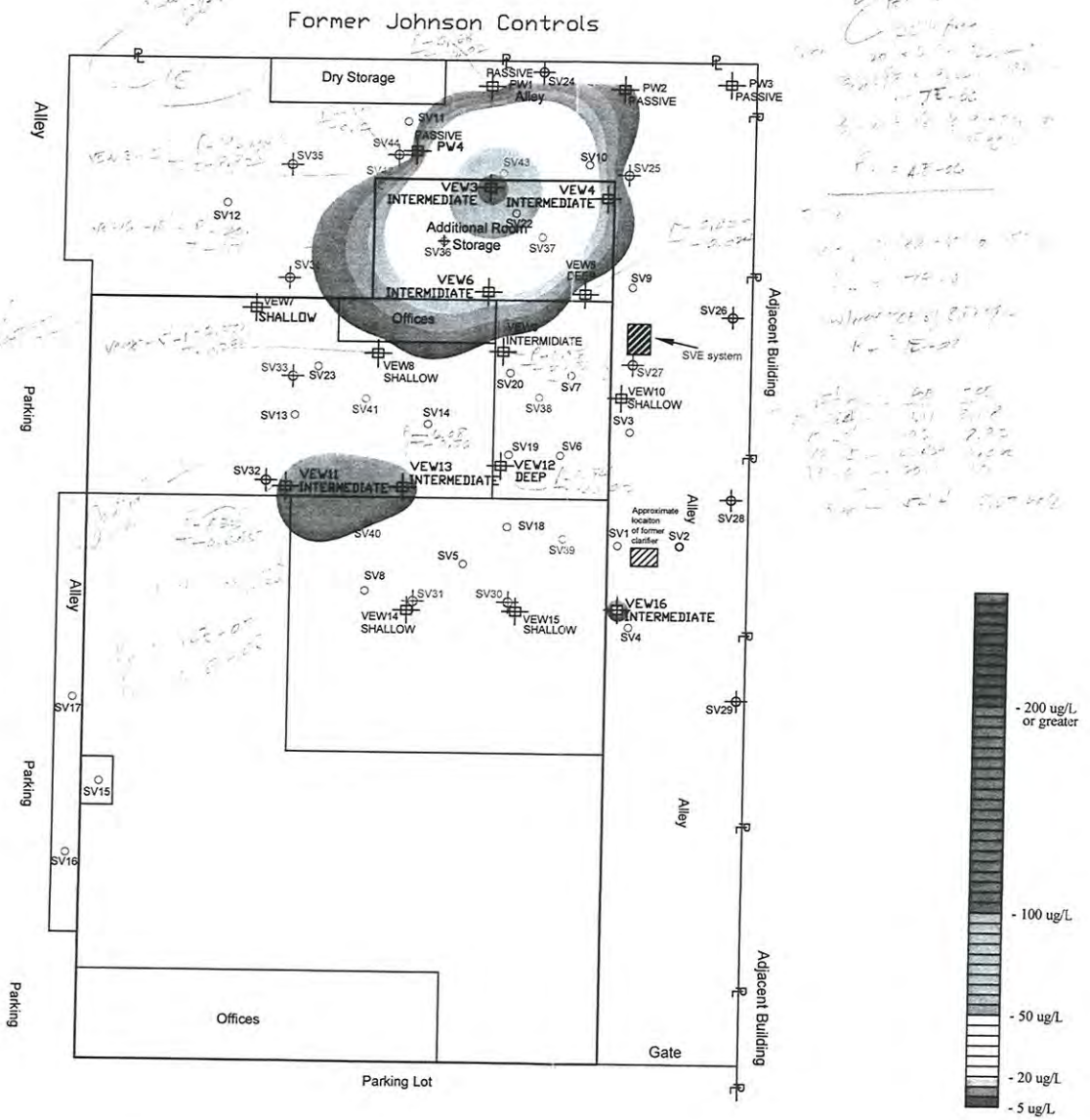
ENVIRONMENTAL SERVICES



NORTH

General Notes

- SHALLOW: -Vapor Extraction Well Locaiton (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH UPDATED POST-REMEDIATIONSOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS

Figure #
Figure 9

Revise Date
March 2009

0 60
Approximate Scale

Scale
1" = 60'

Company Information

Address
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THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

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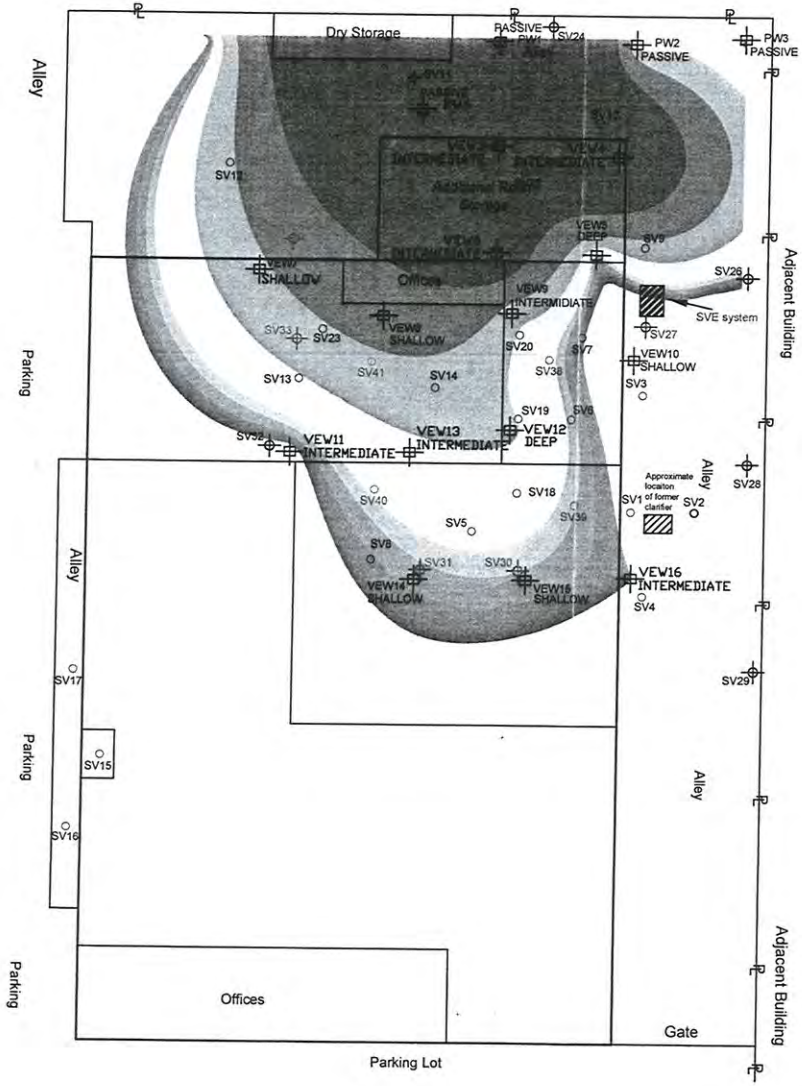

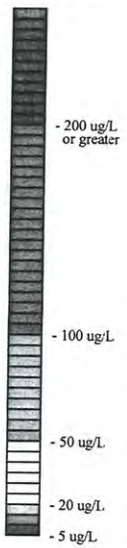

NORTH

General Notes

- SHALLOW -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH PRE-REMEDIATION SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS

Figure #
Figure 10

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
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Tustin, CA 92780

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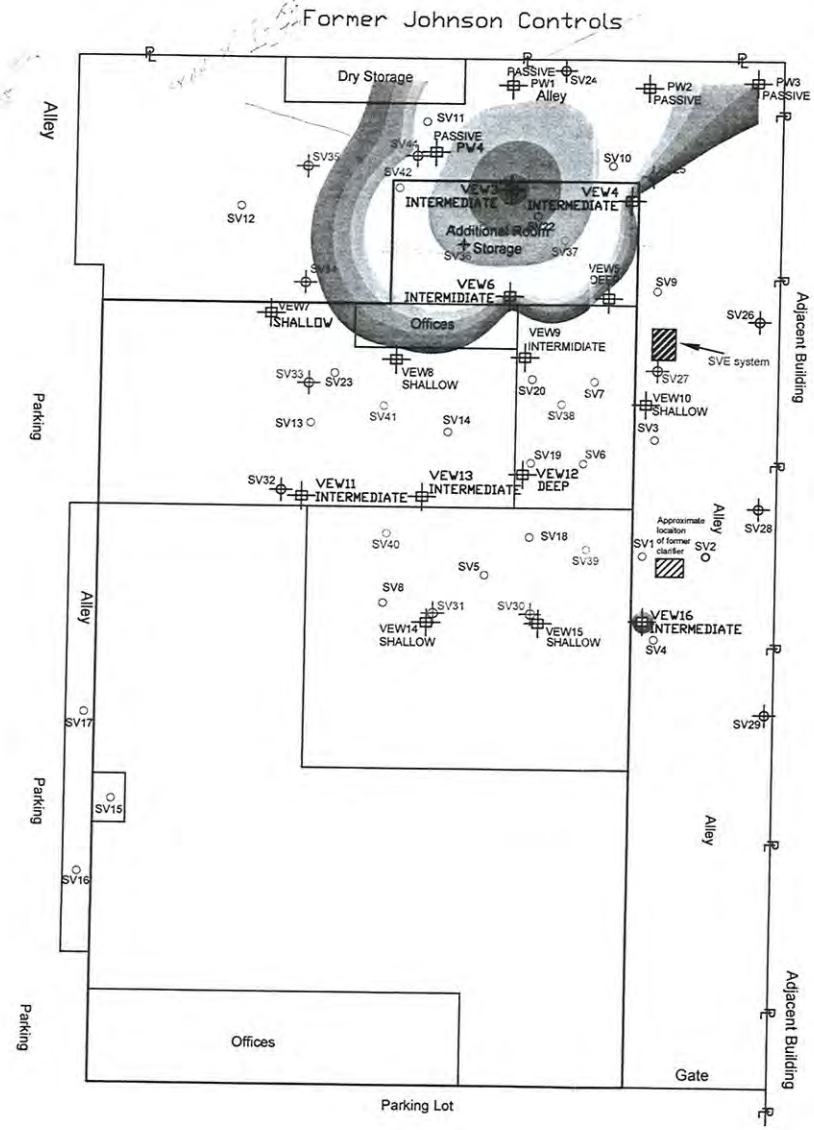
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES



NORTH

General Notes

- SHALLOW: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH UPDATED POST-REMEDIATION SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS

Figure #
Figure 11

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
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THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

ATTACHMENT A

OCHCA WORKPLAN APPROVAL LETTER DATED FEBRUARY 10, 2009

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH

Excellence
Integrity
Service

JULIETTE A. POULSON, RN, MN
DIRECTOR

DAVID M. SOULELES, MPH
DEPUTY AGENCY DIRECTOR

RICHARD SANCHEZ, REHS, MPH
INTERIM DIRECTOR
ENVIRONMENTAL HEALTH

MAILING ADDRESS:
1241 EAST DYER ROAD, SUITE 120
SANTA ANA, CA 92705-5611

TELEPHONE: (714) 433-6000
FAX: (714) 754-1732
E-MAIL: ehealth@ochca.com

February 10, 2009

Dominick Baione
Universal Molding Extrusion Company
9151 East Imperial Highway
Downey, CA 90242

Subject: **Revised Work Plan for Verification Sampling**

Re: Fullerton Business Park-North
1551 Orangethorpe Avenue
Fullerton, CA 92833
OCHCA Case #07IC015

Dear Mr. Baione:

Orange County Health Care Agency (OCHCA), Environmental Health has reviewed the subject work plan, dated February 4, 2009, submitted by your consultant, The Reynolds Group (TRG), and found it acceptable.

Since this verification event must be witnessed by OCHCA, please advise TRG to notify the undersigned at least 48 hours in advance of the sampling activity.

If you have any questions regarding this matter, please contact the undersigned at (714) 433-6253 or LLodrigueza@ochca.com.

Sincerely,

(Original Signed)
Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Mitigation Section
Environmental Health Division

cc: Kamron Saremi, California Regional Water Quality Control Board- Santa Ana Region
Alejandro Fuan, The Reynolds Group, PO Box 1996, Tustin, CA 92781-1996
James R. McFadden, Grubb & Ellis, 500 North State College Suite 100, Orange, CA 92868
John C. Glaser, Glaser, Tonsich & Associates, LLC, 765 West 9th Street, San Pedro, CA 90731

ATTACHMENT B

LABORATORY ANALYTICAL REPORT AND CHAIN OF CUSTODY DOCUMENTATION

Jones Environmental, Inc.

Testing Laboratories

P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 449-9685

JONES ENVIRONMENTAL

LABORATORY REPORT

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples are collected in glass gas-tight syringes equipped with Teflon plungers. Tubing placed in the ground for soil gas sampling is purged three different times as recommended by DTSC/RWQCB regulations. This purge test determines how many purges of the soil gas tubing are needed throughout the project. One, three and seven purge volumes were analyzed to make this determination.

A tracer gas, n-Propanol, was placed at the tubing-surface interface before sampling. This compound is analyzed during the 8260B analytical run to determine if there are surface leaks into the subsurface due to improper installation of the probe. No n-Propanol was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min except when noted differently on the chain of custody record using a gas tight syringe. 1 & 3 purge volumes were used since this purging level gave the highest results for the compound(s) of greatest interest.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification , QC Reference Standards, Instrument Blanks and Ambient Air Blanks are analyzed every 12 hours as prescribed by the method. In addition, Matrix Spike (MS) and Matrix Spike Duplicates (MSD) are analyzed with each batch of Soil Gas samples. A duplicate sample is analyzed each day of the sampling activity.

All samples were analyzed within 30 minutes of sampling.

Approval:

Steve Jones, Ph.D.
Laboratory Manager

Jones Environmental, Inc.
Testing Laboratories
P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV27-5 1P	SV27-5 3P	SV27-5 7P	SV27-15 1P	SV27-15 3P	Practical Quantitation Limits	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L

ND = Not Detected

Jones Environmental, Inc.
Testing Laboratories
P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV27-5 1P	SV27-5 3P	SV27-5 7P	SV27-15 1P	SV27-15 3P	**Practical Quantitation Limits**	**Units**
Analytes:							
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	ND	ND	ND	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	**0.816**	**0.745**	**0.678**	**0.756**	**0.940**	0.020	ug/L
Toluene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	**0.117**	**0.127**	**0.109**	**0.146**	**0.184**	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	**0.096**	**0.132**	**0.108**	**0.050**	**0.063**	0.020	ug/L

ND = Not Detected

Jones Environmental, Inc.

Testing Laboratories

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(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV27-5 1P	SV27-5 3P	SV27-5 7P	SV27-15 1P	SV27-15 3P	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.100	ug/L
TIC							
n-Propanol	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	99%	96%	95%	94%	98%	60 - 140	
Toluene-d_8	94%	95%	99%	94%	91%	60 - 140	
4-Bromofluorobenzene	94%	97%	98%	100%	106%	60 - 140	

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV27-15 7P	SV25-5	SV25-15	PW1-5	SV34-5	Practical Quantitation Limits	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV27-15 7P	SV25-5	SV25-15	PW1-5	SV34-5	Practical Quantitation Limits	Units
Analytes:							
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	ND	ND	**0.053**	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	**0.679**	**0.338**	**1.11**	ND	**0.276**	0.020	ug/L
Toluene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	**0.155**	**0.076**	**0.144**	ND	ND	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	**0.050**	ND	ND	ND	**0.064**	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV27-15 7P	SV25-5	SV25-15	PW1-5	SV34-5	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.100	ug/L
TIC							
n-Propanol	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	90%	91%	102%	92%	92%	60 - 140	
Toluene-d_8	99%	92%	89%	95%	94%	60 - 140	
4-Bromofluorobenzene	102%	100%	110%	101%	101%	60 - 140	

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	PW1-15	SV34-15	SV35-5	PW1-25	SV35-15	Practical Quantitation Limits	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	**0.246**	ND	**1.47**	ND	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	PW1-15	SV34-15	SV35-5	PW1-25	SV35-15	Practical Quantitation Limits	Units
Analytes:							
cis-1,2-Dichloroethene	ND	ND	ND	**1.08**	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	ND	ND	ND	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	**0.168**	**2.68**	**0.198**	**38.8**	**0.156**	0.020	ug/L
Toluene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	ND	**0.074**	ND	**0.078**	ND	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	ND	**0.430**	ND	**4.07**	ND	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	PW1-15	SV34-15	SV35-5	PW1-25	SV35-15	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.100	ug/L
TIC							
n-Propanol	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	98%	93%	98%	87%	92%	60 - 140	
Toluene-d_8	89%	92%	91%	97%	95%	60 - 140	
4-Bromofluorobenzene	111%	107%	103%	100%	101%	60 - 140	

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW12-15	SV44-5	SV44-15	SV44-25	SV44-25 DUP	**Practical Quantitation Limits**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	**0.132**	**0.101**	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	ND	ND	**0.787**	**0.626**	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW12-15	SV44-5	SV44-15	SV44-25	SV44-25 DUP	**Practical Quantitation Limits**	**Units**
Analytes:							
cis-1,2-Dichloroethene	ND	**0.240**	**0.862**	**19.2**	**16.0**	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	ND	ND	ND	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	**0.184**	**0.428**	**1.11**	**25.5**	**17.3**	0.020	ug/L
Toluene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	**1.76**	ND	ND	ND	ND	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	ND	**0.050**	**0.118**	**7.71**	**6.40**	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW12-15	SV44-5	SV44-15	SV44-25	SV44-25 DUP	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.100	ug/L
TIC							
n-Propanol	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	89%	99%	86%	94%	88%	60 - 140	
Toluene-d_8	97%	89%	94%	91%	94%	60 - 140	
4-Bromofluorobenzene	98%	105%	99%	108%	104%	60 - 140	

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV30-5	VEW12-25	SV30-15	VEW9-15	SV30-15 DUP	Practical Quantitation Limits	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	**0.684**	**8.52**	**1.08**	**1.99**	**0.962**	0.020	ug/L

ND = Not Detected

Jones Environmental, Inc.

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV30-5	VEW12-25	SV30-15	VEW9-15	SV30-15 DUP	**Practical Quantitation Limits**	**Units**
Analytes:							
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	**0.158**	**0.624**	**0.176**	**0.038**	**0.158**	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	**2.62**	**0.918**	**6.35**	**1.58**	**6.22**	0.020	ug/L
Toluene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	**1.50**	**3.19**	**3.48**	**0.274**	**2.86**	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	**1.80**	**4.94**	**5.39**	**2.08**	**4.75**	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV30-5	VEW12-25	SV30-15	VEW9-15	SV30-15 DUP	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	**0.230**	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.100	ug/L
TIC							
n-Propanol	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	108%	103%	108%	109%	105%	60 - 140	
Toluene-d_8	98%	96%	98%	95%	98%	60 - 140	
4-Bromofluorobenzene	100%	98%	99%	97%	98%	60 - 140	

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW5-15	VEW9-25	SV31-15	VEW5-25	VEW5-25 DUP	Practical Quantitation Limits	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW5-15	VEW9-25	SV31-15	VEW5-25	VEW5-25 DUP	**Practical Quantitation Limits**	**Units**
Analytes:							
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	ND	ND	ND	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	**0.429**	ND	**0.068**	**0.267**	**0.303**	0.020	ug/L
Toluene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	**0.186**	**0.178**	**0.189**	ND	ND	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	**0.024**	ND	**0.029**	ND	ND	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW5-15	VEW9-25	SV31-15	VEW5-25	VEW5-25 DUP	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.100	ug/L
TIC							
n-Propanol	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	110%	107%	108%	106%	106%	60 - 140	
Toluene-d_8	97%	96%	97%	97%	95%	60 - 140	
4-Bromofluorobenzene	97%	97%	98%	98%	96%	60 - 140	

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV31-5	SV32-5	SV32-15	VEW16-15	SV33-5	Practical Quantitation Limits	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	**0.546**	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	ND	ND	**13.7**	ND	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV31-5	SV32-5	SV32-15	VEW16-15	SV33-5	**Practical Quantitation Limits**	**Units**
Analytes:							
cis-1,2-Dichloroethene	ND	ND	ND	**0.100**	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	ND	ND	ND	**7.81**	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	ND	**0.132**	ND	**20.5**	ND	0.020	ug/L
Toluene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	**0.204**	ND	ND	**51.1***	ND	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	**0.142**	ND	ND	**26.9**	ND	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV31-5	SV32-5	SV32-15	VEW16-15	SV33-5	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.100	ug/L
TIC							
n-Propanol	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	1/10*	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	104%	102%	112%	102%	110%	60 - 140	
Toluene-d_8	97%	97%	97%	97%	93%	60 - 140	
4-Bromofluorobenzene	102%	101%	101%	99%	98%	60 - 140	

ND = Not Detected
* = Dilutions for these compound(s); first number of all others

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW16-25	SV33-15	VEW3-25	VEW4-25	SV37 1P	Practical Quantitation Limits	Units
Analytes:							
Benzene	**0.033**	ND	**0.023**	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	**0.467**	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	**0.821**	ND	**0.815**	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	**0.157**	ND	ND	0.020	ug/L
1,1-Dichloroethene	**12.9**	**0.131**	**21.5**	**0.283**	**2.71**	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW16-25	SV33-15	VEW3-25	VEW4-25	SV37 1P	Practical Quantitation Limits	Units
Analytes:							
cis-1,2-Dichloroethene	**0.140**	ND	**3.65**	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	**0.304**	0.020	ug/L
Freon 113	**7.67**	ND	**1.17**	**0.258**	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	**20.6**	ND	**767***	**2.77**	**2.36**	0.020	ug/L
Toluene	ND	ND	ND	ND	**0.704**	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	**140***	ND	**0.771**	**0.272**	**1.43**	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	**36.8***	ND	**107***	**0.149**	**4.77**	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW16-25	SV33-15	VEW3-25	VEW4-25	SV37 1P	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	ND	ND	**0.035**	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	**0.031**	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	**0.077**	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.100	ug/L
TIC							
n-Propanol	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1/10*	1	1/20*	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	98%	112%	105%	116%	96%	60 - 140	
Toluene-d_8	98%	96%	91%	96%	99%	60 - 140	
4-Bromofluorobenzene	97%	103%	96%	99%	101%	60 - 140	

ND = Not Detected
* = Dilutions for these compound(s); first number of all others

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW6-15	VEW6-25	SV37 3P	VEW3-15	SV37 7P	Practical Quantitation Limits	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	**0.108**	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	**0.268**	**7.72**	**3.04**	ND	**2.74**	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW6-15	VEW6-25	SV37 3P	VEW3-15	SV37 7P	Practical Quantitation Limits	Units
Analytes:							
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	**0.345**	ND	ND	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	**20.1**	**8.15**	**2.59**	**196**	**2.21**	0.020	ug/L
Toluene	ND	ND	**0.150**	ND	**0.179**	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	**0.256**	**0.466**	**1.48**	ND	**1.50**	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	**1.71**	**5.60**	**5.20**	**8.82**	**4.62**	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW6-15	VEW6-25	SV37 3P	VEW3-15	SV37 7P	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	**0.077**	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	**0.046**	ND	**0.030**	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.100	ug/L
TIC							
n-Propanol	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	20	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	116%	121%	101%	109%	105%	60 - 140	
Toluene-d_8	93%	94%	96%	95%	95%	60 - 140	
4-Bromofluorobenzene	101%	99%	109%	97%	106%	60 - 140	

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW11-15	SV38	VEW11-25	VEW13-15	VEW8-15	Practical Quantitation Limits	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	ND	**1.25**	ND	ND	0.020	ug/L

ND = Not Detected

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LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW11-15	SV38	VEW11-25	VEW13-15	VEW8-15	**Practical Quantitation Limits**	**Units**
Analytes:							
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	ND	ND	ND	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	**8.33**	ND	**0.984**	**6.08**	**2.50**	0.020	ug/L
Toluene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	**0.633**	**0.877**	**0.138**	**0.375**	**0.313**	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	**0.685**	ND	**3.01**	**0.760**	**0.294**	0.020	ug/L

ND = Not Detected

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Testing Laboratories
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(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW11-15	SV38	VEW11-25	VEW13-15	VEW8-15	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	**0.120**	ND	ND	ND	0.100	ug/L
TIC							
n-Propanol	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	108%	110%	98%	112%	104%	60 - 140	
Toluene-d_8	93%	96%	99%	92%	95%	60 - 140	
4-Bromofluorobenzene	101%	98%	107%	101%	97%	60 - 140	

ND = Not Detected

Jones Environmental, Inc.

Testing Laboratories

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW8-15 DUP	SV39	SV39 DUP	SV40	SV42	**Practical Quantitation Limits**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	ND	ND	ND	0.020	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	**1.16**	**1.18**	ND	ND	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW8-15 DUP	SV39	SV39 DUP	SV40	SV42	**Practical Quantitation Limits**	**Units**
Analytes:							
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Freon 113	ND	**0.316**	**0.316**	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	**2.27**	**0.307**	**0.329**	**0.103**	**1.10**	0.020	ug/L
Toluene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	**0.225**	**0.436**	**0.433**	ND	**0.170**	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.020	ug/L
Trichloroethylene	**0.302**	**0.547**	**0.564**	**0.100**	**0.200**	0.020	ug/L

ND = Not Detected

Jones Environmental, Inc.

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW8-15 DUP	SV39	SV39 DUP	SV40	SV42	**Practical Quantitation Limits**	**Units**
Analytes:							
Trichlorofluoromethane	ND	ND	**0.051**	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.100	ug/L
TIC							
n-Propanol	ND	ND	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recovery :						**QC Limits**	
Dibromofluoromethane	101%	108%	108%	105%	108%	60 - 140	
Toluene-d_8	100%	91%	97%	97%	96%	60 - 140	
4-Bromofluorobenzene	103%	100%	98%	96%	105%	60 - 140	

ND = Not Detected

Jones Environmental, Inc.

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV41	SV43	SV36	Practical Quantitation Limits	Units
Analytes:					
Benzene	ND	ND	ND	0.020	ug/L
Bromobenzene	ND	ND	ND	0.020	ug/L
Bromodichloromethane	ND	ND	ND	0.020	ug/L
Bromoform	ND	ND	ND	0.020	ug/L
n-Butylbenzene	ND	ND	ND	0.020	ug/L
sec-Butylbenzene	ND	ND	ND	0.020	ug/L
tert-Butylbenzene	ND	ND	ND	0.020	ug/L
Carbon tetrachloride	ND	ND	ND	0.020	ug/L
Chlorobenzene	ND	ND	ND	0.020	ug/L
Chloroethane	ND	ND	ND	0.020	ug/L
Chloroform	ND	ND	**0.190**	0.020	ug/L
Chloromethane	ND	ND	ND	0.020	ug/L
2-Chlorotoluene	ND	ND	ND	0.020	ug/L
4-Chlorotoluene	ND	ND	ND	0.020	ug/L
Dibromochloromethane	ND	ND	ND	0.020	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.020	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.020	ug/L
Dibromomethane	ND	ND	ND	0.020	ug/L
1,2- Dichlorobenzene	ND	ND	ND	0.020	ug/L
1,3-Dichlorobenzene	ND	ND	ND	0.020	ug/L
1,4-Dichlorobenzene	ND	ND	ND	0.020	ug/L
Dichlorodifluoromethane	ND	ND	ND	0.020	ug/L
1,1-Dichloroethane	ND	ND	ND	0.020	ug/L
1,2-Dichloroethane	ND	ND	ND	0.020	ug/L
1,1-Dichloroethene	ND	ND	**0.433**	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV41	SV43	SV36	Practical Quantitation Limits	Units
Analytes:					
cis-1,2-Dichloroethene	ND	ND	ND	0.020	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	0.020	ug/L
1,2-Dichloropropane	ND	ND	ND	0.020	ug/L
1,3-Dichloropropane	ND	ND	ND	0.020	ug/L
2,2-Dichloropropane	ND	ND	ND	0.020	ug/L
1,1-Dichloropropene	ND	ND	ND	0.020	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	0.020	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	0.020	ug/L
Ethylbenzene	ND	ND	ND	0.020	ug/L
Freon 113	ND	ND	ND	0.020	ug/L
Hexachlorobutadiene	ND	ND	ND	0.020	ug/L
Isopropylbenzene	ND	ND	ND	0.020	ug/L
4-Isopropyltoluene	ND	ND	ND	0.020	ug/L
Methylene chloride	ND	ND	ND	0.020	ug/L
Naphthalene	ND	ND	ND	0.020	ug/L
n-Propylbenzene	ND	ND	ND	0.020	ug/L
Styrene	ND	ND	ND	0.020	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.020	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.020	ug/L
Tetrachloroethylene	**0.081**	**4.66**	**26.7**	0.020	ug/L
Toluene	ND	ND	ND	0.020	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.020	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.020	ug/L
1,1,1-Trichloroethane	**0.088**	ND	**3.93**	0.020	ug/L
1,1,2-Trichloroethane	ND	ND	ND	0.020	ug/L
Trichloroethylene	ND	**0.027**	**20.7**	0.020	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV41	SV43	SV36	**Practical Quantitation Limits**	**Units**
Analytes:					
Trichlorofluoromethane	ND	ND	ND	0.020	ug/L
1,2,3-Trichloropropane	ND	ND	ND	0.020	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.020	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.020	ug/L
Vinyl chloride	ND	ND	ND	0.020	ug/L
Xylenes	ND	ND	ND	0.020	ug/L
MTBE	ND	ND	ND	0.020	ug/L
Ethyl-tert-butylether	ND	ND	ND	0.020	ug/L
Di-isopropylether	ND	ND	ND	0.020	ug/L
tert-amylmethylether	ND	ND	ND	0.020	ug/L
tert-Butylalcohol	ND	ND	ND	0.100	ug/L
TIC					
n-Propanol	ND	ND	ND	0.020	ug/L
Dilution Factor	1	1	1		
Surrogate Recovery :				**QC Limits**	
Dibromofluoromethane	91%	97%	97%	60 - 140	
Toluene-d_8	98%	100%	98%	60 - 140	
4-Bromofluorobenzene	99%	99%	99%	60 - 140	

ND = Not Detected

Jones Environmental, Inc.
Testing Laboratories
P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample Spiked: AMBIENT AIR (B1-030209-CHECKS)

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
1,1-Dichloroethylene	86%	93%	8.3%	60 - 140
Benzene	99%	102%	2.4%	60 - 140
Trichloroethylene	90%	93%	3.7%	60 - 140
Toluene	84%	89%	5.8%	60 - 140
Chlorobenzene	104%	110%	5.6%	60 - 140

Sample Spiked: AMBIENT AIR (B2-030209-CHECKS)

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
1,1-Dichloroethylene	110%	115%	4.5%	60 - 140
Benzene	95%	97%	2.2%	60 - 140
Trichloroethylene	89%	90%	0.6%	60 - 140
Toluene	91%	89%	2.3%	60 - 140
Chlorobenzene	91%	91%	0.1%	60 - 140

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

Jones Environmental, Inc.

Testing Laboratories

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(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL

QUALITY CONTROL INFORMATION

Client:	The Reynolds Group	**Report Date:**	03/04/09
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	B-4865
		Client Ref. No.:	7115
Attn:	Al Fuan	**Date Sampled:**	03/02/09-03/03/09
		Date Received:	03/02/09-03/03/09
Project	Fullerton Business Park – North	**Date Analyzed:**	03/02/09-03/03/09
Project Address:	1551 E. Orangethorpe Ave., Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sample Spiked: AMBIENT AIR (B1-030309-CHECKS)

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
1,1-Dichloroethylene	107%	109%	2.0%	60 - 140
Benzene	98%	100%	1.5%	60 - 140
Trichloroethylene	101%	100%	1.1%	60 - 140
Toluene	91%	91%	0.2%	60 - 140
Chlorobenzene	106%	113%	5.7%	60 - 140

Sample Spiked: AMBIENT AIR (B1-030309-CHECKS)

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)
1,1-Dichloroethylene	92%	95%	3.0%	60 - 140
Benzene	94%	94%	0.1%	60 - 140
Trichloroethylene	100%	100%	0.2%	60 - 140
Toluene	88%	91%	3.3%	60 - 140
Chlorobenzene	88%	91%	3.1%	60 - 140

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference

CHAIN OF CUSTODY

County of Orange Health Care Agency
Environmental Health Division
1241 E. Dyer Rd., Ste. 120, Santa Ana, CA 92705
Telephone: (714) 433-6000 / FAX: (714) 754-1768

1. **ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.**

2. **PLEASE WRITE LEGIBLY.**

3. **ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.**

4. **TO BE COMPLETED BY LABORATORY ANALYST**

LAB NO.: B-4865

DATE RECEIVED: 03/03/09

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ____ COUNTY SEAL(S) INTACT: ✓

CONTAINER IN GOOD CONDITION: ✓

DATE ANALYSIS COMPLETED: 03/03/09

ANALYST: Steve Jones / Gary Epper

5. **TO BE COMPLETED BY SAMPLE COLLECTOR**

SITE NAME/ADDRESS: Fullerton Bus. Park - N
1551 E. Orangethorpe, Fullerton CA

DATE OF COLLECTION: 3/03/09

SAMPLE COLLECTOR/COMPANY: TRC
Angel Cardoza / Gregg / Steve Gary (JE)

TELEPHONE NO.: (714) 730-5397

HCA REPRESENTATIVE: Luis Lodriguez

6.

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS	TIME OF COLLECTION
VEW-3	EPA Method 8260 (VOCs)	SG verify. Samples - subslab & various	
VEW-16		depths (5', 15', 25')	7:31 AM
VEW-4	SV-38, SV-39, SV-40, SV-41, SV-42, SV-43, VEW-5, VEW-6, VEW-7	VEW-8, ~~VEW-10~~, VEW-11, VEW-13, ~~VEW-14~~, ~~VEW-15~~	
SV-32			8:30
SV-33			
SV-37			9:40
SV-36			

7. **CHAIN OF CUSTODY**

	SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
1.		OCHCA / Env. Health	3/03/09 7:30 AM.
2.		Jones Environmental, Inc.	03/03/09 - 13:15
3.			-
4.			-
5.			-
6.			-

F272-9.1531.1(R8/89) CRS

WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

CHAIN OF CUSTODY

County of Orange Health Care Agency
Environmental Health Division
1241 E. Dyer Rd., Ste. 120, Santa Ana, CA 92705
Telephone: (714) 433-6000 / FAX: (714) 754-1768

1. **ALL SAMPLES ARE TO BE HANDLED AS COURT EVIDENCE, AND ARE TO BE PROPERLY STORED IN A SECURE LOCATION.**

2. **PLEASE WRITE LEGIBLY.**

3. **ATTACH THIS FORM TO THE ORIGINAL REPORT OF THE ANALYTICAL RESULTS AND RETURN THEM TO THIS OFFICE. LABORATORY RESULTS RECEIVED WITHOUT PROPER CHAIN OF CUSTODY DOCUMENTATION WILL NOT BE ACCEPTED.**

4. **TO BE COMPLETED BY LABORATORY ANALYST**

LAB NO.: B-4865

DATE RECEIVED: 03/02/09

SAMPLE(S) CONDITION (PLEASE CHECK):

CHILLED: ____ COUNTY SEAL(S) INTACT: ✓

CONTAINER IN GOOD CONDITION: ✓

DATE ANALYSIS COMPLETED: 03/02/09

ANALYST: Steve Jones

5. **TO BE COMPLETED BY SAMPLE COLLECTOR**

SITE NAME/ADDRESS: Fullerton Business Park - N
1551 E. Orangethorpe, Fullerton CA

DATE OF COLLECTION: 3/02/09

SAMPLE COLLECTOR/COMPANY: TRC
Angel Cardova / Gregg / Steve Jones (JE)

TELEPHONE NO.: (714) 730-5397

HCA REPRESENTATIVE: Luis Lodriqueza

6.

SAMPLE NUMBER	DETERMINATION REQUESTED	SAMPLE DESCRIPTION/COMMENTS	TIME OF COLLECTION
SV-27	EPA Method 8260 (VOCs)	Outdoor SV probes & indoor SV probes	
SV-25		& VBwells — various depths ~	9:15 AM
PW-1	SV-31		10:55
PW-4/SV-44	VEW-9		
SV-35			
SV-34			1:00 PM
VEW-1			
SV-30			1:30 PM / 2:50 PM

7. **CHAIN OF CUSTODY**

	SIGNATURE	COMPANY/AGENCY	INCLUSIVE DATES/TIMES
1.		OCHCA / ENV. Health	3/02/09 - 8:55 AM - 3:50 PM
2.		Jone Environmental, Inc	03/02/09 - 13:15
3.			-
4.			-
5.			-
6.			-

F272-9.1531.1(R8/89) CRS

WHITE-RETURN THIS COPY TO ENVIRONMENTAL HEALTH, CANARY-LABORATORY COPY
PINK-CONTRACTOR/CONSULTANT COPY, GOLDENROD-OFFICE COPY

JONES
ENVIRONMENTAL
TESTING LABORATORIES

P.O. Box 5387
Fullerton, CA 92838
(714) 449-9937
Fax (714) 449-9685

Chain-of-Custody Record

Client: THE REYNOLDS GROUP
Date: 3/2/09
Project Name:
Client Project #:
Project Address: 1551 E. ORANGETHORPE
FULLERTON, CA
Project Contact: AL FUAD

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☐ 3P ☐ 7P
Tracer: N-PROPANOL
Purge Rate: ~200 cc/min

JEL Project #: B-4865
Page 1 of

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☒ no
Sealed ☒ yes ☐ no

Analysis Requested

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	8260 (Full)	Low Flow	Number of Containers	Remarks/Special Instructions
SV27-5 1P	67	1 Purge Vol	3/2/09	07:38	B-4865-1	SG	X		1	GLASS GAS TIGHT SYRINGE
SV27-5 3P	202	3 Purge Vol	3/2/09	07:56	B-4865-2	SG	X		1	
SV27-5 7P	472	7 Purge Vol	3/2/09	08:25	B-4865-3	SG	X		1	
SV27-15 1P	92	1 Purge Vol	3/2/09	08:44	B-4865-4	SG	X	LOW FLOW	1	
SV27-15 3P	278	3 Purge Vol	3/2/09	09:38	B-4865-5	SG	X	LOW FLOW	1	
SV27-15 7P	647	7 Purge Vol	3/2/09	09:58	B-4865-6	SG	X	LOW FLOW	1	
SV25-5'	77	1 Purge Vol	3/2/09	10:18	B-4865-7	SG	X		1	
SV25-15'	278	3 Purge Vol	3/2/09	10:39	B-4865-8	SG	X		1	
PW1-5'	1855	" "	3/2/09	11:01	B-4865-9	SG	X		1	
SV24-5'	77	1 Purge Vol	3/2/09	11:21	B-4865-10	SG	X		1	

❶ Relinquished by (signature)	Date 3/2/09	❷ Received by (signature)	Date 3/2/09	Total Number of Containers
Company TRG	Time 5:30pm	Company JEL	Time 5:30pm	
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date	
Company	Time	Company	Time	

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

JONES
ENVIRONMENTAL
TESTING LABORATORIES

P.O. Box 5387
Fullerton, CA 92838
(714) 449-9937
Fax (714) 449-9685

Chain-of-Custody Record

Client: THE RUTHERFORD GROUP
Date: 3/2/09
Project Name:
Client Project #:
Project Address: 1551 E. ORANGETHORPE AVE. FULLERTON, CA
Project Contact: AL FUNG

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☐ 3P ☐ 7P
Tracer: HELIUM
Purge Rate: 200 cc/min

JEL Project #: B-4865
Page 2 of

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☑ no
Sealed ☑ yes ☐ no

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Analysis Requested: 8260 (Full)	Number of Containers	Remarks/Special Instructions
PW1-15'		3 PURGE VOLUMES	3/2/09	11:35	B-4865-11	SG	X	1	GLASS GAS TIGHT SYRINGE
SV34-15'	27ℓ	" "	3/2/09	11:59	B-4865-12	SG	X	1	
SV35-5'	7ℓ	1 PURGE VOL	3/2/09	12:49	B-4865-13	SG	X	1	
PW1-25'		3 PURGE VOL	3/2/09	12:29	B-4865-14	SG	X	1	
SV35-15'	27ℓ	" "	3/2/09	12:51	B-4865-15	SG	X	1	
VEW12-15'		" "	3/2/09	13:16	B-4865-16	SG	X	1	
SV44-5'	7ℓ	1 PURGE VOL	3/2/09	13:35	B-4865-17	SG	X	1	
SV44-15'	27ℓ	3 PURGE VOL	3/2/09	13:55	B-4865-18	SG	X	1	
SV44-25'	50ℓ	" "	3/2/09	14:14	B-4865-19	SG	X	1	
~~SV44-25'~~ DUP	50ℓ	" "	3/2/09	14:16	B-4865-20	SG	X	1	

❶ Relinquished by (signature)	Date 3/2/09	❷ Received by (signature)	Date 3/2/09		**Total Number of Containers**
Company TRG	Time 5:30pm	Company JEL	Time 5:30 pm		
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date	The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.	
Company	Time	Company	Time		

JONES ENVIRONMENTAL
TESTING LABORATORIES

P.O. Box 5387
Fullerton, CA 92838
(714) 449-9937
Fax (714) 449-9685

Chain-of-Custody Record

Client: The Reynolds Group
Date: 3/2/09
Project Name:
Client Project #:
Project Address: 1551 E. Orangethorpe Ave, Fullerton, CA
Project Contact: Al Flynn

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☐ 3P ☐ 7P
Tracer: Helium
Purge Rate: 200 cc/min

JEL Project #: B-4865
Page 3 of

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☒ no
Sealed ☑ yes ☐ no

Analysis Requested: 8260 (Full)

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Number of Containers	Remarks/Special Instructions
SV30-5'	67	1 Purge Vol	3/2/09	14:51	B-4865-21	SG	1	Glass Gas Tight Syringe
VEW12-25'		3 Purge Vol	3/2/09	15:03	B-4865-22	SG	1	
SV30-15'	278	" "	3/2/09	15:23	B-4865-23	SG	1	
VEW9-15'		" "	3/2/09	15:43	B-4865-24	SG	1	
SV30-15' DUP	278	" "	3/2/09	16:02	B-4865-25	SG	1	
VEW5-15'		" "	3/2/09	16:20	B-4865-26	SG	1	
VEW9-25'		" "	3/2/09	16:38	B-4865-27	SG	1	
SV31-15'	278	" "	3/2/09	16:59	B-4865-28	SG	1	LEW/FLOW
VEW5-25'		" "	3/2/09	17:18	B-4865-29	SG	1	
VEW5-25' DUP		" "	3/2/09	17:19	B-4865-30	SG	1	

❶ Relinquished by (signature)	Date 3/2/09	❷ Received by (signature)	Date 3/2/09		Total Number of Containers
Company TRG	Time 5:30pm	Company JEL	Time 5:30pm		
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date	The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.	
Company	Time	Company	Time		

JONES ENVIRONMENTAL
TESTING LABORATORIES

P.O. Box 5387
Fullerton, CA 92838
(714) 449-9937
Fax (714) 449-9685

Chain-of-Custody Record

Client: The Reynolds Group
Date: 03/03/09
Project Name:
Client Project #:
Project Address: 1551 E. Orangethorpe Ave. Fullerton, CA
Project Contact: Al Kuan

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☐ 3P ☐ 7P
Tracer: n Propanol
Purge Rate: ~200 cc/min

JEL Project #: B-4865
Page: 4 of 6

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☒ no
Sealed ☒ yes ☐ no

Analysis Requested

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	8260 (full)	Number of Containers	Remarks/Special Instructions
SV31-5	77	1 Purge Vol.	03/03/09	07:25	B-4865-31	SG	X	1	Glass Gastight Syringe
SV32-5	67	1 Purge Vol	03/03/09	07:45	B-4865-32	SG	X	1	"
SV32-15	278	3 Purge Vol	03/03/09	07:50	B-4865-33	SG	X	1	"
VEW16-15		" "	03/03/09	07:55 (946)	B-4865-34	SG	X	1	"
SV33-5	67	1 Purge Vol.	03/03/09	08:09	B-4865-35	SG	X	1	"
VEW16-25		3 Purge Vol	03/03/09	08:11 (1005)	B-4865-36	SG	X	1	"
SV33-15	278	" "	03/03/09	08:25	B-4865-37	SG	X	1	"
VEW3-25'		" "	03/03/09	08:32 (10:20)	B-4865-38	SG	X	1	"
VEW4-25'		" "	03/03/09	08:49	B-4865-39	SG	X	1	"
SV37 1P	~200 cc	1 Purge Vol	03/03/09	09:02	B-4865-40	SG	X	1	"

❶ Relinquished by (signature)	Date 3/3/09	❷ Received by (signature)	Date 3/3/09		Total Number of Containers
Company TRG	Time 1:30pm	Company JEL	Time 13:30		
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date	The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.	
Company	Time	Company	Time		

JONES ENVIRONMENTAL
TESTING LABORATORIES

P.O. Box 5387
Fullerton, CA 92838
(714) 449-9937
Fax (714) 449-9685

Chain-of-Custody Record

Client: The Reynolds Group
Date: 03/03/09
Project Name:
Client Project #:
Project Address: 1551 E. Orangethorpe Ave. Fullerton, CA
Project Contact: Al Fuan

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☐ 3P ☐ 7P
Tracer: n propanol
Purge Rate: ~200 cc/min

JEL Project #: B-4865
Page: 5 of 6

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☒ no
Sealed ☒ yes ☐ no

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Analysis Requested: 8260 (Full)	Number of Containers	Remarks/Special Instructions
VEW6-15		3 Purge Vol.	03/03/09	09:07	B-4865-41	SG	X	1	Glass Gastight Syringe
VEW6-25		" "	03/03/09	09:11	B-4865-42	SG	X	1	" "
SV37 3P	600	" "	03/03/09	09:32	B-4865-43	SG	X	1	" "
VEW3-15		" "	03/03/09	09:35	B-4865-44	SG	X	1	" "
SV37 7P	1400	7 Purge Vol	03/03/09	09:56	B-4865-45	SG	X	1	" "
VEW11-15		3 Purge Vol	03/03/09	10:28	B-4865-46	SG	X	1	" "
SV38	600	3 Purge Vol.	03/03/09	10:34	B-4865-47	SG	X	1	" "
VEW11-25		3 Purge Vol	03/03/09	10:53	B-4865-48	SG	X	1	" "
VEW13-15		" "	03/03/09	10:58	B-4865-49	SG	X	1	" "
VEW8-15		" "	03/03/09	11:30	B-4865-50	SG	X	1	" "

❶ Relinquished by (signature)	Date 3/3/09	❷ Received by (signature)	Date 3/3/09		Total Number of Containers
Company TRG	Time 1:30pm	Company JEL	Time 13:30	The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.	
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date		
Company	Time	Company	Time		

JONES
ENVIRONMENTAL
TESTING LABORATORIES

P.O. Box 5387
Fullerton, CA 92838
(714) 449-9937
Fax (714) 449-9685

Chain-of-Custody Record

Client: The Reynolds Group
Date: 03/03/09
Project Name:
Client Project #:
Project Address: 1551 E. Orangethorpe Ave.
Fullerton, CA
Project Contact: Al Fuan

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☐ 3P ☐ 7P
Tracer: n Propanol
Purge Rate: ~200 cc/min

JEL Project #: B-4865
Page: 6 of 6

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☒ no
Sealed ☒ yes ☐ no

Analysis Requested: 8260 (full)

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)		Number of Containers	Remarks/Special Instructions
VEW8-15 DUP		3 Purge Vol	03/03/09	11:32	B-4865-51	SG	X	1	Glass Gashght Syr.
SV39	600	" "	03/03/09	11:45	B-4865-52	SG	X	1	" "
SV39 DUP	600	" "	03/03/09	11:46	B-4865-53	SG	X	1	" "
SV40	600	" "	03/03/09	12:06	B-4865-54	SG	X	1	" "
SV42	600	" "	03/03/09	12:07	B-4865-55	SG	X	1	" "
SV41	600	" "	03/03/09	12:45	B-4865-56	SG	X	1	" "
SV43	600	" "	03/03/09	12:55	B-4865-57	SG	X	1	" "
SV36	600	" "	03/03/09	13:05	B-4865-58	SG	X	1	" "

❶ Relinquished by (signature)	Date 3/3/09	❷ Received by (signature)	Date 3/3/09	Total Number of Containers
Company TRG	Time 1:30pm	Company JEL	Time 13:30	
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date	
Company	Time	Company	Time	

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

JONES
ENVIRONMENTAL
TESTING LABORATORIES

P.O. Box 5387
Fullerton, CA 92838
(714) 449-9937
Fax (714) 449-9685

Chain-of-Custody Record

Client THE Reynolds Group

Date 3-3-09

Project Name

Client Project #

Project Address 1551 E. Orangethorpe Fullerton, CA.

Project Contact Angel

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☐ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☐ 3P ☐ 7P
Tracer: _____
Purge Rate: _____ cc/min

JEL Project # B48658

Page 1 of 1

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Analysis Requested

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Number of Containers	Remarks/Special Instructions
RENTAL		7 DAYS	3-3-09				1	SUMMA 6 LTR
* CUSTOMER TO HAND CARRY RETURN TO JONES ENVIRONMENTAL								

❶ Relinquished by (signature)	Date 3-3-09	❷ Received by (signature)	Date 3-3-09
Company TRG	Time 1:00 pm	Company JEL	Time
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date
Company	Time	Company	Time

Total Number of Containers

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

March 23, 2009

ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90303D

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on March 3, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- VOLATILE ORGANICS BY EPA TO-15 (GC/MS) ---

Client Name : The Reynolds Group
Project Name : 7115 Universal
Matrix : Air
Unit: µg/L

Date Sampled : 03/02-03/03/09
Date Received : 03/13/09
Date Analyzed : 03/13/09
Date Reported : 03/23/09

SAMPLE ID	N/A	SV44-25'	VEW13-25	VEW3-25	MDL	PQL
C&E LAB ID	MBLK	90303D-1	90303D-2	90303D-3		
DILUTION FACTOR	1	10	10	50		
Dichlorodifluoromethane (F-12)	ND	ND	ND	ND	0.005	0.01
1,2-Dichloro-1,1,2,2-tetrafluoroethane (F-114)	ND	ND	ND	ND	0.005	0.01
Chloromethane	ND	ND	ND	ND	0.005	0.01
Vinyl chloride	ND	ND	ND	ND	0.005	0.01
Bromomethane	ND	ND	ND	ND	0.005	0.01
Chloroethane	ND	ND	ND	ND	0.005	0.01
Trichlorofluoromethane (F-11)	ND	ND	ND	ND	0.005	0.01
Trichlorotrifluoroethane (F-113)	ND	ND	ND	ND	0.005	0.01
1,1-Dichloroethene	ND	ND	ND	ND	0.005	0.01
Methylene chloride	ND	ND	ND	ND	0.005	0.01
1,1-Dichloroethane	ND	ND	ND	0.77	0.005	0.01
Trans-1,2-Dichloroethene	ND	0.42	1.52	6.49	0.005	0.01
cis-1,2-Dichloroethene	ND	3.29	0.09	1.96	0.005	0.01
Chloroform	ND	ND	ND	ND	0.005	0.01
1,1,1-Trichloroethane	ND	ND	2.21	ND	0.005	0.01
Carbon tetrachloride	ND	ND	ND	ND	0.005	0.01
1,2-Dichloroethane	ND	ND	ND	ND	0.005	0.01
Benzene	ND	ND	ND	ND	0.005	0.01
Trichloroethene	ND	0.97	2.98	13.72	0.005	0.01
1,2-Dichloropropane	ND	ND	ND	ND	0.005	0.01
Dibromomethane	ND	ND	ND	ND	0.005	0.01
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.005	0.01
Toluene	ND	ND	ND	ND	0.005	0.01
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.005	0.01
1,1,2-Trichloroethane	ND	ND	ND	ND	0.005	0.01
Tetrachloroethene	ND	0.42	2.66	20.05	0.005	0.01
Chlorobenzene	ND	ND	ND	ND	0.005	0.01
Ethylbenzene	ND	ND	ND	ND	0.005	0.01
p + m-Xylene	ND	ND	ND	ND	0.005	0.01
o-Xylene	ND	ND	ND	ND	0.005	0.01
Styrene	ND	ND	ND	ND	0.005	0.01
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.005	0.01
1,3,5-Trimethylbenzene	ND	ND	ND	ND	0.005	0.01

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- VOLATILE ORGANICS BY EPA TO-15 (GC/MS) ---

Client Name : The Reynolds Group
Project Name : 7115 Universal
Matrix : Air
Unit: µg/L

Date Sampled : 03/02-03/03/09
Date Received : 03/13/09
Date Analyzed : 03/13/09
Date Reported : 03/23/09

SAMPLE ID	N/A	SV44-25'	VEW13-25	VEW3-25	MDL	PQL
C&E LAB ID	MBLK	90303D-1	90303D-2	90303D-3		
DILUTION FACTOR	1	10	10	50		
1,2,4-Trimethylbenzene	ND	ND	ND	ND	0.005	0.01
1,3-Dichlorobenzene	ND	ND	ND	ND	0.005	0.01
1,4-Dichlorobenzene	ND	ND	ND	ND	0.005	0.01
1,2-Dichlorobenzene	ND	ND	ND	ND	0.005	0.01
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.005	0.01
Hexachloro-1,3-butadiene	ND	ND	ND	ND	0.005	0.01
Acetonitrile	ND	ND	ND	ND	0.005	0.01
Acrylonitrile	ND	ND	ND	ND	0.005	0.01
Allyl Chloride	ND	ND	ND	ND	0.005	0.01
Benzyl Chloride	ND	ND	ND	ND	0.005	0.01
Bis(chloroethyl) Ether	ND	ND	ND	ND	0.005	0.01
1,3-Butadiene	ND	ND	ND	ND	0.005	0.01
Chloromethyl methyl ether	ND	ND	ND	ND	0.005	0.01
2-Chloropropene	ND	ND	ND	ND	0.005	0.01
Ethyl Acrylate	ND	ND	ND	ND	0.005	0.01
Ethyl Bromide	ND	ND	ND	ND	0.005	0.01
MEK	ND	ND	ND	ND	0.005	0.01
2-Propanol	ND	ND	ND	ND	0.005	0.01
Methyl Methacrylate	ND	ND	ND	ND	0.005	0.01
MIBK	ND	ND	ND	ND	0.005	0.01
Carbon Disulfide	ND	ND	ND	ND	0.005	0.01
2,2,4-Trimethylpentane	ND	ND	ND	ND	0.005	0.01
Vinyl Acetate	ND	ND	ND	ND	0.005	0.01
Vinyl Bromide	ND	ND	ND	ND	0.005	0.01
Tentative Identified Compds	MBLK				MDL	PQL

Key: **ND** = Not Detected **MDL** = Method Detection Limit **PQL** = Pratical Quantitation Limit **J** = Trace Conc. Between MDL and PQL

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- VOLATILE ORGANICS BY EPA TO-15 (GC/MS) ---

Client Name : The Reynolds Group
Project Name : 7115 Universal
Matrix : Air
Unit: µg/L

Date Sampled : 03/03/09
Date Received : 03/13/09
Date Analyzed : 03/13/09
Date Reported : 03/23/09

SAMPLE ID	SV40	SV38			MDL	PQL
C&E LAB ID	90303D-4	90303D-5				
DILUTION FACTOR	50	50				
Dichlorodifluoromethane (F-12)	ND	ND			0.005	0.01
1,2-Dichloro-1,1,2,2-tetrafluoroethane (F-114)	ND	ND			0.005	0.01
Chloromethane	ND	ND			0.005	0.01
Vinyl chloride	ND	ND			0.005	0.01
Bromomethane	ND	ND			0.005	0.01
Chloroethane	ND	ND			0.005	0.01
Trichlorofluoromethane (F-11)	ND	ND			0.005	0.01
Trichlorotrifluoroethane (F-113)	ND	ND			0.005	0.01
1,1-Dichloroethene	ND	ND			0.005	0.01
Methylene chloride	ND	ND			0.005	0.01
1,1-Dichloroethane	0.31	0.07			0.005	0.01
Trans-1,2-Dichloroethene	1.39	0.53			0.005	0.01
cis-1,2-Dichloroethene	0.56	0.19			0.005	0.01
Chloroform	ND	ND			0.005	0.01
1,1,1-Trichloroethane	0.67	0.72			0.005	0.01
Carbon tetrachloride	ND	ND			0.005	0.01
1,2-Dichloroethane	ND	ND			0.005	0.01
Benzene	ND	ND			0.005	0.01
Trichloroethene	21.30	5.80			0.005	0.01
1,2-Dichloropropane	ND	ND			0.005	0.01
Dibromomethane	ND	ND			0.005	0.01
cis-1,3-Dichloropropene	ND	ND			0.005	0.01
Toluene	ND	ND			0.005	0.01
trans-1,3-Dichloropropene	ND	ND			0.005	0.01
1,1,2-Trichloroethane	ND	ND			0.005	0.01
Tetrachloroethene	41.72	19.88			0.005	0.01
Chlorobenzene	ND	ND			0.005	0.01
Ethylbenzene	ND	ND			0.005	0.01
p + m-Xylene	ND	ND			0.005	0.01
o-Xylene	ND	ND			0.005	0.01
Styrene	ND	ND			0.005	0.01
1,1,2,2-Tetrachloroethane	ND	ND			0.005	0.01
1,3,5-Trimethylbenzene	ND	ND			0.005	0.01

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- VOLATILE ORGANICS BY EPA TO-15 (GC/MS) ---

Client Name : The Reynolds Group
Project Name : 7115 Universal
Matrix : Air
Unit: µg/L

Date Sampled : 03/03/09
Date Received : 03/13/09
Date Analyzed : 03/13/09
Date Reported : 03/23/09

SAMPLE ID	SV40	SV38			MDL	PQL
C&E LAB ID	90303D-4	90303D-5				
DILUTION FACTOR	50	50				
1,2,4-Trimethylbenzene	ND	ND			0.005	0.01
1,3-Dichlorobenzene	ND	ND			0.005	0.01
1,4-Dichlorobenzene	ND	ND			0.005	0.01
1,2-Dichlorobenzene	ND	ND			0.005	0.01
1,2,4-Trichlorobenzene	ND	ND			0.005	0.01
Hexachloro-1,3-butadiene	ND	ND			0.005	0.01
Acetonitrile	ND	ND			0.005	0.01
Acrylonitrile	ND	ND			0.005	0.01
Allyl Chloride	ND	ND			0.005	0.01
Benzyl Chloride	ND	ND			0.005	0.01
Bis(chloroethyl) Ether	ND	ND			0.005	0.01
1,3-Butadiene	ND	ND			0.005	0.01
Chloromethyl methyl ether	ND	ND			0.005	0.01
2-Chloropropene	ND	ND			0.005	0.01
Ethyl Acrylate	ND	ND			0.005	0.01
Ethyl Bromide	ND	ND			0.005	0.01
MEK	ND	ND			0.005	0.01
2-Propanol	ND	ND			0.005	0.01
Methyl Methacrylate	ND	ND			0.005	0.01
MIBK	ND	ND			0.005	0.01
Carbon Disulfide	ND	ND			0.005	0.01
2,2,4-Trimethylpentane	ND	ND			0.005	0.01
Vinyl Acetate	ND	ND			0.005	0.01
Vinyl Bromide	ND	ND			0.005	0.01
Tentative Identified Compds	MBLK				MDL	PQL

Key: **ND** = Not Detected **MDL** = Method Detection Limit **PQL** = Pratical Quantitation Limit **J** = Trace Conc. Between MDL and PQL

CHAIN OF CUSTODY RECORD

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 90305D

Company Name: TRC
Project Manager: Al Fuan
Project No./Name: 7115/Universal
Tel: _____ Fax: _____
Site Address: 1551 E. Orangethorpe Ave. Fullerton, CA
Sampled By: Greg Hood

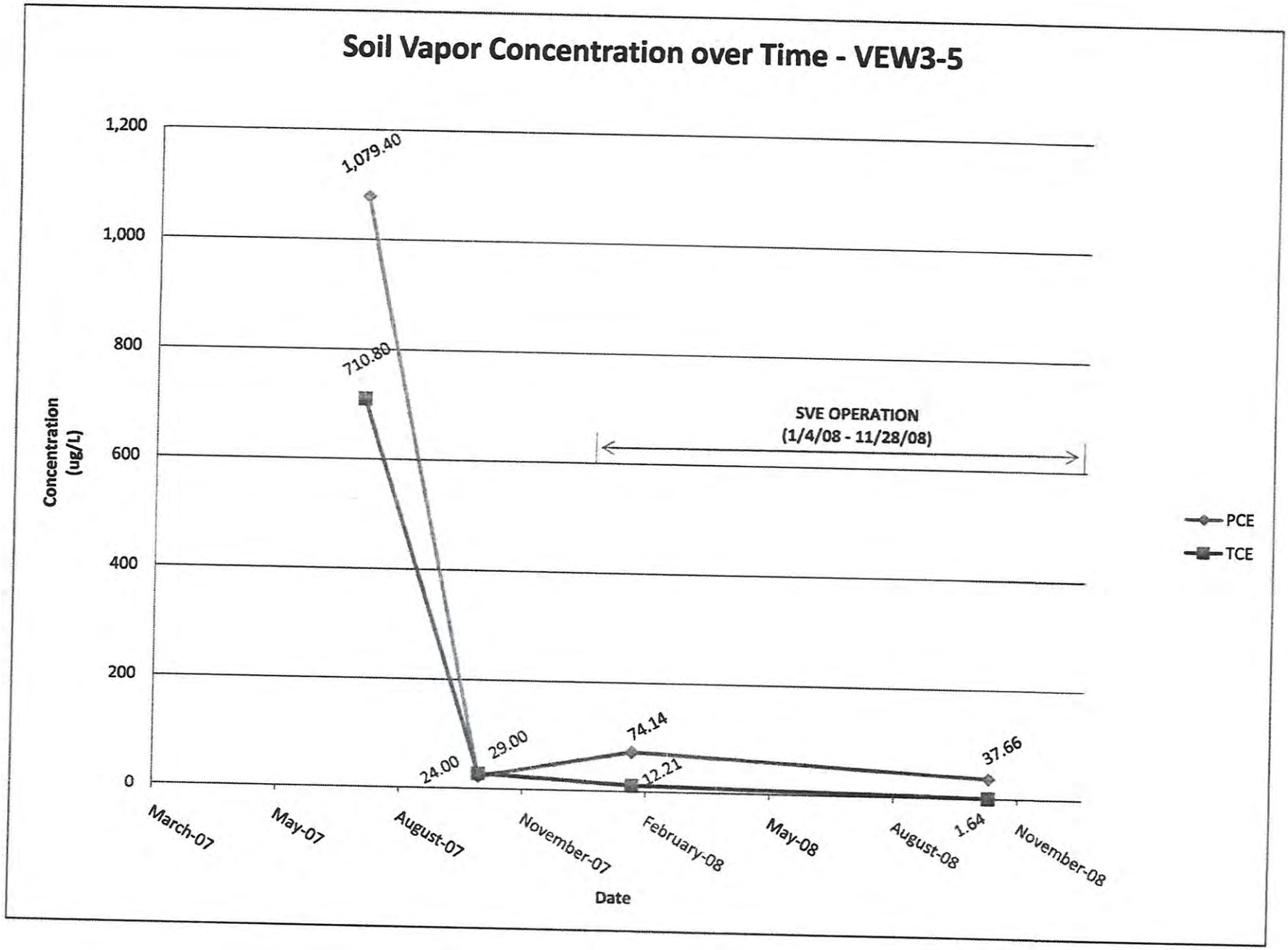
Page 1 of 1
Sample Conditions: __ Chilled __ Seals Intact
Turn Around Time Desired: ~~Normal~~ / Same Day / 24hr / 48hr

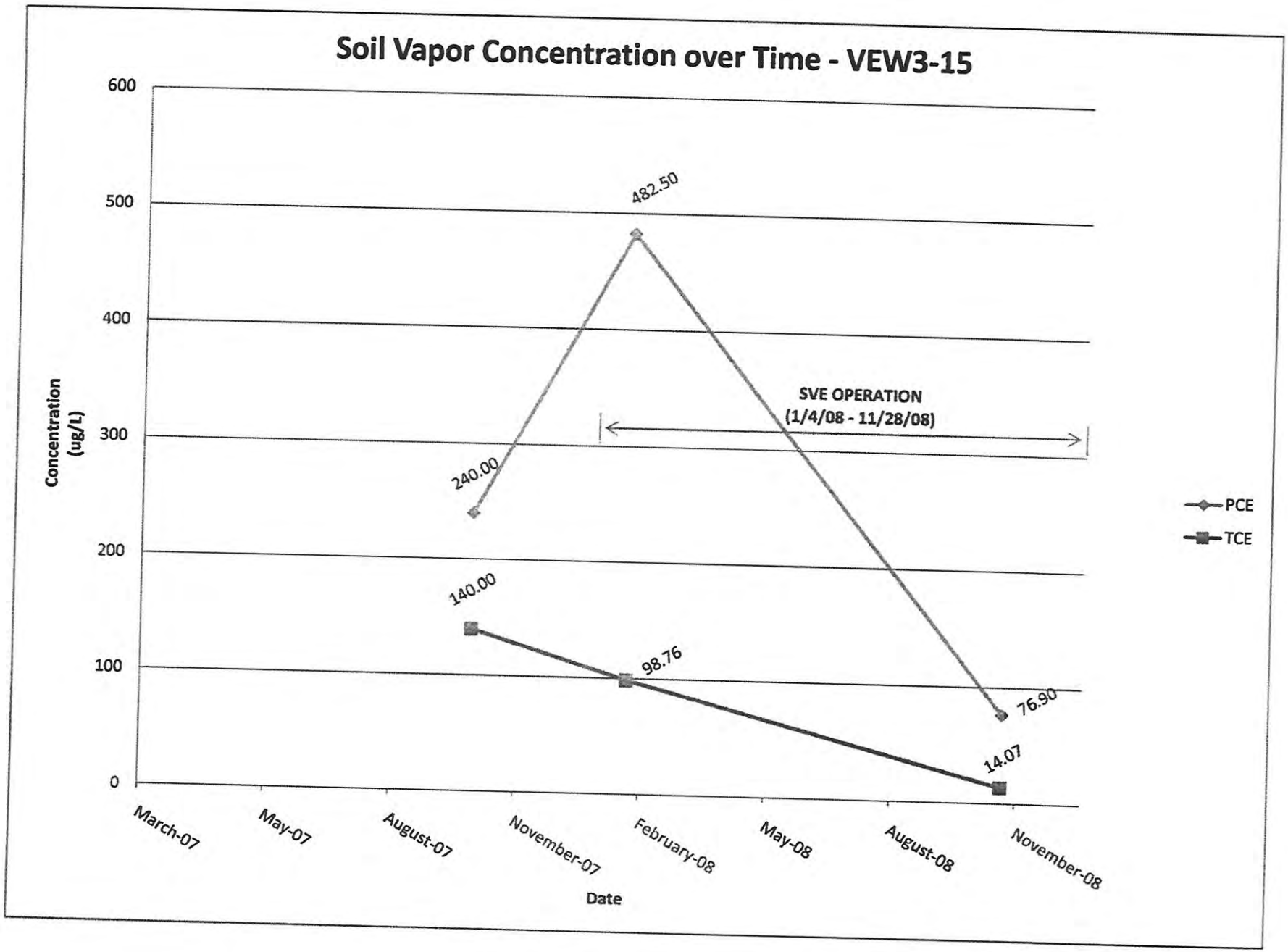
	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD	TO-15	
1	SV44-25'	3/2/09	4:21	air	1 Sumq										X	
2	VEW13-25	3/3/09	11:41	↓	↓										X	
3	VEW3-25	↓	12:06												X	
4	SV40		12:43												X	
5	SV38		1:15												X	

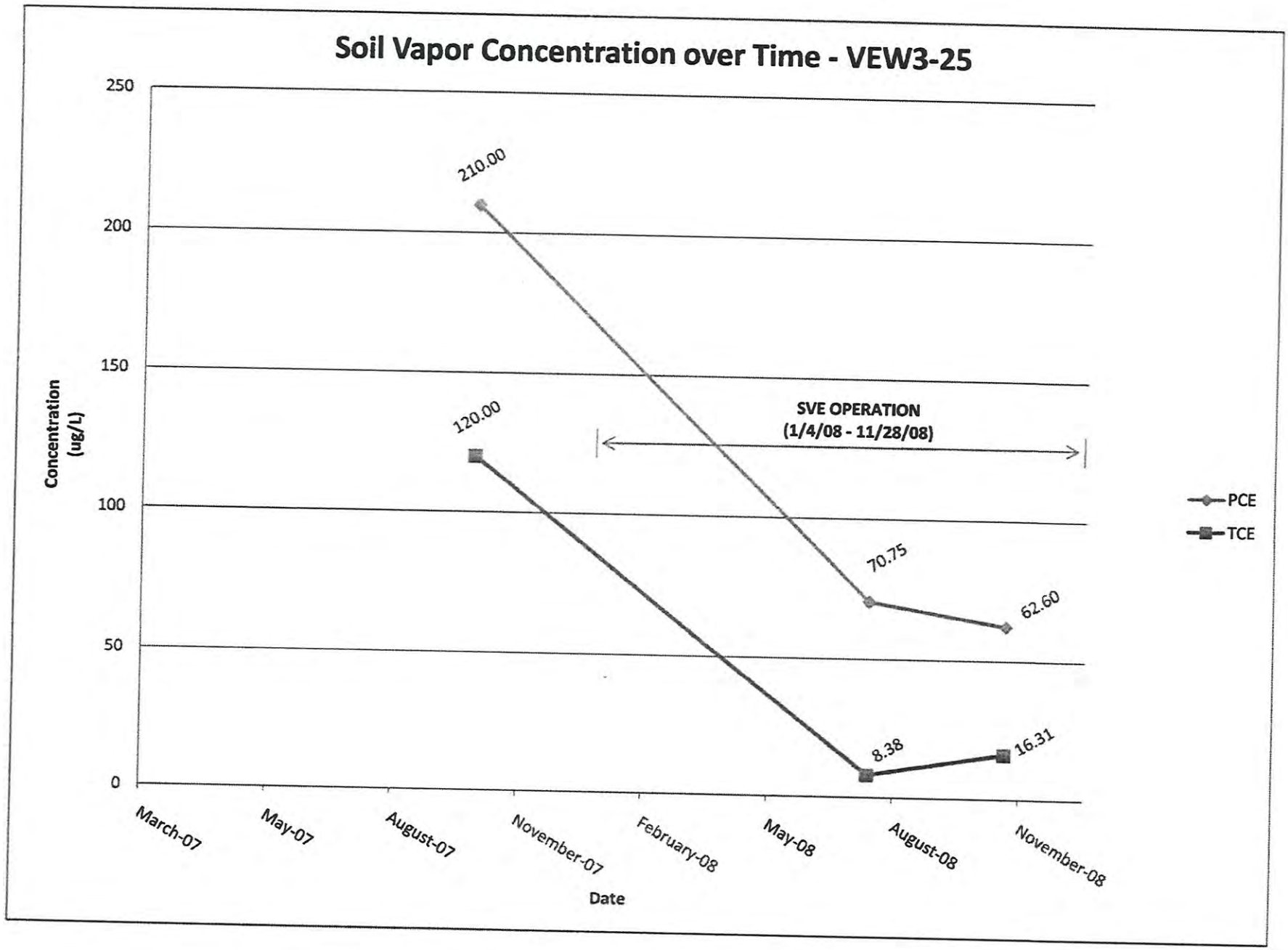
Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
[signature]	3/3/09 2:15	[signature]	3/3/09	EDF Global ID No.: T_____
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

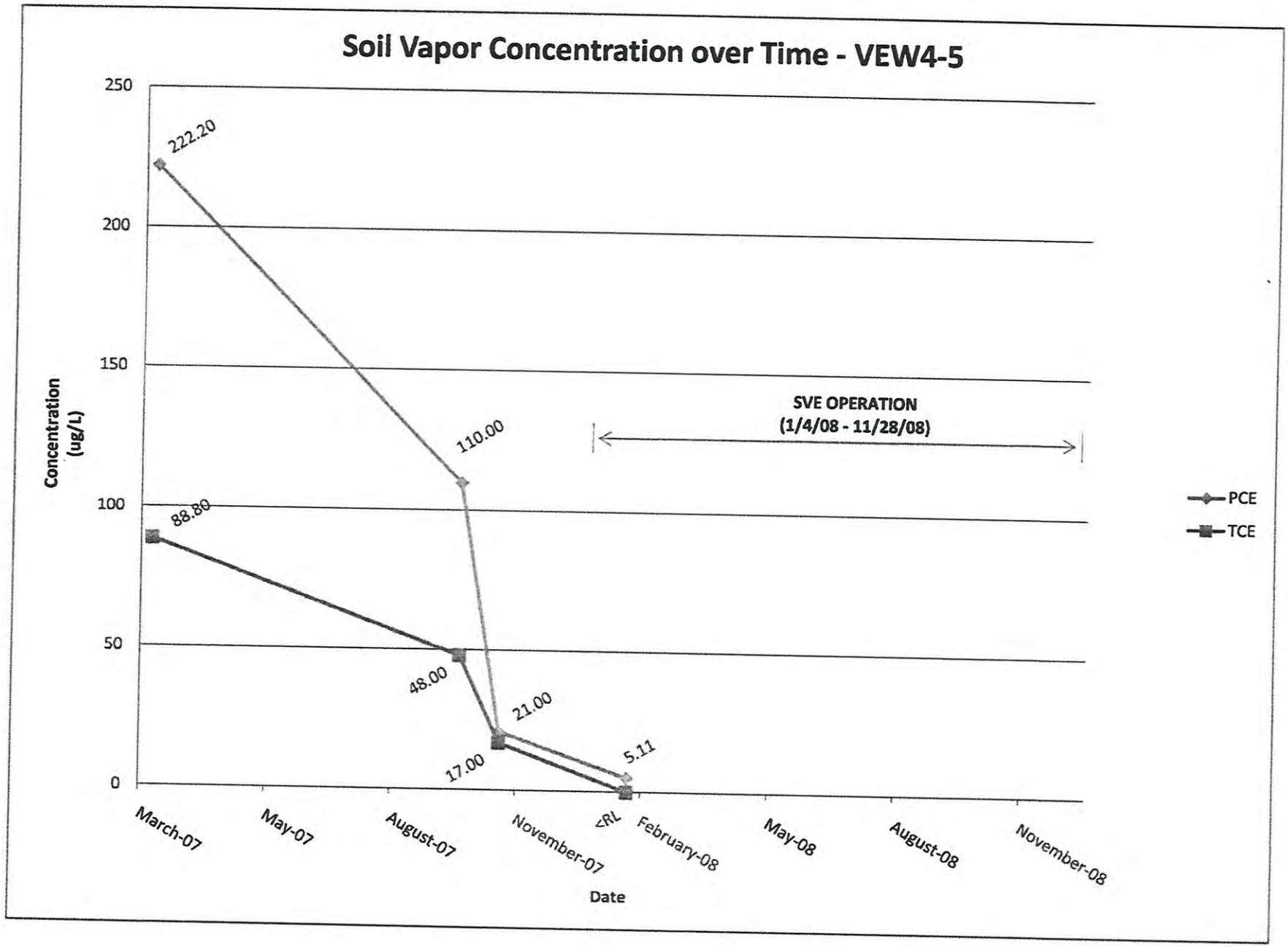
ATTACHMENT C

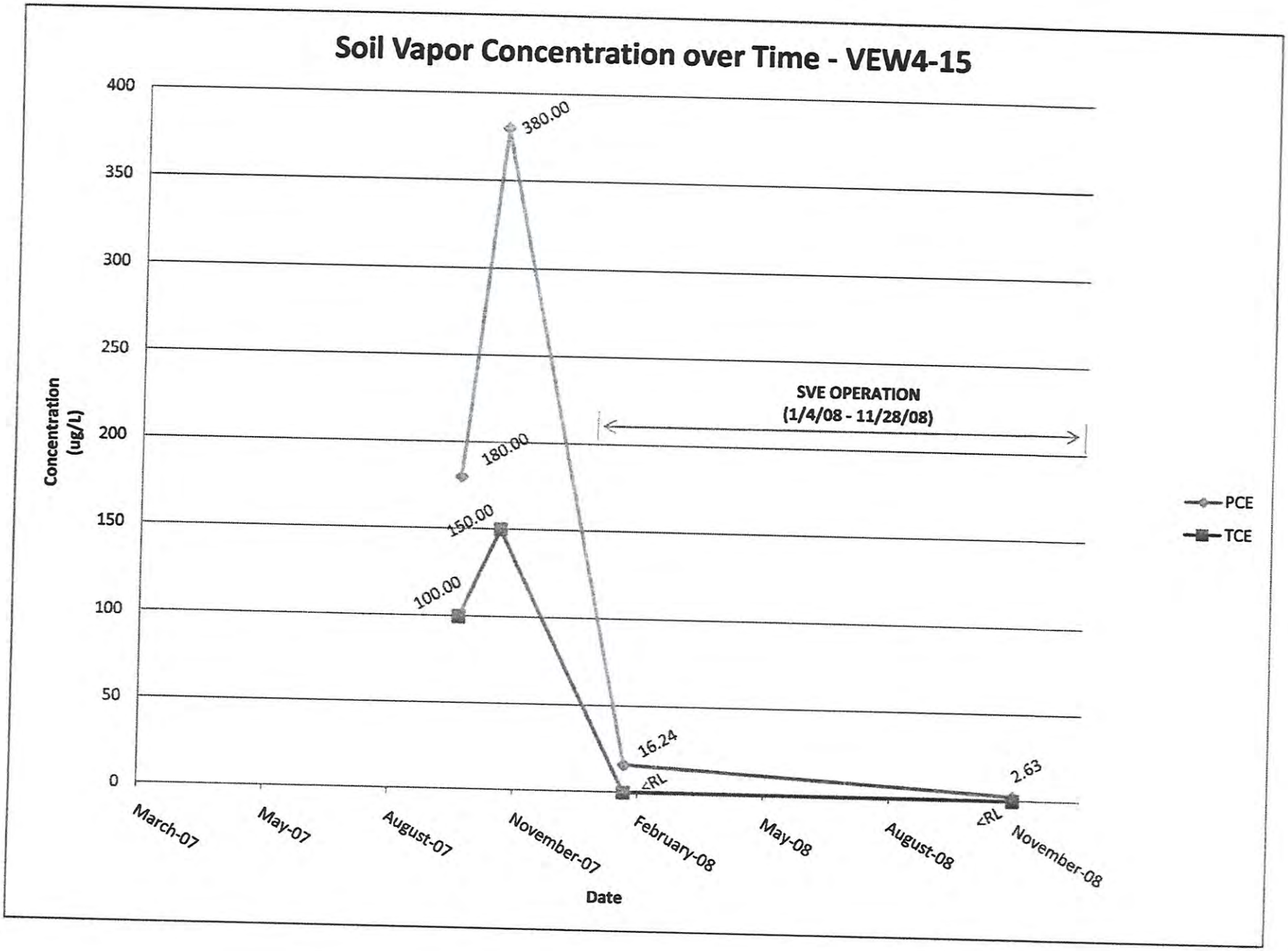
SOIL VAPOR CONCENTRATIONS OVER TIME

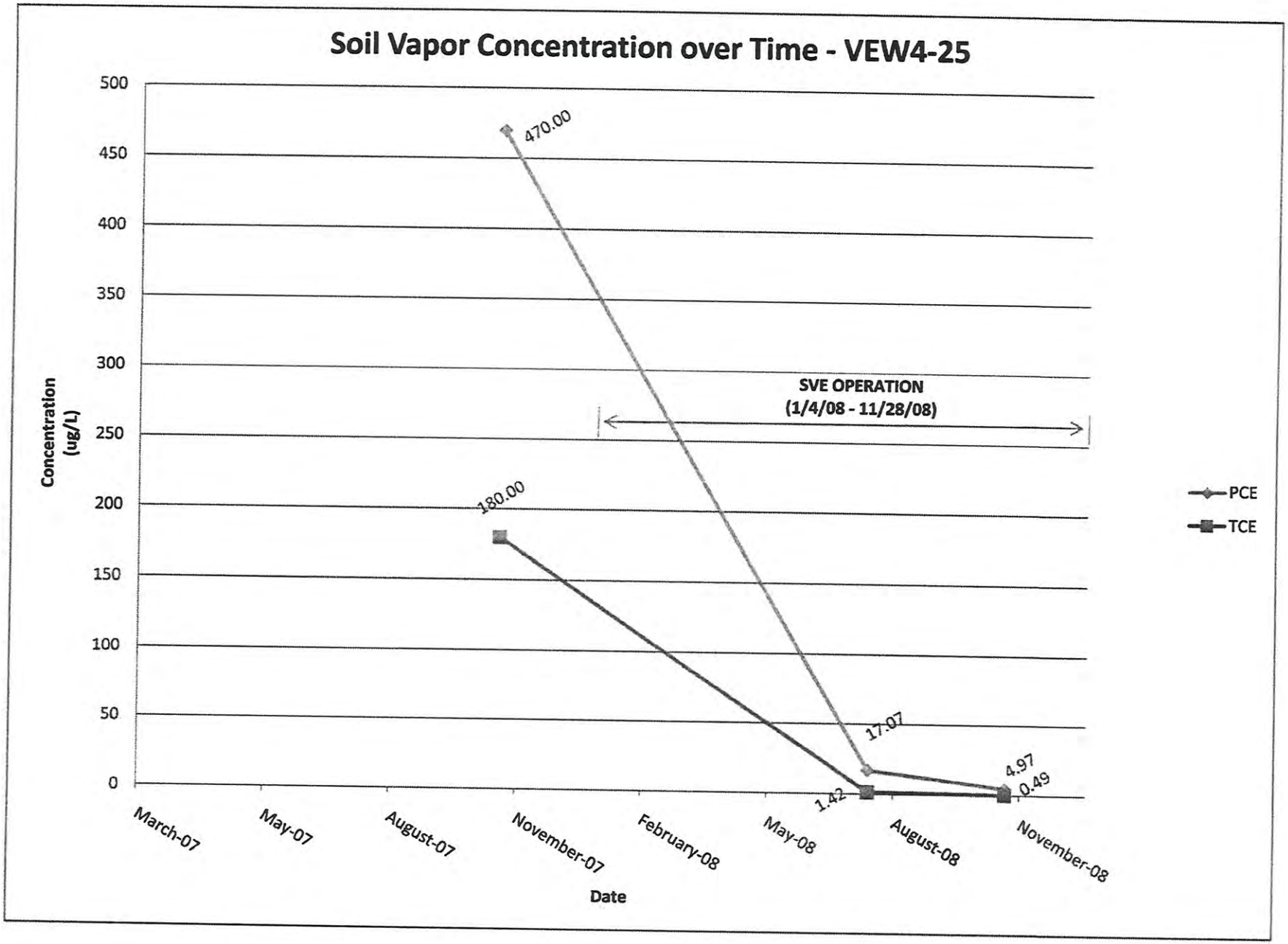

Soil Vapor Concentration over Time - VEW3-5
1,200
1,000
800
600
400
200
0
Concentration (ug/L)
1,079.40
710.80
24.00
29.00
74.14
12.21
37.66
1.64
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

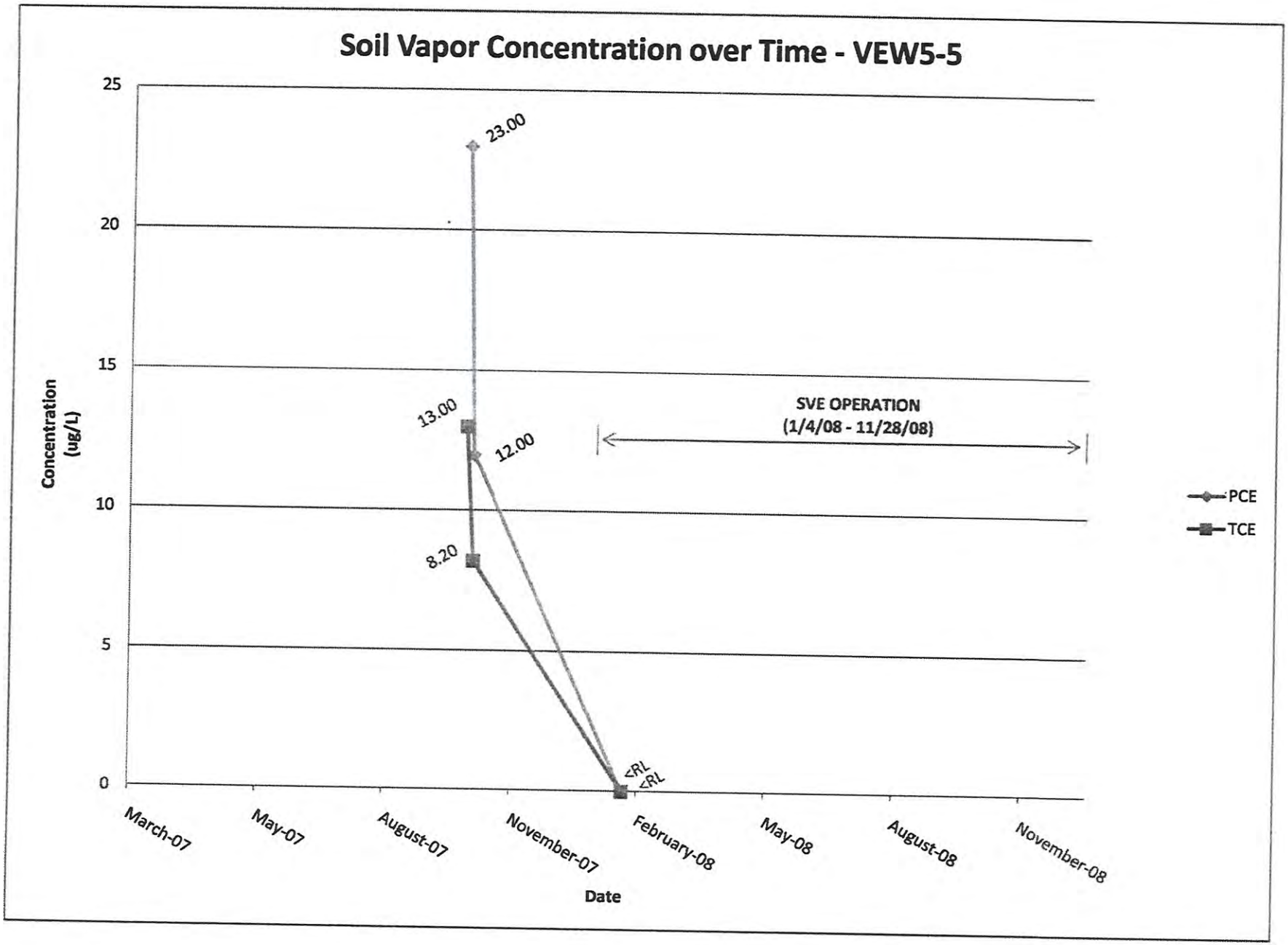

Soil Vapor Concentration over Time - VEW3-15
600
500
400
300
200
100
0
Concentration (ug/L)
482.50
240.00
140.00
98.76
76.90
14.07
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

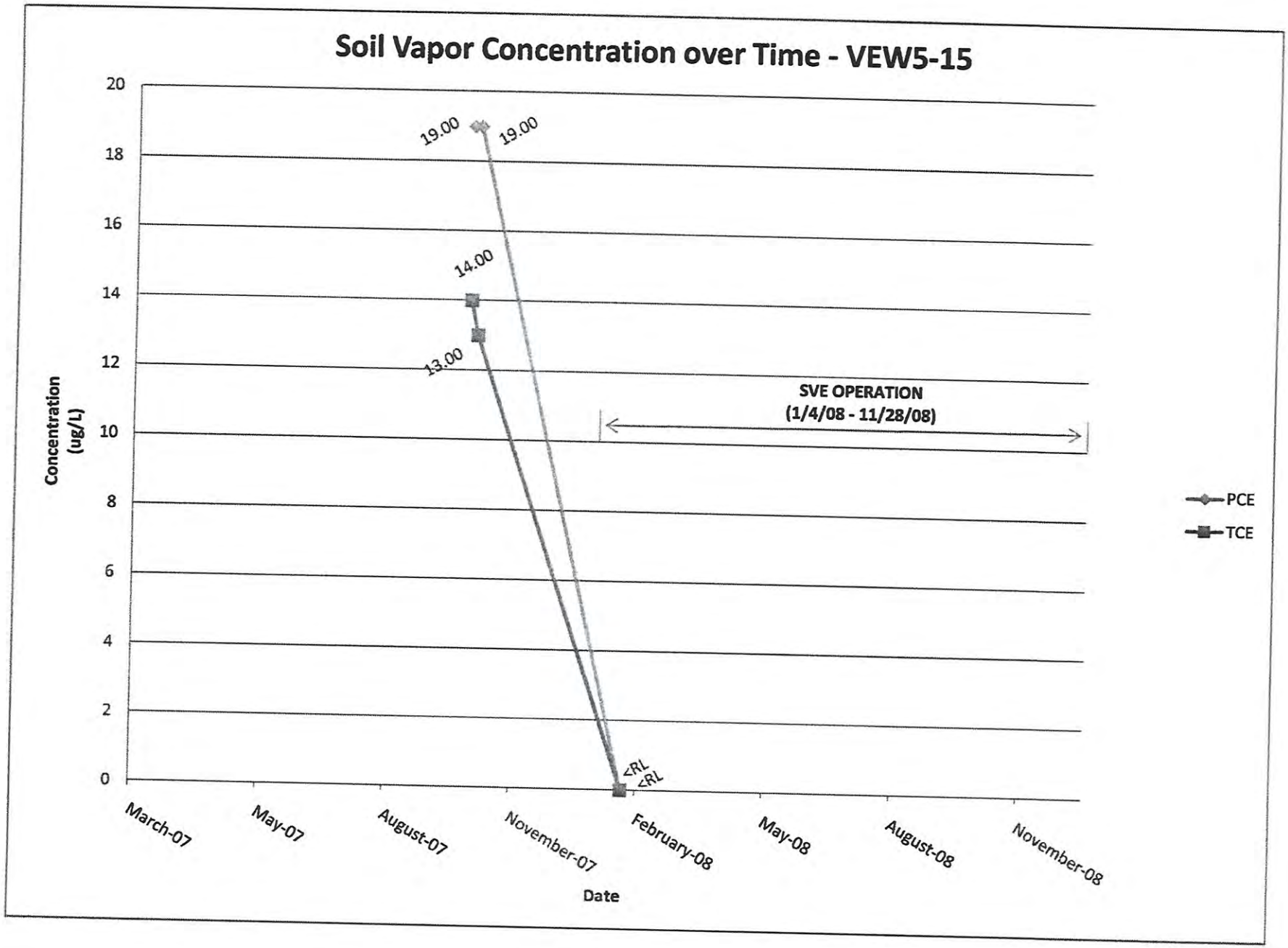

Soil Vapor Concentration over Time - VEW3-25
250
200
150
100
50
0
Concentration (ug/L)
210.00
120.00
70.75
62.60
8.38
16.31
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

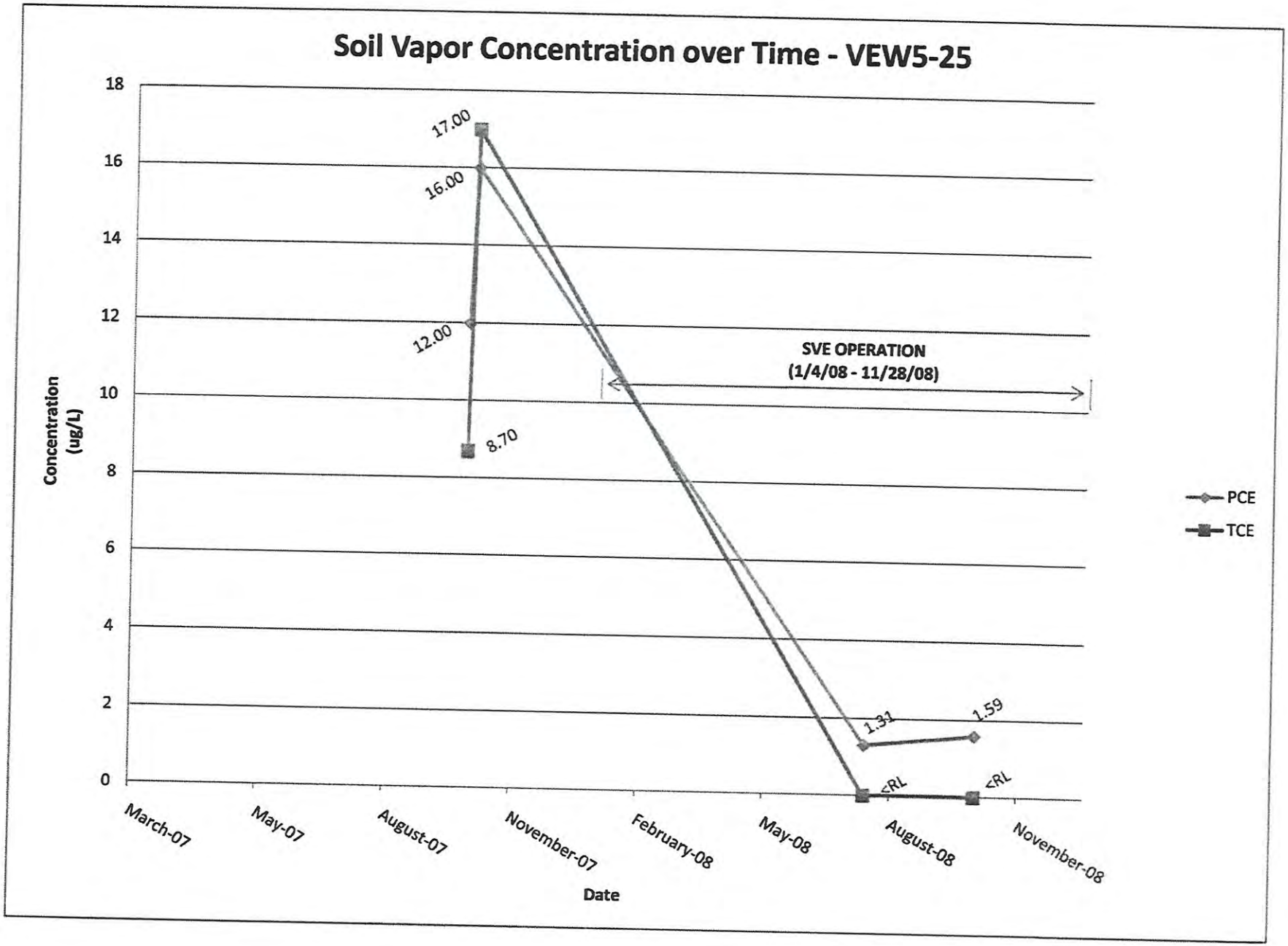

Soil Vapor Concentration over Time - VEW4-5
250
200
150
100
50
0
Concentration (ug/L)
222.20
110.00
88.80
48.00
21.00
17.00
5.11
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
RL
February-08
May-08
August-08
November-08
Date

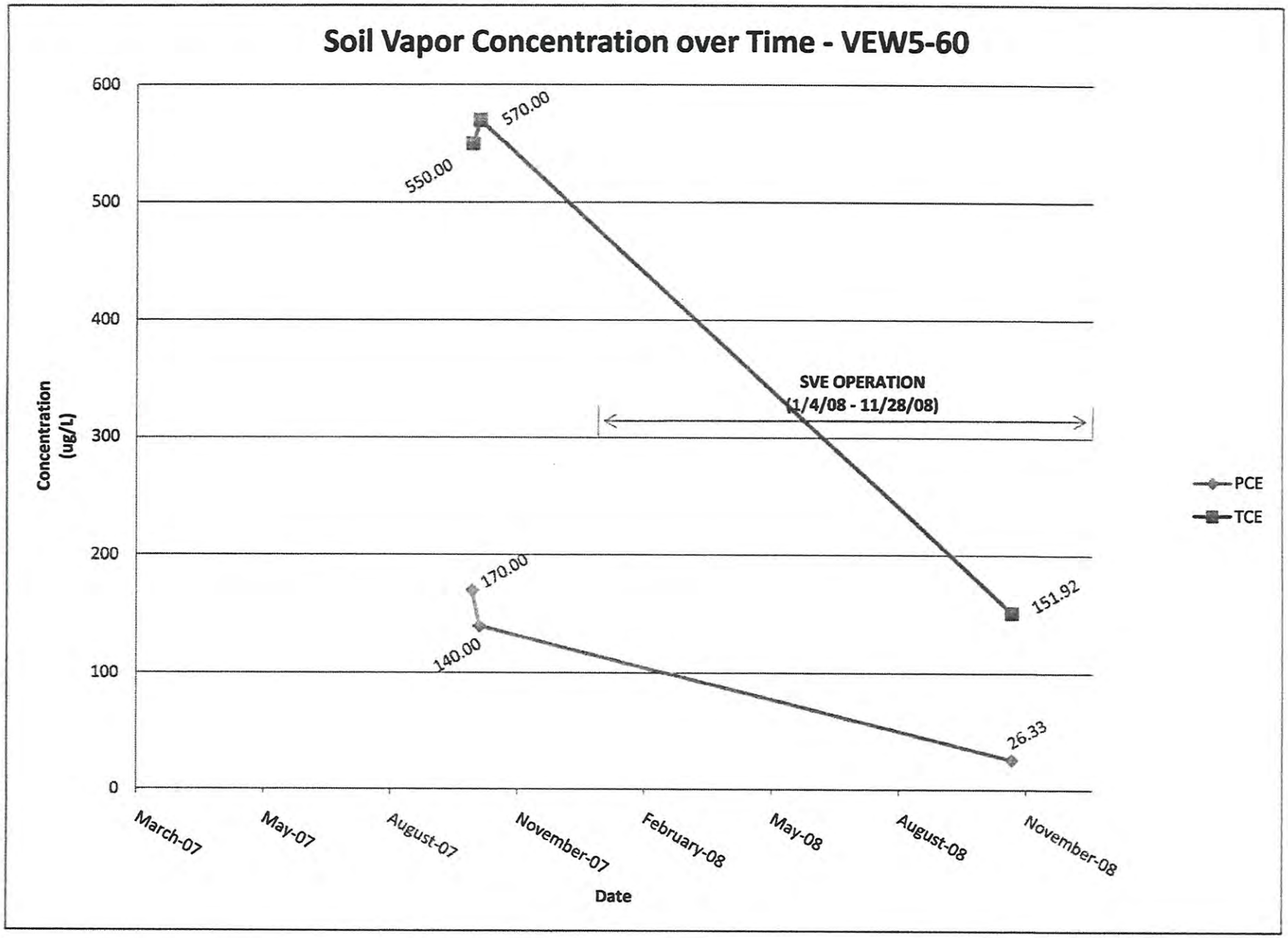

Soil Vapor Concentration over Time - VEW4-15
Concentration (ug/L)
400
350
300
250
200
150
100
50
0
380.00
180.00
150.00
100.00
16.24
<RL
2.63
<RL
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

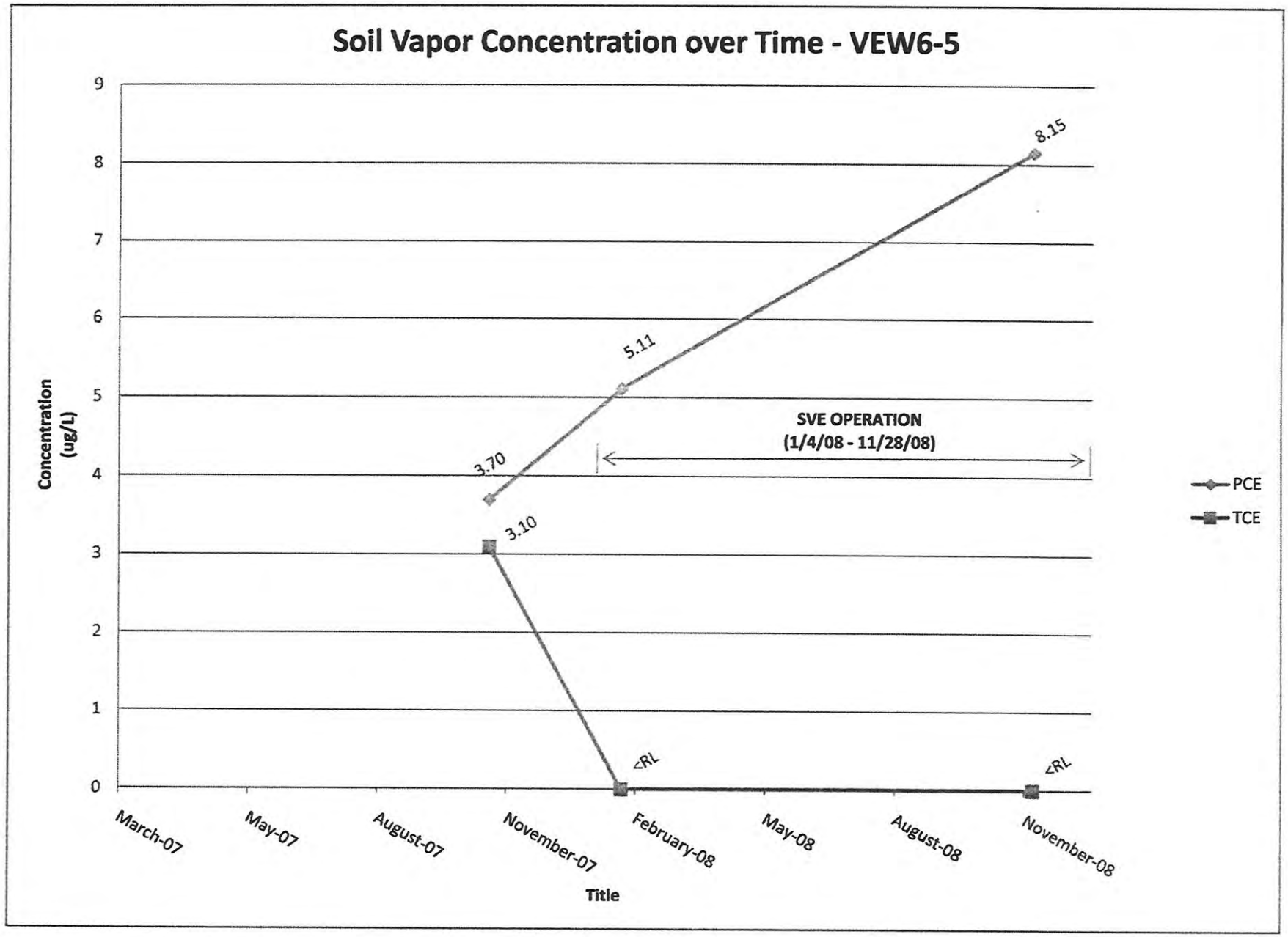

Soil Vapor Concentration over Time - VEW4-25
Concentration (ug/L)
500
450
400
350
300
250
200
150
100
50
0
SVE OPERATION
(1/4/08 - 11/28/08)
470.00
180.00
17.07
4.97
1.42
0.49
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE

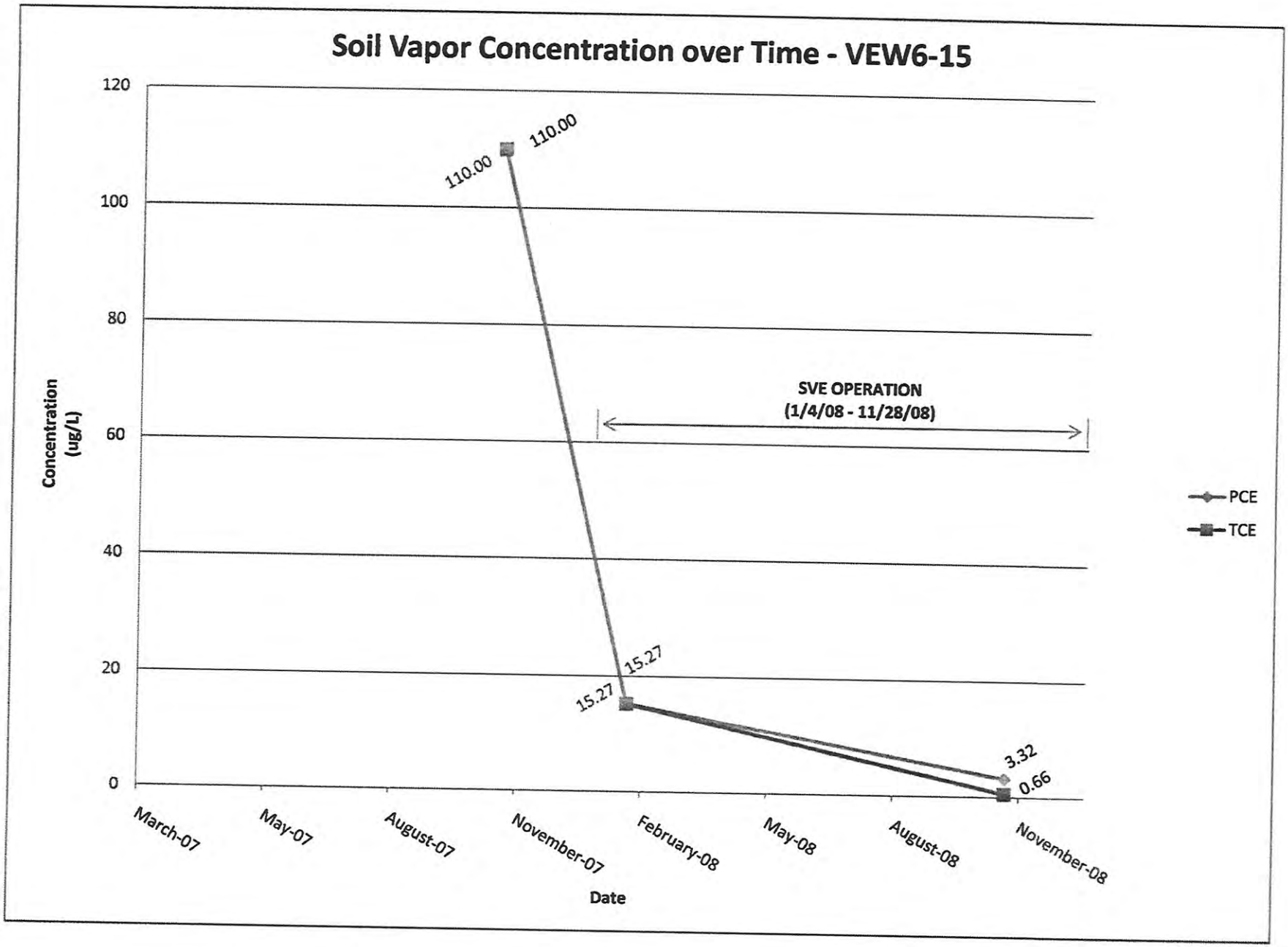

Soil Vapor Concentration over Time - VEW5-5
25
20
15
10
5
0
Concentration (ug/L)
23.00
13.00
12.00
8.20
<RL
<RL
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

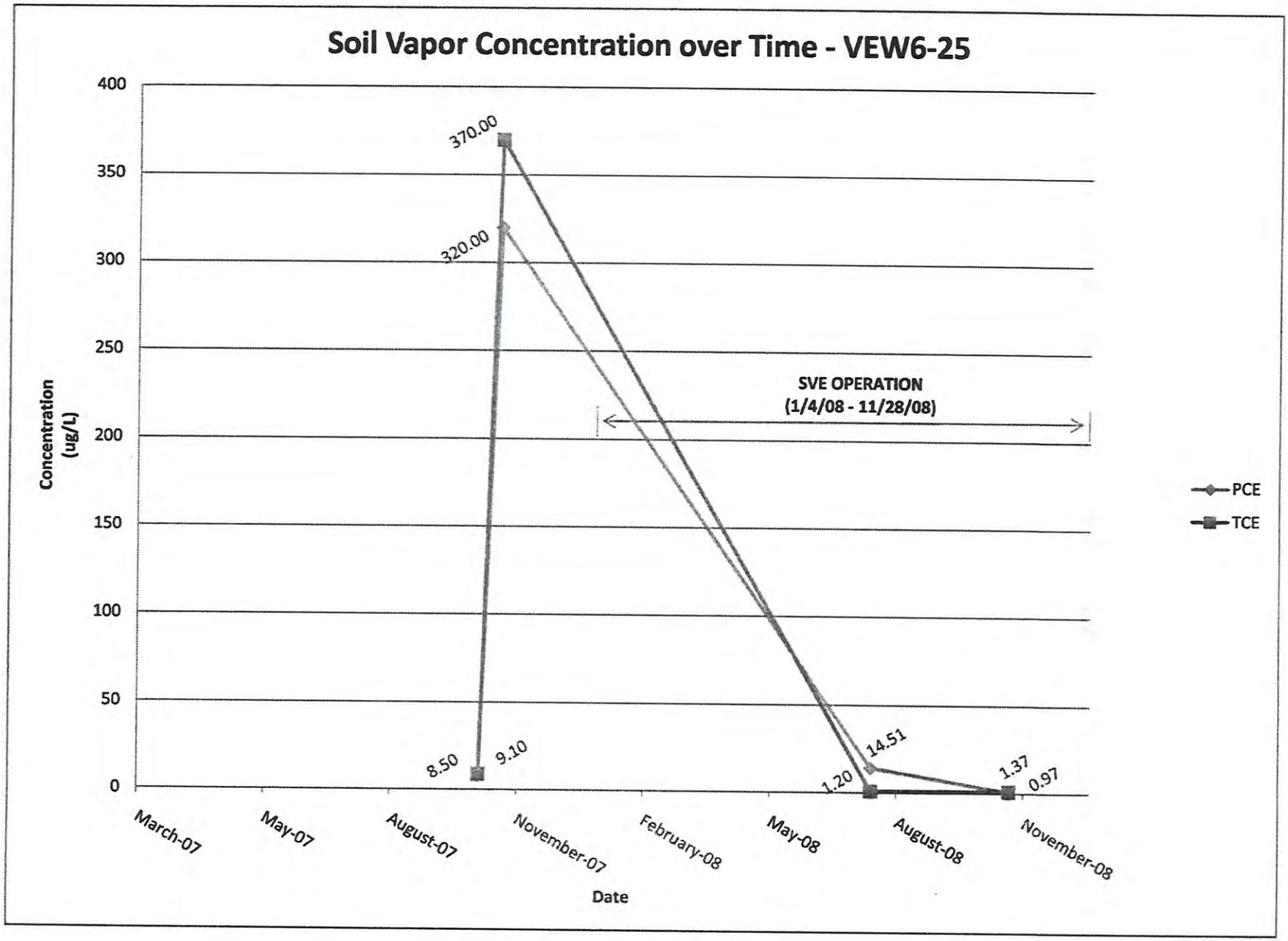

Soil Vapor Concentration over Time - VEW5-15
Concentration (ug/L)
20
18
16
14
12
10
8
6
4
2
0
19.00
19.00
14.00
13.00
<RL
<RL
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

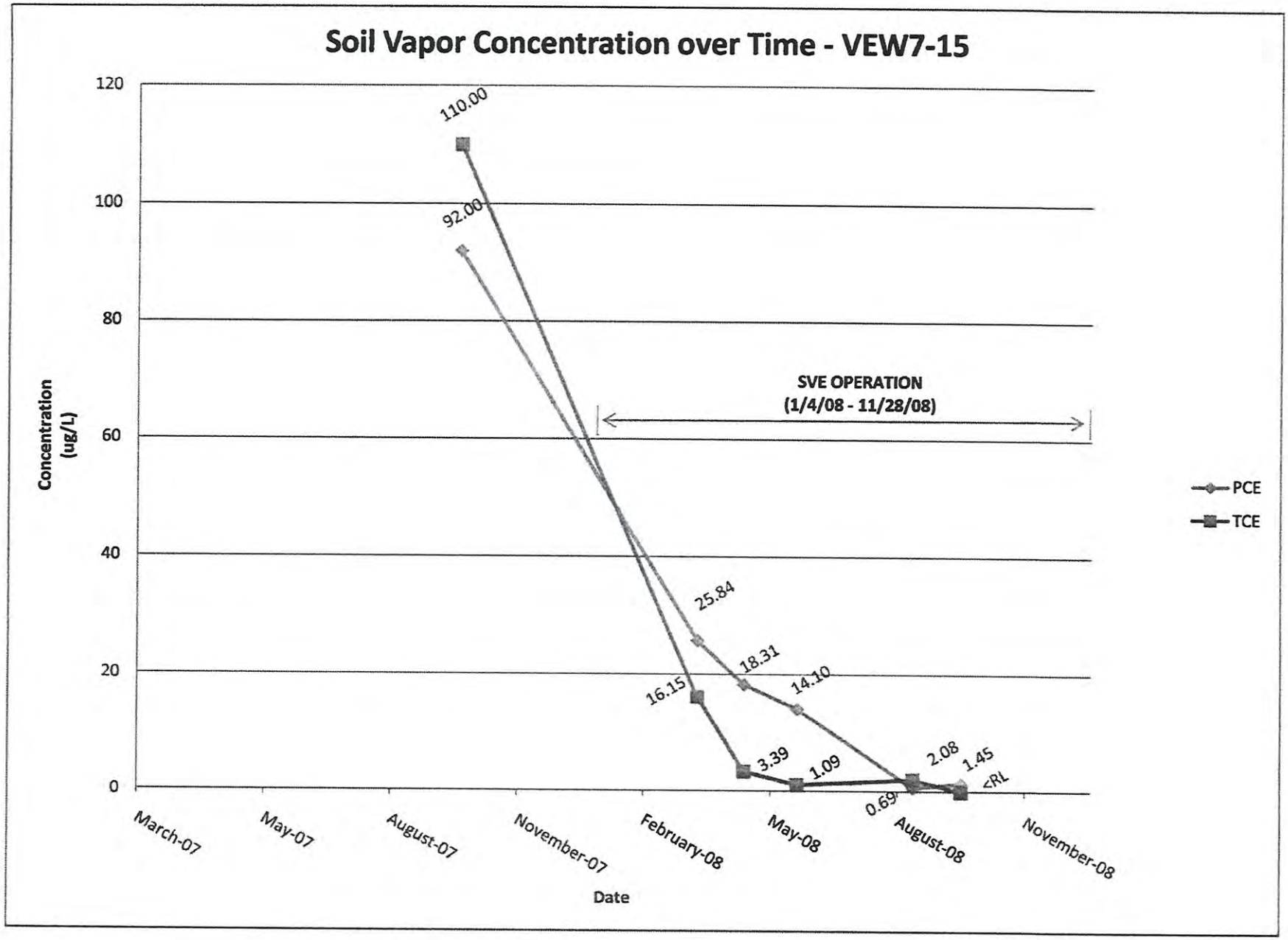

Soil Vapor Concentration over Time - VEW5-25
Concentration (ug/L)
18
16
14
12
10
8
6
4
2
0
17.00
16.00
12.00
8.70
SVE OPERATION
(1/4/08 - 11/28/08)
1.31
1.59
<RL
<RL
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE

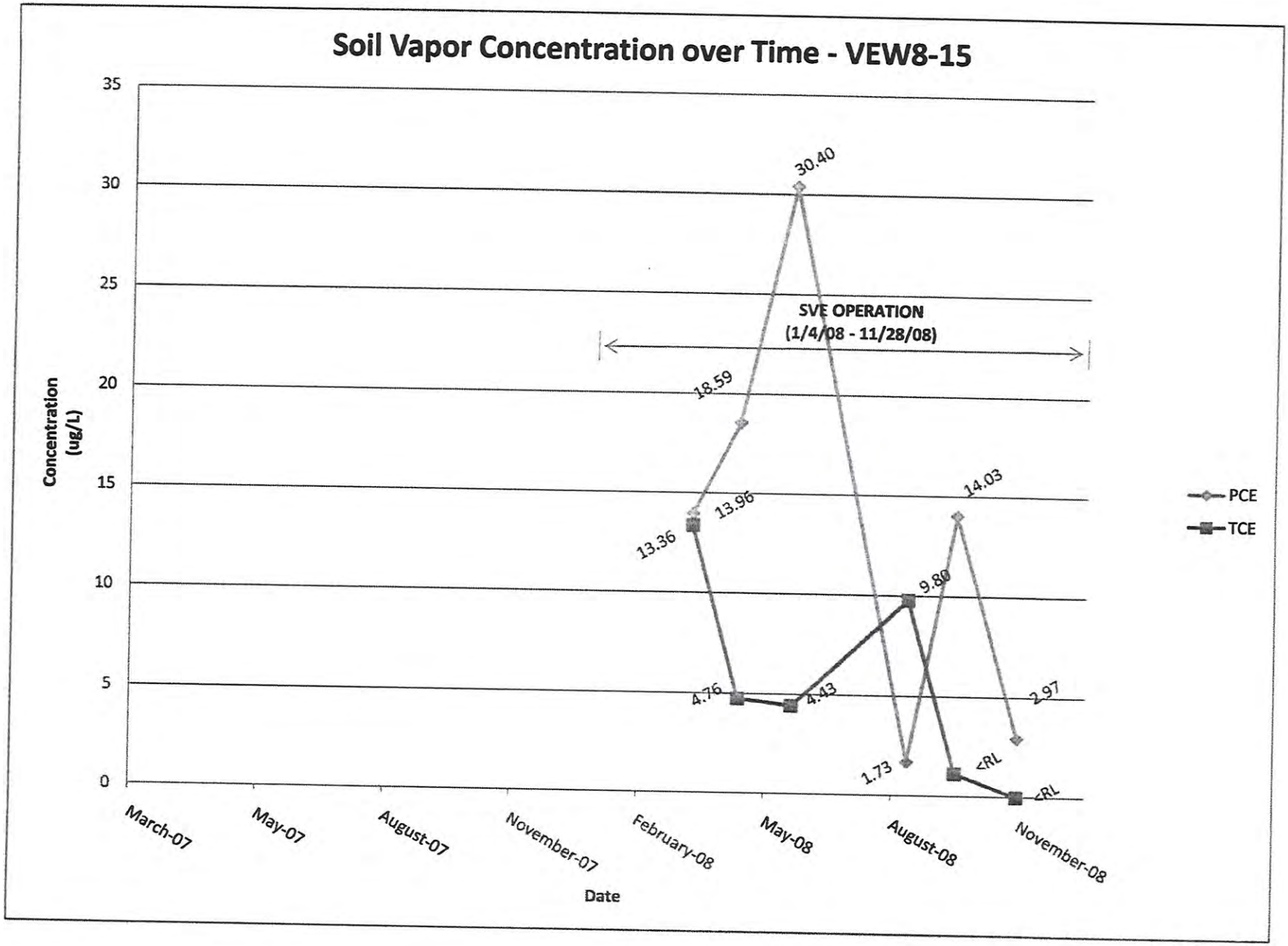

Soil Vapor Concentration over Time - VEW5-60
600
500
400
300
200
100
0
Concentration (ug/L)
570.00
550.00
SVE OPERATION
(1/4/08 - 11/28/08)
170.00
151.92
140.00
26.33
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

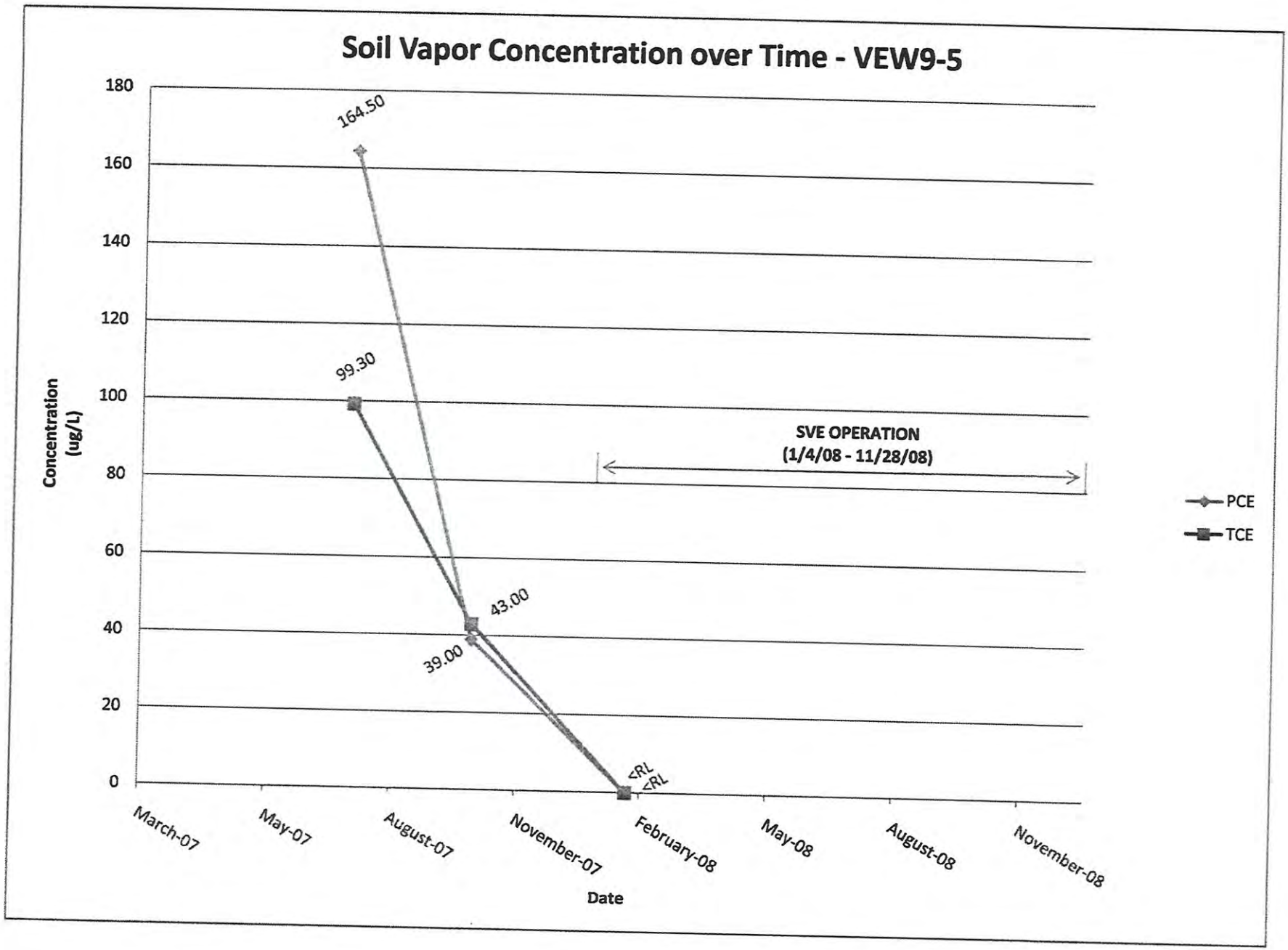

Soil Vapor Concentration over Time - VEW6-5
Concentration (ug/L)
9
8
7
6
5
4
3
2
1
0
8.15
5.11
3.70
3.10
<RL
<RL
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Title

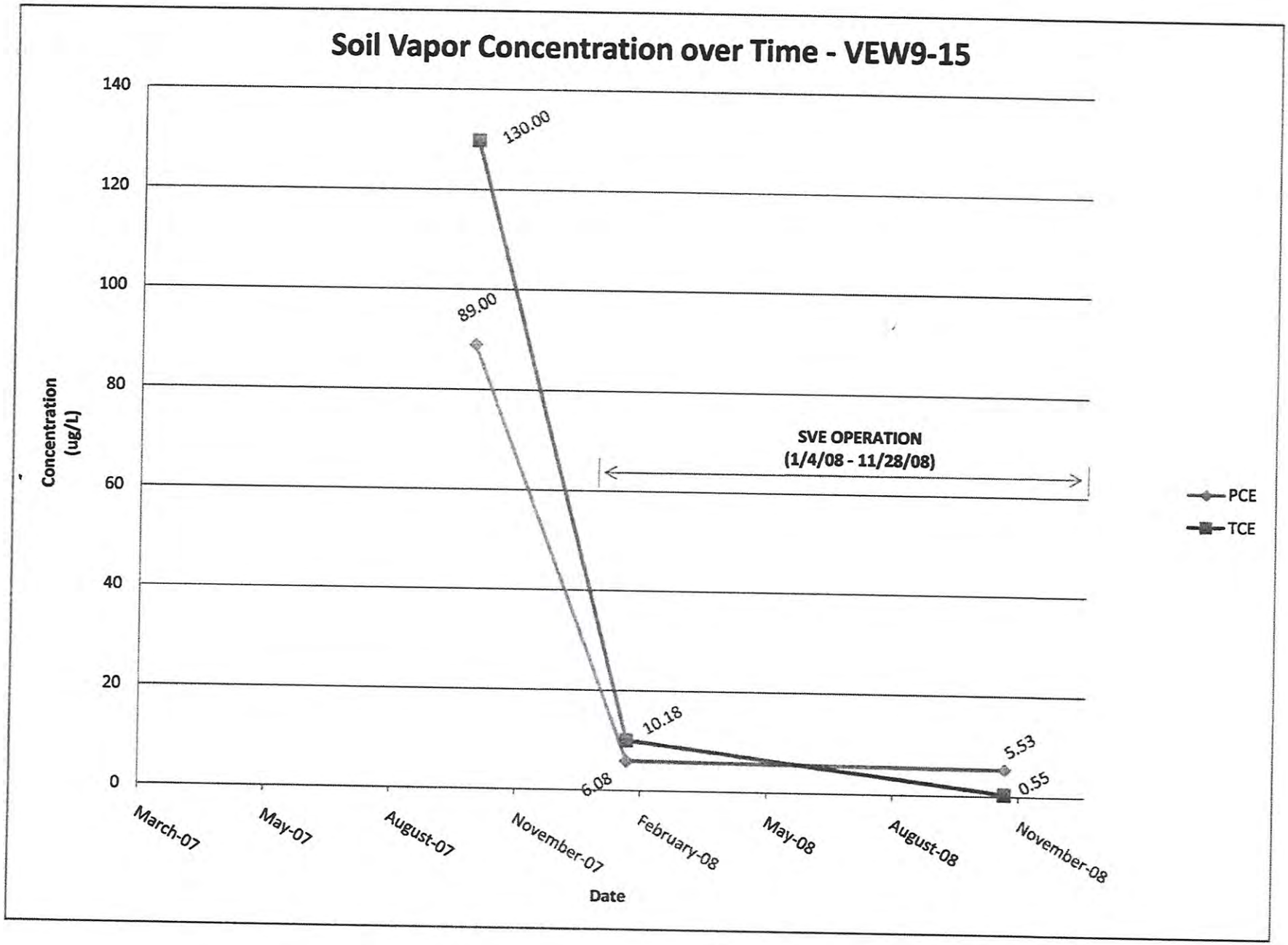

Soil Vapor Concentration over Time - VEW6-15
120
100
80
60
40
20
0
Concentration (ug/L)
110.00
110.00
15.27
15.27
3.32
0.66
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

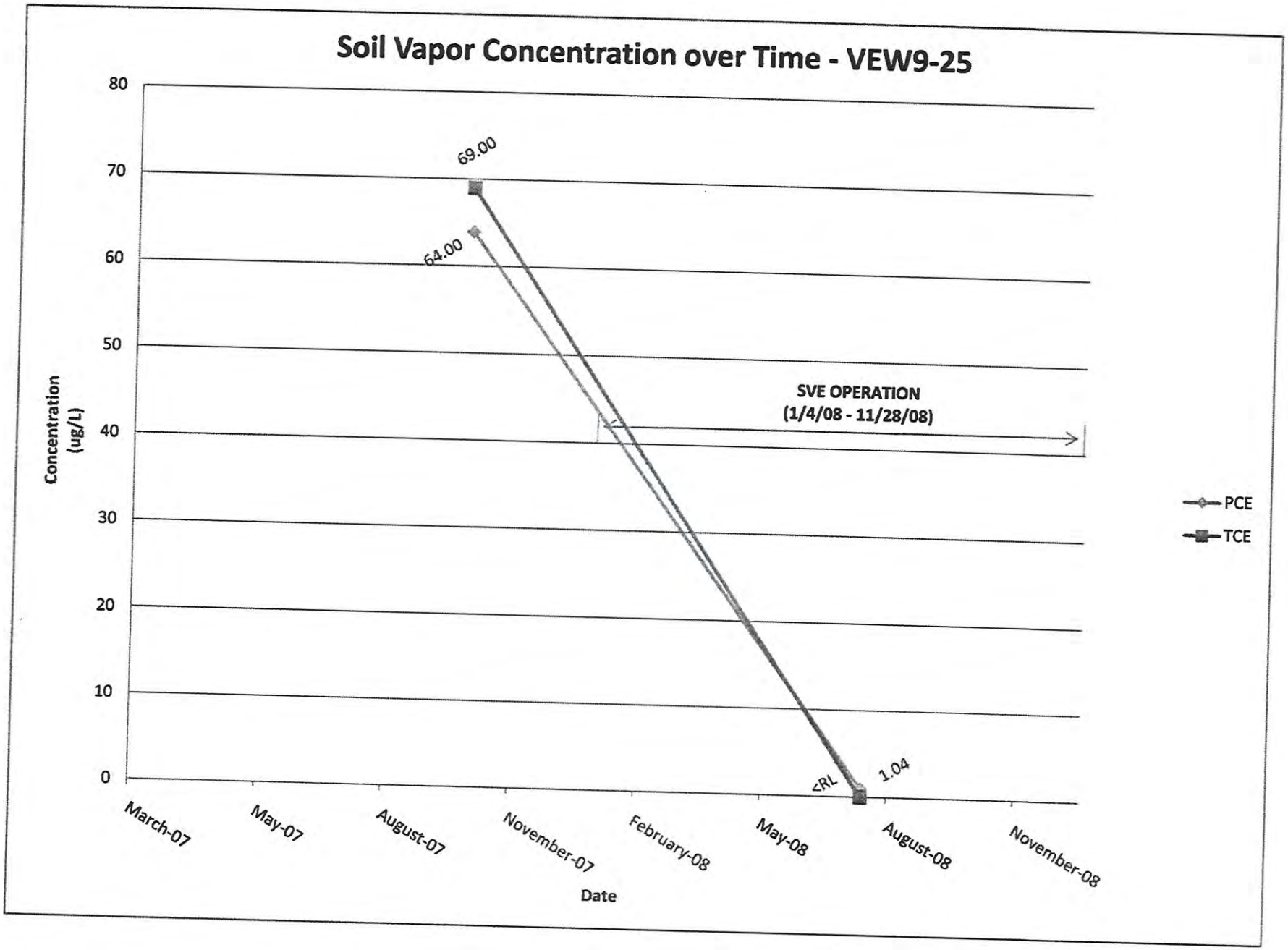

Soil Vapor Concentration over Time - VEW6-25
Concentration (ug/L)
400
350
300
250
200
150
100
50
0
370.00
320.00
8.50
9.10
14.51
1.20
1.37
0.97
SVE OPERATION
(1/4/08 - 11/28/08)
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE

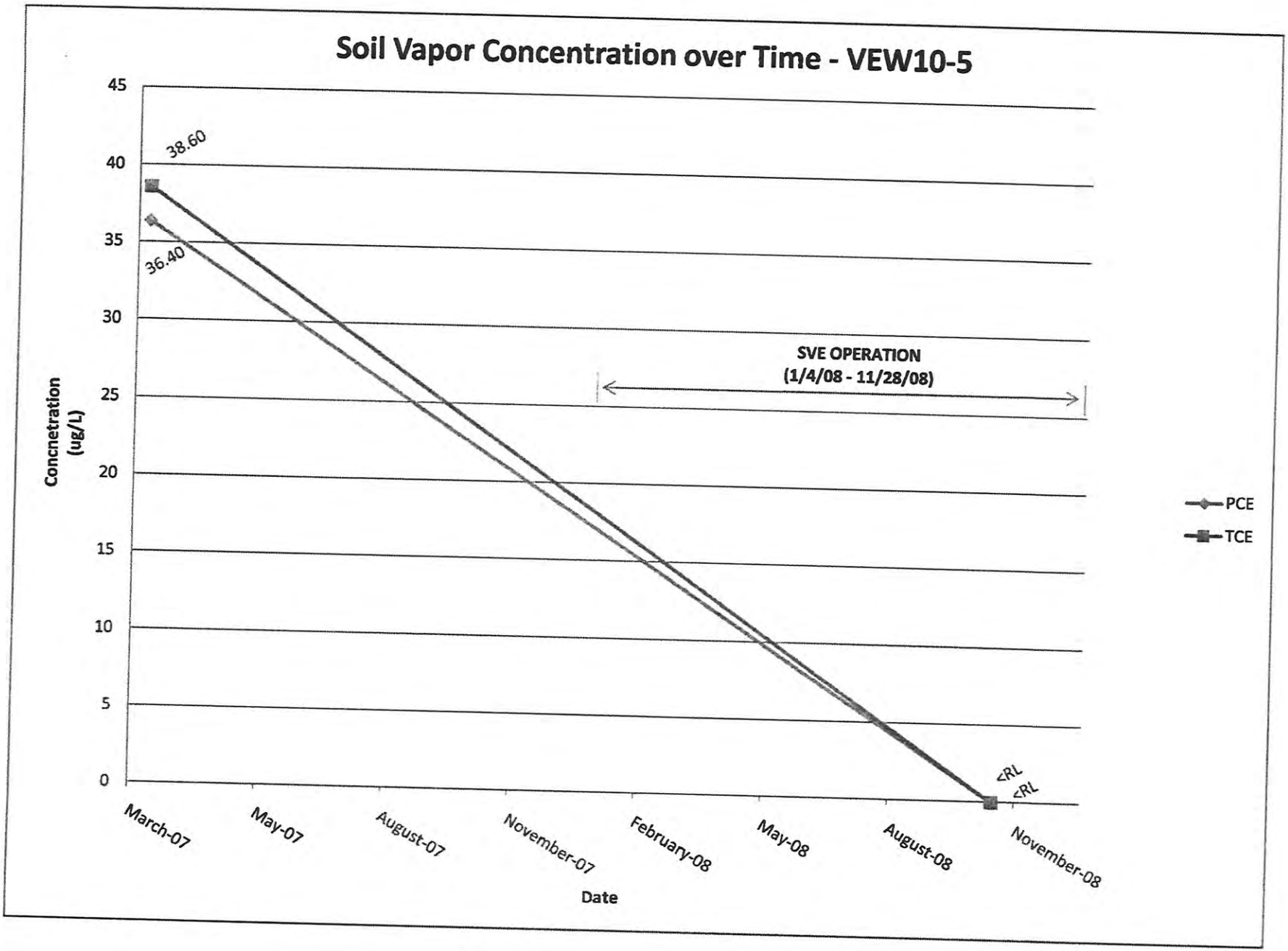

Soil Vapor Concentration over Time - VEW7-15
120
100
80
60
40
20
0
Concentration (ug/L)
110.00
92.00
25.84
18.31
14.10
16.15
3.39
1.09
0.69
2.08
1.45
<RL
SVE OPERATION
(1/4/08 - 11/28/08)
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE

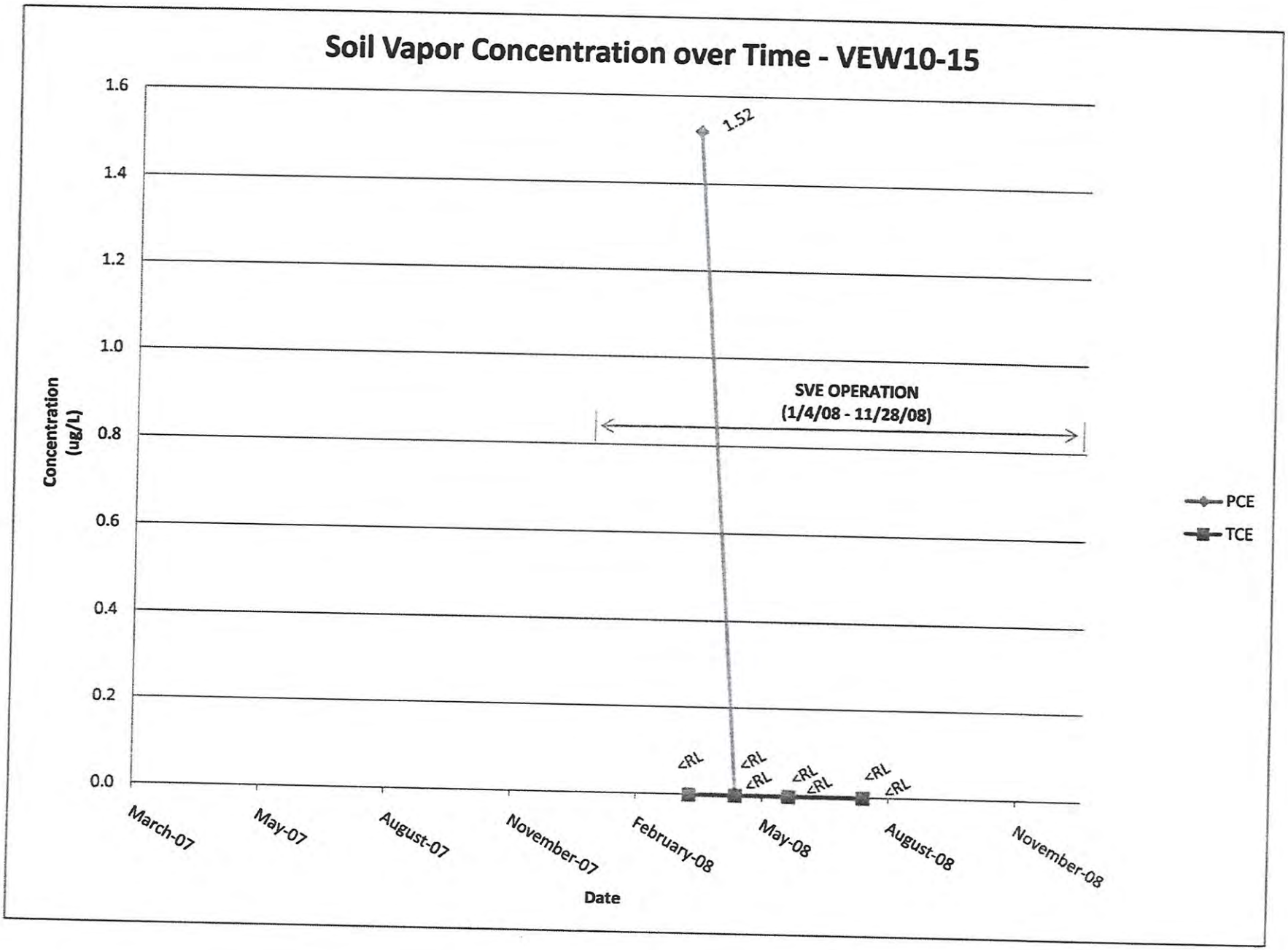

Soil Vapor Concentration over Time - VEW8-15
Concentration (ug/L)
35
30
25
20
15
10
5
0
SVE OPERATION
(1/4/08 - 11/28/08)
30.40
18.59
13.96
13.36
14.03
9.80
4.76
4.43
2.97
1.73
<RL
<RL
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

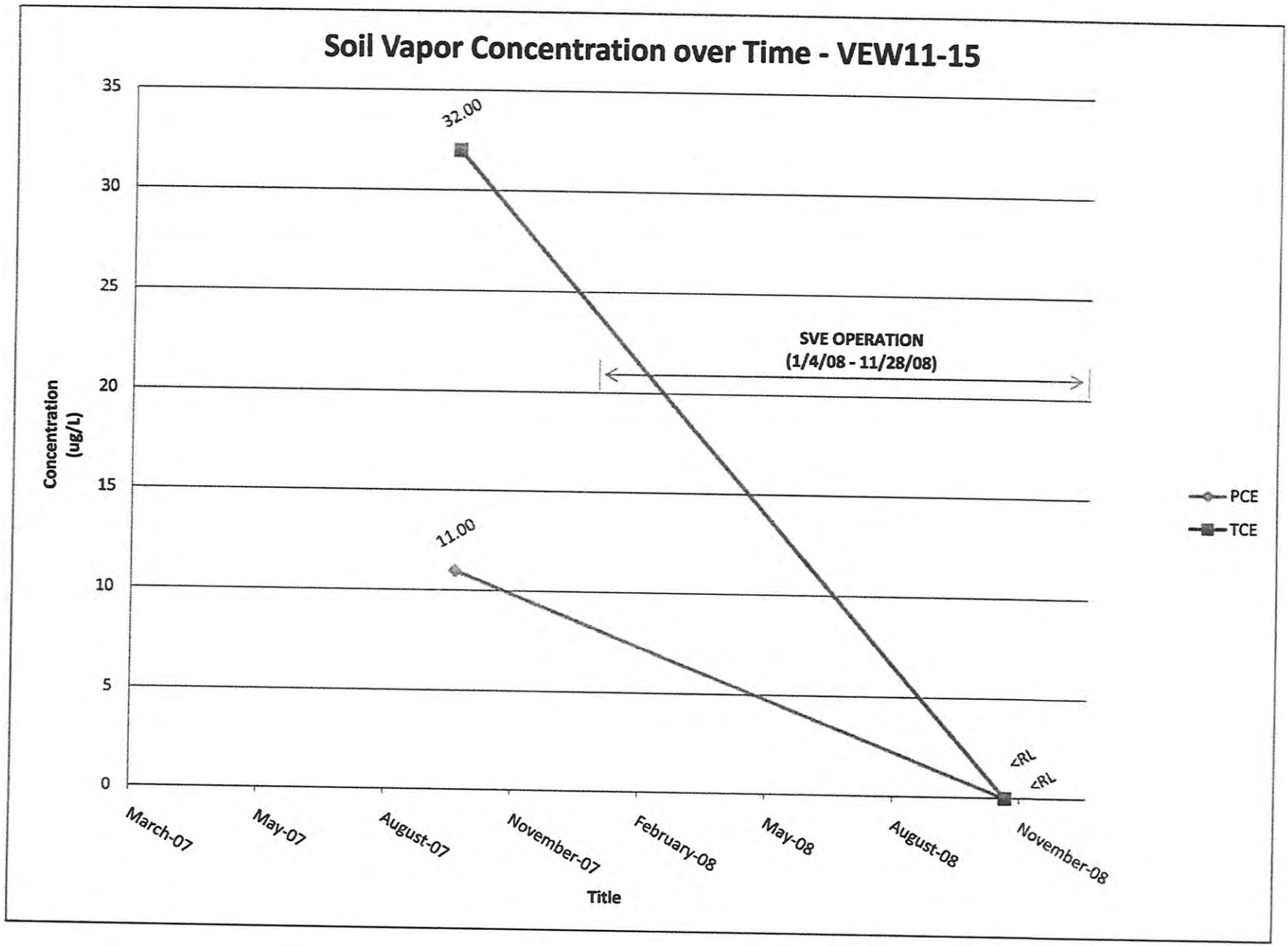

Soil Vapor Concentration over Time - VEW9-5
Concentration (ug/L)
180
160
140
120
100
80
60
40
20
0
164.50
99.30
43.00
39.00
<RL
<RL
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

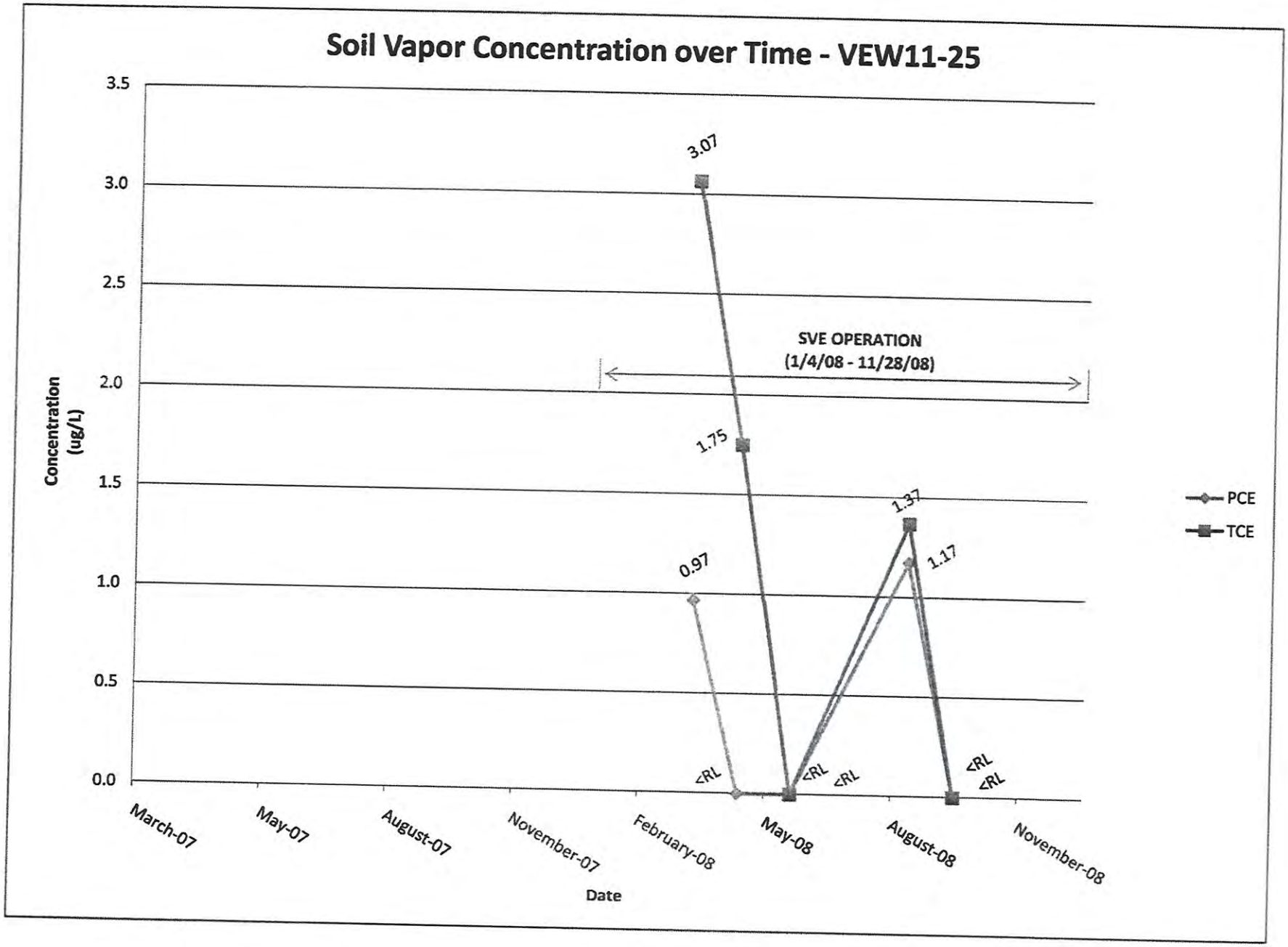

Soil Vapor Concentration over Time - VEW9-15
140
120
100
80
60
40
20
0
Concentration (ug/L)
130.00
89.00
10.18
6.08
5.53
0.55
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

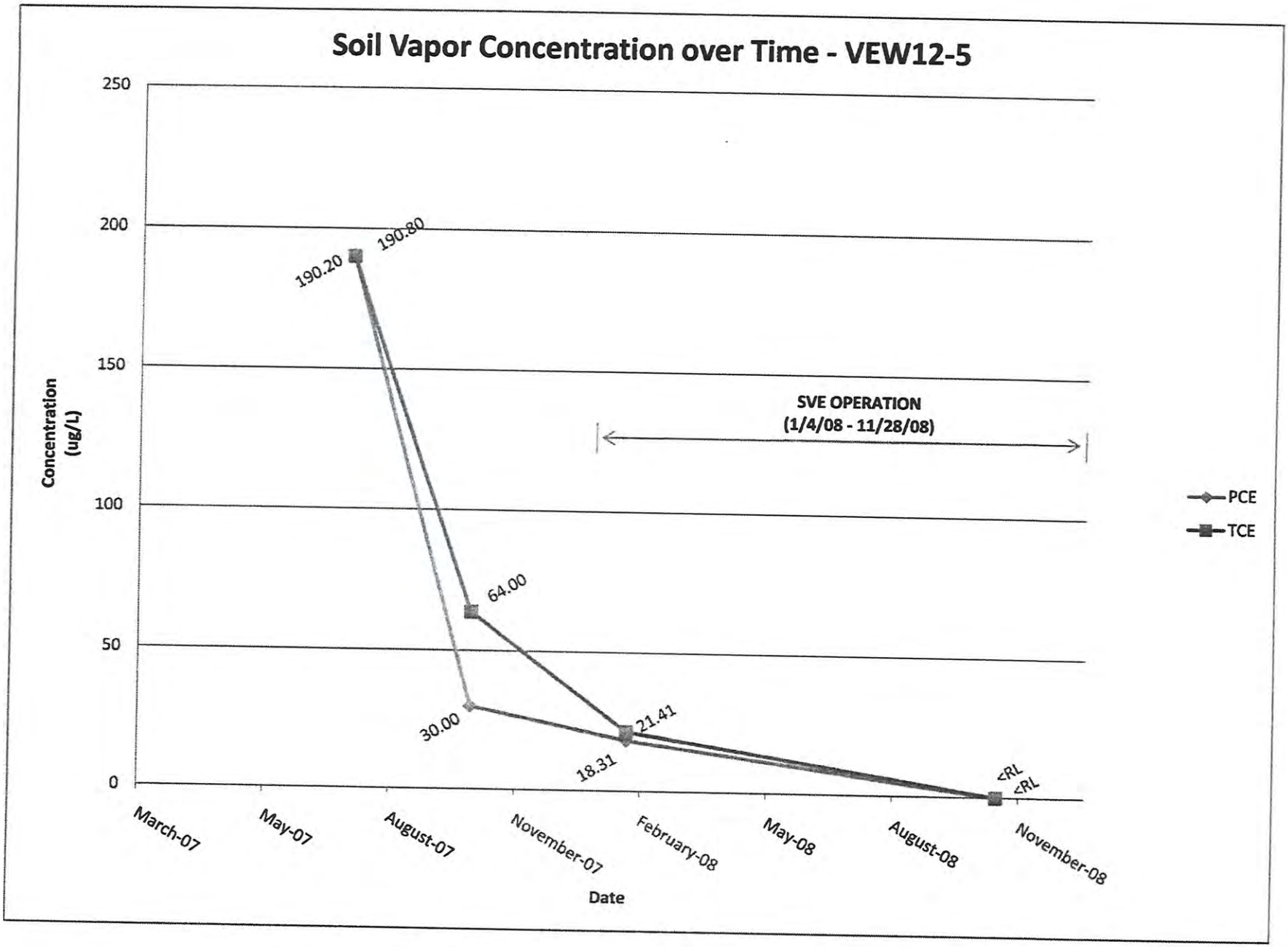

Soil Vapor Concentration over Time - VEW9-25
80
70
60
50
40
30
20
10
0
Concentration (ug/L)
69.00
64.00
SVE OPERATION
(1/4/08 - 11/28/08)
<RL
1.04
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE

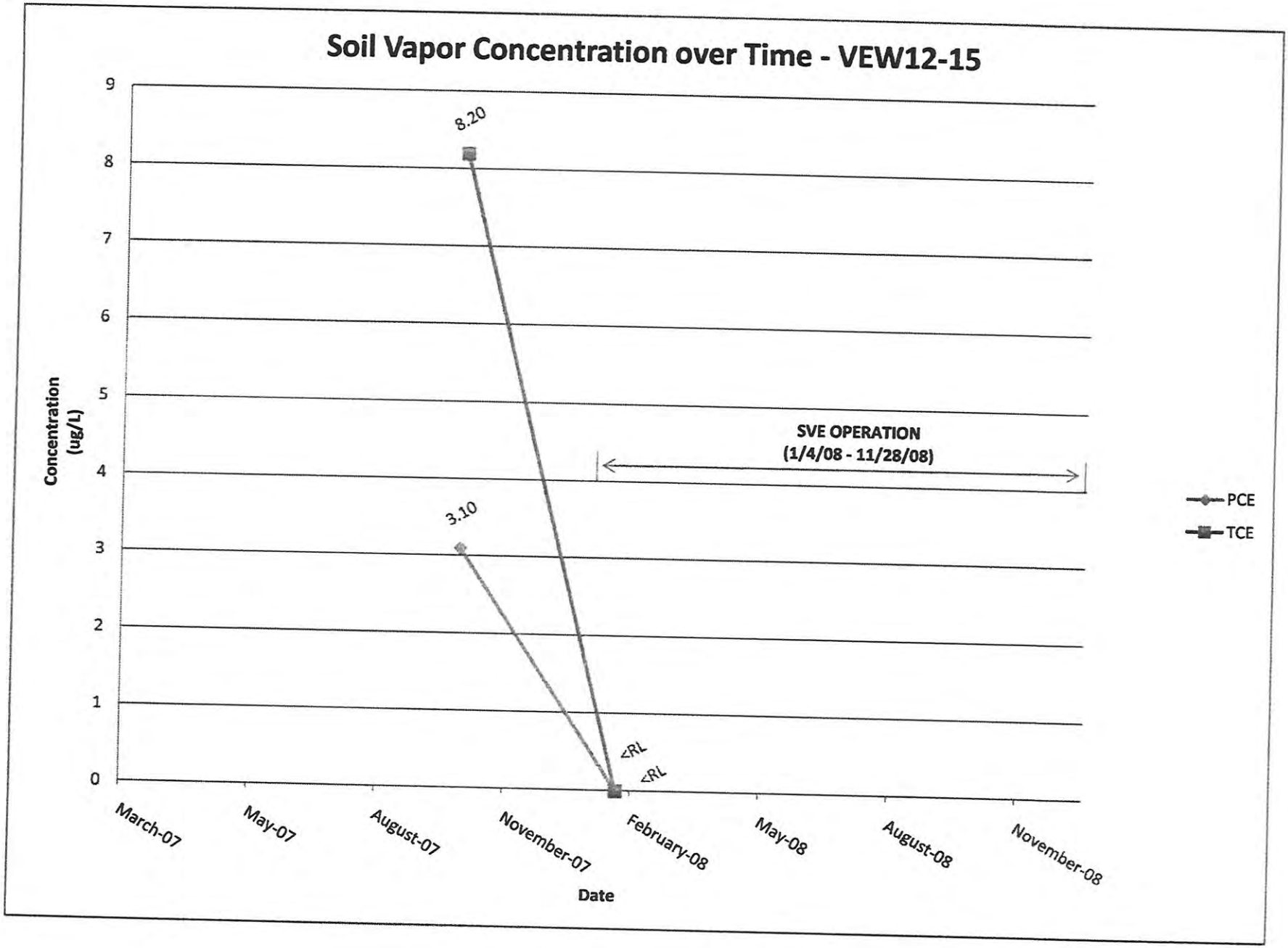

Soil Vapor Concentration over Time - VEW10-5
45
40
35
30
25
20
15
10
5
0
Concnetration (ug/L)
38.60
36.40
SVE OPERATION
(1/4/08 - 11/28/08)
<RL
<RL
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE

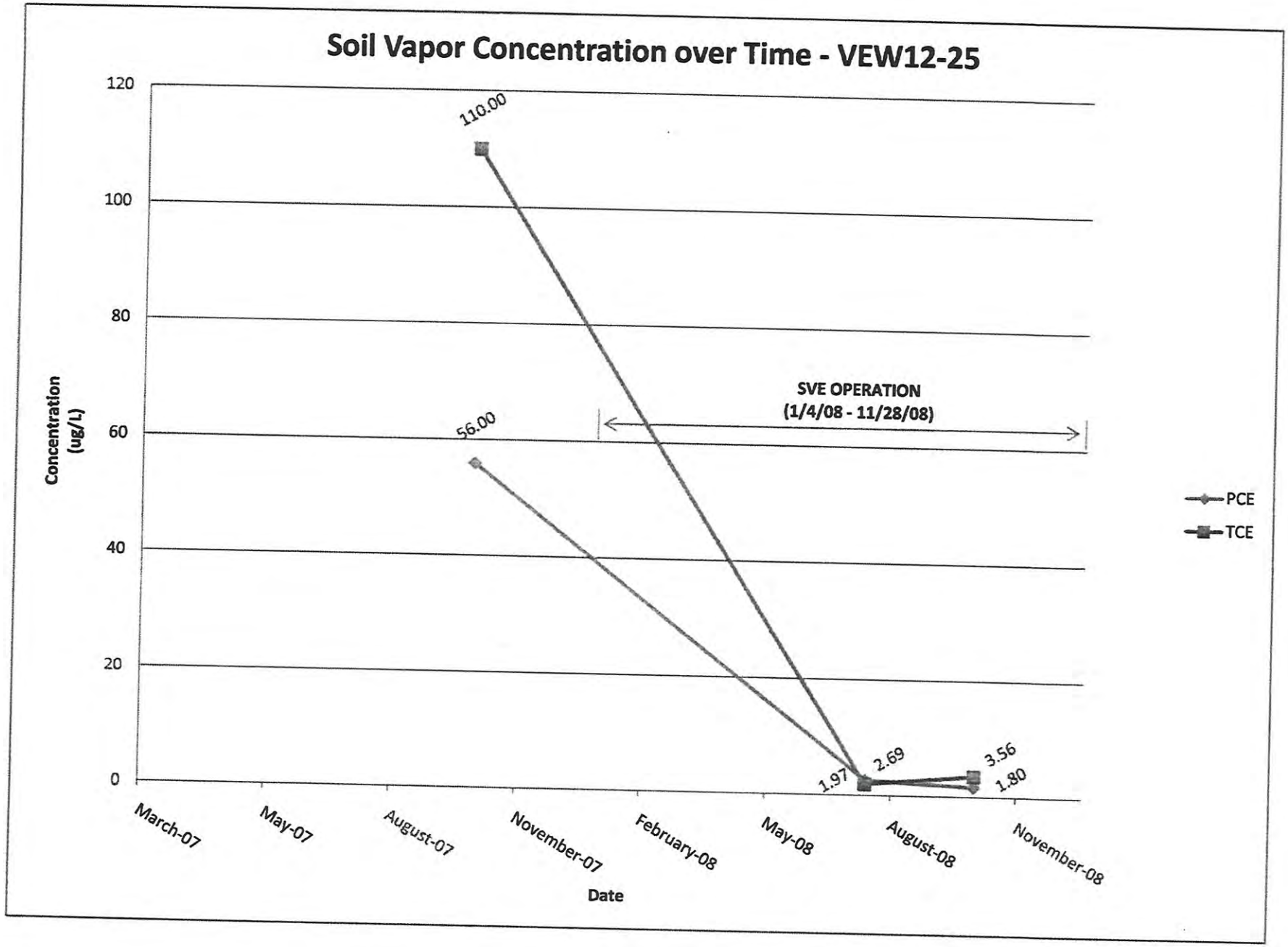

Soil Vapor Concentration over Time - VEW10-15
Concentration (ug/L)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1.52
SVE OPERATION
(1/4/08 - 11/28/08)
<RL
<RL
<RL
<RL
<RL
<RL
<RL
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE

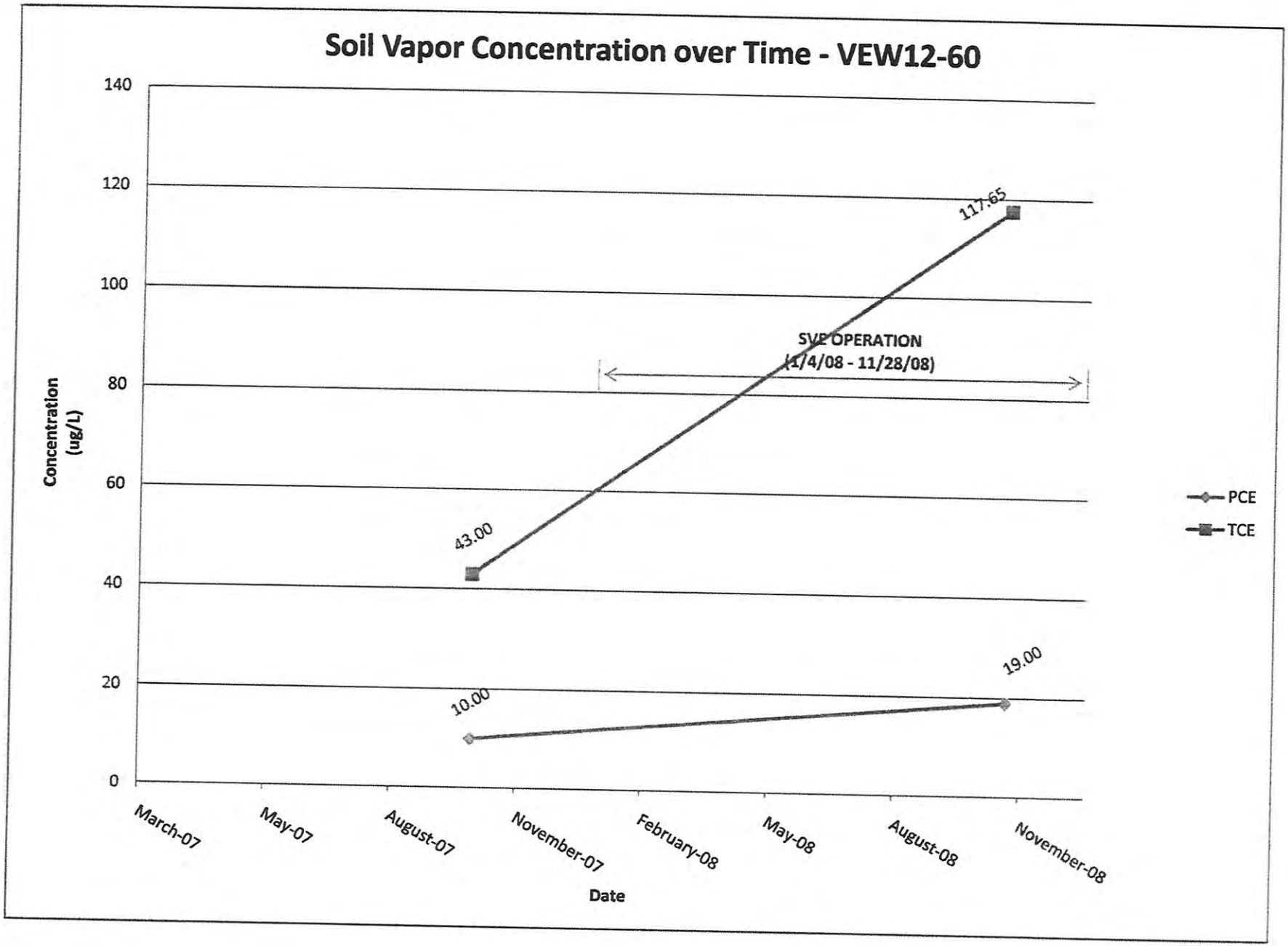

Soil Vapor Concentration over Time - VEW11-15
35
30
25
20
15
10
5
0
Concentration (ug/L)
32.00
11.00
SVE OPERATION
(1/4/08 - 11/28/08)
<RL
<RL
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Title

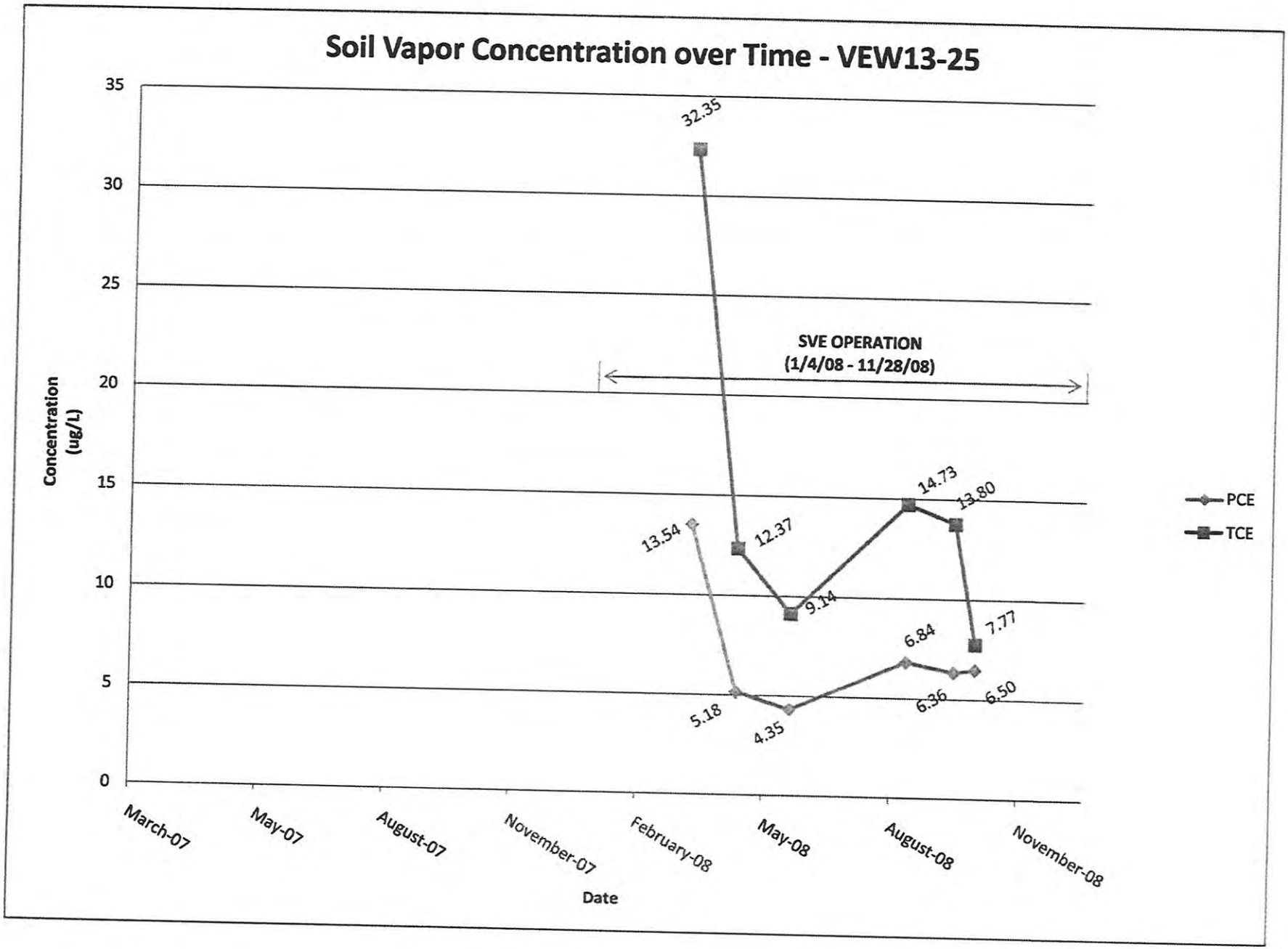

Soil Vapor Concentration over Time - VEW11-25
Concentration (ug/L)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
SVE OPERATION
(1/4/08 - 11/28/08)
3.07
1.75
1.37
1.17
0.97
<RL
<RL
<RL
<RL
<RL
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE

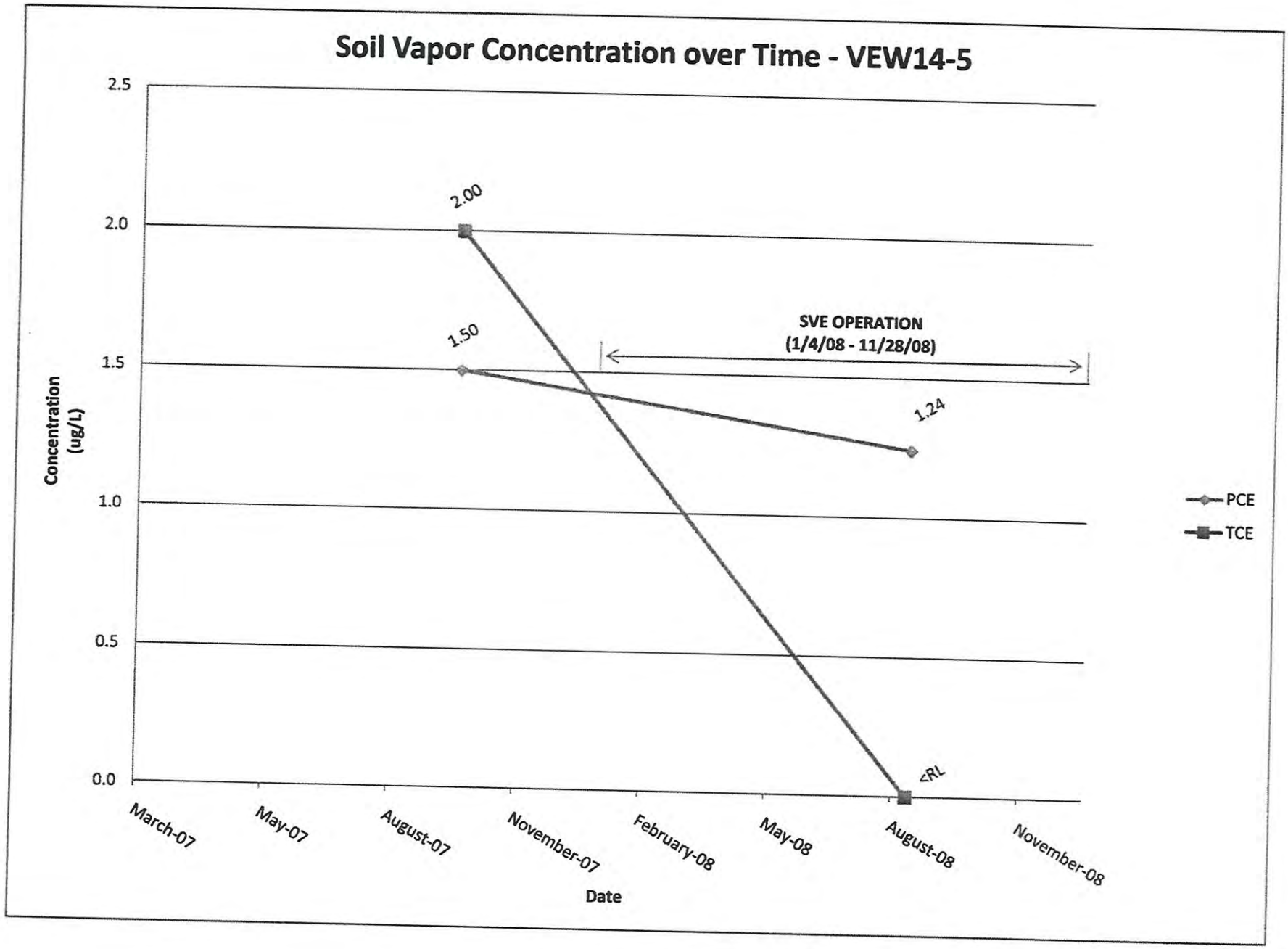

Soil Vapor Concentration over Time - VEW12-5
250
200
150
100
50
0
Concentration (ug/L)
190.20
190.80
64.00
30.00
21.41
18.31
<RL
<RL
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

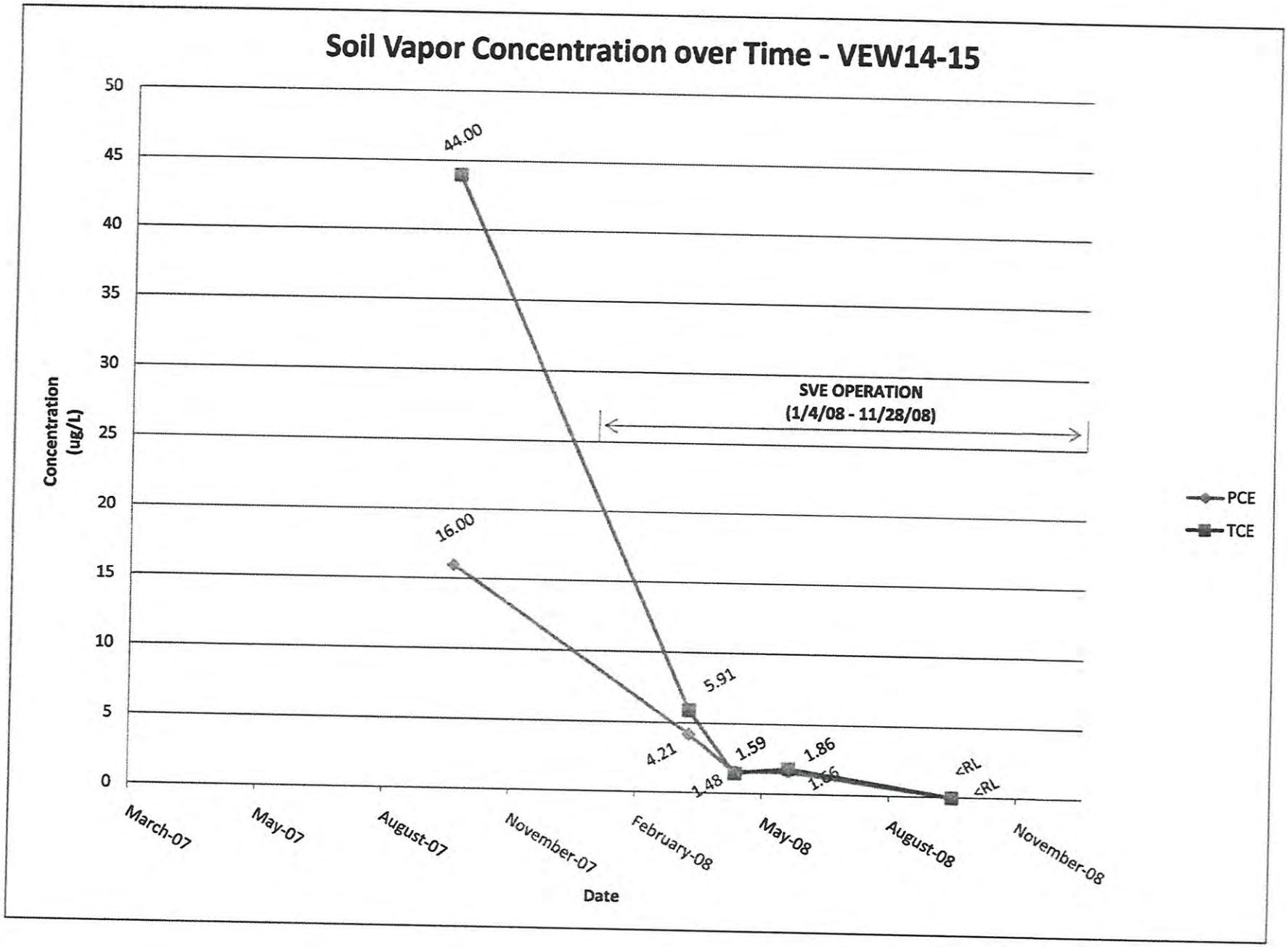

Soil Vapor Concentration over Time - VEW12-15
Concentration (ug/L)
9
8
7
6
5
4
3
2
1
0
8.20
3.10
<RL
<RL
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

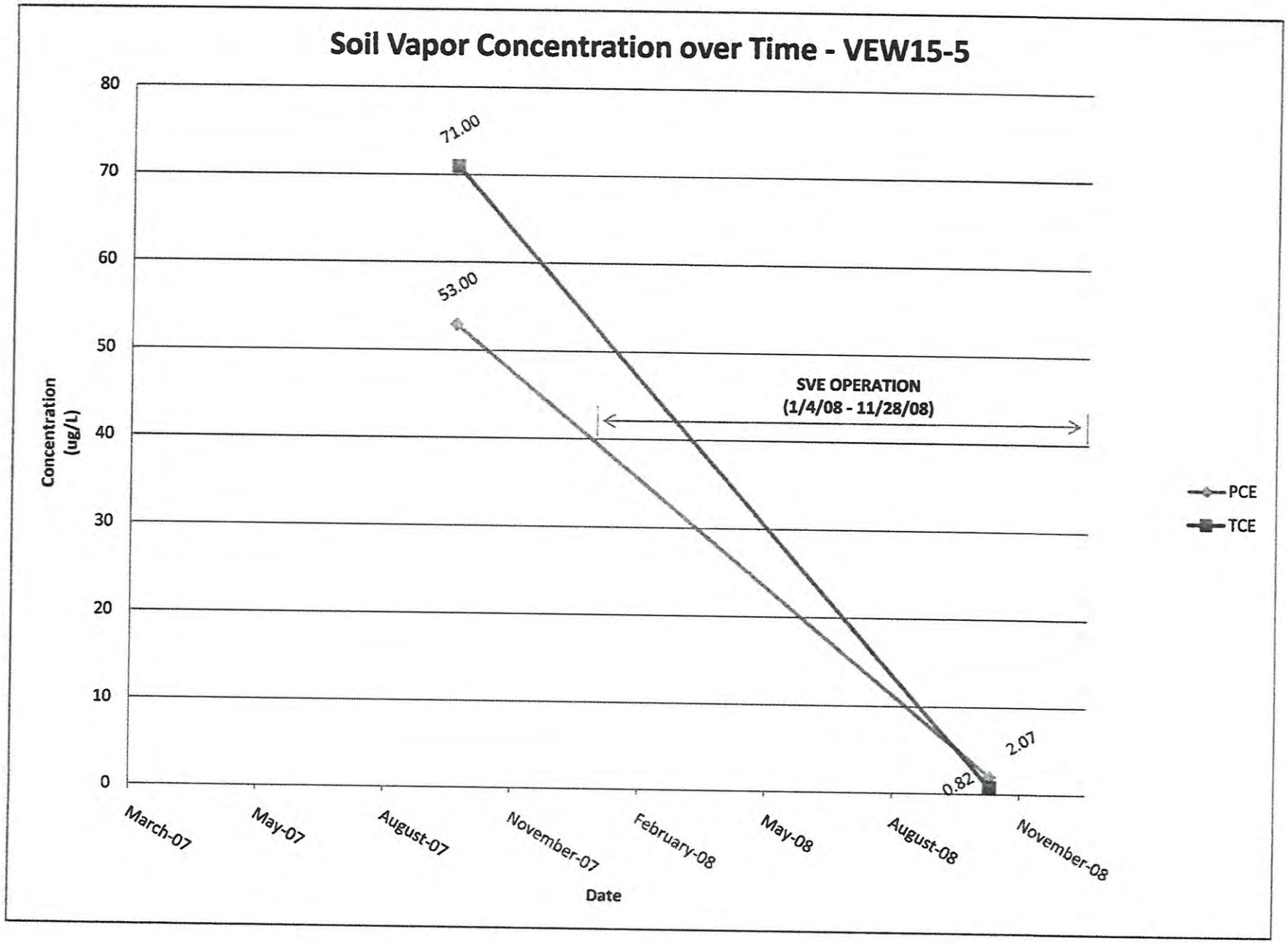

Soil Vapor Concentration over Time - VEW12-25
120
100
80
60
40
20
0
Concentration (ug/L)
110.00
56.00
1.97
2.69
3.56
1.80
SVE OPERATION
(1/4/08 - 11/28/08)
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE

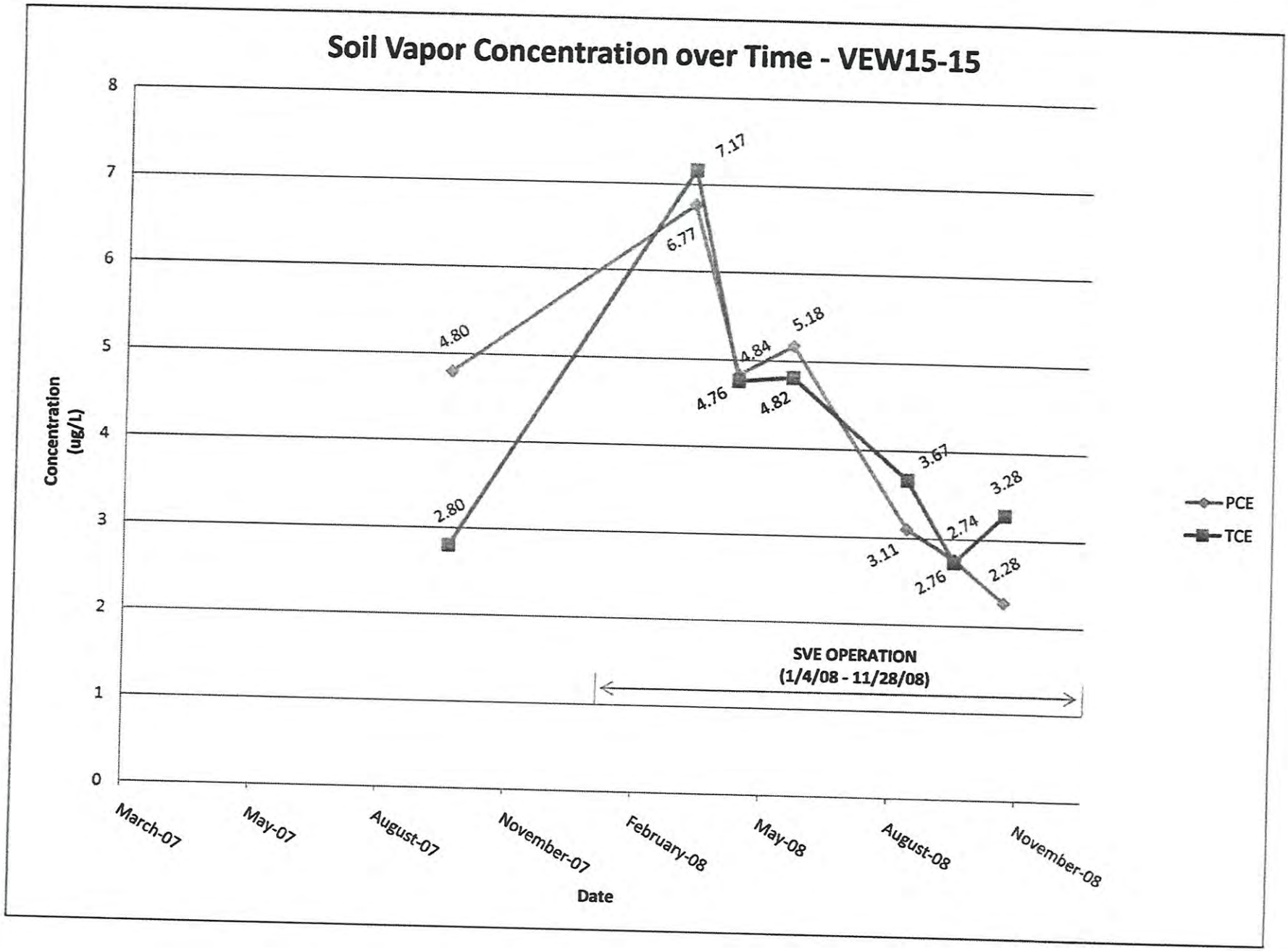

Soil Vapor Concentration over Time - VEW12-60
140
120
100
80
60
40
20
0
Concentration (ug/L)
117.65
43.00
19.00
10.00
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date

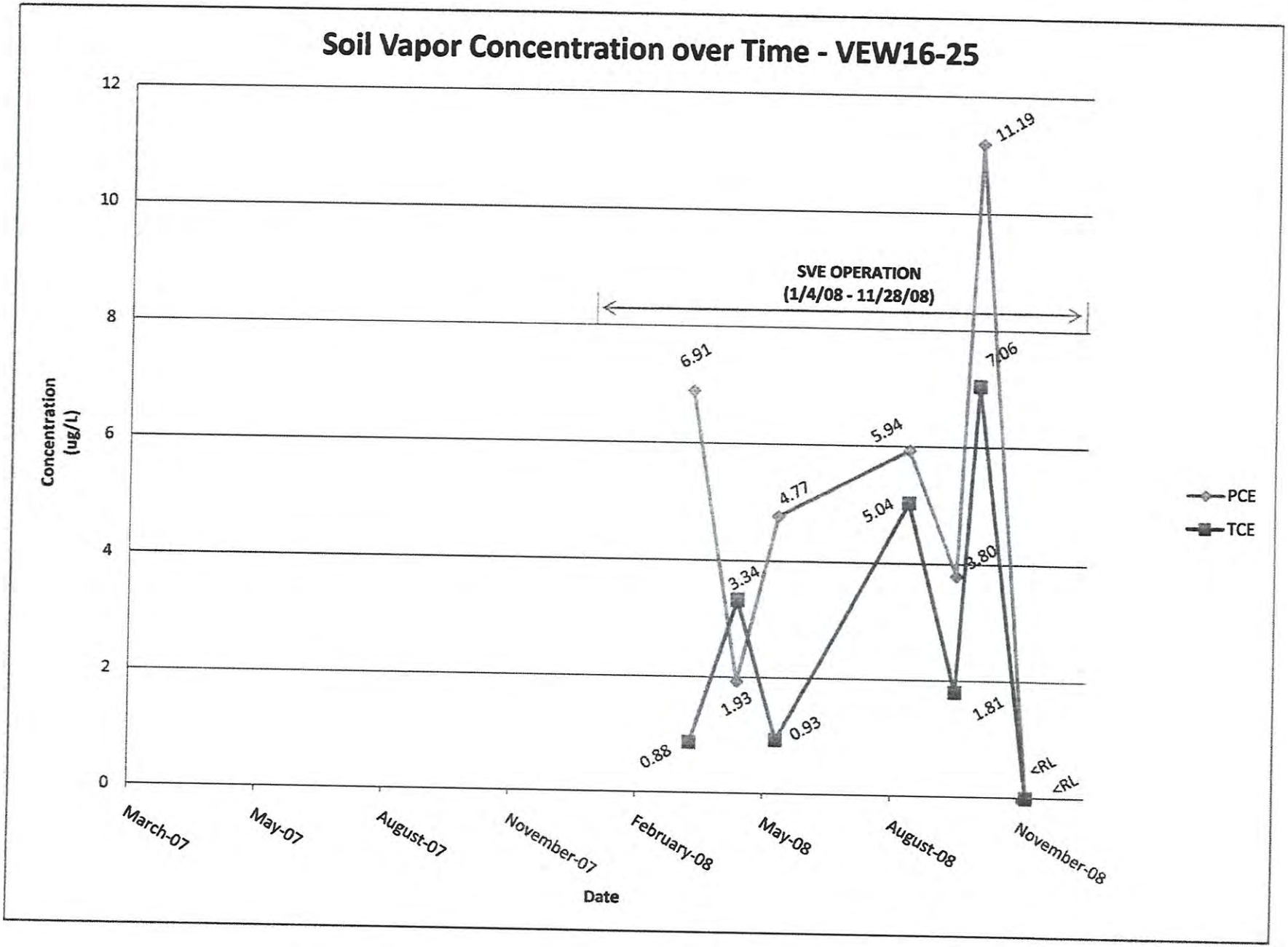

Soil Vapor Concentration over Time - VEW13-25
Concentration (ug/L)
35
30
25
20
15
10
5
0
SVE OPERATION
(1/4/08 - 11/28/08)
32.35
12.37
9.14
14.73
13.80
7.77
13.54
5.18
4.35
6.84
6.36
6.50
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date


Soil Vapor Concentration over Time - VEW14-5
2.5
2.0
1.5
1.0
0.5
0.0
Concentration (ug/L)
2.00
1.50
1.24
<RL
SVE OPERATION
(1/4/08 - 11/28/08)
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE


Soil Vapor Concentration over Time - VEW14-15
Concentration (ug/L)
50
45
40
35
30
25
20
15
10
5
0
SVE OPERATION
(1/4/08 - 11/28/08)
44.00
16.00
5.91
4.21
1.59
1.48
1.86
<RL
<RL
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE


Soil Vapor Concentration over Time - VEW15-5
80
70
60
50
40
30
20
10
0
Concentration (ug/L)
71.00
53.00
2.07
0.82
SVE OPERATION
(1/4/08 - 11/28/08)
PCE
TCE
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date


Soil Vapor Concentration over Time - VEW15-15
Concentration (ug/L)
8
7
6
5
4
3
2
1
0
7.17
6.77
4.80
5.18
4.84
4.76
4.82
3.67
3.28
2.80
2.74
3.11
2.76
2.28
SVE OPERATION
(1/4/08 - 11/28/08)
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE


Soil Vapor Concentration over Time - VEW16-25
12
10
8
6
4
2
0
Concentration (ug/L)
SVE OPERATION
(1/4/08 - 11/28/08)
6.91
1.93
4.77
3.34
0.88
5.94
5.04
0.93
3.80
1.81
11.19
7.06
<RL
<RL
March-07
May-07
August-07
November-07
February-08
May-08
August-08
November-08
Date
PCE
TCE

ATTACHMENT D

OCHCA CASE CLOSURE LETTER
DATED DECEMBER 15, 1995

COUNTY OF ORANGE

TOM URAM
DIRECTOR

HUGH F. STALLWORTH, M.D.
HEALTH OFFICER

ENVIRONMENTAL HEALTH DIVISION
ROBERT E. MERRYMAN, REHS, MPH
DEPUTY DIRECTOR

HEALTH CARE AGENCY
PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH DIVISION
2009 E. EDINGER AVENUE
SANTA ANA, CALIFORNIA 92705
(714) 667-3700

12/21
1/29

December 15, 1995

Carl Ross
Red Eagle Properties, Ltd.
2020 Lynx Trail
Ontario, CA 91761

Subject: **Case Closure**

Re: Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, CA 92631
O.C.H.C.A. Case # 94IC29

Dear Mr. Ross:

This letter confirms the completion of remedial action at the above referenced site. With the provision that the information provided to this Agency was accurate and representative of existing conditions, it is the position of this office that no further action is required at this time.

This confirmation of completion is limited in scope. It is limited to site conditions made known to this Agency under the above referenced case number. It is based on an evaluation of the health threat presented by the inhalation, ingestion, or dermal absorption of the residual contaminants. In addition, this evaluation considered the present and proposed use of the property. Changes in the present or proposed land use may require further site characterization and/or site mitigation activity.

The presence of chlorinated hydrocarbons and the potential for residual contamination present at this site to cause groundwater contamination had been made known to the Santa Ana Regional Water Quality Control Board. The Regional Board decided that no groundwater investigation will be required for this site at this time.

Please be advised that this letter does not relieve you of any liability under the California Health and Safety Code or Water Code for past, present or future operations at the site. Nor does it relieve you of the responsibility to clean up existing, additional or previously unidentified conditions at the site which cause or threaten to cause pollution or nuisance or otherwise pose a threat to water quality or public health. It is the property owner's responsibility to notify this Agency of any changes in future contamination findings or site usage.

If you have any questions regarding this matter, please contact Luis Lodrigueza at (714) 667-3717.

Very truly yours,

Karen L. Hodel, R.G.
Program Manager
Hazardous Materials Management Section
Environmental Health Division

KLH:WJD:LL:

cc: Robert Holub, Santa Ana Regional Water Quality Control Board
Henry Ames, Converse Consultants - Orange County

CASE CLOSURE REPORT

O.C.H.C.A. Case No.: 94IC29

December 14, 1995

D.B.A: Fullerton Business Park North
1551 E. Orangethorpe Avenue
Fullerton, CA 92631

R.P.: Carl Ross/Red Eagle Properties, Ltd.

Current Land Use: Light industrial/commercial
Adjacent Land Use: Commercial
Future Land Use: Light industrial/commercial

Highest Concentrations in Soil (mg/kg)

	Initial				Final				
Contaminants	15′	20′	25′	Other	15′	20′	25′	30′	PRGs (ppm)
TRPH	3,600	NT	12	12 (40′)	NT*	NT	NT	NT	---
PCE	84.5	96	92	17.5 (30′)	6.2	12.8	25.3	10.6	25
TCE	NT	NT	NT	0.42 (95′)	1.1	3.4	1.0	1.2	17
1,1,1 TCA	NT	NT	NT	0.007 (60′)	0.59	5.6	19.6	0.9	3,000
1,1 DCE	NT	NT	NT	0.16 (60′)	N.D.	3.1	0.89	N.D.	0.082

Deepest Remaining Contamination:

PCE	0.11 ppm	@ 60′ bgs
TCE	0.16 "	@ 105′ bgs
1,1 DCE	0.056 "	@ 105′ bgs
1,1,1 TCA	0.0068 "	@ 60′ bgs

*Not Tested

Soil Types: Interbedded sandy silt, silty sand and silty clay/clayey silt, the latter two predominating at 15′ to 20′ bgs

Depth To Groundwater: 115 ft bgs, measured

Case Summary & Closure Rationale

This property was acquired by Red Eagle Properties from Resolution Trust Corporation in May 1994 and was sold to a new owner, Elden County Affaire, a furniture manufacturer, in March 1995.

Two clarifiers, discovered during a 1992 site investigation , were removed in September 1994. These were located in the northeast section of the property, one each at the northern and southern sides of the existing warehouse. Soil samples collected from the excavations showed elevated TRPH and PCE levels in the southern clarifier area; no

contamination was detected in soil beneath the clarifier located north of the impacted area. That entire portion of the property is now paved with concrete.

Seven initial, followed by 9 other, soil geoprobes were advanced around the impacted area to define the vertical and lateral extent of contamination. Two other deep borings were also drilled with the intent of installing groundwater monitoring wells. Saturated conditions were encountered at a depth of 115' bgs, but the borings were not advanced to groundwater due to the presence of about 50 ft of soil column above the water table that had not been impacted by PCE---although TCE and DCE were detected in one borehole in alternating silt and clay lenses down to a depth of 105 ft bgs.

The most highly impacted horizon was at the depth of 15' to 25' bgs, and HCA evaluation of the excess lifetime cancer risk (ELCR) for PCE occurrence here indicated unacceptable risk levels. Remediation of the impacted soil was thus undertaken with a soil vapor extraction system which operated for about 3 months from August to November 1995. Pulsing was conducted in mid-November and VOC measurements showed no re-start spiking of contamination; instead, a further decline in VOC concentrations was observed during the first week of operation after the system shutdown.

Confirmation boring was therefore undertaken on December 1, 1995. Three boreholes were installed adjacent to each of the 3 original boreholes that showed the most badly impacted soil, and samples collected at depths that showed the highest levels of PCE. Laboratory analytical results showed that the remediation had significantly reduced soil PCE concentrations by as much as 99% at 15' bgs, 87% at 20' bgs and 84% at 25' bgs in the two most impacted locations. A third, relatively less contaminated spot showed an 11% decrease in PCE at 25' bgs.

In addition to PCE, the following were also detected in the soil column: TCE, DCE and TCA. The former owner's consultant, Converse Consultants-Orange County, however, felt that---in spite of these degradation products---residual VOC concentrations are at such low levels as to pose any significant health threat, and that no further action is needed at this time.

Re-evaluation of the health risk arising from this residual contamination using HCA's vapor diffusion model showed that the combined ELCR from the carcinogenic chemicals PCE, TCE and DCE is less than 1.0 E-06.

The SARWQCB, after meeting with Red Eagle representatives in November 1995, decided that Red Eagle did not discharge the PCE and other contaminants on to site; and that Red Eagle did not own the property during the time the discharges took place. In view of this, and the acknowledged undertaking by Red Eagle of diligent efforts to mitigate the soil impact by operating a soil vapor extraction system after determining

that past discharges had impacted the site, the SARWQCB withdrew its earlier request to Red Eagle to investigate groundwater (see SARWQCB letter to Red Eagle dated December 11, 1995). Furthermore, although the SARWQCB is unable "to absolve any current property owner of responsibility for any site investigation or cleanup, considering that the soil impacts at this site have been adequately mitigated, it is not considering issuing an order requiring a groundwater investigation at this time."

In light of the above discussion, it is recommended that this case be closed.

Luis Lodrigueza
Hazardous Waste Specialist
12/15/95

12/15/95

COUNTY OF ORANGE
HEALTH CARE AGENCY

PUBLIC HEALTH SERVICES
ENVIRONMENTAL HEALTH

DAVID L. RILEY
INTERIM DIRECTOR

DAVID M. SOULELES, MPH
DEPUTY AGENCY DIRECTOR

RICHARD SANCHEZ, REHS, MPH
DIRECTOR
ENVIRONMENTAL HEALTH

MAILING ADDRESS:
1241 E. DYER ROAD
SUITE 120
SANTA ANA, CA 92705-5611

TELEPHONE: (714) 433-6000
FAX: (714) 754-1732
E-MAIL: ehealth@ochca.com

Excellence
Integrity
Service

May 6, 2009

Dominick Baione
Universal Molding Company
9151 East Imperial Highway
Downey, CA 90240

Subject: **Verification Sampling Report and Request for Closure**

Re: Fullerton Business Park-North
1551 Orangethorpe Avenue
Fullerton, CA 92833
OCHCA Case #07IC015

Dear Mr. Baione:

Orange County Health Care Agency (OCHCA) Environmental Health has reviewed the subject report submitted by The Reynolds Group. The results of this recent shallow soil vapor sampling indicate that subslab solvent vapor concentrations beneath the northernmost storage area are elevated to the extent that the excess cancer risk from inhalation exposure to volatile chemicals, calculated in accordance with the Cal/EPA Department of Toxic Substances Control (DTSC) Vapor Intrusion Guidance Document – Appendix C (December 15, 2004, revised February 7, 2005), exceeds the allowable threshold of one in a million (1.0E-06), with a cumulative hazard index greater than 1.

The elevated vapor intrusion risk and hazard call for some form of mitigation with periodic monitoring and/or remediation through continued soil vapor extraction to reduce the entry of volatile chemicals into building air and/or reduce the subsurface contamination to health-protective levels. It is therefore requested that a mitigation/remediation work plan be submitted to OCHCA. Appropriate guidance is provided in the DTSC Vapor Intrusion Mitigation Advisory (April 2009), available at http://www.dtsc.ca.gov/SiteCleanup.

If you have any questions regarding this matter, please contact the undersigned at (714) 433-6253 or llodrigueza@ochca.com.

Sincerely,

Luis Lodrigueza
Hazardous Waste Specialist
Hazardous Materials Mitigation Section
Environmental Health Division

cc: Kamron Saremi, California Regional Water Quality Control Board- Santa Ana Region
Alejandro Fuan, The Reynolds Group, 520 West First Street, Tustin, CA 92780

Reference:
Reynolds, 2009c

October 20, 2009
(TRG No. 7115)

Mr. Luis Lodrigueza
ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
1241 E. Dyer Road Suite 120
Santa Ana, CA 92705-5611

THE REYNOLDS GROUP
a California corporation

SITE: **FULLERTON BUSINESS PARK NORTH**
(FORMER OCHCA #94IC29)
1551 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

SUBJECT: **REMEDIATION STATUS REPORT AND VERIFICATION SAMPLING WORKPLAN**

Dear Mr. Lodrigueza:

On behalf of Universal Molding Extrusion Company (the Client), The Reynolds Group (TRG) has been performing soil vapor extraction (SVE) remediation of chlorinated hydrocarbons, primarily tetrachloroethene (PCE) and trichloroethene (TCE), from subsurface soils at the subject Site (see Figure 1 – Site Location Map). Currently at the Site there are 14 double/triple-nested Vapor Extraction Wells (VEW), four Passive Wells (PW) and 11 Temporary Soil Vapor Probes (see Figure 2 – Site Plot Plan with Well and Soil Vapor Probe Locations). TRG operated the SVE system from start-up on January 4 through November 28, 2008, when the system was shut down for verification sampling, as detailed in TRG's "Soil Vapor Verification Sampling Report and Request for Closure", dated April 27, 2009. While many of the areas met clean standards, in a meeting on May 11, 2009, the Orange County Health Care Agency (OCHCA) required additional remediation in the northeastern end of the Site building.

At the direction of OCHCA, TRG restarted the system on May 13, 2009, to further remediate the shallow soils in the northeastern end of the Site building. The SVE system operated continuously, until recently shut-down again by TRG on October 1, 2009. PCE and TCE concentrations in the remediation area have decreased significantly to levels warranting closure consideration.

RECEIVED HCA
2009
ENVIRONMENTAL HLTH

Tel 714-730-5397
PO Box 1996, Tustin, California 92781-1996
www.reynolds-group.com
Fax 714-730-6476

This report provides a summary of the SVE operations and a workplan for verification sampling of soil remediation at the Site.

BACKGROUND

During removal of two clarifiers at the Site in 1994 by Converse Consultants, concentrations of PCE and other constituents were detected in soil samples. Converse concluded, following further investigation, that PCE impacted soils existed primarily within the top 35 feet of soils in an estimated area of 1,200 square feet. Converse further stated that groundwater beneath the Site, estimated at 115 ft bgs had not been impacted (Converse 1995). Soil vapor extraction was proposed by Converse to remediate the PCE impacted soils at the Site.

An SVE system operated at the Site from August to November 1995. Confirmation borings performed in December 1995 showed a decrease in PCE concentrations as follows: 99% at 15 ft bgs, 87% at 20 ft bgs, and 84% at 25 ft bgs. Based on those results, Converse recommended no further action at the Site to the Orange County Health Care Agency (OCHCA). In a Case Closure letter dated December 15, 1995, OCHCA confirmed completion of remedial action at the Site.

On April 11, 2005, the Orange County Water District (OCWD) filed a lawsuit naming several Potential Responsible Parties (PRPs), including the subject Site address, for contributing to a regional VOC-impacted groundwater plume in the vicinity of the Site.

Also in 2005, shallow soils at the Former Johnson Controls Battery property adjoining north of the subject Site at 1550 E. Kimberly Avenue, were discovered to be impacted with lead, arsenic, VOCs, and petroleum hydrocarbons (ref. JCI Fullerton Corrective Measures Completion Report, dated May 2007). Subsequent soil vapor extraction, soils excavation, and groundwater monitoring were performed at the Johnson Controls property. The DTSC determined that

corrective action had been completed at the property for shallow and deep soils in letters May 22 and September 20, 2007, respectively.

In early 2007, TRG was contracted as the Consultant for the Fullerton Business Park Site. TRG advanced 17 soil vapor probes at the Site in March 2007 and performed an environmental screening on behalf of our Client prior to purchasing the subject Site. PCE and TCE were detected at maximum soil vapor concentrations of 222.2 and 115.2 micrograms per liter (ug/L), respectively, from five ft bgs. The fieldwork and results were detailed in TRG's "Results of Soil Vapor Investigation" report, dated March 19, 2007.

On July 24, 2007, TRG submitted a "Request for Remedial Action Supervision" to the Orange County Health Care Agency (OCHCA) on behalf of our Client for review of the results, for providing proper oversight, and for eventual regulatory closure. TRG met with Luis Lodrigueza of OCHCA on July 24, 2007, to discuss the case and was directed to further assess the soil vapors immediately beneath the concrete slab at the Site.

On July 30, 2007, five additional soil vapor points were sampled. Maximum concentrations of 1,079.4 ug/L PCE and 710.8 ug/L TCE were detected during the investigation. Details of the work were provided in TRG's "Summary of Shallow Soil Vapor Survey and Interior Ceiling Heights" report, dated August 9, 2007. Based on the data, OCHCA determined that health risk at the Site ranges from 5.9E-0.5 to 7.9E-04. These values were considered orders of magnitude higher than the allowable risk of one in a million (1.0E-0.6). Based on the July 2007 vapor assessment, OCHCA requested further assessment in the warehouse to further define the lateral extent of chlorinated solvent impact and to provide a basis for remediation action.

In accordance with OCHCA, TRG installed and sampled 12 temporary soil vapor probes (SV23 through SV35), six vapor extraction wells (VEW3 through VEW 6, VEW9, and VEW12), and four passive wells (PMW1 through PMW4) from October 2007 through January 2008. On February 22, 2008, TRG conducted an additional vapor sampling event to determine the

effectiveness of the SVE system. TRG collected 14 soil vapor samples from eight temporary soil probes (SV26, SV27, SV29 through SV33 and VEW6). On February 25 and 27, 2008, TRG installed eight additional soil vapor extraction wells (VEW7, VEW8, VEW10, VEW11, and VEW13 through VEW16). The work was detailed in TRG's "Soil Vapor Survey and Additional Vapor Well Installation Report", dated March 14, 2008. Well and probe details are summarized in the attached Table 1 – Well Construction Detail Summary, and analytical results of the soil vapor sampling are provided in the attached Table 2 – Summary of Soil Vapor Survey Sampling Results.

SUMMARY OF SYSTEM OPERATION

On January 4, 2008, the SVE was initiated at the Site from wells VEW3 through VEW6, VEW9, and VEW12. In February 2008, wells VEW7, VEW8, VEW10, VEW11, and VEW13 through VEW16 were connected to the remediation system. The SVE system consisted of a 300 cfm blower and two 1,000 lbs carbon filters in series. The wells were connected to the SVE system through an above-ground system manifold and the system operated by extracting from a different series of wells on rotational basis, focusing on hot zones to optimize the extraction and maintain a good vacuum of influence.

After 11 months of soil vapor extraction at the Site, soil vapor PCE and TCE concentrations declined significantly at most locations beneath the Site building to asymptotic conditions. During that 11 month period, 49.5 lbs of PCE and 6.6 lbs of TCE were removed and treated.

In March, 2009, TRG performed verification sampling at the subject Site to confirm that 11 months of soil vapor extraction at the Site had successfully removed PCE and TCE in the subsurface soils to levels low enough for low risk closure consideration. Results of the verification sampling indicated that SVE had reduced PCE and TCE vapor concentrations significantly in shallow soils throughout most of the Site and, to a lesser degree, in soils at the northeastern end of the Site building, near the adjacent Former Johnson Controls Battery

property (Johnson Controls). Johnson Controls is known to have released chlorinated compounds (including PCE and TCE) into the subsurface.

The significant reduction in PCE and TCE in the shallow subsurface suggested that the Site building areas had remediated to low enough concentrations for commercial/industrial use low risk closure consideration. TRG, therefore, requested that OCHCA evaluate results of the March 2009 verification sampling for indoor human health risk analysis and case closure.

In a meeting on May 11, 2009, OCHCA directed additional remediation of shallow soils in the northeastern end of the building (remaining area of concern), as PCE concentrations in that area remained too high for low risk closure using OCHCA criteria (PCE up to 767 ug/L and TCE up to 107 ug/L). OCHCA stated in the May 2009 meeting that the remaining areas appeared acceptable for low risk closure.

On May 13, 2009, TRG restarted the SVE system, targeting the remaining area of concern by extracting from the wells located in that area (nested well VEW3 at 5, 15, and 25 ft bgs). Other than occasional down-time for general maintenance, TRG operated the system continuously since restart until it was recently turned-off on October 1, 2009. PCE and TCE concentrations in the remediation area have decreased significantly to levels warranting closure consideration (see Table 3- Summary of Operational Soil Vapor Sampling Results and Figure 4 – Inlet PCE & TCE Concentrations Over Time). A brief summary of SVE remediation is outlined below:

Date of SVE System Start:	January 4, 2008
Date of SVE System Restart:	May 13, 2009
Period Covered in this Summary:	May 13 through October 1, 2009
Total System Running Time Since 2008 Start-Up:	10,471.2 hrs
System Running Time This Period:	3,165.7 hrs (5/13/09 to 10/1/09)
Cumulative Pounds of PCE Removed Since 2008:	73.75 lbs (see Table 4 and Figure 3)
Pounds of PCE Removed This Period:	24.27 lbs (see Table 4 and Figure 3)
Cumulative Pounds of TCE Removed Since 2008:	7.45 lbs (see Table 4 and Figure 3)
Pounds of TCE Removed This Period:	0.88 lbs (see Table 4 and Figure 3)

Event	Date	Maximum Concentrations (ug/L)		Total Mass Removed (lbs)	
		PCE	TCE	PCE	TCE
Assessment	2007	4,200	711	--	--
SVE Remediation I	Jan. to Nov. 2008	208	34	49.5	6.6
Verification Sampling	Mar 2009	767	107	--	--
SVE Remediation II	May to Sep 2009	57	5.0	24.3	0.9

REMEDIATION STATUS

SVE remediation is this latest period (May 13 through October 1 2009) reduced subsurface PCE vapor concentrations in the remaining area of concern by 97.6% and TCE by 95.4% since the March 2009 verification event.

TRG believes that PCE and TCE concentrations in the subsurface have been remediated to low enough concentrations for low risk closure consideration and, thus, shut down the system on October 1, 2009. To ensure that residual concentrations in the remaining area of concern (northeastern end of the building), are within closure criteria, TRG proposes to perform another round of limited verification sampling at the Site. A proposed Workplan for verification sampling is detailed below.

WORKPLAN FOR CLEAN-UP VERIFICATION SAMPLING

TRG proposes to sample existing well VEW3 at 5, 15, and 25 ft bgs, and to install and sample two sub-slab soil vapor probes (SV36-B and SV37-B, adjacent to former probes SV36 and SV37) to verify cleanup of shallow subsurface soils in the remaining area of concern (see Figure 2 – Site Plot Plan with Proposed Verification Sampling Locations). The soil vapor survey will follow the February 7, 2005, updated DTSC "Interim Final – Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air" (the "DTSC Guidance").

Specifically, the Scope of Work will include the following:

1. Follow the Health and Safety Plan that is attached to this workplan.
2. Install sub-slab soil vapor probes SV36-B and SV37-B.
3. Collect shallow soil vapor samples in a syringe or clean summa canisters from well VEW3 and probes SV36-B and SV37-B.
4. Immediately following sample collection, analyze vapor samples by a state-certified mobile laboratory by EPA Method 8260 full scan for VOCs.
5. Prepare a report signed by a California Registered Civil Engineer detailing field activities and results for OCHCA to perform an indoor human health risk analysis and evaluate the Site for closure.

Temporary Sub-Slab Soil Vapor Probes

The temporary sub-slab soil vapor probes (SV36-B and SV37-B) will be advanced to one ft bgs beneath the building concrete slab in order to adequately assess soil vapor conditions at the Site, while minimizing above grade ambient air influences. The temporary vapor probe points will be advanced using a hand-held hammer drill with a disposable drive tip. Once the temporary vapor probes reach the appropriate depth, a Nylaflow sample tube will be advanced inside the drive rod to one ft bgs. The end of the Nylaflow tubing has a 1.5 inch long air stone filter which allows soil vapor to enter the tubing while limiting the possibility of water or soil intrusion. The top of the Nylaflow tube has a plastic valve to prevent ambient air intrusion. The Nylaflow tubing and valves will be sealed at the surface with hydrated bentonite.

After temporary vapor probe placement, a period of at least 20 minutes will be allowed to pass before sample collection. This equilibration time will allow subsurface conditions to equilibrate prior to purge volume testing, leak testing, and soil vapor sampling.

Sample Collection

Based on previous fieldwork at the Site, seven purge volumes produced the highest vapor sample concentrations and, thus, this purge volume will be applied to the verification sampling event.

Due to the large casing diameter, a 100 to 200 mL/min extraction rate from soil vapor extraction well VEW3 is not feasible and, therefore, as with previous sampling events, a 5 L/min extraction rate will be applied to that sample location.

Leak Testing

Leak testing will be conducted at every sample location. A tracer compound such as 1,1-difluoroethane will be released at the ambient ground surface and analyzed in the soil vapor sample. A detection of the tracer compound in the subsurface soil vapor sample will indicate that ambient air intrusion occurred.

Disposable Equipment and Decontamination Procedures

Non-reusable nylon sample tubing will be discarded between sample locations. After each use, drive rods and other re-usable components will be properly decontaminated by a 3-stage wash and rinse process including a non-phosphate detergent such as Liquinox and a final distilled water rinse. Clean, dry tubing will be used for sampling at all times.

Laboratory Analyses.

All soil vapor samples will be collected and analyzed in the field by a state certified mobile laboratory. Samples will be collected with glass syringes and analyzed on-Site by EPA Method 8260B full scan for VOCs. A detection limit of 0.1 ug/L as vapor for carcinogenic compounds (PCE and TCE) and 1.0 ug/L as vapor for non-carcinogenic compounds will be used, as specified in the *DTSC Guidance.*

Waste Disposal

Any field generated wastes will be properly disposed in accordance with federal, state and local requirements. TRG, however, does not anticipate any wastes to be generated from this work.

Report on the Work

The results of the verification sampling fieldwork and analytical results will be put into a report signed by a California Registered Civil Engineer that incorporates all of the requirements of your agency. TRG requests that OCHCA evaluate the results for indoor human health risk analysis and closure consideration.

Health and Safety Plan

All staff and third parties who will be near or around the project will be required to sign the health and safety plan that has been prepared and is attached in Appendix D.

REGISTERED PROFESSIONAL STATEMENT

All work on this project is being performed under the responsible charge of a California Registered Civil Engineer. The licensed professional whose wet ink signature and seal appears at the end of this report will supervise all work associated with the project.

CORRESPONDENCE CONCERNING THIS PROJECT:

Please be sure that your mailing list includes The Reynolds Group and:

Dominique Baione
UNIVERSAL MOLDING EXTRUSION COMPANY
9151 East Imperial Highway
Downey, CA 90242

and

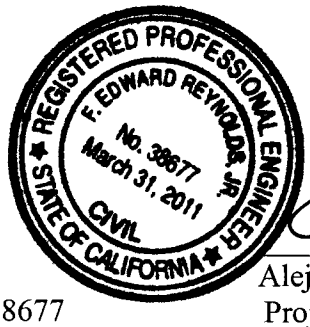
James R. McFadden
GRUBB & ELLIS
500 North State College Suite 100
Orange, CA 92868

and

John C. Glaser
GLASER, TONSICH & ASSOCIATES, LLC
765 West 9th Street
San Pedro, CA 90731

Should you have any questions regarding this report, please do not hesitate to contact our Project Manager for this Site, Alejandro Fuan, at (714) 920-9312 (cell) or via e-mail to fuan@reynolds-group.com . Thank you for your oversight of this work.

Sincerely,
THE REYNOLDS GROUP
a California corporation by:



F. Edward Reynolds, Jr.
California Registered Civil Engineer #38677

Alejandro Fuan
Project Manager

Attachments:

Table 1 –	Well Construction Detail Summary
Table 2 –	Summary of Soil Vapor Survey Sampling Results
Table 3 –	Summary of Operational Soil Vapor Sampling Results
Table 4 –	Summary of Operational Data and Mass Removal
Figure 1 –	Site Location Map
Figure 2 –	Site Plot Plan with Existing Probes & Soil Vapor Wells & Proposed Probes

Figure 3 –	Cumulative PCE & TCE Removed over Time
Figure 4 –	Inlet PCE & TCE Concentration over Time
Figure 5 –	Site Plot Plan with Pre-Remediation PCE Vapor Contours at 1 and 5 ft bgs.
Appendix A	Laboratory Analytical Results
Appendix B	System Operation Field Notes
Appendix C	Graph of Soil Vapor Concentrations over Time (VEW3)
Appendix D	Health and Safety Plan

cc: Dominick Baione, **UNIVERSAL MOLDING EXTRUSION COMPANY**
James McFadden, **GRUBB & ELLIS**
John C. Glaser, **GLASER, TONSICH & ASSOCIATES, LLC**

TABLES

TABLE 1
WELL CONSTRUCTION DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
VEW3	VEW3-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW3-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW3-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW4	VEW4-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW4-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW4-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW5	VEW5-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW5-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW5-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW5-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft
VEW6	VEW6-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW6-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW6-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW7	VEW7-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW7-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW8	VEW8-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW8-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW9	VEW9-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW9-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW9-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW10	VEW10-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW10-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW11	VEW11-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW11-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW11-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW12	VEW12-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW12-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW12-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW12-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft

TABLE 1 (Continued)
WELL CONSTRUCTION DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
VEW13	VEW13-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW13-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW13-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW14	VEW14-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW14-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW15	VEW15-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW15-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW16	VEW16-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW16-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW16-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
PMW1	PMW1-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW1-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW1-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW1-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW2	PMW2-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW2-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW2-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW2-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW3	PMW3-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW3-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW3-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW3-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW4	PMW4-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW4-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW4-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW4-60	Nylaflow tubing	1/4"	60 ft	60 ft
SV23	SV23-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV23-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV24	SV24-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV24-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV25	SV25-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV25-15	Nylaflow tubing	1/4"	15 ft	15 ft

TABLE 1 (Continued)
WELL CONSTRUCTION DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
SV26	SV26-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV26-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV27	SV27-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV27-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV28	SV28-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV28-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV29	SV29-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV29-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV30	SV30-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV30-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV31	SV31-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV31-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV32	SV32-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV32-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV33	SV33-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV33-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV34	SV34-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV34-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV35	SV35-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV35-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV36	SV36-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV37	SV37-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV38	SV38-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV39	SV39-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV40	SV40-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV41	SV41-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV42	SV42-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV43	SV43-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV44	SV44-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV44-15	Nylaflow tubing	1/4"	15 ft	15 ft
	SV44-25	Nylaflow tubing	1/4"	25 ft	25 ft

TABLE 2
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV1-5	3/9/2007	OS	69.9	17.4
SV1-5 Dil.	3/9/2007	78.8	70.7	18.2
SV2-5	3/9/2007	15.3	11	3.2
SV3-5	3/9/2007	36.4	38.6	25.3
SV4-5	3/9/2007	39.2	24.2	9.1
SV5-5	3/9/2007	35.3	58.2	40.4
SV6-5	3/9/2007	80.3	115.2	65.3
SV7-5	3/9/2007	99.6	101.7	78.3
SV8-5	3/9/2007	7.2	22.6	17.7
SV9-5	3/9/2007	53.7	11.6	6
SV10-5	3/9/2007	222.2	88.8	79.7
SV11-5	3/9/2007	34.9	1.9	<1
SV11-5 Dup	3/9/2007	32	1.8	<1
SV12-5	3/9/2007	72.8	50.4	63.6
SV13-5	3/9/2007	7.4	16.3	7.4
SV14-5	3/9/2007	50.1	98.7	78.2
SV15-5	3/9/2007	1.4	<1	54.4
SV16-5	3/9/2007	<1	<1	<1
SV17-5	3/9/2007	<1	<1	<1
SV18-5	7/30/2007	163.5	120.2	64.3
SV19-5	7/30/2007	190.8	190.2	239.9
SV20-5	7/30/2007	164.5	99.3	66.2
SV21-5	7/30/2007	<1	<1	<1
SV22-5	7/30/2007	1,079.40	710.8	257.6
SV22-5 Dup	7/30/2007	984.8	684.9	232.8
SV23-5	7/30/2007	72.1	80.4	79.8
SV24-5	2/18/2008	REFUSAL		
SV24-15	10/16/2007	120	32	30
SV24-15	2/18/2008	REFUSAL		
SV25-5	10/16/2007	110	48	100
SV25-5	2/18/2008	REFUSAL		
SV25-5	3/2/2009	0.338	<0.02	<0.02
SV25-15	10/16/2007	180	100	250
SV25-15	2/18/2008	REFUSAL		
SV25-15	3/2/2009	1.11	<0.02	<0.02
SV26-5	2/18/2008	REFUSAL		
SV26-15	10/16/2007	11	2	14
SV26-15	2/18/2008	2.2	1.1	

TABLE 2 (Continued)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter – ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV27-5	10/16/2007	66	50	88
SV27-5	2/18/2008	5.1	3.1	<1
SV27-5 (1P)	3/2/2009	0.816	0.096	<0.02
SV27-5 (3P)	3/2/2009	0.745	0.132	<0.02
SV27-5 (7P)	3/2/2009	0.678	0.108	<0.02
SV27-15	10/16/2007	74	68	140
SV27-15	2/18/2008	10	2.5	<1
SV27-15 (1P)	3/2/2009	0.756	0.050	<0.02
SV27-15 (3P)	3/2/2009	0.940	0.063	<0.02
SV27-15 (7P)	3/2/2009	0.679	0.050	<0.02
SV28-5	10/16/2007	1.4	0.4	<0.5
SV29-5	10/16/2007	22	5.4	0.9
SV29-5 Dup	10/16/2007	23	5.2	0.8
SV29-5	2/18/2008	9.6	1.6	<1
SV29-15	10/16/2007	21	6.3	1
SV29-15	2/18/2009	13.3	2.9	<1
SV30-5	10/16/2007	53	71	61
SV30-5	2/18/2008	14.4	15.7	<1
SV30-5	3/2/2009	2.62	1.80	0.684
SV30-15	10/16/2007	4.8	2.8	0.5
SV30-15	2/18/2008	21.7	15.7	6.5
SV30-15	3/2/2009	6.35	5.39	1.08
SV30-15 (Dup)	3/2/2009	6.22	4.75	0.962
SV31-5	10/16/2007	1.5	2	0.6
SV31-5	2/18/2008	REFUSAL		
SV31-5	3/2/2009	<0.02	0.421	<0.02
SV31-15	10/16/2007	16	44	53
SV31-15 Dup	10/16/2007	13	41	53
SV31-15	2/18/2008	11.9	23.4	9
SV31-15	3/2/2009	0.068	0.029	<0.02
SV32-5	10/16/2007	11	38	73
SV32-5	2/18/2008	2	7.2	<1
SV32-5	3/2/2009	0.132	<0.02	<0.02
SV32-15	10/16/2007	11	32	49
SV32-15	2/18/2008	2.3	10.5	9.4
SV32-15 Dup	2/18/2008	2.3	12.4	10.3
SV32-15	3/2/2009	<0.02	<0.02	0.02

TABLE 2 (Continued)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV33-5	10/16/2007	25	47	55
SV33-5	2/18/2008	1	<1	<1
SV33-5	3/2/2009	<0.02	<0.02	<0.02
SV33-15	10/16/2007	54	90	140
SV33-15	2/18/2008	6.7	15.9	<1
SV33-15	3/2/2009	<0.02	<0.02	<0.02
SV34-5	3/2/2009	0.276	0.064	<0.02
SV34-15	10/16/2007	92	110	460
SV34-15	10/16/2007	93	72	140
SV34-15	3/2/2009	2.68	<0.02	0.24
SV35-5	3/2/2009	0.198	<0.02	<0.02
SV35-15	3/2/2009	0.156	<0.02	<0.02
SV36	3/2/2009	26.7	20.7	0.433
SV37 (1P)	3/2/2009	2.36	4.77	2.71
SV37 (3P)	3/2/2009	2.59	5.20	3.04
SV37 (7P)	3/2/2009	2.21	4.62	2.74
SV38	3/2/2009	<0.02	<0.02	<0.02
SV39	3/2/2009	0.307	0.547	1.16
SV39 (Dup)	3/2/2009	0.329	0.564	1.18
SV40	3/2/2009	0.103	0.100	<0.02
SV41	3/2/2009	0.081	<0.02	<0.02
SV42	3/2/2009	1.10	0.200	<0.02
SV43	3/2/2009	4.66	0.027	<0.02
SV44-5	3/2/2009	0.428	0.05	<0.02
SV44-15	3/2/2009	1.11	0.118	<0.02
SV44-25	3/2/2009	25.5	7.71	0.787
SV44-25 (Dup)	3/2/2009	17.3	6.40	0.626
VEW3-5	10/25/2007	24	29	6.6
VEW3-15	10/25/2007	240	140	74
VEW3-15	3/2/2009	196	8.82	<0.02
VEW3-25	10/25/2007	210	120	83
VEW3-25	3/2/2009	767	107	21.5
VEW4-5	11/14/2007	21	17	1.7
VEW4-15	11/14/2007	380	150	86
VEW4-15 Dup	11/14/2007	360	140	73
VEW4-25	11/14/2007	470	180	160
VEW4-25	3/2/2009	2.77	0.149	0.283

TABLE 2 (Continued)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW5-5	10/25/2007	23	13	3.8
VEW5-5	10/30/2007	12	8.2	3.1
VEW5-15	10/25/2007	19	14	6
VEW5-15	10/30/2007	19	13	7.8
VEW5-15	3/2/2009	0.429	0.024	<0.02
VEW5-25	10/25/2007	12	8.7	13
VEW5-25 (Dup)	10/25/2007	4.2	3.2	4.9
VEW5-25	10/30/2007	16	17	11
VEW5-25	3/2/2009	0.267	<0.02	<0.02
VEW5-25 (Dup)	3/2/2009	0.303	<0.02	<0.02
VEW5-60	10/25/2007	170	550	170
VEW5-60	10/30/2007	140	570	150
VEW6-5	11/14/2007	3.7	3.1	<0.5
VEW6-5	2/18/2008	7.3	14.6	<1
VEW6-15	11/14/2007	110	110	17
VEW6-15	2/18/2008	8.2	12.4	<1
VEW6-15	3/2/2009	20.1	1.71	0.268
VEW6-25	10/30/2007	8.5	9.1	2.5
VEW6-25	11/14/2007	320	370	250
VEW6-25	3/2/2009	8.15	5.60	7.72
VEW8-15	3/2/2009	2.50	0.294	<0.02
VEW8-15 (Dup)	3/2/2009	2.27		
VEW9-5	10/25/2007	39	43	42
VEW9-15	10/25/2007	89	130	170
VEW9-15	3/2/2009	1.58	2.08	1.99
VEW9-25	10/25/2007	64	69	61
VEW9-25	3/2/2009	<0.02	<0.02	<0.02
VEW11-15	3/2/2009	8.33	0.685	<0.02
VEW11-25	3/2/2009	0.984	3.01	<0.02
VEW12-5	10/25/2007	30	64	120
VEW12-15	10/25/2007	3.1	8.2	9.8
VEW12-15	3/2/2009	0.184	<0.02	<0.02
VEW12-25	10/25/2007	56	110	210
VEW12-25	3/2/2009	0.918	4.94	852
VEW12-60	10/25/2007	10	43	9
VEW13-15	3/2/2009	6.08	0.760	<0.02
VEW16-15	3/2/2009	20.5	26.9	13.7
VEW16-25	3/2/2009	20.6	36.8	12.9

TABLE 2 (Continued)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
PW1-5	11/14/2007	31	6.1	1.1
PW1-5	3/2/2009	<0.02	<0.02	<0.02
PW1-15	11/14/2007	21	1.5	<0.5
PW1-15	3/2/2009	0.168	<0.02	<0.02
PW1-25	11/14/2007	4,200	140	55
PW1-25	3/2/2009	38.8	4.07	1.47
PW1-60	11/14/2007	70	220	39
PW2-5	12/18/2007	2	8.9	2.5
PW2-5 Dup	12/18/2007	1.5	7.2	2.5
PW2-15	12/17/2007	1.5	7.4	3.1
PW2-15	12/18/2007	6.2	12	6.2
PW2-25	12/18/2007	37	19	20
PW2-60	12/10/2007	75	370	100
PW2-60	12/18/2007	75	370	100
PW3-5	12/10/2007	3.8	1.7	0.6
PW3-5 Dup	12/10/2007	4.3	1.7	0.7
PW3-15	12/10/2007	1.4	1	1.9
PW3-25	12/10/2007	17	2.2	1.6
PW3-60	12/10/2007	<0.1	<0.1	<0.5
PW4-5	12/18/2007	3.8	1.7	0.6
PW4-5 Dup	12/18/2007	4.3	1.7	0.7
PW4-15	12/18/2007	1.4	1	1.9
PW4-25	12/18/2007	17	2.2	1.6
PW4-60	12/18/2007	<0.1	<0.1	<0.5

TABLE 3

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW3-5	2/14/08	10.73	2.23	1.26
	10/31/08	5.45	0.30	<0.05
	5/13/09	3.49	0.49	<0.05
	6/109	3.21	0.24	<0.05
	6/29/09	1.88	<0.05	<0.05
	9/8/09	0.18	<0.05	<0.05
VEW3-15	2/14/08	69.83	18.04	18.40
	11/10/08	11.13	2.57	1.66
	5/13/09	21.02	2.33	3.20
	6/1/09	14.76	4.09	4.36
	6/29/09	6.07	2.27	<0.05
	8/4/09	2.94	<0.05	<0.05
	9/8/09	2.22	<0.05	<0.05
VEW3-25	8/4/08	10.24	1.53	1.74
	11/10/08	9.06	2.98	3.56
	5/13/09	37.76	8.2	8.87
	6/1/09	29.08	8.75	7.95
	6/29/09	19.77	6.74	<0.05
	8/4/09	15.13	1.77	2.03
	9/8/09	7.66	0.98	1.79
VEW4-5	2/14/08	0.74	<1	<1
VEW4-15	2/14/08	2.35	<1	<1
	11/19/08	0.38	<0.05	<0.05
VEW4-25	8/4/08	2.47	0.26	<0.05
	11/10/08	0.72	0.09	<0.05
VEW5-5	2/14/08	<1	<1	<1
VEW5-15	2/14/08	<1	<1	<1
VEW5-25	8/4/08	0.19	<0.05	<0.05
	10/21/08	0.23	<0.05	<0.05
VEW5-60	11/10/08	3.81	27.75	17.72
VEW6-5	2/14/08	0.74	<1	<1
VEW6-15	2/14/08	2.21	2.79	2.52
	11/10/08	0.48	0.12	<0.05
VEW6-25	8/4/08	2.10	0.22	<0.05
	11/10/08	0.14	0.25	<0.05
VEW7-15	4/2/08	3.74	2.95	0.82
	5/5/08	2.65	0.62	<0.01
	6/12/08	2.04	0.20	<0.01
	9/2/08	0.10	0.38	<0.05
	10/6/08	0.21	<0.05	<0.05

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW8-15	4/2/08	2.02	2.44	0.99
	5/5/08	2.69	0.87	<0.01
	6/12/08	4.40	0.81	<0.01
	9/2/08	0.25	1.79	<0.05
	10/6/08	2.03	0.21	<0.05
	11/19/08	0.43	<0.05	<0.05
VEW9-5	2/14/08	<1	<1	<1
VEW9-15	2/14/08	0.88	1.86	1.26
	11/10/08	0.80	0.10	<0.05
VEW9-25	8/4/08	0.15	<0.05	<0.05
VEW10-5	11/4/08	<0.05	<0.05	<0.05
VEW10-15	4/2/08	0.22	<0.01	<0.01
	5/5/08	<0.01	<0.01	<0.01
	6/12/08	<0.01	<0.01	<0.01
	8/4/08	<0.05	<0.05	<0.05
VEW11-15	11/10/08	<0.05	<0.05	<0.05
VEW11-25	4/2/08	0.14	0.56	<0.01
	5/5/08	<0.01	0.32	<0.01
	6/12/08	<0.01	<0.01	<0.01
	9/2/08	0.17	0.25	<0.05
VEW12-5	2/14/08	2.65	3.91	1.51
	11/4/08	<0.05	<0.05	<0.05
VEW12-15	2/14/08	<1	<1	<1
VEW12-25	8/4/08	0.39	0.36	<0.05
VEW12-60	11/10/08	2.75	21.49	10.1
VEW13-5	11/4/08	<0.05	<0.05	<0.05
VEW13-25	4/2/08	1.96	5.91	2.75
	5/5/08	0.75	2.26	1.65
	6/12/08	0.63	1.67	0.95
	9/2/08	0.99	2.69	1.26
VEW14-5	9/2/08	0.18	<0.05	<0.05
VEW14-15	4/2/08	0.61	1.08	<0.01
	5/5/08	0.23	0.27	<0.01
	6/12/08	0.24	0.34	<0.01
VEW15-15	4/2/08	0.98	1.31	<0.01
	5/5/08	0.70	0.87	<0.01
	6/12/08	0.75	0.88	<0.01
	9/2/08	0.45	0.67	<0.05
	11/10/08	0.33	0.60	<0.05
VEW16-15	11/10/08	0.77	0.59	<0.05

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW16-25	4/2/08	1.00	0.16	<0.01
	5/5/08	0.28	0.61	<0.01
	6/2/08	0.69	0.17	<0.01
	9/2/08	0.86	0.92	<0.05
	10/21/08	1.62	1.29	<0.05
Inlet	1/4/08	18.23	10.42	15.12
	1/11/08	10.14	3.16	1.51
	1/17/08	8.38	1.86	<1
	1/21/08	6.32	1.30	<1
	1/30/08	5.29	1.49	<1
	2/5/08	3.09	<1	<1
	2/14/08	2.94	0.93	<1
	3/7/08	0.91	1.13	0.76
	3/11/08	0.65	1.09	0.69
	3/20/08	0.65	0.97	<0.01
	3/27/08	0.36	0.38	<0.01
	4/2/08	0.91	1.54	0.55
	4/10/08	0.96	0.88	<0.01
	4/15/08	0.92	0.39	<0.01
	4/25/08	1.15	0.67	<0.01
	5/5/08	1.14	0.27	<0.01
	5/14/08	0.92	0.22	<0.01
	5/19/08	0.81	0.45	<0.01
	5/27/08	0.98	0.31	<0.01
	6/2/08	1.41	0.73	<0.01
	6/12/08	1.10	0.28	<0.01
	6/19/08	0.88	0.38	<0.01
	6/23/08	0.76	<0.01	<0.01
	7/8/08	0.72	<0.01	<0.01
	7/17/08	0.36	<0.05	<0.05
	8/4/08	0.49	<0.05	<0.05
	8/11/08	1.75	0.47	<0.05
	8/18/08	0.14	<0.05	<0.05
	8/25/08	0.47	<0.05	<0.05
	9/2/08	0.72	0.46	<0.05
	9/11/08	0.91	<0.05	<0.05
	9/19/08	0.11	<0.05	<0.05
	9/23/08	0.28	<0.05	<0.05
	9/30/08	1.12	0.56	<0.05
	10/6/08	0.86	0.41	<0.05
	10/13/08	0.27	0.19	<0.05
	10/15/08	1.16	<0.05	<0.05
	10/21/08	0.57	0.86	<0.05

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Inlet (cont'd)	10/31/08	1.87	0.30	<0.05
	11/4/08	<0.05	<0.05	<0.05
	11/10/08	0.15	0.26	<0.05
	11/19/08	0.40	<0.05	<0.05
	5/13/09	3.45	0.5	<0.05
	5/27/09	4.53	0.32	<0.05
	6/1/09	2.63	0.26	<0.05
	6/9/09	1.94	0.22	<0.05
	6/15/09	2.78	0.26	<0.05
	6/22/09	2.61	0.23	<0.05
	7/9/09	2.72	0.22	<0.05
	7/15/09	3.11	<0.05	<0.05
	7/21/09	2.76	<0.05	<0.05
	7/28/09	4.18	1.53	1.67
	8/4/09	2.31	0.25	<0.05
	8/11/09	4.37	0.39	<0.05
	8/28/09	1.05	<0.05	<0.05
	9/8/09	0.83	<0.05	<0.05
	9/17/09	0.64	<0.05	<0.05
	9/24/09	1.26	<0.05	<0.05
	10/1/09	0.82	<0.05	<0.5
Outlet	1/4/08	<1	<1	<1
	1/11/08	<1	<1	<1
	1/17/08	<1	0.93	<1
	1/21/08	<1	<1	<1
	1/30/08	<1	<1	<1
	2/5/08	<1	<1	<1
	2/14/08	<1	<1	<1
	3/7/08	0.51	0.98	1.11
	3/11/08	<1	<1	0.51
	3/20/08	<0.01	<0.01	<0.01
	3/27/08	<0.01	<0.01	<0.01
	4/2/08	<0.01	<0.01	<0.01
	4/10/08	<0.01	<0.01	<0.01
	4/15/08	<0.01	<0.01	<0.01
	4/25/08	<0.01	<0.01	<0.01
	5/5/08	<0.01	<0.01	<0.01
	5/14/08	<0.01	<0.01	<0.01
	5/19/08	<0.01	<0.01	<0.01
	5/27/08	<0.01	<0.01	<0.01
	6/2/08	<0.01	<0.01	<0.01
	6/12/08	<0.01	<0.01	<0.01
	6/19/08	<0.01	<0.01	<0.01
	6/23/08	<0.01	<0.01	<0.01

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Outlet (cont'd)	7/8/08	<0.01	<0.01	<0.01
	7/17/08	<0.05	<0.05	<0.05
	8/4/08	<0.05	<0.05	<0.05
	8/11/08	<0.05	<0.05	<0.05
	8/18/08	<0.05	<0.05	<0.05
	8/25/08	<0.05	<0.05	<0.05
	9/2/08	<0.05	<0.05	<0.05
	9/11/08	<0.05	<0.05	<0.05
	9/19/08	<0.05	<0.05	<0.05
	9/23/08	<0.05	<0.05	<0.05
	9/30/08	<0.05	<0.05	<0.05
	10/6/08	0.34	<0.05	<0.05
	10/13/08	<0.05	<0.05	<0.05
	10/15/08	<0.05	<0.05	<0.05
	10/21/08	<0.05	<0.05	<0.05
	10/31/08	<0.05	<0.05	<0.05
	11/4/08	<0.05	<0.05	<0.05
	11/10/08	<0.05	<0.05	<0.05
	11/19/08	<0.05	<0.05	<0.05
	5/13/09	<0.05	<0.05	<0.05
	5/27/09	<0.05	<0.05	<0.05
	6/1/09	<0.05	<0.05	<0.05
	6/9/09	<0.05	<0.05	<0.05
	6/15/09	<0.05	<0.05	<0.05
	6/22/09	<0.05	<0.05	<0.05
	7/9/09	<0.05	<0.05	<0.05
	7/15/09	<0.05	<0.05	<0.05
	7/21/09	<0.05	<0.05	<0.05
	7/28/09	<0.05	<0.05	<0.05
	8/4/09	<0.05	<0.05	<0.05
	8/11/09	<0.05	<0.05	<0.05
	8/28/09	<0.05	<0.05	<0.05
	9/8/09	<0.05	<0.05	<0.05
	9/17/09	<0.05	<0.05	<0.05
	9/24/09	<0.05	<0.05	<0.05
Mid (cont'd)	1/4/08	14.55	10.23	14.87
	1/11/08	Not sampled.		
	1/17/08	<1	<1	<1
	1/21/08	Not sampled.		
	1/30/08	<1	<1	<1
	2/5/08	<1	<1	<1
	2/14/08	<1	<1	<1
	3/7/08	<1	<1	1.44

TABLE 3 (CONTINUED)

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Mid (cont'd)	3/11/08	<1	<1	0.98
	3/20/08	<0.01	<0.01	<0.01
	3/27/08	<0.01	<0.01	<0.01
	4/2/08	<0.01	<0.01	0.69
	4/10/08	<0.01	<0.01	<0.01
	4/15/08	<0.01	<0.01	<0.01
	4/25/08	<0.01	<0.01	<0.01
	5/5/08	<0.01	<0.01	<0.01
	5/14/08	<0.01	<0.01	<0.01
	5/19/08	<0.01	<0.01	<0.01
	5/27/08	<0.01	<0.01	<0.01
	6/2/08	<0.01	<0.01	<0.01
	6/12/08	<0.01	<0.01	<0.01
	6/19/08	<0.01	<0.01	<0.01
	6/23/08	<0.01	<0.01	<0.01
	7/8/08	<0.01	<0.01	<0.01
	7/17/08	<0.05	<0.05	<0.05
	8/4/08	0.54	0.39	<0.05
	8/11/08	<0.05	<0.05	<0.05
	8/18/08	<0.05	0.32	<0.05
	8/25/08	<0.05	0.39	<0.05
	9/2/08	0.08	0.55	<0.05
	9/11/08	<0.05	<0.05	<0.05
	9/19/08	<0.05	<0.05	<0.05
	9/23/08	<0.05	<0.05	<0.05
	9/30/08	<0.05	<0.05	<0.05
	10/6/08	<0.05	<0.05	<0.05
	10/13/08	<0.05	<0.05	<0.05
	10/15/08	<0.05	<0.05	<0.05
	10/21/08	<0.05	<0.05	<0.05
	10/31/08	<0.05	<0.05	<0.05
	11/4/08	<0.05	<0.05	<0.05
	11/10/08	<0.05	<0.05	<0.05
	11/19/08	<0.05	<0.05	<0.05
	Midpoint Sampling Ceased in 2008			

Notes:
- Samples collected from 1/4/08 through 2/14/08 were reported in mg/L by the laboratory and converted to ppmv.
- Samples collected from 3/7/08 through 7/8/08 were reported in ug/L by the laboratory and converted to ppmv .

TABLE 4

SUMMARY OF OPERATIONAL DATA AND MASS REMOVAL
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

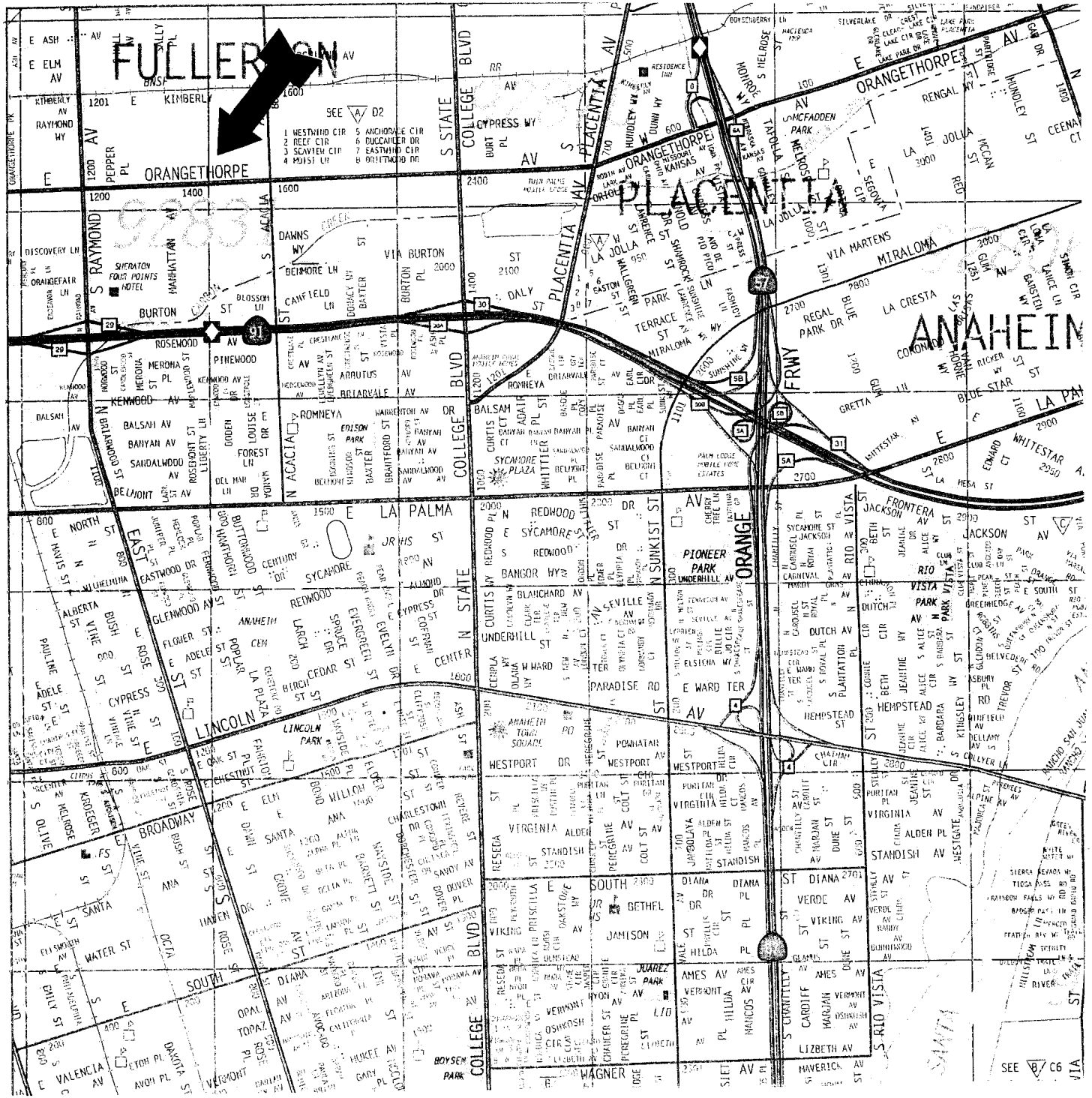
Sample ID	Date Sampled	Sample Concentration				Pipe Dia.	Flow Rate	Cumulative Time	Mass Removed	
		PCE ppmv	PCE ug/L	TCE ppmv	TCE ug/L	inches	cfm	hrs	Cumulative PCE lbs	Cumulative TCE lbs
Inlet	1/4/2008	17.971	124	10.182	56	4	88.6	0.0	0.00	0.00
Inlet	1/11/2008	10.000	69	3.091	17	4	133.5	161.8	5.57	0.69
Inlet	1/17/2008	8.261	57	1.818	10	4	222.2	308.1	12.50	1.29
Inlet	1/21/2008	6.232	43	1.273	7	4	247.2	401.1	16.19	1.59
Inlet	1/30/2008	5.217	36	1.455	8	4	185.7	619	21.64	2.20
Inlet	2/5/2008	3.043	21	<RL	<RL	4	269.3	761	24.64	2.20
Inlet	2/14/2008	2.899	20	0.909	5	4	306.8	977.1	29.60	2.82
Inlet	3/7/2008	0.893	6.16	1.105	6.08	4	330.2	1201.9	31.31	3.66
Inlet	3/11/2008	0.642	4.43	1.069	5.88	4	157.3	1298.3	31.56	3.83
Inlet	3/20/2008	0.638	4.40	0.953	5.24	4	130.1	1515.3	32.02	4.11
Inlet	3/27/2008	0.358	2.47	0.375	2.06	4	162.0	1681.2	32.27	4.21
Inlet	4/2/2008	0.900	6.21	1.504	8.27	4	162.0	1823.6	32.80	4.57
Inlet	4/10/2008	0.951	6.56	0.864	4.75	4	121.4	2018.2	33.38	4.78
Inlet	4/15/2008	0.907	6.26	0.385	2.12	4	158.6	2137.9	33.83	4.85
Inlet	4/25/2008	1.132	7.81	0.651	3.58	4	132.9	2371.8	34.73	5.06
Inlet	5/5/2008	1.120	7.73	0.267	1.47	4	160.5	2493.1	35.30	5.11
Inlet	5/14/2008	0.909	6.27	0.211	1.16	4	150.4	2707.9	36.05	5.18
Inlet	5/19/2008	0.797	5.50	0.436	2.40	4	123.0	2828.6	36.36	5.25
Inlet	5/27/2008	0.965	6.66	0.385	2.12	4	123.0	3020.1	36.95	5.34
Inlet	6/2/2008	1.390	9.59	0.716	3.94	4	256.8	3163	38.26	5.61
Inlet	6/12/2008	1.084	7.48	0.278	1.53	4	225.0	3403.2	39.77	5.77
Inlet	6/19/2008	0.865	5.97	0.367	2.02	4	136.1	3569.6	40.28	5.85
Inlet	6/23/2008	0.762	5.26	<RL	<RL	4	229.6	3667.3	40.72	5.85
Inlet	7/3/2008	0.978	6.75	<RL	<RL	4	225.2	3905.8	42.07	5.85
Inlet	7/8/2008	0.710	4.90	<RL	<RL	4	176.0	4027.1	42.46	5.85
Inlet	7/17/2008	0.360	2.48	<RL	<RL	4	172.2	4243.8	42.81	5.85
Inlet	8/4/2008	0.490	3.38	<RL	<RL	4	158.2	4677.2	43.68	5.85
Inlet	8/11/2008	1.750	12.08	0.470	2.59	4	105.2	4844.7	44.47	5.94
Inlet	8/18/2008	0.140	0.97	<RL	<RL	4	167.8	5014.1	44.58	5.94
Inlet	8/25/2008	0.470	3.24	<RL	<RL	4	153.0	5179.3	44.88	5.94
Inlet	9/2/2008	0.720	4.97	0.420	2.31	4	190.2	5373.3	45.57	6.10
Inlet	9/11/2008	0.910	6.28	<RL	<RL	4	111.2	5585.6	46.12	6.10
Inlet	9/19/2008	0.110	0.76	<RL	<RL	4	139.3	5778.1	46.20	6.10
Inlet	9/23/2008	0.280	1.93	<RL	<RL	4	136.6	5874.7	46.29	6.10
Inlet	9/30/2008	1.120	7.73	0.560	3.08	4	106.4	6041.6	46.81	6.20
Inlet	10/6/2008	0.860	5.93	0.410	2.26	4	143.1	6185	47.26	6.29
Inlet	10/13/2008	0.270	1.86	0.190	1.05	4	129.9	6354	47.41	6.33
Inlet	10/15/2008	1.160	8.00	<RL	<RL	4	129.9	6402	47.60	6.33
Inlet	10/21/2008	0.570	3.93	0.860	4.73	4	106.6	6526.7	47.80	6.45
Inlet	10/30/2008	1.870	12.90	0.300	1.65	4	107.9	6784.6	49.14	6.53
Inlet	11/4/2008	<RL	<RL	<RL	<RL	4	140.0	6881	49.14	6.53
Inlet	11/10/2008	0.150	1.04	0.260	1.43	4	105.1	7013.8	49.19	6.57
Inlet	11/19/2008	0.400	2.76	<RL	<RL	4	87.6	7230.1	49.39	6.57
Inlet	11/26/2008	0.400	2.76	<RL	<RL	4	124.2	7256.1	49.42	6.57
Inlet	11/28/2008	0.400	2.76	<RL	<RL	4	124.3	7305.5	49.48	6.57

TABLE 4 (Continued)

SUMMARY OF OPERATIONAL DATA AND MASS REMOVAL
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Sample ID	Date Sampled	Sample Concentration				Pipe Dia.	Flow Rate	Cumulative Time	Mass Removed	
		PCE ppmv	PCE ug/L	TCE ppmv	TCE ug/L	inches	cfm	hrs	Cumulative PCE lbs	Cumulative TCE lbs
Inlet	5/13/2009	3.450	23.81	0.500	2.75	4	83.1	7305.5	49.48	6.57
Inlet	5/22/2009	3.450	23.81	0.500	2.75	4	86.1	7521.5	51.14	6.66
Inlet	5/27/2009	4.530	31.26	0.320	1.76	4	89.4	7639.2	52.37	6.70
Inlet	6/1/2009	2.630	18.15	0.240	1.32	4	94.1	7760	53.14	6.73
Inlet	6/8/2009	1.940	13.39	0.220	1.21	4	100.5	7952.3	54.11	6.77
Inlet	6/15/2009	2.780	19.18	0.260	1.43	4	109.9	8097.2	55.25	6.81
Inlet	6/22/2009	2.610	18.01	0.230	1.27	4	95.1	8263.8	56.32	6.85
Inlet	6/29/2009	2.610	18.01	0.230	1.27	4	105.2	8431.9	57.50	6.89
Inlet	7/9/2009	2.720	18.77	0.220	1.21	4	105.3	8671.9	59.28	6.95
Inlet	7/15/2009	3.110	21.46	<RL	<RL	4	105.8	8815.9	60.50	6.95
Inlet	7/21/2009	2.760	19.04	<RL	<RL	4	105.7	8959.9	61.58	6.95
Inlet	7/28/2009	4.180	28.84	1.530	8.42	4	108.3	9127.7	63.54	7.24
Inlet	8/4/2009	2.310	15.94	0.250	1.38	4	100.1	9294.7	64.54	7.28
Inlet	8/11/2009	4.370	30.15	0.390	2.15	4	107.6	9464.8	66.60	7.35
Inlet	8/21/2009	4.370	30.15	0.390	2.15	4	102.8	9704	69.37	7.45
Inlet	8/28/2009	1.050	7.25	<RL	<RL	4	107.6	9832	70.44	7.45
Inlet	9/3/2009	1.050	7.25	<RL	<RL	4	121.3	9891	71.06	7.45
Inlet	9/8/2009	0.830	5.73	<RL	<RL	4	112.1	9966.7	71.38	7.45
Inlet	9/17/2009	0.640	4.42	<RL	<RL	4	106.8	10182	71.89	7.45
Inlet	9/24/2009	1.260	8.69	<RL	<RL	4	109.7	10302.1	73.09	7.45
Inlet	10/1/2009	0.820	5.66	<RL	<RL	4	108.9	10471.2	73.75	7.45

FIGURES



General Notes

N
W E
S

*ADAPTED FROM GOOGLEMAPS 2008

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe
Fullerton, CA

Number
7115

Figure Details

SITE LOCATION MAP

Figure #
Figure 1

Revise Date
July 23, 2008

2400' 0 2400'
Approximate Scale

Scale
1" = 2,400'

Company Information

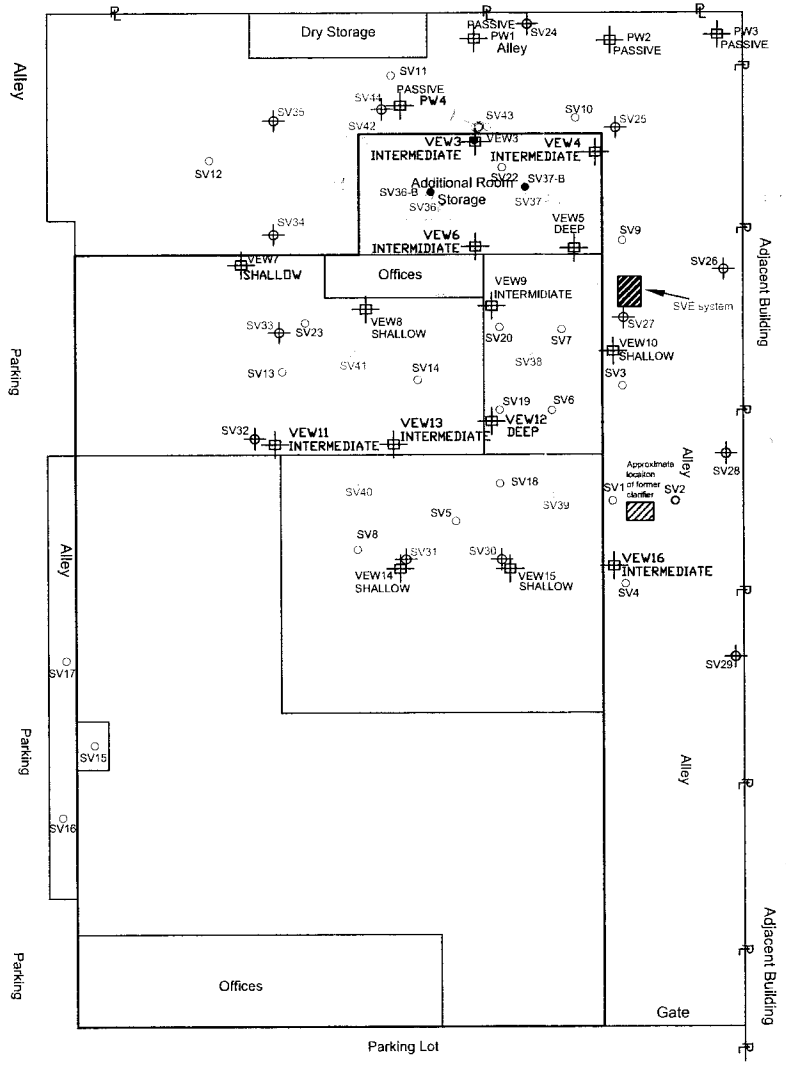
Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls



NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location
- Proposed Verification Sampling Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH EXISTING SOIL VAPOR WELL & PROBE, AND PROPOSED VERIFICATION SAMPLE LOCATIONS

Figure #
Figure 2

Revise Date
October 2009

Approximate Scale

Scale
1"=60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5597

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Figure 3 - Cumulative PCE & TCE Removed over Time

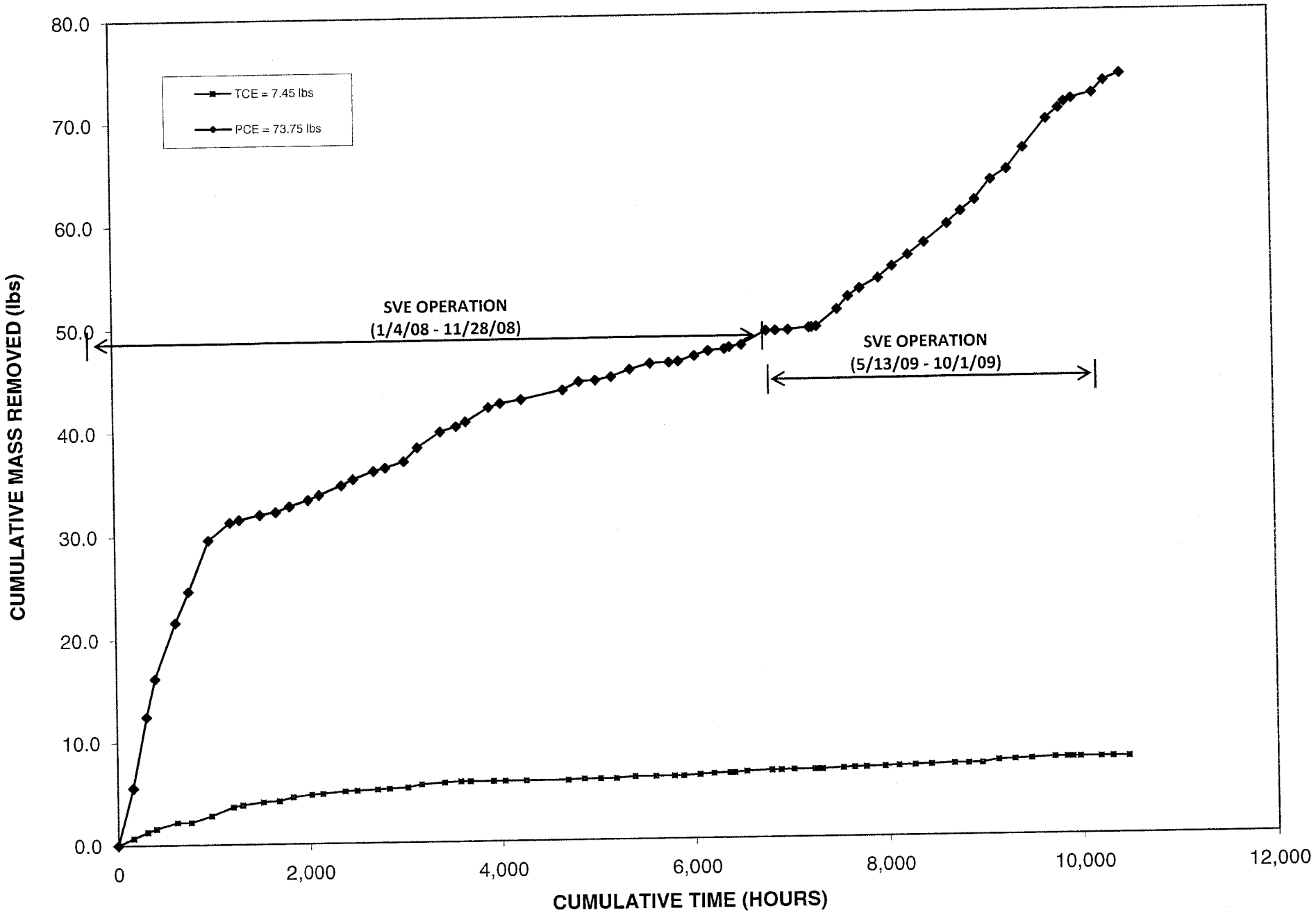
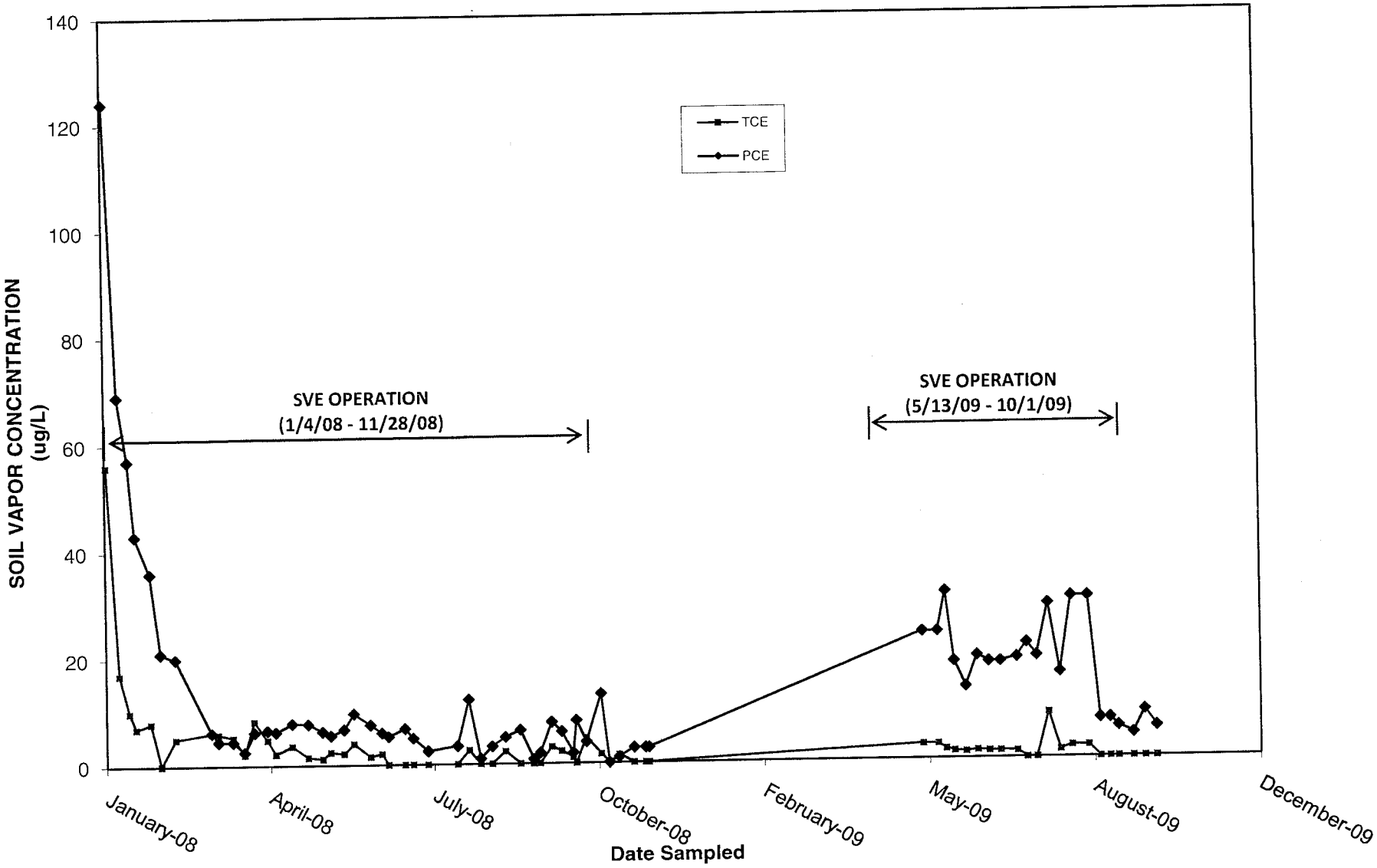


FIGURE 4 - Inlet PCE & TCE Vapor Concentrations (ug/L) Over Time



APPENDIX A

LABORATORY ANALYTICAL RESULTS

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

May 18, 2009

ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90513A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on May 13, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	05/13/09
Project Manager:	Alejandro Fuan	Date Analyzed:	05/13/09
Project Name:	7115 Universal	Date Reported:	05/15/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90513A-1	90513A-2	90513A-3	90513A-4	90513A-5
SAMPLE ID	Outlet	Inlet	VEW3-5'	VEW3-15'	VEW3-25'
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Benzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Bromodichloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Bromoform	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Bromomethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
2-Butanone (MEK)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Carbon Disulfide	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Carbon Tetrachloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Chloroform	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chloromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Cyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Dibromochloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,2-Dibromoethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,2-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,3-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,4-Dichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Dichlorodifluoromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1-Dichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dichloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,1-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	3.20	0.05	8.87	0.05
cis-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	0.24	0.05	1.03	0.05
trans-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dichloropropane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	05/13/09
Project Manager:	Alejandro Fuan	Date Analyzed:	05/13/09
Project Name:	7115 Universal	Date Reported:	05/15/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90513A-1	90513A-2	90513A-3	90513A-4	90513A-5
SAMPLE ID	Outlet	Inlet	VEW3-5'	VEW3-15'	VEW3-25'
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
cis-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Ethylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
2-Hexanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methyl Acetate	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methylcyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methylene Chloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
4-Methyl-2-Pentanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Styrene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Isopropylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
4-Isopropyltoluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Tetrachloroethene	ND	0.05	3.45	0.05	3.49	0.05	21.02	0.05	37.76	0.05
Toluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,1-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,2-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Trichloroethene	ND	0.05	0.50	0.05	0.49	0.05	2.33	0.05	8.20	0.05
Trichlorofluoromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Vinyl Chloride	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Total Xylenes	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	106	107	109	107	108
1,2-Dichloroethane-d4	115	117	119	118	117
Toluene-D8	94	96	93	95	94
4-Bromofluorobenzene	82	83	85	83	83

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 05/13/09

LCS ID: VOC90513LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	95	70-130
Benzene	100	70-130
Trichloroethene	100	70-130
Toluene	105	70-130
Chlorobenzene	95	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 05/13/09

QC Batch: VOC90513MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	85	95	11	70-130	20
Benzene	90	95	5	70-130	20
Trichloroethene	95	100	5	70-130	20
Toluene	80	95	17	70-130	20
Chlorobenzene	90	95	5	70-130	20

III. Method Blank

Date Analyzed: 05/13/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	109
1,2-Dichloroethane-d4	113
Toluene-D8	95
4-Bromofluorobenzene	93

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C&E LAB ID: 90513A

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

Page 1 of 1

Company Name: IRC
Project Manager: Al Fuan
Project No./Name: 7115/Universal SO
Tel: Fax:
Site Address: 1551 E. Orangethorpe Ave
Fullerton, CA
Sampled By: Greg Hood

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: (Normal) / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
1	Outlet	5/13/09	12:00	air	1 Bag						X					
2	Inlet		12:02													
3	VEW 3-5'		12:10													
4	VEW 3-15'		12:12													
5	VEW 3-25'		12:14								X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) (Yes) No
Greg Hood	5/12/09 1:00		5/12/09	EDF Global ID No.: T
Relinquished By	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

June 5, 2009 ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Univeral
C&E ID: 90527A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on May 27, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 05/27/09
Date Analyzed: 05/27/09
Date Reported: 05/29/09
Unit Reported: ppm v

C&E LAB ID	90527A-1	90527A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	ND	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 05/27/09
Date Analyzed: 05/27/09
Date Reported: 05/29/09
Unit Reported: ppm v

C&E LAB ID	90527A-1	90527A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	4.53	0.05						
Toluenc	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	0.32	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	111	111			
1,2-Dichloroethane-d4	110	107			
Toluene-D8	94	93			
4-Bromofluorobenzene	112	103			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 05/27/09

LCS ID: VOC90527LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	110	70-130
Benzene	100	70-130
Trichloroethene	100	70-130
Toluene	105	70-130
Chlorobenzene	95	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 05/27/09

QC Batch: VOC90527MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	105	95	10	70-130	20
Benzene	95	85	11	70-130	20
Trichloroethene	95	85	11	70-130	20
Toluene	95	90	5	70-130	20
Chlorobenzene	90	80	12	70-130	20

III. Method Blank

Date Analyzed: 05/27/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	103
1,2-Dichloroethane-d4	101
Toluene-D8	95
4-Bromofluorobenzene	130

ND = Not detected at the indicated reporting limit.

CHAIN OF CUSTODY RECORD

C&E LAB ID: 9027A

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

Company Name: TRG
Project Manager: Al Fugn
Project No./Name: 7115/Universal
Tel: Fax:
Site Address: 1551 E. Orangethorpe Av. Fullerton, Cal
Sampled By: Greg Hood

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
(Normal) / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	5/27/09	9:40	air	1 Bag						X					
inlet	↓	9:42	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
Greg Hood	5/27/09 10:15	Mayra	5/27/09	EDF Global ID No.: T_____
Relinquished By:	Date/Time:	Received By	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

June 8, 2009

ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90601A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on June 1, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 06/01/09
Date Analyzed: 06/01/09
Date Reported: 06/02/09
Unit Reported: ppm v

C&E LAB ID	90601A-1	90601A-2	90601A-3	90601A-4	90601A-5
SAMPLE ID	Outlet	Inlet	VEW3-5	VEW3-15	VEW3-25
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Benzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Bromodichloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Bromoform	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Bromomethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
2-Butanone (MEK)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Carbon Disulfide	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Carbon Tetrachloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Chloroform	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chloromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Cyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Dibromochloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,2-Dibromoethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,2-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,3-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,4-Dichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Dichlorodifluoromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1-Dichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dichloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,1-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	4.36	0.05	7.95	0.05
cis-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	0.37	0.05	0.91	0.05
trans-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dichloropropane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 06/01/09
Date Analyzed: 06/01/09
Date Reported: 06/02/09
Unit Reported: ppm v

C&E LAB ID	90601A-1	90601A-2	90601A-3	90601A-4	90601A-5
SAMPLE ID	Outlet	Inlet	VEW3-5	VEW3-15	VEW3-25
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
cis-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Ethylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
2-Hexanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methyl Acetate	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methylcyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methylene Chloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
4-Methyl-2-Pentanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Styrene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Isopropylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
4-Isopropyltoluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Tetrachloroethene	ND	0.05	2.63	0.05	3.21	0.05	14.76	0.05	29.08	0.05
Toluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,1-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,2-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Trichloroethene	ND	0.05	0.26	0.05	0.24	0.05	4.09	0.05	8.75	0.05
Trichlorofluoromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Vinyl Chloride	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Total Xylenes	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	97	97	96	98	95
1,2-Dichloroethane-d4	94	96	97	96	95
Toluene-D8	105	105	105	104	105
4-Bromofluorobenzene	106	102	104	99	101

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 06/01/09

LCS ID: VOC90601LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	90	70-130
Benzene	85	70-130
Trichloroethene	80	70-130
Toluene	85	70-130
Chlorobenzene	90	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 06/01/09

QC Batch: VOC90601MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	70	70	0	70-130	20
Benzene	90	90	0	70-130	20
Trichloroethene	85	85	0	70-130	20
Toluene	95	90	5	70-130	20
Chlorobenzene	100	100	0	70-130	20

III. Method Blank

Date Analyzed: 06/01/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	99
1,2-Dichloroethane-d4	98
Toluene-D8	106
4-Bromofluorobenzene	104

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C&E LAB ID 90601A

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

Company Name: TRC
Project Manager: Al Fuas
Project No./Name: 7115 / Universal
Tel: Fax:
Site Address: 1551 E. Orangethorpe Ave Fullerton, CA
Sampled By: Greg Ward

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
(Normal) / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	6/1/09	10:30	air	1 Bag						X					
inlet	↓	10:32	↓	↓						↓					
VEW 3-5		10:40								↓					
VEW 3-15		10:42								X					
VEW 3-25	↓	10:44	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
	6/1/09 1105		6/1/09	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

June 12, 2009

ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90609A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on June 9, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	06/08/09
Project Manager:	Alejandro Fuan	Date Analyzed:	06/09/09
Project Name:	7115 Universal	Date Reported:	06/10/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90609A-1	90609A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	ND	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 06/08/09
Date Analyzed: 06/09/09
Date Reported: 06/10/09
Unit Reported: ppm v

C&E LAB ID	90609A-1	90609A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	1.94	0.05						
Toluene	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	0.22	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	99	101			
1,2-Dichloroethane-d4	97	97			
Toluene-D8	98	99			
4-Bromofluorobenzene	101	103			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 06/09/09

LCS ID: VOC90609LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	115	70-130
Benzene	95	70-130
Trichloroethene	95	70-130
Toluene	95	70-130
Chlorobenzene	95	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 06/09/09

QC Batch: VOC90609MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	120	115	4	70-130	20
Benzene	95	95	0	70-130	20
Trichloroethene	95	95	0	70-130	20
Toluene	95	95	0	70-130	20
Chlorobenzene	95	95	0	70-130	20

III. Method Blank

Date Analyzed: 06/09/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	105
1,2-Dichloroethane-d4	101
Toluene-D8	95
4-Bromofluorobenzene	108

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 9069A

Company Name: TKG
Project Manager: Al Fuan
Project No./Name: 7115 / Universal So
Tel: Fax:
Site Address: 1551 Orangethorpe Ave. Fullerton, CA
Sampled By: Greg Hood

Page 1 of 1

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: (Normal) Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	6/8/09	10:40	air	1 Bag						X					
inlet	↓	10:42	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
Greg Hood	6/8/09 11:00		6/9/09	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

June 19, 2009

ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90615A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on June 15, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 06/15/09
Date Analyzed: 06/15/09
Date Reported: 06/16/09
Unit Reported: ppm v

C&E LAB ID	90615A-1	90615A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	ND	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	06/15/09
Project Manager:	Alejandro Fuan	Date Analyzed:	06/15/09
Project Name:	7115 Universal	Date Reported:	06/16/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90615A-1	90615A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	2.78	0.05						
Toluene	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	0.26	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	99	99			
1,2-Dichloroethane-d4	90	91			
Toluene-D8	96	96			
4-Bromofluorobenzene	105	102			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 06/15/09

LCS ID: VOC90615LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	80	70-130
Benzene	85	70-130
Trichloroethene	85	70-130
Toluene	85	70-130
Chlorobenzene	90	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 06/15/09

QC Batch: VOC90615MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	75	80	6	70-130	20
Benzene	85	85	0	70-130	20
Trichloroethene	90	90	0	70-130	20
Toluene	85	85	0	70-130	20
Chlorobenzene	90	90	0	70-130	20

III. Method Blank

Date Analyzed: 06/15/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	94
1,2-Dichloroethane-d4	90
Toluene-D8	96
4-Bromofluorobenzene	100

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 9061SA

Company Name: TRG
Project Manager: Al Fuan
Project No./Name: 7115/Universal SO
Tel: Fax:
Site Address: 1551 E. Orangethorpe Ave. Fullerton, CA
Sampled By: Greg Hood

Page 1 of 1
Sample Conditions: __ Chilled __ Seals Intact
Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	6/15/09	11:30	air	1 Bag					~~X~~	X					
inlet	↓	11:32	↓	↓					~~X~~	X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
Greg Hood	6/15/09 12:00	Mary Ro	6/15/09	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

July 2, 2009

ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90622A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on June 22, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 06/22/09
Date Analyzed: 06/22/09
Date Reported: 06/23/09
Unit Reported: ppm v

C&E LAB ID	90622A-1	90622A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	ND	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 06/22/09
Date Analyzed: 06/22/09
Date Reported: 06/23/09
Unit Reported: ppm v

C&E LAB ID	90622A-1	90622A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	2.61	0.05						
Toluene	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	0.23	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	94	94			
1,2-Dichloroethane-d4	81	81			
Toluene-D8	98	98			
4-Bromofluorobenzene	96	102			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 06/22/09

LCS ID: VOC90622LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	75	70-130
Benzene	80	70-130
Trichloroethene	85	70-130
Toluene	80	70-130
Chlorobenzene	90	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 06/22/09

QC Batch: VOC90622MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	75	80	6	70-130	20
Benzene	75	80	6	70-130	20
Trichloroethene	80	85	6	70-130	20
Toluene	80	85	6	70-130	20
Chlorobenzene	85	90	6	70-130	20

III. Method Blank

Date Analyzed: 06/22/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	94
1,2-Dichloroethane-d4	81
Toluene-D8	99
4-Bromofluorobenzene	116

ND = Not detected at the indicated reporting limit.

CHAIN OF CUSTODY RECORD

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 906224

Company Name: TRC
Project Manager: Al Fuan
Project No./Name: 7115/Universal 50
Tel: Fax:
Site Address: 1551 E. Orangethorpe Av. Fullerton, CA
Sampled By: Greg Hood

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
(Normal) / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	6/22/09	9:50	air	1 Bag						X					
inlet	↓	9:52	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
Greg Hood	6/22/09 10:50		6/23/09	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

July 8, 2009

ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90629C

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on June 29, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 06/29/09
Date Analyzed: 06/29/09
Date Reported: 07/01/09
Unit Reported: ppm v

C&E LAB ID	90629C-1	90629C-2	90629C-3		
SAMPLE ID	VEW3-5	VEW3-15	VEW3-25		
DF	1	1	1		

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05	ND	0.05				
Benzene	ND	0.05	ND	0.05	ND	0.05				
Bromodichloromethane	ND	0.05	ND	0.05	ND	0.05				
Bromoform	ND	0.25	ND	0.25	ND	0.25				
Bromomethane	ND	0.25	ND	0.25	ND	0.25				
2-Butanone (MEK)	ND	0.25	ND	0.25	ND	0.25				
Carbon Disulfide	ND	0.25	ND	0.25	ND	0.25				
Carbon Tetrachloride	ND	0.05	ND	0.05	ND	0.05				
Chlorobenzene	ND	0.05	ND	0.05	ND	0.05				
Chloroethane	ND	0.25	ND	0.25	ND	0.25				
Chloroform	ND	0.05	ND	0.05	ND	0.05				
Chloromethane	ND	0.25	ND	0.25	ND	0.25				
Cyclohexane	ND	0.05	ND	0.05	ND	0.05				
Dibromochloromethane	ND	0.05	ND	0.05	ND	0.05				
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25	ND	0.25				
1,2-Dibromoethane	ND	0.25	ND	0.25	ND	0.25				
1,2-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25				
1,3-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25				
1,4-Dichlorobenzene	ND	0.05	ND	0.05	ND	0.05				
Dichlorodifluoromethane	ND	0.05	ND	0.05	ND	0.05				
1,1-Dichloroethane	ND	0.05	ND	0.05	ND	0.05				
1,2-Dichloroethane	ND	0.25	ND	0.25	ND	0.25				
1,1-Dichloroethene	ND	0.05	ND	0.05	ND	0.05				
cis-1,2-Dichloroethene	ND	0.05	2.08	0.05	5.77	0.05				
trans-1,2-Dichloroethene	ND	0.05	ND	0.05	0.59	0.05				
1,2-Dichloropropane	ND	0.05	ND	0.05	ND	0.05				

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 06/29/09
Date Analyzed: 06/29/09
Date Reported: 07/01/09
Unit Reported: ppm v

C&E LAB ID	90629C-1	90629C-2	90629C-3		
SAMPLE ID	VEW3-5	VEW3-15	VEW3-25		
DF	1	1	1		

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05				
cis-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05				
Ethylbenzene	ND	0.05	ND	0.05	ND	0.05				
2-Hexanone	ND	0.05	ND	0.05	ND	0.05				
Methyl Acetate	ND	0.05	ND	0.05	ND	0.05				
Methylcyclohexane	ND	0.05	ND	0.05	ND	0.05				
Methylene Chloride	ND	0.05	ND	0.05	ND	0.05				
4-Methyl-2-Pentanone	ND	0.05	ND	0.05	ND	0.05				
Styrene	ND	0.05	ND	0.05	ND	0.05				
Isopropylbenzene	ND	0.05	ND	0.05	ND	0.05				
4-Isopropyltoluene	ND	0.05	ND	0.05	ND	0.05				
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05	ND	0.05				
Tetrachloroethene	1.88	0.05	6.07	0.05	19.77	0.05				
Toluene	ND	0.05	ND	0.05	ND	0.05				
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05	ND	0.05				
1,1,1-Trichloroethane	ND	0.05	ND	0.05	ND	0.05				
1,1,2-Trichloroethane	ND	0.05	ND	0.05	ND	0.05				
Trichloroethene	ND	0.05	2.27	0.05	6.74	0.05				
Trichlorofluoromethane	ND	0.25	ND	0.25	ND	0.25				
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05	ND	0.05				
Vinyl Chloride	ND	0.25	ND	0.25	ND	0.25				
Total Xylenes	ND	0.05	ND	0.05	ND	0.05				

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	92	95	79		
1,2-Dichloroethane-d4	78	81	83		
Toluene-D8	96	96	95		
4-Bromofluorobenzene	102	105	97		

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 06/29/09

LCS ID: VOC90629LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	95	70-130
Benzene	105	70-130
Trichloroethene	105	70-130
Toluene	95	70-130
Chlorobenzene	100	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 06/29/09

QC Batch: VOC90629MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	110	100	10	70-130	20
Benzene	100	100	0	70-130	20
Trichloroethene	105	105	0	70-130	20
Toluene	95	95	0	70-130	20
Chlorobenzene	100	100	0	70-130	20

III. Method Blank

Date Analyzed: 06/29/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	91
1,2-Dichloroethane-d4	81
Toluene-D8	97
4-Bromofluorobenzene	112

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 90629C

Company Name: TRG
Project Manager: Al Fuan
Project No./Name: 7115 / Universal SO
Tel: Fax:

Site Address: 1551 E. Orangethorpe Av. Fullerton, CA
Sampled By: Greg Hood

Page 1 of 1

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
VEW 3-5	6/29/09	10:40	air	1 Bag						X					
VEW 3-15	↓	10:42	↓	↓						X					
VEW 3-25	↓	10:44	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
[signature]	6/29/09 1:00	[signature]	6/29/09	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

July 14, 2009

ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90709A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on July 9, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 07/09/09
Date Analyzed: 07/09/09
Date Reported: 07/10/09
Unit Reported: ppm v

C&E LAB ID	90709A-1	90709A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	ND	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 07/09/09
Date Analyzed: 07/09/09
Date Reported: 07/10/09
Unit Reported: ppm v

C&E LAB ID	90709A-1	90709A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	2.72	0.05						
Toluene	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	0.22	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	84	105			
1,2-Dichloroethane-d4	113	97			
Toluene-D8	93	95			
4-Bromofluorobenzene	100	103			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 07/09/09

LCS ID: VOC90709LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	120	70-130
Benzene	105	70-130
Trichloroethene	100	70-130
Toluene	95	70-130
Chlorobenzene	95	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 07/09/09

QC Batch: VOC90709MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	115	115	0	70-130	20
Benzene	110	110	0	70-130	20
Trichloroethene	100	105	5	70-130	20
Toluene	100	100	0	70-130	20
Chlorobenzene	95	95	0	70-130	20

III. Method Blank

Date Analyzed: 07/09/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	126
1,2-Dichloroethane-d4	100
Toluene-D8	96
4-Bromofluorobenzene	111

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID 9079A

Company Name: TRG
Project Manager: Al Fuan
Project No./Name: 7115/Universal SO
Tel: Fax:

Site Address: 1951 E. Orangethorpe Ave
Fullerton, CA
Sampled By: Greg Hood

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
(Normal) / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	7/9/09	9:20	air	1 Bag						X					
inlet	↓	9:22	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	7/9/09 9:50	[signature]	7/9/09
Relinquished By:	Date/Time:	Received By	Date/Time:

EDF Required: (circle) Yes No
EDF Global ID No.: T
Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

July 21, 2009 ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90715A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on July 15, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 07/15/09
Date Analyzed: 07/15/09
Date Reported: 07/16/09
Unit Reported: ppm v

C&E LAB ID	90715A-1	90715A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	ND	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 07/15/09
Date Analyzed: 07/15/09
Date Reported: 07/16/09
Unit Reported: ppm v

C&E LAB ID	90715A-1	90715A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	3.11	0.05						
Toluene	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	ND	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	112	108			
1,2-Dichloroethane-d4	98	102			
Toluene-D8	98	100			
4-Bromofluorobenzene	110	111			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 07/15/09

LCS ID: VOC90715LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	95	70-130
Benzene	95	70-130
Trichloroethene	95	70-130
Toluene	95	70-130
Chlorobenzene	95	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 07/15/09

QC Batch: VOC90715MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	90	85	6	70-130	20
Benzene	95	95	0	70-130	20
Trichloroethene	90	95	5	70-130	20
Toluene	95	90	5	70-130	20
Chlorobenzene	100	95	5	70-130	20

III. Method Blank

Date Analyzed: 07/15/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	91
1,2-Dichloroethane-d4	93
Toluene-D8	96
4-Bromofluorobenzene	111

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C&E LAB ID: 90715A

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

Company Name: IRG
Project Manager: Al Fyan
Project No./Name: 715 / Universal SD
Tel: _____ Fax: _____
Site Address: 557 E. Orangethorpe Ave. Fullerton, CA
Sampled By: Corey Hood

Page 1 of 1
Sample Conditions
__ Chilled __ Seals Intact
Turn Around Time Desired
(Normal) / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	7/15/09	11:50	air	1 Bag						X					
inlet	↓	11:52	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	7/15/09 12:30	[signature]	7/15/09
Relinquished By:	Date/Time:	Received By:	Date/Time:

EDF Required: (circle) (Yes) No
EDF Global ID No.: T_____
Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

July 29, 2009 ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90721A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on July 21, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 07/21/09
Date Analyzed: 07/21/09
Date Reported: 07/22/09
Unit Reported: ppm v

C&E LAB ID	90721A-1	90721A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	ND	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 07/21/09
Date Analyzed: 07/21/09
Date Reported: 07/22/09
Unit Reported: ppm v

C&E LAB ID	90721A-1	90721A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	2.76	0.05						
Toluene	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	ND	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	89	118			
1,2-Dichloroethane-d4	104	109			
Toluene-D8	97	97			
4-Bromofluorobenzene	106	106			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 07/21/09

LCS ID: VOC90721LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	130	70-130
Benzene	115	70-130
Trichloroethene	115	70-130
Toluene	105	70-130
Chlorobenzene	105	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 07/21/09

QC Batch: VOC90721MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	130	130	0	70-130	20
Benzene	115	115	0	70-130	20
Trichloroethene	115	115	0	70-130	20
Toluene	100	105	5	70-130	20
Chlorobenzene	105	105	0	70-130	20

III. Method Blank

Date Analyzed: 07/21/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	118
1,2-Dichloroethane-d4	109
Toluene-D8	95
4-Bromofluorobenzene	105

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C&E LAB ID: 9t721-A

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

Company Name: TRC
Project Manager: Al Fuan
Project No./Name: 7115 / Universal SD
Tel: _____ Fax: _____

Site Address: 557 E. Orangethorpe Ave, Fullerton, CA
Sampled By: Avey Hood

Page 1 of 1

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: (Normal) / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
Outlet	7/21/09	10:20	air	1 Bag						X					
Inlet	↓	10:22	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:
Avey Hood	7/21/09 10:45	[signature]	7/21/09 10:45
Relinquished By:	Date/Time:	Received By:	Date/Time:

EDF Required: (circle) (Yes) No
EDF Global ID No.: T_____

Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

August 7, 2009 ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90728A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on July 28, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 07/28/09
Date Analyzed: 07/31/09
Date Reported: 08/04/09
Unit Reported: ppm v

C&E LAB ID	90728A-1	90728A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	1.67	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 07/28/09
Date Analyzed: 07/31/09
Date Reported: 08/04/09
Unit Reported: ppm v

C&E LAB ID	90728A-1	90728A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	4.18	0.05						
Toluene	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	1.53	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)			
Dibromofluoromethane	108	107		
1,2-Dichloroethane-d4	87	89		
Toluene-D8	100	97		
4-Bromofluorobenzene	105	106		

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 07/31/09

LCS ID: VOC90731LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	125	70-130
Benzene	115	70-130
Trichloroethene	125	70-130
Toluene	120	70-130
Chlorobenzene	125	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 07/31/09

QC Batch: VOC90731MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	105	105	0	70-130	20
Benzene	100	100	0	70-130	20
Trichloroethene	100	100	0	70-130	20
Toluene	100	95	5	70-130	20
Chlorobenzene	105	100	5	70-130	20

III. Method Blank

Date Analyzed: 07/31/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	130
1,2-Dichloroethane-d4	109
Toluene-D8	98
4-Bromofluorobenzene	112

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C&E LAB ID 90728A

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

Company Name: TRG
Project Manager: AJ Juan
Project No./Name: 715/Universal SO
Tel: Fax:

Site Address: 1551 E. Orangethorpe Av. Fullerton, CA
Sampled By: Greg Hood

Page 1 of 1
Sample Conditions
__ Chilled __ Seals Intact
Turn Around Time Desired
Normal / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	7/28/09	10:10	air	1 Bag						X					
inlet	↓	10:10	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:
	7/28/09 10:40		7/28/09
Relinquished By	Date/Time:	Received By:	Date/Time:

EDF Required: (circle) Yes No
EDF Global ID No.: T
Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

August 11, 2009

ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90804A

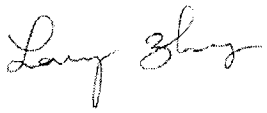
Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on August 4, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,



Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	08/04/09
Project Manager:	Alejandro Fuan	Date Analyzed:	08/04/09
Project Name:	7115 Universal	Date Reported:	08/05/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90804A-1	90804A-2	90804A-3	90804A-4	
SAMPLE ID	Outlet	Inlet	VEW3-15	VEW3-25	
DF	1	1	1	1	

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Benzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Bromodichloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Bromoform	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
Bromomethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
2-Butanone (MEK)	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
Carbon Disulfide	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
Carbon Tetrachloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Chlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Chloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
Chloroform	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Chloromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
Cyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Dibromochloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
1,2-Dibromoethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
1,2-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
1,3-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
1,4-Dichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Dichlorodifluoromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
1,1-Dichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
1,2-Dichloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
1,1-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	2.03	0.05		
cis-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
trans-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
1,2-Dichloropropane	ND	0.05	ND	0.05	ND	0.05	ND	0.05		

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 08/04/09
Date Analyzed: 08/04/09
Date Reported: 08/05/09
Unit Reported: ppm v

C&E LAB ID	90804A-1	90804A-2	90804A-3	90804A-4	
SAMPLE ID	Outlet	Inlet	VEW3-15	VEW3-25	
DF	1	1	1	1	

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
cis-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Ethylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
2-Hexanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Methyl Acetate	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Methylcyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Methylene Chloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
4-Methyl-2-Pentanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Styrene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Isopropylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
4-Isopropyltoluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Tetrachloroethene	ND	0.05	2.31	0.05	2.94	0.05	15.13	0.05		
Toluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
1,1,1-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
1,1,2-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Trichloroethene	ND	0.05	0.25	0.05	ND	0.05	1.77	0.05		
Trichlorofluoromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05		
Vinyl Chloride	ND	0.25	ND	0.25	ND	0.25	ND	0.25		
Total Xylenes	ND	0.05	ND	0.05	ND	0.05	ND	0.05		

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	83	91	101	119	
1,2-Dichloroethane-d4	84	108	95	96	
Toluene-D8	96	96	98	98	
4-Bromofluorobenzene	104	104	100	102	

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 08/04/09

LCS ID: VOC90804LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	85	70-130
Benzene	95	70-130
Trichloroethene	95	70-130
Toluene	90	70-130
Chlorobenzene	100	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 08/04/09

QC Batch: VOC90804MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	85	85	0	70-130	20
Benzene	95	90	5	70-130	20
Trichloroethene	90	95	5	70-130	20
Toluene	90	90	0	70-130	20
Chlorobenzene	95	95	0	70-130	20

III. Method Blank

Date Analyzed: 08/04/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	128
1,2-Dichloroethane-d4	93
Toluene-D8	97
4-Bromofluorobenzene	109

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

908-4 A

CHAIN OF CUSTODY RECORD

C&E LAB ID 908-4A

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

Company Name: TRC
Project Manager: Al Fran
Project No./Name: 7115/Universal SD
Tel: Fax:
Site Address: 1557 E. Orangethorpe Ave Fullerton, CA
Sampled By: Greg Head

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
(Normal) / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	8/4/09	9:00	air	1 Bag						X					
inlet		9:02								X					
VEW3-15		9:10								X					
VEW3-25		9:12								X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
	8/4/09 9:45	Mag PS	8/4/09	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

August 19, 2009 ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90811A

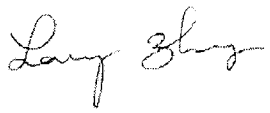
Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on August 11, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,



Larry Zhang, Ph.D.
Laboratory Director

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	08/11/09
Project Manager:	Alejandro Fuan	Date Analyzed:	08/11/09
Project Name:	7115 Universal	Date Reported:	08/13/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90811A-1	90811A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	ND	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	08/11/09
Project Manager:	Alejandro Fuan	Date Analyzed:	08/11/09
Project Name:	7115 Universal	Date Reported:	08/13/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90811A-1	90811A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	4.37	0.05						
Toluene	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	0.39	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	118	89			
1,2-Dichloroethane-d4	99	92			
Toluene-D8	96	98			
4-Bromofluorobenzene	100	101			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 08/11/09

LCS ID: VOC90811LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	105	70-130
Benzene	90	70-130
Trichloroethene	95	70-130
Toluene	85	70-130
Chlorobenzene	90	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 08/11/09

QC Batch: VOC90811MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	105	115	9	70-130	20
Benzene	90	100	11	70-130	20
Trichloroethene	95	105	10	70-130	20
Toluene	85	90	6	70-130	20
Chlorobenzene	90	95	5	70-130	20

III. Method Blank

Date Analyzed: 08/11/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	97
1,2-Dichloroethane-d4	104
Toluene-D8	95
4-Bromofluorobenzene	103

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C&E LAB ID: 90811A

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

Company Name: IRC
Project Manager: Al Fuan
Project No./Name: 7115/Universal 50
Tel: Fax:
Site Address: 1551 E. Orangethorpe Av. Fullerton, CA
Sampled By: Greg Hood

Page 1 of 1

Sample Conditions: __ Chilled __ Seals Intact

Turn Around Time Desired: (Normal) Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	8/11/09	11:00	air	1 Bag						X					
inlet	↓	11:02	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
[signature]	8/11/09 11:45	[signature]	8/11/09 11:45	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

September 4, 2009 ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90828A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on August 28, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	08/28/09
Project Manager:	Alejandro Fuan	Date Analyzed:	08/28/09
Project Name:	7115 Universal	Date Reported:	08/31/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90828A-1	90828A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	ND	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	08/28/09
Project Manager:	Alejandro Fuan	Date Analyzed:	08/28/09
Project Name:	7115 Universal	Date Reported:	08/31/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90828A-1	90828A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	1.05	0.05						
Toluene	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	ND	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	107	115			
1,2-Dichloroethane-d4	118	124			
Toluene-D8	95	100			
4-Bromofluorobenzene	101	116			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 08/28/09

LCS ID: VOC90828LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	75	70-130
Benzene	75	70-130
Trichloroethene	75	70-130
Toluene	70	70-130
Chlorobenzene	85	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 08/28/09

QC Batch: VOC90828MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	65	75	14	70-130	20
Benzene	65	75	14	70-130	20
Trichloroethene	70	80	13	70-130	20
Toluene	65	75	14	70-130	20
Chlorobenzene	75	85	13	70-130	20

III. Method Blank

Date Analyzed: 08/28/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	104
1,2-Dichloroethane-d4	119
Toluene-D8	97
4-Bromofluorobenzene	109

ND = Not detected at the indicated reporting limit.

CHAIN OF CUSTODY RECORD

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID 90828A

Company Name: TRG
Project Manager: Al Fuan
Project No./Name: 7115/Universal SO
Tel: Fax:

Site Address: 1551 E. Orangethorpe Ave Fullerton, CA
Sampled By: Greg Hood

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
Normal / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	8/28/09	10:10	air	1 Bag	~~X~~					X					
inlet	↓	10:12	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
[signature]	8/28/09 10:45	[signature]	8/28/09	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

September 16, 2009 ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90908A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on September 8, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 09/08/09
Date Analyzed: 09/09/09
Date Reported: 09/10/09
Unit Reported: ppm v

C&E LAB ID	90908A-1	90908A-2	90908A-3	90908A-4	90908A-5
SAMPLE ID	Outlet	Inlet	VEW3-5	VEW3-15	VEW3-25
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Benzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Bromodichloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Bromoform	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Bromomethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
2-Butanone (MEK)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Carbon Disulfide	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Carbon Tetrachloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Chloroform	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chloromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Cyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Dibromochloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,2-Dibromoethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,2-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,3-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,4-Dichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Dichlorodifluoromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1-Dichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dichloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,1-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	1.79	0.05
cis-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
trans-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dichloropropane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	09/08/09
Project Manager:	Alejandro Fuan	Date Analyzed:	09/09/09
Project Name:	7115 Universal	Date Reported:	09/10/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90908A-1	90908A-2	90908A-3	90908A-4	90908A-5
SAMPLE ID	Outlet	Inlet	VEW3-5	VEW3-15	VEW3-25
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
cis-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Ethylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
2-Hexanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methyl Acetate	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methylcyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methylene Chloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
4-Methyl-2-Pentanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Styrene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Isopropylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
4-Isopropyltoluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Tetrachloroethene	ND	0.05	0.83	0.05	0.18	0.05	2.20	0.05	7.66	0.05
Toluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,1-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,2-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Trichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	0.98	0.05
Trichlorofluoromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Vinyl Chloride	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Total Xylenes	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	113	114	114	113	112
1,2-Dichloroethane-d4	95	120	123	123	123
Toluene-D8	95	100	102	99	99
4-Bromofluorobenzene	103	98	101	100	97

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 09/09/09

LCS ID: VOC90909LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	85	70-130
Benzene	85	70-130
Trichloroethene	90	70-130
Toluene	95	70-130
Chlorobenzene	110	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/09/09

QC Batch: VOC90909MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	100	90	11	70-130	20
Benzene	95	85	11	70-130	20
Trichloroethene	105	95	10	70-130	20
Toluene	110	95	15	70-130	20
Chlorobenzene	125	110	13	70-130	20

III. Method Blank

Date Analyzed: 09/09/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	114
1,2-Dichloroethane-d4	122
Toluene-D8	99
4-Bromofluorobenzene	109

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 9070 3 A

Company Name: TRC
Project Manager: Al Fuan
Project No./Name: 7115/Universal SD
Tel: _____ Fax: _____

Site Address: 1551 E. Orangethorpe Ave.
Fullerton, CA
Sampled By: Greg Hood

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
(Normal) / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
1	outlet	9/8/09	11:10	air	1 Bag					X	X					
2	inlet		11:12							X	X					
3	VEW 3-5		11:20							X	X					
4	VEW 3-15		11:22							X	X					
5	VEW 3-25		11:24							X	X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
Greg Hood	9/8/09 12:30	Mary Jo	9/8/09	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

September 22, 2009

ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90917B

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on September 17, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	09/17/09
Project Manager:	Alejandro Fuan	Date Analyzed:	09/18/09
Project Name:	7115 Universal	Date Reported:	09/21/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90917B-1	90917B-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	ND	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	09/17/09
Project Manager:	Alejandro Fuan	Date Analyzed:	09/18/09
Project Name:	7115 Universal	Date Reported:	09/21/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90917B-1	90917B-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	0.64	0.05						
Toluene	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	ND	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	109	85			
1,2-Dichloroethane-d4	111	120			
Toluene-D8	97	98			
4-Bromofluorobenzene	99	99			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 09/18/09

LCS ID: VOC90918LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	85	70-130
Benzene	80	70-130
Trichloroethene	80	70-130
Toluene	85	70-130
Chlorobenzene	90	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/18/09

QC Batch: VOC90918MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	85	85	0	70-130	20
Benzene	85	85	0	70-130	20
Trichloroethene	90	85	6	70-130	20
Toluene	90	85	6	70-130	20
Chlorobenzene	95	90	5	70-130	20

III. Method Blank

Date Analyzed: 09/18/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	107
1,2-Dichloroethane-d4	120
Toluene-D8	98
4-Bromofluorobenzene	114

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C&E LAB ID 909713

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

Company Name: TRG
Project Manager: Al Fuan
Project No./Name: 7115/Universal 50
Tel: Fax:
Site Address: 1551 E. Orangethorpe Ave. Fullerton, CA
Sampled By: Greg Hood

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
(Normal) / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
1	outlet	9/17/09	11:20	air	1 Bag						X					
2	inlet	↓	11:22	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) (Yes) No
Greg Hood	9/17/09		9/17/09	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

September 29, 2009 ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 90924A

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on September 24, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	09/24/09
Project Manager:	Alejandro Fuan	Date Analyzed:	09/24/09
Project Name:	7115 Universal	Date Reported:	09/25/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90924A-1	90924A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05						
Benzene	ND	0.05	ND	0.05						
Bromodichloromethane	ND	0.05	ND	0.05						
Bromoform	ND	0.25	ND	0.25						
Bromomethane	ND	0.25	ND	0.25						
2-Butanone (MEK)	ND	0.25	ND	0.25						
Carbon Disulfide	ND	0.25	ND	0.25						
Carbon Tetrachloride	ND	0.05	ND	0.05						
Chlorobenzene	ND	0.05	ND	0.05						
Chloroethane	ND	0.25	ND	0.25						
Chloroform	ND	0.05	ND	0.05						
Chloromethane	ND	0.25	ND	0.25						
Cyclohexane	ND	0.05	ND	0.05						
Dibromochloromethane	ND	0.05	ND	0.05						
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25						
1,2-Dibromoethane	ND	0.25	ND	0.25						
1,2-Dichlorobenzene	ND	0.25	ND	0.25						
1,3-Dichlorobenzene	ND	0.25	ND	0.25						
1,4-Dichlorobenzene	ND	0.05	ND	0.05						
Dichlorodifluoromethane	ND	0.05	ND	0.05						
1,1-Dichloroethane	ND	0.05	ND	0.05						
1,2-Dichloroethane	ND	0.25	ND	0.25						
1,1-Dichloroethene	ND	0.05	ND	0.05						
cis-1,2-Dichloroethene	ND	0.05	ND	0.05						
trans-1,2-Dichloroethene	ND	0.05	ND	0.05						
1,2-Dichloropropane	ND	0.05	ND	0.05						

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	09/24/09
Project Manager:	Alejandro Fuan	Date Analyzed:	09/24/09
Project Name:	7115 Universal	Date Reported:	09/25/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	90924A-1	90924A-2			
SAMPLE ID	Outlet	Inlet			
DF	1	1			

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05						
cis-1,3-Dichloropropene	ND	0.05	ND	0.05						
Ethylbenzene	ND	0.05	ND	0.05						
2-Hexanone	ND	0.05	ND	0.05						
Methyl Acetate	ND	0.05	ND	0.05						
Methylcyclohexane	ND	0.05	ND	0.05						
Methylene Chloride	ND	0.05	ND	0.05						
4-Methyl-2-Pentanone	ND	0.05	ND	0.05						
Styrene	ND	0.05	ND	0.05						
Isopropylbenzene	ND	0.05	ND	0.05						
4-Isopropyltoluene	ND	0.05	ND	0.05						
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05						
Tetrachloroethene	ND	0.05	1.26	0.05						
Toluene	ND	0.05	ND	0.05						
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05						
1,1,1-Trichloroethane	ND	0.05	ND	0.05						
1,1,2-Trichloroethane	ND	0.05	ND	0.05						
Trichloroethene	ND	0.05	ND	0.05						
Trichlorofluoromethane	ND	0.25	ND	0.25						
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05						
Vinyl Chloride	ND	0.25	ND	0.25						
Total Xylenes	ND	0.05	ND	0.05						

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	106	107			
1,2-Dichloroethane-d4	114	112			
Toluene-D8	102	102			
4-Bromofluorobenzene	104	101			

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 09/24/09

LCS ID: VOC90924LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	110	70-130
Benzene	100	70-130
Trichloroethene	100	70-130
Toluene	105	70-130
Chlorobenzene	105	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 09/24/09

QC Batch: VOC90924MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	120	115	4	70-130	20
Benzene	100	100	0	70-130	20
Trichloroethene	100	100	0	70-130	20
Toluene	105	105	0	70-130	20
Chlorobenzene	105	105	0	70-130	20

III. Method Blank

Date Analyzed: 09/24/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	109
1,2-Dichloroethane-d4	114
Toluene-D8	102
4-Bromofluorobenzene	108

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C&E LAB ID: 90924A

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

Company Name: TRC
Project Manager: Al Fuan
Project No./Name: 715/Universal So
Tel: Fax:
Site Address: 1551 E. Orangethorpe Av. Fullerton, CA
Sampled By: Greg Hood

Page 1 of 1

Sample Conditions
__ Chilled __ Seals Intact

Turn Around Time Desired
(Normal) / Same Day / 24hr / 48hr

SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
outlet	9/24/09	10:20	air	1 Bag						X					
inlet	↓	10:22	↓	↓						X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) (Yes) No
	9/24/09 11:00		9/24/09	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

October 9, 2009 ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 91001C

Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on October 1, 2009, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,

Larry Zhang, Ph.D.
Laboratory Director

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 10/01/09
Date Analyzed: 10/02/09
Date Reported: 10/07/09
Unit Reported: ppm v

C&E LAB ID	91001C-1		91001C-2		91001C-3		91001C-4		91001C-5	
SAMPLE ID	Outlet		Inlet		VEW3-5		VEW3-15		VEW3-25	
DF	1		1		1		1		1	
COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Benzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Bromodichloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Bromoform	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Bromomethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
2-Butanone (MEK)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Carbon Disulfide	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Carbon Tetrachloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Chloroform	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chloromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Cyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Dibromochloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,2-Dibromoethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,2-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,3-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,4-Dichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Dichlorodifluoromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1-Dichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dichloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,1-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	1.35	0.05
cis-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
trans-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dichloropropane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name:	The Reynolds Group	Date Sampled:	10/01/09
Project Manager:	Alejandro Fuan	Date Analyzed:	10/02/09
Project Name:	7115 Universal	Date Reported:	10/07/09
Sample Matrix:	Vapor	Unit Reported:	ppm v

C&E LAB ID	91001C-1		91001C-2		91001C-3		91001C-4		91001C-5	
SAMPLE ID	Outlet		Inlet		VEW3-5		VEW3-15		VEW3-25	
DF	1		1		1		1		1	
COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
cis-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Ethylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
2-Hexanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methyl Acetate	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methylcyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methylene Chloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
4-Methyl-2-Pentanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Styrene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Isopropylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
4-Isopropyltoluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Tetrachloroethene	ND	0.05	0.82	0.05	0.31	0.05	1.69	0.05	8.29	0.05
Toluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,1-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,2-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Trichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	0.90	0.05
Trichlorofluoromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Vinyl Chloride	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Total Xylenes	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	109	106	106	103	112
1,2-Dichloroethane-d4	122	119	105	121	124
Toluene-D8	100	100	99	99	99
4-Bromofluorobenzene	99	101	99	100	98

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.

MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in water) ---

I. Laboratory Control Sample

Date Analyzed: 10/02/09

LCS ID: VOC91002LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	80	70-130
Benzene	75	70-130
Trichloroethene	80	70-130
Toluene	85	70-130
Chlorobenzene	95	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 10/02/09

QC Batch: VOC91002MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	75	80	6	70-130	20
Benzene	80	75	6	70-130	20
Trichloroethene	80	80	0	70-130	20
Toluene	90	85	6	70-130	20
Chlorobenzene	100	100	0	70-130	20

III. Method Blank

Date Analyzed: 10/02/09

Unit: µg/L

COMPOUND	Reporting Limit	RESULT
Acetone	2	ND
Benzene	0.5	ND
Bromodichloromethane	1	ND
Bromoform	1	ND
Bromomethane	1	ND
2-Butanone (MEK)	1	ND
Carbon Disulfide	1	ND
Carbon Tetrachloride	0.5	ND
Chlorobenzene	0.5	ND
Chloroethane	1	ND
Chloroform	1	ND
Chloromethane	1	ND
Cyclohexane	0.5	ND
Dibromochloromethane	1	ND
1,2-Dibromo-3-Chloropropane	1	ND
1,2-Dibromoethane	1	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.5	ND
1,3-Dichlorobenzene	0.5	ND
1,4-Dichlorobenzene	0.5	ND
Dichlorodifluoromethane	1	ND
1,1-Dichloroethane	0.5	ND
1,2-Dichloroethane	0.5	ND
1,1-Dichloroethene	0.5	ND
cis-1,2-Dichloroethene	0.5	ND
trans-1,2-Dichloroethene	0.5	ND
1,2-Dichloropropane	0.5	ND
trans-1,3-Dichloropropene	0.5	ND
cis-1,3-Dichloropropene	0.5	ND
Ethylbenzene	0.5	ND
2-Hexanone	0.5	ND
Methyl Acetate	0.5	ND
Methylcyclohexane	0.5	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.5	ND
4-Methyl-2-Pentanone	0.5	ND
Styrene	0.5	ND
Isopropylbenzene	0.5	ND
4-Isopropyltoluene	0.5	ND
1,1,2,2-Tetrachloroethane	0.5	ND
Tetrachloroethene	0.5	ND
Toluene	0.5	ND
1,2,4-Trichlorobenzene	0.5	ND
1,1,1-Trichloroethane	0.5	ND
1,1,2-Trichloroethane	0.5	ND
Trichloroethene	0.5	ND
Trichlorofluoromethane	0.5	ND
1,1,2-Trichlorotrifluoroethane	0.5	ND
Vinyl Chloride	1	ND
Total Xylenes	0.5	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	114
1,2-Dichloroethane-d4	107
Toluene-D8	99
4-Bromofluorobenzene	102

ND = Not detected at the indicated reporting limit.

14148 E. Firestone Blvd., Santa Fe Springs,CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHAIN OF CUSTODY RECORD

C & E Laboratories, Inc.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 9100-1C

Company Name: IRC
Project Manager: Al Fugn
Project No./Name: 7115/Universal So
Tel: Fax:
Site Address: 1551 E. Orangethorpe Ave. Fullerton, CA
Sampled By: Greg Flood

Page 1 of 1
Sample Conditions: __ Chilled __ Seals Intact
Turn Around Time Desired: (Normal) / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	8015M TPH-G	8015M TPH-D	8021B BTEX MTBE	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD		
1	outlet	10/1/09	11:30	air	1 Bag						X					
2	inlet		11:32													
3	VEW 3-5		11:40													
4	VEW 3-15		11:42													
5	VEW 3-25		11:44								X					

Relinquished By:	Date/Time:	Received By:	Date/Time:	EDF Required: (circle) Yes No
Greg Flood	10/1/09 1:00	Mary Z	10/1/09	EDF Global ID No.: T
Relinquished By:	Date/Time:	Received By:	Date/Time:	Comments:

APPENDIX B

SYSTEM OPERATION
FIELD NOTES

RESTART

7115 universal fullerton 2009				date/notes	5/13/09	5/22/09	5/27/09	6/1/09
Total Time-on/pos/off	38179	792	-37387	meter reading				
Total up time	per week = 168			hours	7305.5	7521.5	7639.2	7760.0
Possible up time	this week			days	7	9.0	5.0	5.0
Possible up time	this week			hours	168	216.0	120.0	120.0
System	Arrival Status			ON/OFF				
Blower	Amps L			A	17	17.0	17.0	17.0
	Amps R			A		17.0	17.0	17.0
Temperature	Carbon Inlet <140			Deg F				
VES Concentrations	Inlet			ppm				
	Outlet <75ppm			ppm				
Source	Flow <200			fpm	952	987.0	1025.0	1078.0
Manifold	Vacuum			"wc	94.5	90.0	87.5	81.2
Pump	Vacuum			"Hg				
Manifold	Temp F			F				
	Electric Meter			KWh				
	this week			KWh		0.0	0.0	0.0
Carbon Vessels	Pressure			psi C#1				
	Pressure			psi C#2				
	Pressure			psi C#3				
	Pressure			psi C#4				
Well's	VEW3-5a			flow fpm				4775.0
Open	VEW3-15a			flow fpm				941.0
	VEW3-25a			flow fpm				953.0

	6/8/09	6/15/09	6/22/09	6/29/09	7/9/09	7/15/09	7/21/09
	7952.3	8097.2	8263.8	8431.9	8671.1	8817.5	8960.1
	7.0	7.0	7.0	7.0	10.0	6.0	6.0
	168.0	168.0	168.0	168.0	240.0	144.0	144.0
	17.0	16.5	16.5	16.5	16.5	16.5	16.5
	17.0	16.5	16.5	16.5	16.5	16.5	16.5
	1152.0	1259.0	1090.0	1205	1207	1212	1211
	80.2	79.4	79.1	80	79.2	79.3	79.2
	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				6191.0			
				1057.0			
				963.0			

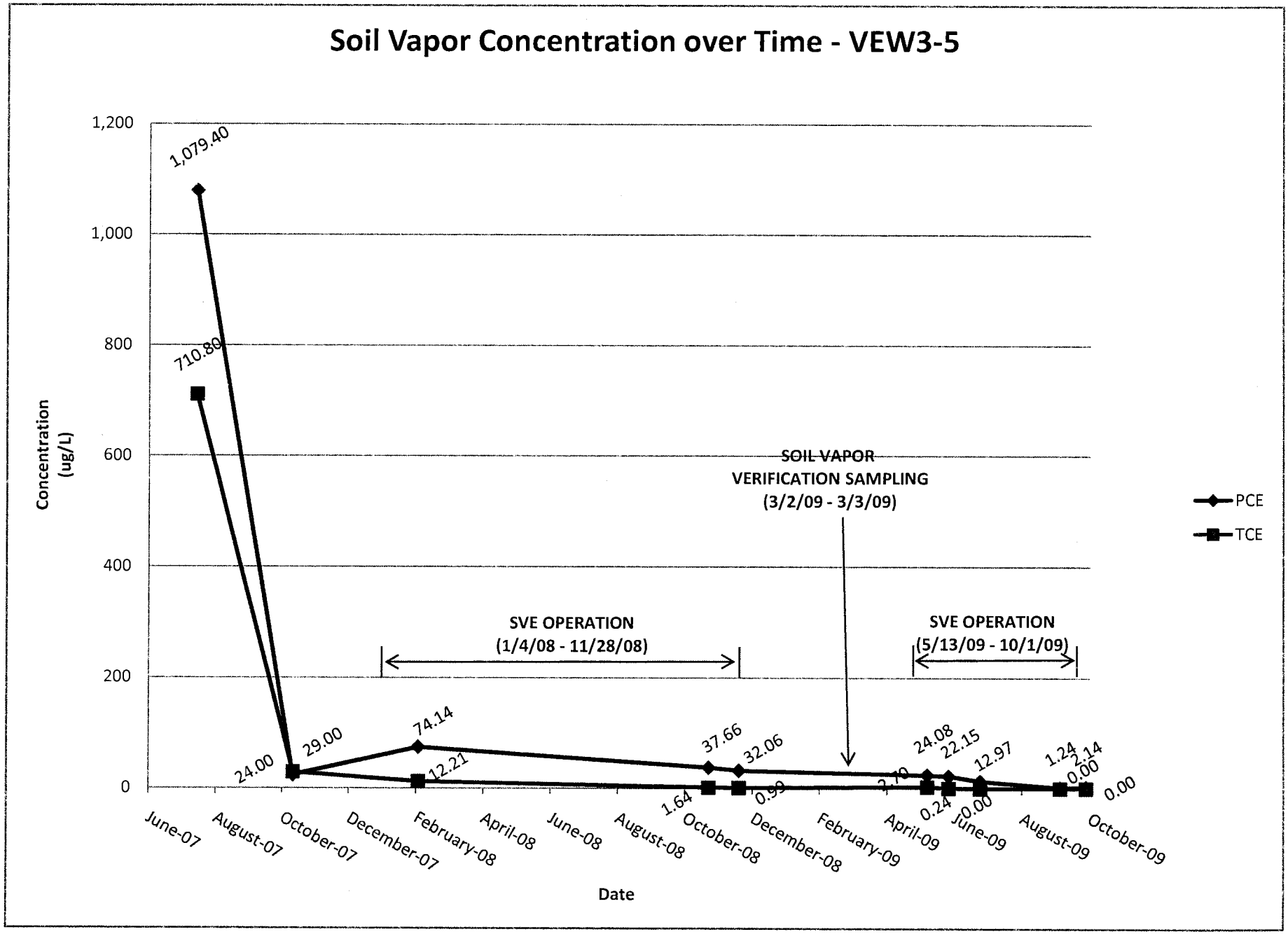
7/28/09	8/4/09	8/11/09	8/21/09	8/28/09	9/3/09	9/8/09	
9127.7	9294.7	9464.8	9703.0	9832.0	9891.0	9966.7	
7.0	7.0	7.0	10.0	7.0	6.0	5.0	
168.0	168.0	168.0	240.0	168.0	144.0	120.0	
18.0	18.0	18.0	18.0	18.0	18.0	18.0	
18.0	18.0	18.0	18.0	18.0	18.0	18.0	
1241	1147	1233	1178	1233	1390	1285	
125.5	129.8	125.6	125.7	128	126	127	
0.0	0.0	0.0	0.0	0.0	0.0	0.0	
		1869.0				2363.0	
1368.0	1146.0	1007.0				1453.0	
1272.0	1217.0	1042.0				1431.0	

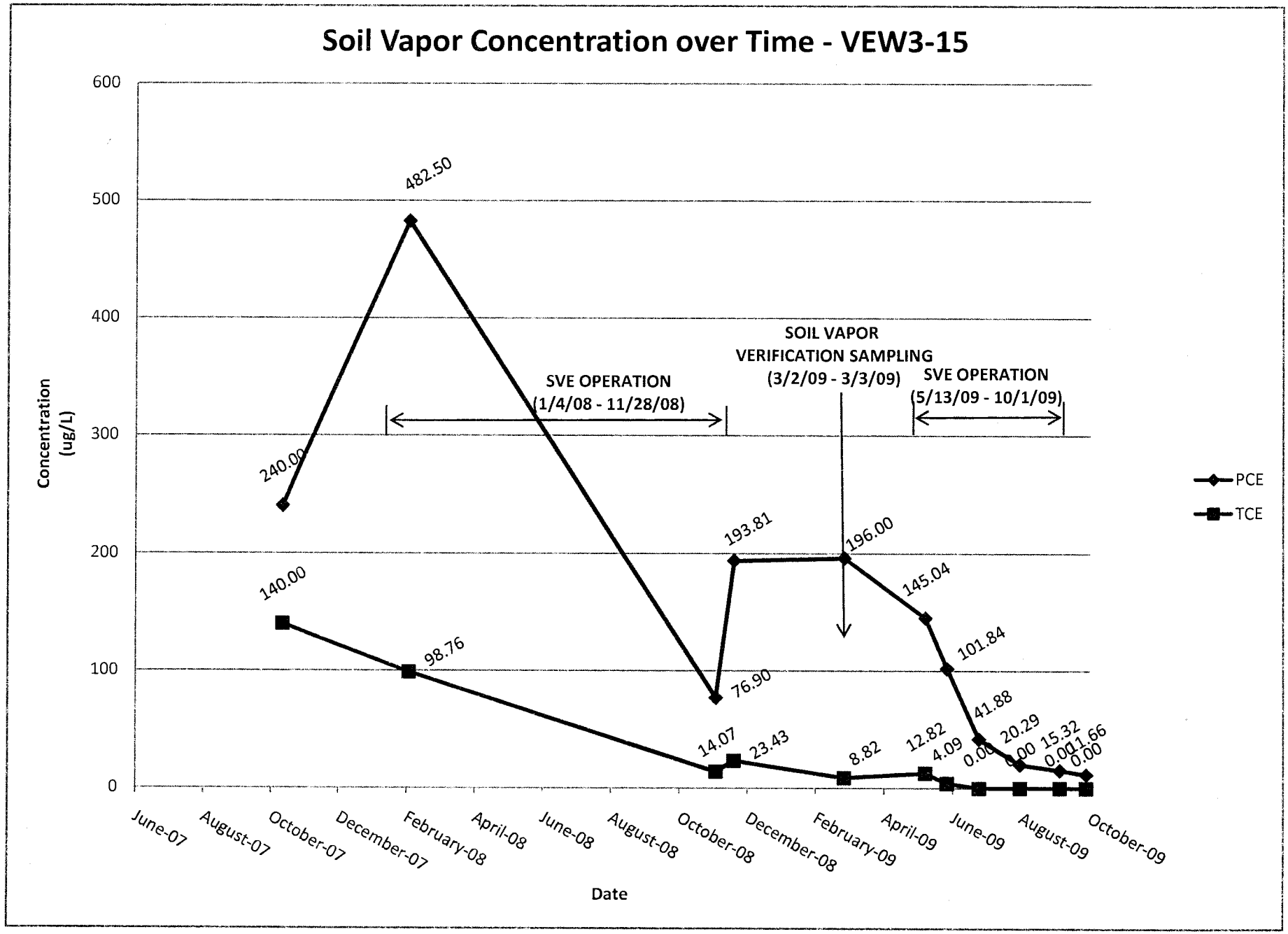
9/17/09	9/24/09	10/1/09
10182.0	10302.1	10471.2
9.0	7.0	7.0
216.0	168.0	168.0
18.0	18.0	18.0
18.0	18.0	18.0
1224	1257	1248
130	124	129
0.0	0.0	0.0
		1852.0
		1015.0
		1039.0

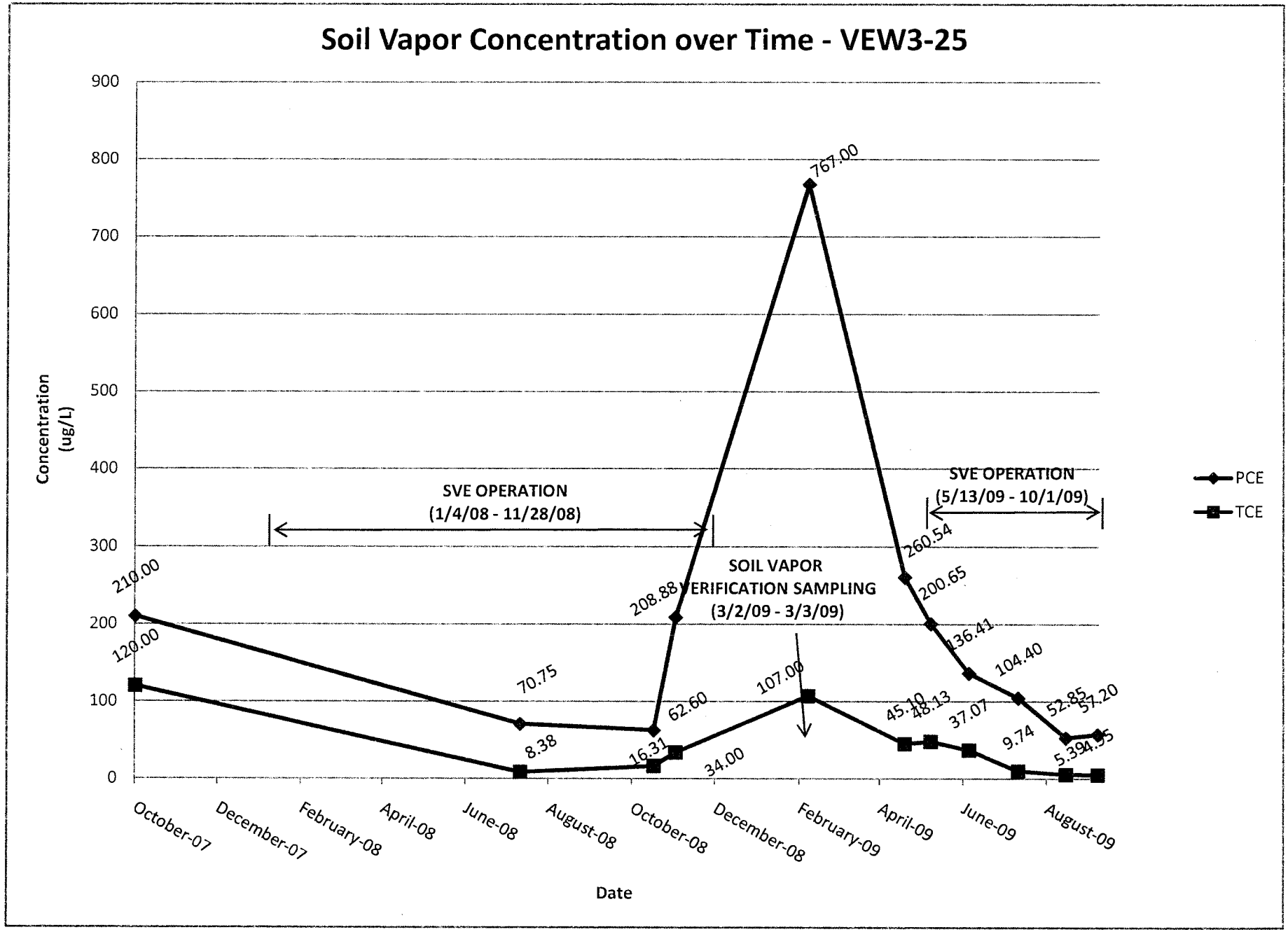
TURNED - OFF

APPENDIX C

SOIL VAPOR CONCENTRATIONS OVER TIME

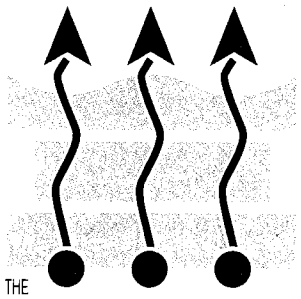

Soil Vapor Concentration over Time - VEW3-5
Concentration (ug/L)
1,200
1,000
800
600
400
200
0
1,079.40
710.80
24.00
29.00
74.14
12.21
37.66
32.06
1.64
0.99
24.08
22.15
12.97
2.10
0.24
0.00
1.24
2.14
0.00
0.00
SOIL VAPOR
VERIFICATION SAMPLING
(3/2/09 - 3/3/09)
SVE OPERATION
(1/4/08 - 11/28/08)
SVE OPERATION
(5/13/09 - 10/1/09)
PCE
TCE
June-07
August-07
October-07
December-07
February-08
April-08
June-08
August-08
October-08
December-08
February-09
April-09
June-09
August-09
October-09
Date


Soil Vapor Concentration over Time - VEW3-15
Concentration (ug/L)
600
500
400
300
200
100
0
SVE OPERATION (1/4/08 - 11/28/08)
SOIL VAPOR VERIFICATION SAMPLING (3/2/09 - 3/3/09)
SVE OPERATION (5/13/09 - 10/1/09)
PCE
TCE
240.00
482.50
140.00
98.76
76.90
193.81
196.00
145.04
101.84
41.88
20.29
15.32
1.66
14.07
23.43
8.82
12.82
4.09
0.00
June-07
August-07
October-07
December-07
February-08
April-08
June-08
August-08
October-08
December-08
February-09
April-09
June-09
August-09
October-09
Date


Soil Vapor Concentration over Time - VEW3-25
Concentration (ug/L)
900
800
700
600
500
400
300
200
100
0
SVE OPERATION (1/4/08 - 11/28/08)
SOIL VAPOR VERIFICATION SAMPLING (3/2/09 - 3/3/09)
SVE OPERATION (5/13/09 - 10/1/09)
PCE
TCE
210.00
120.00
70.75
8.38
208.88
62.60
16.31
34.00
767.00
107.00
260.54
200.65
136.41
104.40
52.85
57.20
45.10
48.13
37.07
9.74
5.39
4.55
October-07
December-07
February-08
April-08
June-08
August-08
October-08
December-08
February-09
April-09
June-09
August-09
Date

APPENDIX D

HEALTH & SAFETY



SITE SPECIFIC HEALTH & SAFETY PLAN

Soil Vapor Probe Installation and Verification Vapor Sampling

at

Fullerton Business Park
1551 Orangethorpe Avenue
Fullerton, California

Tel 714-730-5397

PO Box 1996, Tustin, California 92781-1996
www.reynolds-group.com

Fax 714-730-6476

INTRODUCTION

The Reynolds Group (TRG) was engaged to install soil vapor probes and perform vapor verification sampling at 1551 Orangethorpe Avenue in Fullerton, California (the Site).

KEY PERSONNEL AND RESPONSIBILITIES

Following are key assignments for this project:

ASSIGNMENT	RESPONSIBLE PARTY
Project Manager:	Alejandro Fuan
Project Site Safety Officer:	Al Fuan, Angel Cardoza
Office Health and Safety Manager:	Ed Reynolds

The Project Manager (PM) has overall responsibility for field development and implementation of this Health and Safety Plan (HASP). The PM assigns health and safety related duties and responsibilities only to qualified individuals. Before anyone enters the work area, they must meet the requirements of 29 CFR 110.120 for medical examination and health and safety training.

The Project Site Safety Officer (PSSO), who must be on-site during all work activities, will be responsible for on-site health and safety activities. The PSSO has stop-work authorization that he will exercise when he perceives an imminent safety hazard, an emergency situation, or any other potentially dangerous situations, such as extreme weather conditions. If the PSSO stops work for a safety-related issue, work cannot begin again until approved by the OHSM. In an emergency, the PSSO will arrange for emergency support services when needed.

GENERAL SAFETY REQUIREMENTS

Continuous air monitoring for worker safety and regulatory compliance will be conducted using a photoionization detector (PID) or flame-ionization detector (FID) a minimum of every 15 minutes during the entire operation, unless directed otherwise by the appropriate regulatory agency officer(s) present on site.

Monitoring equipment, including PID/FID and CG/O2 meter, will be calibrated daily and calibration logs will be maintained on-site and made available upon request.

All on-site personnel operating within the work zone will show proof of current 40-hour hazardous waste operations training upon request.

Cellular telephones/radios will be available on-site at all times during work for communication in the event of an emergency.

HAZARD EVALUATION

The following is an evaluation of the hazards which might be associated with this project and the countermeasures which should be taken to remediate these hazards:

Exposure

POTENTIAL CHEMICALS:

The most likely chemical compounds to be encountered during this survey are petroleum fuel hydrocarbons, found typically in oil field operations.

ASSOCIATED HAZARD:

PCE / TCE:	Enters your body when you breathe its vapors or through the skin it can affect the central nervous system, harm the eyes, nose, throat, lungs, heart, liver, kidneys, and immune system and has been shown to cause cancer.

EXPOSURE PROBABILITY AND LIKELY CONSEQUENCE:

A low hazard level exists where there is no contact with the chemicals, when low concentrations are encountered, or when proper protection is worn.

COUNTERMEASURES:

- When OVM reading is less than 50 ppm above background level wear Level D protection;
- When OVM reading is above 100 ppm for greater that 15 minutes wear Level C protection;
- When OVM reading is above 1000 ppm cease work operations until level decreases.

Fire and Explosion

POTENTIAL FOR FIRE OR EXPLOSION:

Workers may encounter fire or explosion hazards on this project. Fire or explosion could occur by rupturing an underground gas line or if digging through soil that contains high concentrations of fuel hydrocarbons.

EXPOSURE PROBABILITY AND LIKELY CONSEQUENCE:

Low probability with moderate consequence.

COUNTERMEASURES:

Seek information about possible underground obstructions from knowledgeable individuals before excavating. Note if Dig Alert has marked the site for underground lines (see Section 3.11).

Oxygen Deficiency

On-site workers are not likely to encounter an oxygen deficiency. Workers will not enter confined spaces on this project.

Ionizing Radiation

On-site workers are not likely to encounter radioisotopes or other hazardous ionizing radiation on this site.

Biologic Hazards

On-site workers are not likely to encounter biologic hazards on this site.

Safety Hazards

On-site workers may encounter physical safety hazards on this site. Work operations include:

- working near moving, powered machinery;
- slips, strains, trips, and falls;
- moving and lifting of heavy objects;
- use of hand tools, and
- use of motor vehicles.

COUNTERMEASURES:

Use experienced on-site persons. Wear hard-toed shoes and approved hard hats. Heighten worker awareness with a tailgate safety session for all on-site workers at the start of work each day. Maintain all equipment (including safety devices) in proper operation condition. Never leave an open excavation unattended.

Electrical

On-site workers could encounter electrical hazards on this site if the front loader contacts overhead power lines, if subsurface work encounters buried live electrical lines, if poor weather conditions exist, or equipment is not properly grounded.

COUNTERMEASURE:

Be sure not to raise the front loader in proximity to overhead power lines. Work shall cease if bad weather conditions exist. Equipment shall be grounded. Seek information about possible underground lines from knowledgeable individuals before excavating. Note if Dig Alert has marked the site for underground lines (see Section 3.11).

Heat Stress

There will be a low likelihood that on-site workers may encounter heat stress on this project. Workers will be wearing Tyvek suits and ambient temperature will likely be in the low-to mid-eighties.

COUNTERMEASURES:

Heighten worker awareness about heat stress at daily tailgate safety session. Monitor heart rate at break time. If heart rate exceeds 110 beats per minute, cut work period by one-third. Provide and encourage drinking of water and juices at the job site.

Cold Exposure

On-site workers are not likely to encounter cold exposure on this project.

Noise

On-site workers will likely encounter excessive noise levels from operation of the heavy equipment.

COUNTERMEASURE:

Workers will wear hearing protection around the backhoe and whenever they have trouble conversing in normal tones at a distance of about five feet.

Underground Lines

Every effort will be made to determine if underground lines exist beneath the site. Dig Alert will be contacted at least two working days prior to the commencement of work. **Dig Alert #A-900145**

SITE CONTROL

For control purposes, the work area consists of a 160-foot area around the backhoe. It is open and workers will enter and leave the site with care. Smoking, eating, and drinking are prohibited in the immediate work area. The PSSO will exclude casual observers from the work area and will be on-site during work operations.

EMERGENCY RESPONSE PLAN

Following are emergency names, phone numbers, and contacts:

Police	911
Fire Department	911
Ambulance	911
Emergency Hospital 1111 West La Palma Ave. Anaheim, CA 92801	(714) 744-1450
The Reynolds Group 520 West First Street Tustin, CA 92780	(714) 730-5397
Closest Phone for Emergencies:	Cellular Phones
Project Manager (24 Hours):	Alejandro Fuan – (714)920-9312

Medical Emergencies:

For emergencies requiring ambulance service, call 911 for transportation of injured to hospital. Life-flight is available and can be obtained when calling 911.

Nearest Hospital:

See Attached Map

Emergency Decontamination:

In a medical emergency, personnel decontamination is of lesser importance than medical attention. Alert paramedics or emergency room attendants about the potential for contamination.

The undersigned have read and will comply with the Health and Safety Plan for the Universal Fullerton Property soil vapor probes and vapor sampling.

REPRESENTING	NAME	SIGNATURE	DATE

THE REYNOLDS GROUP
A California Corporation by:

F. Edward Reynolds, Jr., P.E.

Google Maps

Start **1551 E Orangethorpe Ave**
Fullerton, CA 92831
End **1111 W La Palma Ave**
Anaheim, CA 92801
Travel **2.7 mi – about 8 mins**

Save trees. Go green!
Download Google Maps for mobile
Text maps to 466453

1551 E Orangethorpe Ave
Fullerton, CA 92831
Drive: 2.7 mi – about 8 mins

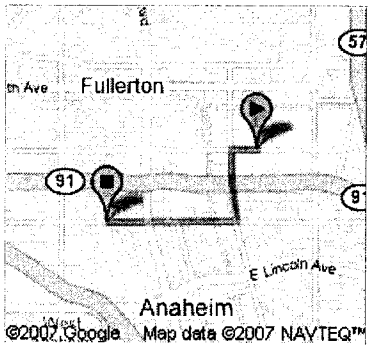
1.	Head **west** on **E Orangethorpe Ave** toward **Manhattan Ave**	0.3 mi
← 2.	Turn **left** at **S Raymond Ave**	0.4 mi 2 mins
3.	Continue on **N East St**	0.5 mi 1 min
→ 4.	Turn **right** at **E La Palma Ave**	1.5 mi 5 mins

1111 W La Palma Ave
Anaheim, CA 92801

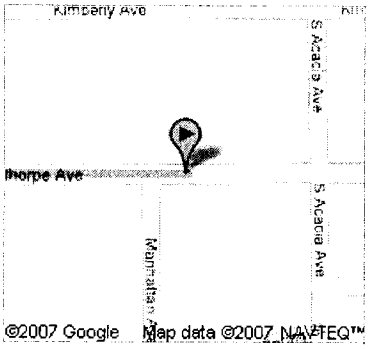
These directions are for planning purposes only. You may find that construction projects, traffic, or other events may cause road conditions to differ from the map results.

Map data ©2007 NAVTEQ™

Overview



Start



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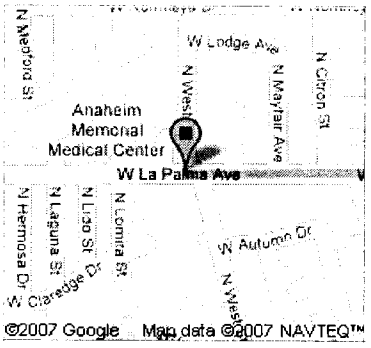

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APPENDIX A

HAZWOPPER TRAINING CERTIFICATES FOR PM AND PSSO

ETAC

ENVIRONMENTAL TRAINING AND COMPLIANCE

CERTIFICATE OF COMPLETION

8 HOUR REFRESHER

HEALTH & SAFETY TRAINING

Alejandro Fuan

has successfully completed the 8-Hour Refresher Health and Safety Training course, satisfying the OSHA Hazardous Waste Operators and Emergency Response Standard [29 CFR 1910.120(e)(8),(q)(8) and 8 CCR 5192 (e)(q)].

Class Date: March 13, 2009
Expiration: March 13, 2010

Certificate # 29277-5

Joseph T. Thompson, MPH

2111 W Crescent Ave, Suite B • Anaheim, CA 92801 • Phone: 800-949-4473

ENVIRONMENTAL TRAINING AND COMPLIANCE

CERTIFICATE OF COMPLETION

8 HOUR REFRESHER

HEALTH & SAFETY TRAINING

Angel Cardoza

has successfully completed the 8-Hour Refresher Health and Safety Training course, satisfying the OSHA Hazardous Waste Operators and Emergency Response Standard [29 CFR 1910.120(e)(8),(q)(8) and 8 CCR 5192 (e)(q)].

Class Date: March 13, 2009
Expiration: March 13, 2010

Certificate # 29277-8

Joseph T. Thompson, MPH

2111 W Crescent Ave, Suite B • Anaheim, CA 92801 • Phone: 800-949-4473

ENVIRONMENTAL TRAINING AND COMPLIANCE

CERTIFICATE OF COMPLETION

8 HOUR REFRESHER

HEALTH & SAFETY TRAINING

Frank Edward Reynolds Jr

has successfully completed the 8-Hour Refresher Health and Safety Training course, satisfying the OSHA Hazardous Waste Operators and Emergency Response Standard [29 CFR 1910.120(e)(8),(q)(8) and 8 CCR 5192 (e)(q)].

Class Date: March 13, 2009
Expiration: March 13, 2010

Certificate # 29277-1

Joseph T. Thompson, MPH

2111 W Crescent Ave, Suite B • Anaheim, CA 92801 • Phone: 800-949-4473

APPENDIX B

CALIBRATION TECHNIQUES

		95	Number
		Page 1 OF 1	Revision 3-19-96

SUBJECT: CALIBRATION PROCEDURE MINIRAE

1. Follow steps 1 through 4 of the standard operation procedure titled "Normal Operations".

2. Depress the (MENU) key repeatedly until (CO x.x) is displayed. This is the zero calibration menu. You will attach the organic vapor zeroing kit to the intake of the sample probe and let it flow for 30 seconds. After 30 seconds you will depress the (ENTER) key to set the zero value. You should now have (CO 0.0) on the display.

3. Depress the (MENU) key 1 time to go to the calibration menu. Your display should now have (Clu xxx.x) where xxx.x is the value of the calibration gas you are using.

4. The first digit is flashing and if you need to change this value, just use the up or down arrow key to increment or decrement the value. Once the correct value is entered for the first digit, you will depress the (ENTER) key to move to the second digit.

5. Repeat step 5 unit all digits match the value of your calibration gas.

6. When you depress (ENTER) for the last digit, it takes you to the "GAS ON" screen. You will now attach a Tedlar sample bag filled with the Isobutylene calibration gas and depress the (ENTER) key.

7. The display will now show "Cal..." Wait until the display shows "C1 xxx.x" where xxx.x is equal to the calibration gas that is attached to the inlet.

8. Depress the (MENU) key until you get back to the instantaneous ppm display. The readings should be very close to that of the calibration gas you have just calibrated to.

9. Remove the bag of Isobutylene calibration gas from the sample inlet probe. The readings should fall back towards zero. It is no unusual to get some background readings on the display at this time.

10. Follow the standard operation procedure titled "Quality Control Procedure" to ensure the unit passes the Q.C. check and is ready for rental.

APPENDIX C

MATERIAL SAFETY DATA SHEETS (MSDS)

Material Safety Data Sheet

[Home] [Manufacturer] [Part Number] [NSN] [Help]

SECTION I - Material Identity

Item Name	VOLATILES COALIBRATION CHECK COMPOUNDS MIXTURE CLP-110
Part Number/Trade Name	VOLATILES CALIBRATION CHECK COMPOUNDS MIXTURE CLP-120
National Stock Number	6810PCLP120V
CAGE Code	0MU35
Part Number Indicator	A
MSDS Number	180475
HAZ Code	B

SECTION II - Manufacturer's Information

Manufacturer Name	ULTRA SCIENTIFIC
Street	250 SEITH STREET
City	NORHT KINGSTOWN
State	RI
Country	US
Zip Code	02852
Information Phone	401-294-9400

MSDS Preparer's Information

Date MSDS Prepared/Revised	20NOV96
Active Indicator	N

Alternate Vendors

SECTION III - Physical/Chemical Characteristics

Appearance/Odor	LIQUID
Boiling Point	147F
Vapor Pressure	100MMHG
Vapor Density	1.1
Specific Gravity	.7910
Solubility in Water	SOLUBLE
Container Pressure Code	4
Temperature Code	8
Product State Code	L

SECTION IV - Fire and Explosion Hazard Data

Flash Point Method	UNK
Lower Explosion Limit	6.7
Upper Explosion Limit	36.0
Extinguishing Media	CARBON DIOXIDE, DRY CHEMICAL POWDER, OR WATER SPRAY.

SECTION V - Reactivity Data

Stability	YES
Materials to Avoid	STRONG OXIDIZERS
Hazardous Decomposition Products	N/A
Hazardous Polymerization	NO
Polymerization Conditions to Avoid	WILL NOT OCCUR

SECTION VI - Health Hazard Data

Route of Entry: Skin	YES
Route of Entry: Ingestion	YES
Route of Entry: Inhalation	YES
Health Hazards - Acute and Chronic	ALL CHEMICALS SHOULD BE CONSIDERED HAZARDOUS - DIRECT PHYSICAL CONTACT SHOULD BE AVOIDED.
Explanation of Carcinogenity	THIS CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.
Emergency/First Aid Procedures	EYE/SKIN:FLUSH WITH COPIOUS AMOUNTS OF WATER. IF INHALED, REMOVE TO FRESH AIR - GIVE OXYGEN, IF NECESSARY.CONTACT PHYSICAN.

SECTION VII - Precautions for Safe Handling and Use

Steps if Material Released/Spilled	A LEAKING AMPULE OR BOTTLE MAY BE PLACED N A PLASTIC BAG AND NORMAL DISPOSAL PROCEDURES FOLLWED.LIQUID SAMPLES MAY BE ABSORBED ON VEREITULITE OR SAND.
Waste Disposal Method	IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULAIONS.
Handling and Storage Precautions	KEEP TIGHLTY CLOSED AND STORE IN A COOL DRY PLACE
Other Precautions	THIS SHOULD ONLY BE USED BY THOSE PERSONS TRAINED IN THE SAFE HANDLING OF HAZARDOUS CHEMICALS.

SECTION VIII - Control Measures

Respiratory Protection	OSHA/MSMA APPROVED SAFETY EQUIPMENT.
Protective Gloves	GLOVES
Eye Protection	CHEM GOGGLES/FACE SHIELD
Other Protective Equipment	CHEM RISISTNAT CLOTHING SUCH AS A LAB COAT AN/OR RUBBER APRON.
Disposal Code	O

SECTION IX - Label Data

Protect Eye..... YES
Protect Skin..... YES
Protect Respiratory..... YES
Chronic Indicator..... UNKNOWN
Contact Code..... MODERATE
Fire Code..... UNKNOWN
Health Code..... UNKNOWN
React Code..... UNKNOWN

SECTION X - Transportation Data

Container Quantity..... 12
Unit of Measure..... ML

SECTION XI - Site Specific/Reporting Information

Volatile Organic Compounds (P/G)..... 6.6005
Volatile Organic Compounds (G/L)..... 791

SECTION XII - Ingredients/Identity Information

Ingredient #..... 01
Ingredient Name..... METHYL ALCOHOL
CAS Number..... 67561
Proprietary..... NO
Percent..... 98.4829
OSHA PEL..... 200PPM
ACGIH TLV..... 200PPM
Ingredient #..... 02
Ingredient Name..... 1,1-DICHLORETHENE
CAS Number..... 75354
Proprietary..... NO
Percent..... .2528
ACGIH TLV..... 5PPM
Ingredient #..... 03
Ingredient Name..... BENZENE, CHLORO-
CAS Number..... 108907
Proprietary..... NO
Percent..... .2528
OSHA PEL..... 75PPM
ACGIH TLV..... 10PPM
Ingredient #..... 04
Ingredient Name..... BROMAFORE
CAS Number..... 75252
Proprietary..... NO

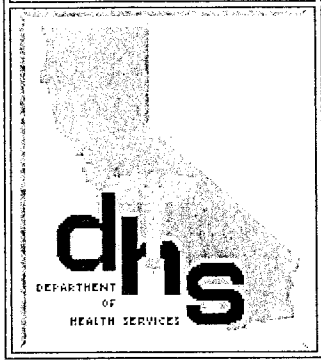
Percent..... .2528
OSHA PEL..... .5PPM
ACGIH TLV..... .5PPM
Ingredient #..... 05
Ingredient Name..... CHLOROESTHANE
CAS Number..... 74873
Proprietary..... NO
Percent..... .2528
OSHA PEL..... 100PPM
ACGIH TLV..... 50PPM
Ingredient #..... 06
Ingredient Name..... 1,1,2,2-TETRACHLORETHANE
CAS Number..... 79345
Proprietary..... NO
Percent..... .2528
OSHA PEL..... 5PPM
ACGIH TLV..... 1PPM

NOTICE: For additional information, contact BIOENVIRONMENTAL

HMMS Intranet - 30 Jan 2006 16:50 - web_msds.display - Visit the Official HMMS Website at www.hmms.com

TCE

Revised December 1997

Fact Sheet	
	**Hazard Evaluation System and Information Service** 850 Marina Bay Parkway Building P, 3rd Floor Richmond, CA 94804 (866) 282-5516

Trichloroethylene (TCE)

HEALTH HAZARD SUMMARY
HOW TO KNOW IF YOU ARE WORKING WITH TRICHLOROETHYLENE
YOUR RIGHT TO KNOW
HOW TRICHLOROETHYLENE ENTERS AND AFFECTS YOUR BODY
TESTS FOR EXPOSURE AND MEDICAL EFFECTS
LEGAL EXPOSURE LIMITS
REDUCING YOUR EXPOSURE

Health Hazard Summary: Trichloroethylene mainly affects the central nervous system (the brain), causing headache, nausea, dizziness, clumsiness, drowsiness, and other effects like those of being drunk. TCE can also damage the facial nerves, and it can cause skin rash. Heavy exposure can damage the liver and kidneys. TCE causes cancer in animals and may cause cancer in humans.

HOW TO KNOW IF YOU ARE WORKING WITH TRICHLOROETHYLENE

TCE is sometimes called by other names, such as trichloroethene, ethylene trichloride, or ethinyl trichloride. It is sold under many different brand names, such as Tri-Clene, Trielene, Trilene, Trichloran, Trichloren, Algylen, Trimar, Triline, Tri, Trethylene, Westrosol, Chlorylen, Gemalgene, and Germalgene.

TCE looks like water and has a sweet odor like chloroform. It is mainly used in metal degreasing. It is also used as a raw material to make other chemicals, as a cleaner in electronics manufacturing, and for all sorts of general solvent purposes such as in paints, paint strippers, and adhesives. It has also been used as a low-temperature refrigerant and as a grain fumigant, and is still sometimes used in dry cleaning. It is no longer commonly used as a medical anesthetic gas.

Your Right To Know: Under California's Hazard Communication Standard (Cal/OSHA regulation GISO 5194), your employer must tell you if you are working with any hazardous substances, including TCE, and must train you to use them safely.

If you think you may be exposed to hazardous chemicals at work, ask to see the Material Safety Data Sheets (MSDSs) for the products in your work area. MSDSs can be very hard to read, and sometimes they are out of date or inaccurate or they leave out important information, but the MSDS should at least tell you what's in the product. An MSDS lists the hazardous chemicals in a product, describes its health and safety hazards, and gives methods for its safe use, storage, and disposal. An MSDS should also include information on fire and explosion hazards, chemical reactivity, first aid, and methods for handling leaks and spills. Your employer must have an MSDS for any workplace product that contains a hazardous substance, and must make the MSDS available to employees on request. The MSDS for a product that contains TCE should identify it in Section 2 by the CAS number 79-01-6.

HOW TRICHLOROETHYLENE ENTERS AND AFFECTS YOUR BODY

TCE enters your body when you breathe its vapors in the air. TCE can also be absorbed through your skin, especially with lengthy skin contact or if your skin is cut or cracked.

Overexposure to TCE mainly affects the central nervous system (the brain). Other symptoms can also occur, as described below.

TCE belongs to a large class of chemicals called organic solvents. Alcohols, acetone, methyl ethyl ketone, trichloroethane, methylene chloride, benzene, toluene, and xylene are just a few other examples of organic solvents. Most organic solvents share the same basic set of health effects, although some solvents also cause specific effects of their own.

Nervous System: Like most organic solvents, TCE can affect your brain the same way drinking alcohol does, causing headache, nausea, dizziness, clumsiness, drowsiness, and other effects like those of being drunk. This can increase your chances of having accidents. The effects of short-term overexposure usually clear up within a few hours after you stop being exposed. As your exposure level increases or you are exposed for a longer time, the effects get stronger, occur more quickly, and last longer. Drinking alcohol within a few hours of exposure will increase these effects and make them last longer. Very high exposures to TCE can cause a person to pass out, stop breathing, and die.

Most experts believe that repeated, frequent overexposure to organic solvents in general, over months or years, can have long-lasting and possibly permanent effects on the nervous system. The symptoms include fatigue, sleeplessness, poor coordination, difficulty in thinking, loss of short-term memory, and personality changes such as depression, anxiety, and irritability. We don't know how much exposure it takes to cause these effects, and these effects have not been studied in workers exposed only to TCE.

Unlike most other solvents, TCE can damage the nerves of the face. Vision, smell, taste, and sometimes control of the muscles of the face and mouth can be impaired. There is some evidence that hearing might also be affected. The most obvious cases result from short-term high exposure, although effects may not appear until hours or even as much as two days after the exposure. Long-term lower-level exposure may also cause less obvious damage. TCE can also damage the nerves of the arms and legs, causing tingling, loss of feeling, weakness, and paralysis. The effects are probably caused by contaminants, rather than by TCE itself, but those contaminants are usually present.

Skin: TCE, like other organic solvents, can dissolve your skin's natural protective oils. Frequent or prolonged skin contact can cause irritation and dermatitis (skin rash), with dryness, redness, flaking, and cracking of the skin. TCE can be absorbed into the body slowly through healthy skin, or rapidly through damaged skin. TCE quickly penetrates most ordinary clothing (see Personal Protective Equipment) and can get trapped in gloves and boots; such exposure can cause burns and blistering.

Eyes, Nose, and Throat: TCE vapor in the air can irritate your eyes, nose, and throat. Liquid TCE splashed in the eye can sting, but any damage to the eye usually heals within a few days.

Lungs: Exposure to TCE at high levels can irritate the lungs, causing chest pain and shortness of breath. Extreme overexposure (for example, inside an enclosed or confined space such as a degreasing tank) can cause pulmonary edema, a potentially life-threatening condition in which the lungs fill with fluid. However, there is no evidence that repeated, low-level exposure has any long-term effects on the lung.

Heart: Extremely high concentrations of TCE or other chlorinated solvents can cause heart fibrillation (irregular heartbeats) that can cause sudden death.

Liver and Kidneys: At very high levels of exposure such as might occur in an enclosed space or during a spill TCE can injure the liver and kidneys. Liver or kidney damage is rare; it's not at all likely to happen without substantial effects on the nervous system first, and it's not likely to happen if exposures are kept within the legal workplace limits. Generally, such liver or kidney damage is not permanent. However, long-term exposure can contribute to liver damage from drinking alcohol.

Immune System: There have been reports of certain rare immune diseases such as systemic sclerosis (scleroderma) and lupus erythematosus among people exposed to TCE, but there has been no good study to show whether TCE is actually related to any immune system disorder.

Cancer: TCE causes cancer in mice, and there is some evidence that it may also be a weak carcinogen in rats. Humans exposed to TCE have not been studied well enough to give much information, but the human studies also suggest that TCE may cause cancer. You should treat TCE as a likely cause of human cancer.

Genetic Changes: There are many ways to test whether a chemical causes genetic mutations. In most tests, TCE causes little or no mutation.

Reproductive System: Several animal studies and at least one human study have suggested that TCE might cause birth defects, loss of the fetus, or impaired growth and performance of the offspring. However, there has been very little consistency among the tests; each experimenter has tended to get results very different from those of other experimenters, and most tests find little or no effect on pregnancy. You should treat TCE as a possible hazard to pregnancy.

Other: People who drink alcohol and breathe TCE vapors at nearly the same time can develop degreaser's flush, a reddeing of the face, shoulders, and back that usually goes away within an hour or so after exposure stops.

TESTS FOR EXPOSURE AND MEDICAL EFFECTS

There are ways to measure the amount of TCE in your body. Unlike many other organic solvents, TCE's breakdown products remain in the body for up to three weeks, so testing does not necessarily have to be done right after exposure. Biological Exposure Indexes have been developed to help interpret the various types of test results. However, because people vary greatly, these tests are mainly useful for evaluating groups of exposed workers, not individual workers. There are also other tests to look for certain unusual specific health effects. A health care provider can select specific tests on a case-by-case basis to evaluate chemical exposure and its effects. HESIS physicians can provide advice for such medical evaluations. However, routine testing is not recommended or required.

If symptoms such as memory loss, confusion, and mood changes occur, neuropsychological testing may be useful.

It is generally recommended that workers who are regularly exposed to hazardous substances get a complete physical examination, including an occupational and medical history, at the beginning of their employment. They should also have periodic follow-up examinations.

LEGAL EXPOSURE LIMITS

California's Division of Occupational Safety and Health (Cal/OSHA) sets and enforces standards for workplace chemical exposure. Cal/OSHA sets Permissible Exposure Limits (PELs) for the amounts of certain chemicals in workplace air. The PELs are intended to protect the health of a person who is exposed every day over a working lifetime.

Cal/OSHA's PEL for TCE is 25 parts of TCE per million parts of air (25 parts per million, or 25 ppm). This is equal to about 135 milligrams of TCE per cubic meter of air (135 mg/m3). Legally, your exposure may be above 25 ppm at times, but only if it is below the PEL at other times, so that your average exposure for any 8-hour workshift is no more than 25 ppm.

There is also a Short Term Exposure Limit (STEL) of 200 ppm (1075 mg/m3), which must not be exceeded during any 15-minute averaging period, and a Ceiling Limit of 300 ppm (1612 mg/m3) that must never be exceeded for any period of time.

The American Conference of Governmental Industrial Hygienists has recommended a Short-Term Exposure Limit of 100 ppm. Cal/OSHA will probably adopt this more protective recommendation as a legal STEL in about 1998.

You should not rely on your sense of smell to warn you that you are being overexposed to TCE. TCE has fairly good warning properties; on average, people begin to smell TCE just about when the concentration in the air reaches the PEL (at about 28 ppm, on average). However, many people can smell TCE at lower levels, when they are not being overexposed; and many people cannot smell it even at much higher levels. Also, your sense of smell becomes dulled after being around TCE for a short time. Measuring the amount of a substance in the air is the only reliable way to determine the exposure level.

When two or more chemicals have similar health effects (such as TCE and other organic solvents that affect your central nervous system or irritate your eyes, nose, and throat), there are special rules (GISO 5155(c)(1)(B)) that set lower limits on your combined exposure.

If you work with TCE and think you may be over-exposed, talk to your supervisor or your union. If any worker might be exposed to a substance at more than the legal limit, the employer must measure the amount of the substance in the air in the work area (GISO 5155 (e)). You have the legal right to see the results of such monitoring relevant to your work (GISO 3204).

You also have the right to see and copy your own medical records, and records of your exposure to toxic substances. These records are important in determining whether your health has been affected by your work. Employers who have such records must keep them and make them available to you for at least 30 years after the end of your employment.

REDUCING YOUR EXPOSURE

Your employer is required to protect you from being exposed to chemicals at levels above the PELs. Cal/OSHA and Cal/OSHA Consultation Service can help you and your employer see Resources.

Substitution: The most effective way to prevent over-exposures is to use a safer chemical, if one is available. However, the health and safety hazards of substitutes must also be carefully considered, to make sure that they are actually safer. One advantage of TCE is that it does not burn or explode. One disadvantage is that TCE vapors are much heavier than air, so they can settle into pockets and depressions (such as an open degreasing tank) and reach very dangerous concentrations. TCE evaporates very quickly; in a closed container, it can build up to levels three hundred times as high as the Ceiling Limit that must never be exceeded.

Engineering Controls: When possible, employers must use engineering control methods rather than personal protective equipment to prevent overexposure. Engineering control methods include installing ventilation, changing the work process, and changing work practices. Containers, vats, and tanks should be tightly covered to prevent evaporation. Certain work processes can be isolated, enclosed, or automated to reduce exposures.

Local exhaust ventilation systems (hoods) are the most effective type of ventilation control. These systems capture contaminated air at its source before it spreads into the air in your breathing zone. The local exhaust intake should pull dirty air away from you and not towards you.

Personal Protective Equipment: When engineering controls cannot reduce exposures enough, a respirator must be worn and a respiratory protection program must be developed, as described in detail in Cal/OSHA regulations (GISO 5144). An industrial hygienist or other trained person should be consulted to ensure that the equipment is appropriate and is used correctly. An organic vapor filter cartridge can effectively filter out TCE. However, many people cannot smell TCE even when they are exposed at levels above the PEL, so they cannot tell when the cartridge has worn out. Therefore, filter respirators are not approved; a supplied-air respirator must be provided.

If frequent or prolonged skin contact with TCE cannot be avoided, or if splashing may occur, other protective equipment such as gloves, goggles, or faceshields should be worn. TCE quickly penetrates the material of most types of protective gloves and aprons; materials that may be a little more resistant include Teflon, Silvershield, chlorobutyl rubber, and possibly SBR/neoprene rubber. Even the most resistant materials can be penetrated very quickly, so protective clothing should be replaced often. If TCE penetrates gloves, it may be worse than working bare-handed, because the gloves keep the TCE from evaporating off of your skin.

TCE usually contains trace amounts of stabilizers (much less than 1% by weight) to keep it from decomposing into toxic and corrosive acidic by-products. The stabilizers usually don't change the toxicity of the product much, although certain ones may be a bit more carcinogenic than TCE itself.

Reference:
Reynolds, 2010

December 15, 2010
(TRG No. 7115)

Mr. Luis Lodrigueza
ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
1241 E. Dyer Road Suite 120
Santa Ana, CA 92705-5611

THE REYNOLDS GROUP
a California corporation

SITE: **FULLERTON BUSINESS PARK NORTH**
(FORMER OCHCA #94IC29)
1551 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

SUBJECT: **SOIL REMEDIATION STATUS SUMMARY**

Dear Mr. McFadden:

The Reynolds Group (TRG) is pleased to provide you with this *Soil Remediation Status Summary* for soil vapor extraction (SVE) remediation of residual chlorinated hydrocarbons, primarily tetrachloroethene (PCE) and trichloroethene (TCE), from subsurface soils at the subject Site (see **Figure 1** – Site Location Map).

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BACKGROUND

2008

SVE was initiated at the Site in January 2008 based on subsurface assessments performed in 2007 indicating a reduction in PCE and TCE shallow soil concentrations was required to mitigate human health risk at the Site. Concentrations up to 4,200 micrograms per liter (ug/L) of PCE and 711 ug/L of TCE were detected in shallow soils throughout the northern half of the property.

Since January 4, 2008, TRG has performed SVE from 14 double/triple-nested Vapor Extraction Wells (VEW) installed at the Site. During 2008, the SVE system consisted of a 300 cfm blower and two 1,000 lbs carbon filters in series. The wells were connected to the SVE system through an above-ground system manifold and the system operated by extracting from a different series

of wells on a rotational basis, focusing on "hot zones" to optimize extraction and maintain a good vacuum of influence. After 11 months of soil vapor extraction at the Site, soil vapor PCE and TCE concentrations declined significantly at most locations beneath the Site building to asymptotic conditions. During the 11 month period in 2008, 49.5 lbs of PCE and 6.6 lbs of TCE were removed and treated.

2009

In March, 2009, TRG performed verification sampling at the subject Site to verify that the 11 months of SVE at the Site had successfully removed the PCE and TCE in the subsurface soils to levels low enough for low risk closure consideration. Results of the verification sampling indicated that the SVE remedial efforts reduced PCE and TCE vapor concentrations notably in the shallow soils throughout most of the Site and, to a lesser degree, in soils at the northeastern end of the building, near the adjacent Former Johnson Controls Battery property (Johnson Controls). Johnson Controls is known to have released chlorinated compounds (including PCE and TCE) into the subsurface.

The significant reduction in PCE and TCE in shallow soils suggested that the Site building areas had remediated to low enough concentrations for commercial/industrial use low risk closure consideration and, thus, TRG requested that Orange County Health Care Agency (OCHCA) evaluate results of this investigation for indoor human health risk analysis and case closure.

In TRG's meeting with Luis Lodrigueza of OCHCA on May 11, 2009, Mr. Lodrigueza directed additional SVE remediation of shallow soils in the northeastern end of the building (remaining area of concern), since PCE concentrations in that area remained too high for low risk closure using OCHCA criteria (PCE up to 767 ug/L and TCE up to 107 ug/L). Mr. Lodrigueza stated that the remaining areas appeared acceptable for low risk closure.

On May 13, 2009, with Client approval, TRG restarted the SVE system, targeting the remaining area of concern by extracting from wells located in that area (nested well VEW3 at 5, 15, and 25 ft bgs). The SVE system operated through October 2009, and a second verification sampling event was proposed and approved by Mr. Lodrigueza. The second verification sampling event was performed on November 24, 2009, and results were submitted in a report to Mr. Lodrigueza. In an emailed OCHCA response on November 30, 2009, Mr. Lodrigueza reported the results of his human health risk evaluation of the second verification sampling and concluded that the residual shallow soil vapor results in the subslab locations (SV36B and SV37B) remained higher than the OCHCA acceptable risk and hazard levels.

2010

In January 2010, to target the residual PCE area TRG installed two shallow 5 ft vapor extraction wells (VEW17-5 and VEW18-5) in the vicinity of sampling location SV36B and SV37B, and resumed SVE remediation extracting from the newly installed wells until March 2010. In March 2010, TRG notified Mr. Lodrigueza to perform a third round of verification sampling at the Site as progress of the soil vapor samples collected from the target area were favorable (all "non-detect"). In response Mr. Lodrigueza requested that the third verification sampling event be scheduled at the end of April 2010, and that it include Site-wide (historical remediation area) verification sampling.

On April 27 and 28, 2010, TRG performed the third SVE remediation verification sampling in the presence of Mr. Lodrigueza. Evaluation of the soil vapor results showed that PCE concentrations in the northern building area from the subslab to 25 ft bgs were still above OCHCA's health risk threshold. As such, in July 2010, TRG resumed SVE remediation on the northern building area extracting in the area of "high" residual PCE (wells VEW3, VEW17, VEW18).

REMEDIATION STATUS

In the first week of July 2010, TRG restarted the SVE system. Other than occasional down-time for general maintenance, TRG has operated the system continuously since its restart in July 2010. A brief summary of SVE Remediation detail is outlined below:

Date of SVE System Start:	January 4, 2008
Date of SVE System Restart:	July 7, 2010
Period Covered:	July 7, 2010 through November 11, 2010
Total System Running Time Since Start-Up:	14,572.2 hrs
System Running Time This Period:	2,723.4 hrs

Event	Date	Months of Operation	Maximum Concentrations (ug/L)	
			PCE	PCE
Assessment	2007	N/A	4,200	711
SVE Remediation I	Jan to Nov 2008	11	208	34
Verification Sampling I	Mar 2009	N/A	767	107
SVE Remediation II	May to Oct 2009	6	53	5.4
Verification Sampling II	Nov 2009	N/A	17.1	19.9
SVE Remediation III	Jan to Mar 2010	3	--	--
Verification Sampling III	Apr 2010	N/A	92.3	11.9
SVE Remediation IV	July to Nov 2010	4	24.9	2.44
Total Months of Operation		24		

SVE remediation in this latest period reduced soil vapor concentrations in the subsurface soils at the remaining area of concern by 73% PCE and 79.5% TCE since the April 2010 verification sampling event. Since remediation start-up originally in 2008, PCE has been reduced by 99.4% and TCE by 99.7%. PCE and TCE, however, may need to be further remediated to low enough concentrations for OCHCA low risk closure consideration. TRG will provide a status report to Mr. Lodrigueza and recommend two additional months of remediation prior to performing another round of verification sampling for closure consideration.

Should you have any questions, please do not hesitate to contact our Project Manager for this Site, Alejandro Fuan, at (714) 920-9312 (cell) or via e-mail to fuan@reynolds-group.com .

Sincerely,
THE REYNOLDS GROUP
a California corporation by:

F. Edward Reynolds, Jr.
California Registered Civil Engineer #38677

Alejandro Fuan
Project Manager

Attachments:

Table 1 -	Well Construction Detail Summary
Table 2 -	Historical Summary of Soil Vapor Sample Results
Table 3 -	Summary of Operational Soil Vapor Sample Results
Figure 1 -	Site Location Map
Figures 2A-2D –	SVE Remediation Progress at subslab to 5 ft bgs
Figures 3A-3D –	SVE Remediation Progress at 15 ft bgs
Figures 4A-4D –	SVE Remediation Progress at 25 ft bgs
Figure 5 -	Graph of Cumulative PCE and TCE Removed Over Time
Figure 6 -	Graph of PCE and TCE Concentrations Over Time

cc: Mr. James McFadden, **GRUB & ELLIS**

TABLE 1
WELL CONSTRUCTION DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
VEW3	VEW3-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW3-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW3-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW4	VEW4-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW4-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW4-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW5	VEW5-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW5-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW5-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW5-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft
VEW6	VEW6-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW6-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW6-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW7	VEW7-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW7-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW8	VEW8-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW8-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW9	VEW9-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW9-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW9-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW10	VEW10-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW10-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW11	VEW11-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW11-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW11-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW12	VEW12-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW12-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW12-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW12-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft

TABLE 1 (CONTINUED)
WELL CONSTRUCTION DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
VEW13	VEW13-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW13-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW13-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW14	VEW14-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW14-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW15	VEW15-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW15-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW16	VEW16-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW16-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW16-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
PMW1	PMW1-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW1-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW1-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW1-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW2	PMW2-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW2-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW2-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW2-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW3	PMW3-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW3-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW3-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW3-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW4	PMW4-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW4-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW4-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW4-60	Nylaflow tubing	1/4"	60 ft	60 ft
SV23	SV23-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV23-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV24	SV24-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV24-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV25	SV25-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV25-15	Nylaflow tubing	1/4"	15 ft	15 ft

TABLE 1 (CONTINUED)
WELL CONSTRUCTION DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
SV26	SV26-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV26-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV27	SV27-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV27-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV28	SV28-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV28-15	Nylaflow tubiug	1/4"	15 ft	15 ft
SV29	SV29-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV29-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV30	SV30-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV30-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV31	SV31-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV31-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV32	SV32-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV32-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV33	SV33-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV33-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV34	SV34-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV34-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV35	SV35-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV35-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV36	SV36-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV37	SV37-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV38	SV38-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV39	SV39-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV40	SV40-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV41	SV41-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV42	SV42-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV43	SV43-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub-slab)
SV44	SV44-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV44-15	Nylaflow tubing	1/4"	15 ft	15 ft
	SV44-25	Nylaflow tubing	1/4"	25 ft	25 ft

TABLE 2
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV1-5	3/9/2007	OS	69.9	17.4
SV1-5 Dil.	3/9/2007	78.8	70.7	18.2
SV2-5	3/9/2007	15.3	11	3.2
SV3-5	3/9/2007	36.4	38.6	25.3
SV4-5	3/9/2007	39.2	24.2	9.1
SV5-5	3/9/2007	35.3	58.2	40.4
SV6-5	3/9/2007	80.3	115.2	65.3
SV7-5	3/9/2007	99.6	101.7	78.3
SV8-5	3/9/2007	7.2	22.6	17.7
SV9-5	3/9/2007	53.7	11.6	6
SV10-5	3/9/2007	222.2	88.8	79.7
SV11-5	3/9/2007	34.9	1.9	<1
	(DUP) 3/9/2007	32	1.8	<1
SV12-5	3/9/2007	72.8	50.4	63.6
SV13-5	3/9/2007	7.4	16.3	7.4
SV14-5	3/9/2007	50.1	98.7	78.2
SV15-5	3/9/2007	1.4	<1	54.4
SV16-5	3/9/2007	<1	<1	<1
SV17-5	3/9/2007	<1	<1	<1
SV18-5	7/30/2007	163.5	120.2	64.3
SV19-5	7/30/2007	190.8	190.2	239.9
SV20-5	7/30/2007	164.5	99.3	66.2
SV21-5	7/30/2007	<1	<1	<1
SV22-5	7/30/2007	1,079.40	710.8	257.6
	(DUP) 7/30/2007	984.8	684.9	232.8
SV23-5	7/30/2007	72.1	80.4	79.8
SV24-5	2/18/2008	REFUSAL		
SV24-15	10/16/2007	120	32	30
SV24-15	2/18/2008	REFUSAL		
SV25-5	10/16/2007	110	48	100
	2/18/2008	REFUSAL		
	3/2/2009	0.338	<0.02	<0.02
SV25-15	10/16/2007	180	100	250
	2/18/2008	REFUSAL		
	3/2/2009	1.11	<0.02	<0.02
SV26-5	2/18/2008	REFUSAL		
SV26-15	10/16/2007	11	2	14
	2/18/2008	2.2	1.1	

TABLE 2 (CONTINUED)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter – µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV27-5	10/16/2007	66	50	88
	2/18/2008	5.1	3.1	<1
	(1P) 3/2/2009	0.816	0.096	<0.02
	(3P) 3/2/2009	0.745	0.132	<0.02
	(7P) 3/2/2009	0.678	0.108	<0.02
	4/28/2010	<0.02	<0.02	<0.02
SV27-15	10/16/2007	74	68	140
	2/18/2008	10	2.5	<1
	(1P) 3/2/2009	0.756	0.05	<0.02
	(3P) 3/2/2009	0.94	0.063	<0.02
	(7P) 3/2/2009	0.679	0.05	<0.02
SV28-5	10/16/2007	1.4	0.4	<0.5
SV29-5	10/16/2007	22	5.4	0.9
	(DUP) 10/16/2007	23	5.2	0.8
	2/18/2008	9.6	1.6	<1
SV29-15	10/16/2007	21	6.3	1
	2/18/2009	13.3	2.9	<1
SV30-5	10/16/2007	53	71	61
	2/18/2008	14.4	15.7	<1
	3/2/2009	2.62	1.8	0.684
	4/27/2010	<0.02	<0.02	<0.02
SV30-15	10/16/2007	4.8	2.8	0.5
	2/18/2008	21.7	15.7	6.5
	3/2/2009	6.35	5.39	1.08
	(DUP) 3/2/2009	6.22	4.75	0.962
	4/27/2010	0.446	1.35	0.36
SV31-5	10/16/2007	1.5	2	0.6
	2/18/2008	REFUSAL		
	3/2/2009	<0.02	0.421	<0.02
	4/27/2010	<0.02	<0.02	<0.02
SV31-15	10/16/2007	16	44	53
	(DUP) 10/16/2007	13	41	53
	2/18/2008	11.9	23.4	9
	3/2/2009	0.068	0.029	<0.02
	4/27/2010	0.354	0.570	<0.02
SV32-5	10/16/2007	11	38	73
	2/18/2008	2	7.2	<1
	3/2/2009	0.132	<0.02	<0.02
	4/24/2010	<0.02	<0.02	<0.02
SV32-15	10/16/2007	11	32	49
	2/18/2008	2.3	10.5	9.4
	(DUP) 2/18/2008	2.3	12.4	10.3

TABLE 2 (CONTINUED)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV32-15 (cont'd)	3/2/2009	<0.02	<0.02	0.02
	4/24/2010	0.115	<0.02	<0.02
SV33-5	10/16/2007	25	47	55
	2/18/2008	1	<1	<1
	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	<0.02	<0.02	<0.02
SV33-15	10/16/2007	54	90	140
	2/18/2008	6.7	15.9	<1
	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	<0.02	<0.02	<0.02
SV34-5	3/2/2009	0.276	0.064	<0.02
SV34-15	10/16/2007	92	110	460
	(DUP) 10/16/2007	93	72	140
	3/2/2009	2.68	<0.02	0.24
	4/28/2010	<0.02	<0.02	<0.02
SV35-5	3/2/2009	0.198	<0.02	<0.02
SV35-15	3/2/2009	0.156	<0.02	<0.02
SV36	3/2/2009	26.7	20.7	0.433
	11/24/2009	17.1	17.3	<0.02
	4/27/2010	9.87	12.5	0.527
	10/28/2010	3.57	2.44	0.029
SV37	(1P) 3/2/2009	2.36	4.77	2.71
	(3P) 3/2/2009	2.59	5.2	3.04
	(7P) 3/2/2009	2.21	4.62	2.74
	11/24/2009	11.4	19.9	0.229
	(DUP) 11/24/2009	10.5	17	0.196
	4/27/2010	0.933	1.67	1.18
	4/28/2010	1.43	2.8	2.07
	10/28/2010	0.175	0.38	0.258
	(DUP) 10/28/2010	0.169	0.374	0.299
SV38	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	0.198	0.618	0.941
SV39	3/2/2009	0.307	0.547	1.16
	(DUP) 3/2/2009	0.329	0.564	1.18
SV40	3/2/2009	0.103	0.1	<0.02
	4/27/2010	0.368	0.395	0.684
SV41	3/2/2009	0.081	<0.02	<0.02
	4/27/2010	<0.02	0.058	0.06
SV42	3/2/2009	1.1	0.2	<0.02
	4/27/2010	0.805	0.11	<0.02
	10/28/2010	0.356	0.01	<0.008

TABLE 2 (CONTINUED)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV43SS	3/2/2009	4.66	0.027	<0.02
	11/24/2009	0.512	0.048	<0.02
	(DUP) 11/24/2009	0.759	<0.02	<0.02
	4/28/2010	1.12	<0.02	<0.02
	10/28/2010	0.189	<0.008	<0.008
SV43-5	4/28/2010	0.46	<0.02	<0.02
	10/28/2010	0.208	<0.008	<0.008
SV43-15	4/28/2010	3.02	0.069	0.155
	10/28/2010	3.37	0.138	0.023
SV44-5	3/2/2009	0.428	0.05	<0.02
SV44-15	3/2/2009	1.11	0.118	<0.02
	4/28/2010	0.135	<0.02	<0.02
SV44-25	3/2/2009	25.5	7.71	0.787
	(DUP) 3/2/2009	17.3	6.4	0.626
	4/28/2010	0.41	0.287	<0.02
	(DUP) 4/28/2010	0.45	0.309	<0.02
VEW3-5	10/25/2007	24	29	6.6
	11/24/2009	0.748	0.198	<0.02
	4/28/2010	16.6	0.699	<0.02
	10/28/2010	7.33	0.455	0.229
VEW3-15	10/25/2007	240	140	74
	3/2/2009	196	8.82	<0.02
	11/24/2009	1.48	0.125	<0.02
	4/28/2010	92.3	3.51	1.46
	10/28/2010	16	0.725	0.27
VEW3-25	10/25/2007	210	120	83
	3/2/2009	767	107	21.5
	4/28/2010	87.6	11.9	22.5
	10/28/2010	24.9	1.22	0.363
VEW4-5	11/14/2007	21	17	1.7
	4/27/2010	2.62	<0.02	0.209
	10/28/2010	0.636	0.108	<0.008
VEW4-15	11/14/2007	380	150	86
	(DUP) 11/14/2007	360	140	73
VEW4-25	11/14/2007	470	180	160
	3/2/2009	2.77	0.149	0.283
VEW5-5	10/25/2007	23	13	3.8
	10/30/2007	12	8.2	3.1
	4/27/2010	<0.02	<0.02	<0.02
	10/28/2010	0.085	<0.008	<0.008

TABLE 2 (CONTINUED)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW5-15	10/25/2007	19	14	6
	10/30/2007	19	13	7.8
	3/2/2009	0.429	0.024	<0.02
VEW5-25	10/25/2007	12	8.7	13
	(DUP)10/25/2007	4.2	3.2	4.9
	10/30/2007	16	17	11
	3/2/2009	0.267	<0.02	<0.02
	(DUP) 3/2/2009	0.303	<0.02	<0.02
VEW5-60	10/25/2007	170	550	170
	10/30/2007	140	570	150
VEW7-5	4/28/2010	<0.02	<0.02	<0.02
VEW6-5	11/14/2007	3.7	3.1	<0.5
	2/18/2008	7.3	14.6	<1
	4/27/2010	0.688	0.641	<0.02
	4/28/2010	0.485	0.426	<0.02
VEW6-15	11/14/2007	110	110	17
	2/18/2008	8.2	12.4	<1
	3/2/2009	20.1	1.71	0.268
VEW6-25	10/30/2007	8.5	9.1	2.5
	11/14/2007	320	370	250
	3/2/2009	8.15	5.6	7.72
VEW8-15	4/27/2010	<0.02	<0.02	<0.02
VEW9-5	10/25/2007	39	43	42
VEW9-15	10/25/2007	89	130	170
	3/2/2009	1.58	2.08	1.99
	4/27/2010	<0.02	0.65	0.588
VEW9-25	10/25/2007	64	69	61
	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	1.96	0.307	<0.02
VEW11-15	3/2/2009	8.33	0.685	<0.02
	4/27/2010	<0.02	0.381	0.353
VEW11-25	3/2/2009	0.984	3.01	<0.02
	4/27/2010	<0.02	<0.02	<0.02
VEW12-5	10/25/2007	30	64	120
VEW12-15	10/25/2007	3.1	8.2	9.8
	3/2/2009	0.184	<0.02	<0.02
	4/27/2010	<0.02	2.4	0.648
VEW12-25	10/25/2007	56	110	210
	3/2/2009	0.918	4.94	852
	4/27/2010	5.51	3.62	0.477
VEW12-60	10/25/2007	10	43	9.0

TABLE 2 (CONTINUED)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW13-15	3/2/2009	6.08	0.76	<0.02
	4/27/2010	<0.02	<0.02	<0.02
VEW16-5	4/27/2010	<0.02	<0.02	<0.02
VEW16-15	3/2/2009	20.5	26.9	13.7
	4/27/2010	0.570	<0.02	<0.02
VEW16-25	3/2/2009	20.6	36.8	12.9
	4/27/2010	<0.02	<0.02	<0.02
VEW18-5	3/2/2009	2.5	0.294	<0.02
	(DUP) 3/2/2009	2.27	0.302	<0.02
	10/28/2010	6.540	0.452	0.212
PW1-5	11/14/2007	31	6.1	1.1
	3/2/2009	<0.02	<0.02	<0.02
PW1-15	11/14/2007	21	1.5	<0.5
	3/2/2009	0.168	<0.02	<0.02
PW1-25	11/14/2007	4,200	140	55
	3/2/2009	38.8	4.07	1.47
PW1-60	11/14/2007	70	220	39
PW2-5	12/18/2007	2	8.9	2.5
	(DUP) 12/18/2007	1.5	7.2	2.5
PW2-15	12/17/2007	1.5	7.4	3.1
	12/18/2007	6.2	12	6.2
PW2-25	12/18/2007	37	19	20
PW2-60	12/10/2007	75	370	100
	12/18/2007	75	370	100
PW3-5	12/10/2007	3.8	1.7	0.6
	(DUP) 12/10/2007	4.3	1.7	0.7
PW3-15	12/10/2007	1.4	1	1.9
PW3-25	12/10/2007	17	2.2	1.6
PW3-60	12/10/2007	<0.1	<0.1	<0.5
PW4-5	12/18/2007	3.8	1.7	0.6
	(DUP) 12/18/2007	4.3	1.7	0.7
PW4-15	12/18/2007	1.4	1	1.9
PW4-25	12/18/2007	17	2.2	1.6
PW4-60	12/18/2007	<0.1	<0.1	<0.5

NOTES:
PCE - Tetrachloroethylene in micrograms per liter
TCE - Trichloroethylene in micrograms per liter
(DUP) - Duplicate Sample
(#P) - No. of Volume Purge

TABLE 3
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW3-5	2/14/2008	10.73	2.23	1.26
	10/31/2008	5.45	0.3	<0.05
	5/13/2009	3.49	0.49	<0.05
	6/109	3.21	0.24	<0.05
	6/29/2009	1.88	<0.05	<0.05
	9/8/2009	0.18	<0.05	<0.05
	9/17/2010	0.55	<0.05	<0.05
VEW3-15	2/14/2008	69.83	18.04	18.4
	11/10/2008	11.13	2.57	1.66
	5/13/2009	21.02	2.33	3.2
	6/1/2009	14.76	4.09	4.36
	6/29/2009	6.07	2.27	<0.05
	8/4/2009	2.94	<0.05	<0.05
	9/8/2009	2.22	<0.05	<0.05
	9/17/2010	7.89	0.85	1.01
VEW3-25	8/4/2008	10.24	1.53	1.74
	11/10/2008	9.06	2.98	3.56
	5/13/2009	37.76	8.2	8.87
	6/1/2009	29.08	8.75	7.95
	6/29/2009	19.77	6.74	<0.05
	8/4/2009	15.13	1.77	2.03
	9/8/2009	7.66	0.98	1.79
	9/17/2010	10.49	1.97	2.32
VEW4-5	2/14/2008	0.74	<1	<1
VEW4-15	2/14/2008	2.35	<1	<1
	11/19/2008	0.38	<0.05	<0.05
VEW4-25	8/4/2008	2.47	0.26	<0.05
	11/10/2008	0.72	0.09	<0.05
VEW5-5	2/14/2008	<1	<1	<1
VEW5-15	2/14/2008	<1	<1	<1
VEW5-25	8/4/2008	0.19	<0.05	<0.05
	10/21/2008	0.23	<0.05	<0.05
VEW5-60	11/10/2008	3.81	27.75	17.72
VEW6-5	2/14/2008	0.74	<1	<1
VEW6-15	2/14/2008	2.21	2.79	2.52
	11/10/2008	0.48	0.12	<0.05
VEW6-25	8/4/2008	2.1	0.22	<0.05
	11/10/2008	0.14	0.25	<0.05
VEW7-15	4/2/2008	3.74	2.95	0.82
	5/5/2008	2.65	0.62	<0.01
	6/12/2008	2.04	0.2	<0.01
	9/2/2008	0.1	0.38	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW7-15 (cont'd)	10/6/2008	0.21	<0.05	<0.05
VEW8-15	4/2/2008	2.02	2.44	0.99
	5/5/2008	2.69	0.87	<0.01
	6/12/2008	4.4	0.81	<0.01
	9/2/2008	0.25	1.79	<0.05
	10/6/2008	2.03	0.21	<0.05
	11/19/2008	0.43	<0.05	<0.05
VEW9-5	2/14/2008	<1	<1	<1
VEW9-15	2/14/2008	0.88	1.86	1.26
	11/10/2008	0.8	0.1	<0.05
VEW9-25	8/4/2008	0.15	<0.05	<0.05
VEW10-5	11/4/2008	<0.05	<0.05	<0.05
VEW10-15	4/2/2008	0.22	<0.01	<0.01
	5/5/2008	<0.01	<0.01	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	8/4/2008	<0.05	<0.05	<0.05
VEW11-15	11/10/2008	<0.05	<0.05	<0.05
VEW11-25	4/2/2008	0.14	0.56	<0.01
	5/5/2008	<0.01	0.32	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	9/2/2008	0.17	0.25	<0.05
VEW12-5	2/14/2008	2.65	3.91	1.51
	11/4/2008	<0.05	<0.05	<0.05
VEW12-15	2/14/2008	<1	<1	<1
VEW12-25	8/4/2008	0.39	0.36	<0.05
VEW12-60	11/10/2008	2.75	21.49	10.1
VEW13-5	11/4/2008	<0.05	<0.05	<0.05
VEW13-25	4/2/2008	1.96	5.91	2.75
	5/5/2008	0.75	2.26	1.65
	6/12/2008	0.63	1.67	0.95
	9/2/2008	0.99	2.69	1.26
VEW14-5	9/2/2008	0.18	<0.05	<0.05
VEW14-15	4/2/2008	0.61	1.08	<0.01
	5/5/2008	0.23	0.27	<0.01
	6/12/2008	0.24	0.34	<0.01
VEW15-15	4/2/2008	0.98	1.31	<0.01
	5/5/2008	0.7	0.87	<0.01
	6/12/2008	0.75	0.88	<0.01
	9/2/2008	0.45	0.67	<0.05
	11/10/2008	0.33	0.6	<0.05
VEW16-15	11/10/2008	0.77	0.59	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW16-25	4/2/2008	1	0.16	<0.01
	5/5/2008	0.28	0.61	<0.01
	6/2/2008	0.69	0.17	<0.01
	9/2/2008	0.86	0.92	<0.05
	10/21/2008	1.62	1.29	<0.05
VEW17-5	1/8/2010	<0.05	<0.05	<0.05
	1/14/2010	0.26	0.26	<0.05
	1/20/2010	0.21	0.19	<0.05
	1/25/2010	0.22	0.2	<0.05
	2/4/2010	0.23	0.5	<0.05
	2/9/2010	0.17	0.24	<0.05
	2/17/2010	0.18	0.19	<0.05
	2/24/2010	0.11	<0.05	<0.05
	3/4/2010	<0.05	<0.05	<0.05
	3/11/2010	<0.05	<0.05	<0.05
VEW18-5	1/8/2010	0.14	<0.05	<0.05
	1/14/2010	<0.05	<0.05	<0.05
	1/20/2010	<0.05	<0.05	<0.05
	1/25/2010	<0.05	<0.05	<0.05
	2/4/2010	<0.05	<0.05	<0.05
	2/9/2010	<0.05	<0.05	<0.05
	2/17/2010	<0.05	<0.05	<0.05
	2/24/2010	<0.05	<0.05	<0.05
	3/4/2010	<0.05	<0.05	<0.05
	3/11/2010	<0.05	<0.05	<0.05
	9/17/2010	<0.05	<0.05	<0.05
Inlet	1/4/2008	18.23	10.42	15.12
	1/11/2008	10.14	3.16	1.51
	1/17/2008	8.38	1.86	<1
	1/21/2008	6.32	1.3	<1
	1/30/2008	5.29	1.49	<1
	2/5/2008	3.09	<1	<1
	2/14/2008	2.94	0.93	<1
	3/7/2008	0.91	1.13	0.76
	3/11/2008	0.65	1.09	0.69
	3/20/2008	0.65	0.97	<0.01
	3/27/2008	0.36	0.38	<0.01
	4/2/2008	0.91	1.54	0.55
	4/10/2008	0.96	0.88	<0.01
	4/15/2008	0.92	0.39	<0.01
	4/25/2008	1.15	0.67	<0.01

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Inlet (cont'd)	5/5/2008	1.14	0.27	<0.01
	5/14/2008	0.92	0.22	<0.01
	5/19/2008	0.81	0.45	<0.01
	5/27/2008	0.98	0.31	<0.01
	6/2/2008	1.41	0.73	<0.01
	6/12/2008	1.1	0.28	<0.01
	6/19/2008	0.88	0.38	<0.01
	6/23/2008	0.76	<0.01	<0.01
	7/8/2008	0.72	<0.01	<0.01
	7/17/2008	0.36	<0.05	<0.05
	8/4/2008	0.49	<0.05	<0.05
	8/11/2008	1.75	0.47	<0.05
	8/18/2008	0.14	<0.05	<0.05
	8/25/2008	0.47	<0.05	<0.05
	9/2/2008	0.72	0.46	<0.05
	9/11/2008	0.91	<0.05	<0.05
	9/19/2008	0.11	<0.05	<0.05
	9/23/2008	0.28	<0.05	<0.05
	9/30/2008	1.12	0.56	<0.05
	10/6/2008	0.86	0.41	<0.05
	10/13/2008	0.27	0.19	<0.05
	10/15/2008	1.16	<0.05	<0.05
	10/21/2008	0.57	0.86	<0.05
	10/31/2008	1.87	0.3	<0.05
	11/4/2008	<0.05	<0.05	<0.05
	11/10/2008	0.15	0.26	<0.05
	11/19/2008	0.4	<0.05	<0.05
	5/13/2009	3.45	0.5	<0.05
	5/27/2009	4.53	0.32	<0.05
	6/1/2009	2.63	0.26	<0.05
	6/9/2009	1.94	0.22	<0.05
	6/15/2009	2.78	0.26	<0.05
	6/22/2009	2.61	0.23	<0.05
	7/9/2009	2.72	0.22	<0.05
	7/15/2009	3.11	<0.05	<0.05
	7/21/2009	2.76	<0.05	<0.05
	7/28/2009	4.18	1.53	1.67
	8/4/2009	2.31	0.25	<0.05
	8/11/2009	4.37	0.39	<0.05
	8/28/2009	1.05	<0.05	<0.05
	9/8/2009	0.83	<0.05	<0.05
	9/17/2009	0.64	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Inlet (cont'd)	9/24/2009	1.26	<0.05	<0.05
	10/1/2009	0.82	<0.05	<0.05
	1/8/2010	0.34	<0.05	<0.05
	1/25/2010	1.27	0.18	<0.05
	2/4/2010	1.50	<0.05	<0.05
	2/9/2010	1.18	0.17	<0.05
	2/24/2010	0.56	<0.05	<0.05
	7/20/2010	0.42	<0.05	<0.05
	7/30/2010	0.49	<0.05	<0.05
	8/6/2010	0.37	<0.05	<0.05
	8/12/2010	0.42	<0.05	<0.05
	8/20/2010	0.29	<0.05	<0.05
	8/26/2010	0.12	<0.05	<0.05
	8/30/2010	0.19	<0.05	<0.05
	9/8/2010	0.50	<0.05	<0.05
	11/11/2010	0.72	<0.05	<0.05
Outlet	1/4/2008	<1	<1	<1
	1/11/2008	<1	<1	<1
	1/17/2008	<1	0.93	<1
	1/21/2008	<1	<1	<1
	1/30/2008	<1	<1	<1
	2/5/2008	<1	<1	<1
	2/14/2008	<1	<1	<1
	3/7/2008	0.51	0.98	1.11
	3/11/2008	<1	<1	0.51
	3/20/2008	<0.01	<0.01	<0.01
	3/27/2008	<0.01	<0.01	<0.01
	4/2/2008	<0.01	<0.01	<0.01
	4/10/2008	<0.01	<0.01	<0.01
	4/15/2008	<0.01	<0.01	<0.01
	4/25/2008	<0.01	<0.01	<0.01
	5/5/2008	<0.01	<0.01	<0.01
	5/14/2008	<0.01	<0.01	<0.01
	5/19/2008	<0.01	<0.01	<0.01
	5/27/2008	<0.01	<0.01	<0.01
	6/2/2008	<0.01	<0.01	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	6/19/2008	<0.01	<0.01	<0.01
	6/23/2008	<0.01	<0.01	<0.01
	7/8/2008	<0.01	<0.01	<0.01
	7/17/2008	<0.05	<0.05	<0.05
	8/4/2008	<0.05	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Outlet (cont'd)	8/11/2008	<0.05	<0.05	<0.05
	8/18/2008	<0.05	<0.05	<0.05
	8/25/2008	<0.05	<0.05	<0.05
	9/2/2008	<0.05	<0.05	<0.05
	9/11/2008	<0.05	<0.05	<0.05
	9/19/2008	<0.05	<0.05	<0.05
	9/23/2008	<0.05	<0.05	<0.05
	9/30/2008	<0.05	<0.05	<0.05
	10/6/2008	0.34	<0.05	<0.05
	10/13/2008	<0.05	<0.05	<0.05
	10/15/2008	<0.05	<0.05	<0.05
	10/21/2008	<0.05	<0.05	<0.05
	10/31/2008	<0.05	<0.05	<0.05
	11/4/2008	<0.05	<0.05	<0.05
	11/10/2008	<0.05	<0.05	<0.05
	11/19/2008	<0.05	<0.05	<0.05
	5/13/2009	<0.05	<0.05	<0.05
	5/27/2009	<0.05	<0.05	<0.05
	6/1/2009	<0.05	<0.05	<0.05
	6/9/2009	<0.05	<0.05	<0.05
	6/15/2009	<0.05	<0.05	<0.05
	6/22/2009	<0.05	<0.05	<0.05
	7/9/2009	<0.05	<0.05	<0.05
	7/15/2009	<0.05	<0.05	<0.05
	7/21/2009	<0.05	<0.05	<0.05
	7/28/2009	<0.05	<0.05	<0.05
	8/4/2009	<0.05	<0.05	<0.05
	8/11/2009	<0.05	<0.05	<0.05
	8/28/2009	<0.05	<0.05	<0.05
	9/8/2009	<0.05	<0.05	<0.05
	9/17/2009	<0.05	<0.05	<0.05
	9/24/2009	<0.05	<0.05	<0.05
	1/8/2010	<0.05	<0.05	<0.05
	1/25/2010	0.15	0.49	0.75
	2/4/2010	0.17	0.27	<0.05
	2/9/2010	<0.05	0.28	<0.05
	2/24/2010	<0.05	<0.05	<0.05
	7/20/2010	<0.05	<0.05	<0.05
	7/30/2010	<0.05	<0.05	<0.05
	8/6/2010	<0.05	<0.05	<0.05
	8/12/2010	<0.05	<0.05	<0.05
	8/20/2010	<0.05	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Outlet (cont'd)	8/26/2010	<0.05	<0.05	<0.05
	8/30/2010	<0.05	<0.05	<0.05
	9/8/2010	<0.05	<0.05	<0.05
	9/17/2010	<0.05	<0.05	<0.05
	11/11/2010	<0.05	<0.05	<0.05
Mid	1/4/2008	14.55	10.23	14.87
	1/11/2008	Not sampled.		
	1/17/2008	<1	<1	<1
	1/21/2008	Not sampled.		
	1/30/2008	<1	<1	<1
	2/5/2008	<1	<1	<1
	2/14/2008	<1	<1	<1
	3/7/2008	<1	<1	1.44
	3/11/2008	<1	<1	0.98
	3/20/2008	<0.01	<0.01	<0.01
	3/27/2008	<0.01	<0.01	<0.01
	4/2/2008	<0.01	<0.01	0.69
	4/10/2008	<0.01	<0.01	<0.01
	4/15/2008	<0.01	<0.01	<0.01
	4/25/2008	<0.01	<0.01	<0.01
	5/5/2008	<0.01	<0.01	<0.01
	5/14/2008	<0.01	<0.01	<0.01
	5/19/2008	<0.01	<0.01	<0.01
	5/27/2008	<0.01	<0.01	<0.01
	6/2/2008	<0.01	<0.01	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	6/19/2008	<0.01	<0.01	<0.01
	6/23/2008	<0.01	<0.01	<0.01
	7/8/2008	<0.01	<0.01	<0.01
	7/17/2008	<0.05	<0.05	<0.05
	8/4/2008	0.54	0.39	<0.05
	8/11/2008	<0.05	<0.05	<0.05
	8/18/2008	<0.05	0.32	<0.05
	8/25/2008	<0.05	0.39	<0.05
	9/2/2008	0.08	0.55	<0.05
	9/11/2008	<0.05	<0.05	<0.05
	9/19/2008	<0.05	<0.05	<0.05
	9/23/2008	<0.05	<0.05	<0.05
	9/30/2008	<0.05	<0.05	<0.05
	10/6/2008	<0.05	<0.05	<0.05
	10/13/2008	<0.05	<0.05	<0.05
	10/15/2008	<0.05	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Mid (cont'd)	10/21/2008	<0.05	<0.05	<0.05
	10/31/2008	<0.05	<0.05	<0.05
	11/4/2008	<0.05	<0.05	<0.05
	11/10/2008	<0.05	<0.05	<0.05
	11/19/2008	<0.05	<0.05	<0.05
	2/9/2010	<0.05	<0.05	<0.05
	2/24/2010	<0.05	<0.05	<0.05

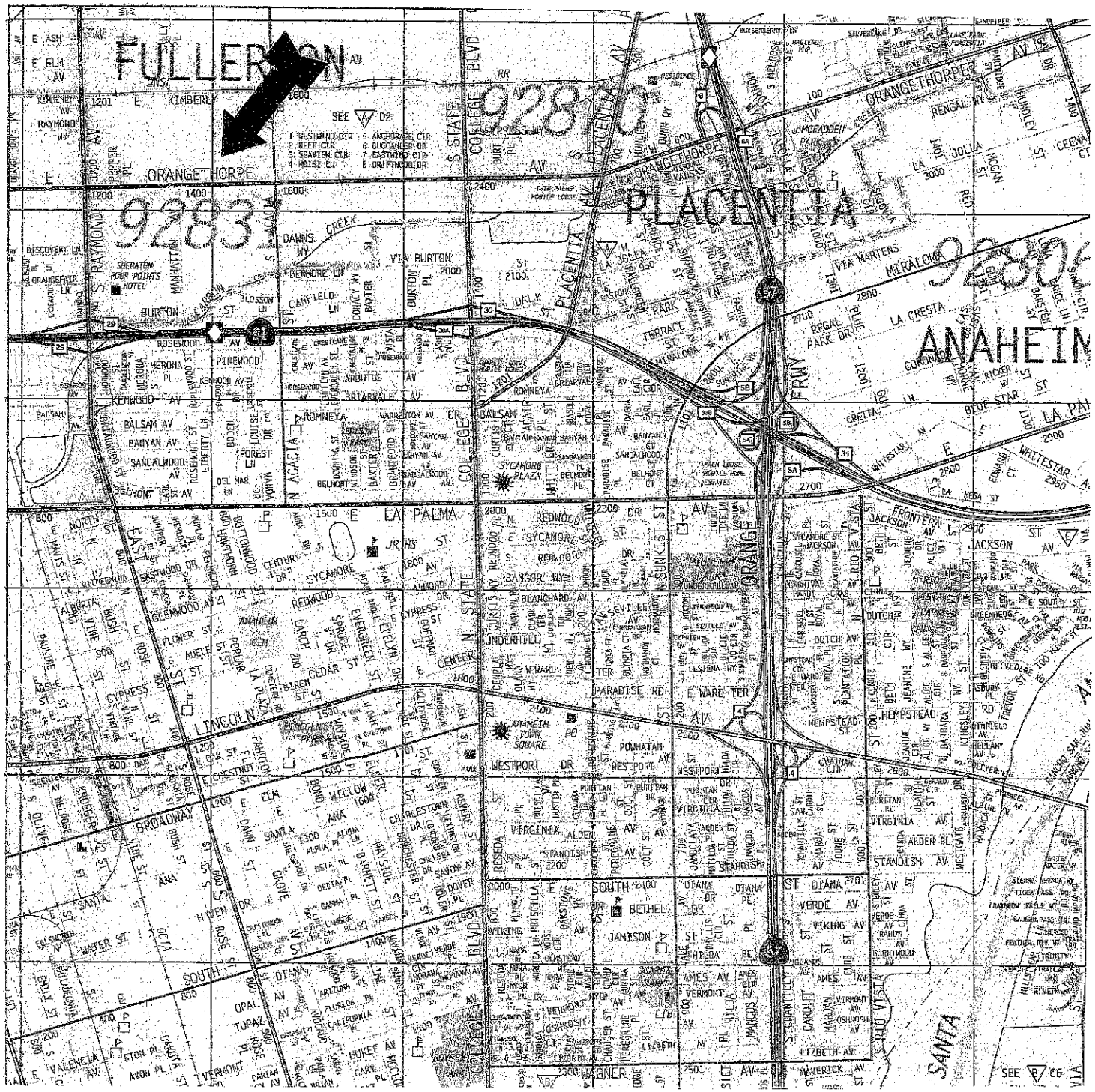
Notes:
- Samples collected from 1/4/08 through 2/14/08 were reported in mg/L by the laboratory and converted to ppmv.
- Samples collected from 3/7/08 through 7/8/08 were reported in ug/L by the laboratory and converted to ppmv.

TABLE 4
SUMMARY OF OPERATIONAL DATA AND MASS REMOVAL
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Sample ID	Date Sampled	Sample Concentration				Pipe Dia.	Flow Rate	Cumulative Time	Mass Removed	
		PCE ppmv	PCE ug/L	TCE ppmv	TCE ug/L	inches	cfm	hrs	Cumulative PCE lbs	Cumulative TCE lbs
Inlet	1/4/2008	17.971	124	10.182	56	4	88.6	0.0	0.00	0.00
Inlet	1/11/2008	10.000	69	3.091	17	4	133.5	161.8	5.57	0.69
Inlet	1/17/2008	8.261	57	1.818	10	4	222.2	308.1	12.50	1.29
Inlet	1/21/2008	6.232	43	1.273	7	4	247.2	401.1	16.19	1.59
Inlet	1/30/2008	5.217	36	1.455	8	4	185.7	619	21.64	2.20
Inlet	2/5/2008	3.043	21	<RL	<RL	4	269.3	761	24.64	2.20
Inlet	2/14/2008	2.899	20	0.909	5	4	306.8	977.1	29.60	2.82
Inlet	3/7/2008	0.893	6.16	1.105	6.08	4	330.2	1201.9	31.31	3.66
Inlet	3/11/2008	0.642	4.43	1.069	5.88	4	157.3	1298.3	31.56	3.83
Inlet	3/20/2008	0.638	4.40	0.953	5.24	4	130.1	1515.3	32.02	4.11
Inlet	3/27/2008	0.358	2.47	0.375	2.06	4	162.0	1681.2	32.27	4.21
Inlet	4/2/2008	0.900	6.21	1.504	8.27	4	162.0	1823.6	32.80	4.57
Inlet	4/10/2008	0.951	6.56	0.864	4.75	4	121.4	2018.2	33.38	4.78
Inlet	4/15/2008	0.907	6.26	0.385	2.12	4	158.6	2137.9	33.83	4.85
Inlet	4/25/2008	1.132	7.81	0.651	3.58	4	132.9	2371.8	34.73	5.06
Inlet	5/5/2008	1.120	7.73	0.267	1.47	4	160.5	2493.1	35.30	5.11
Inlet	5/14/2008	0.909	6.27	0.211	1.16	4	150.4	2707.9	36.05	5.18
Inlet	5/19/2008	0.797	5.50	0.436	2.40	4	123.0	2828.6	36.36	5.25
Inlet	5/27/2008	0.965	6.66	0.385	2.12	4	123.0	3020.1	36.95	5.34
Inlet	6/2/2008	1.390	9.59	0.716	3.94	4	256.8	3163	38.26	5.61
Inlet	6/12/2008	1.084	7.48	0.278	1.53	4	225.0	3403.2	39.77	5.77
Inlet	6/19/2008	0.865	5.97	0.367	2.02	4	136.1	3569.6	40.28	5.85
Inlet	6/23/2008	0.762	5.26	<RL	<RL	4	229.6	3667.3	40.72	5.85
Inlet	7/3/2008	0.978	6.75	<RL	<RL	4	225.2	3905.8	42.07	5.85
Inlet	7/8/2008	0.710	4.90	<RL	<RL	4	176.0	4027.1	42.46	5.85
Inlet	7/17/2008	0.360	2.48	<RL	<RL	4	172.2	4243.8	42.81	5.85
Inlet	8/4/2008	0.490	3.38	<RL	<RL	4	158.2	4677.2	43.68	5.85
Inlet	8/11/2008	1.750	12.08	0.470	2.59	4	105.2	4844.7	44.47	5.94
Inlet	8/18/2008	0.140	0.97	<RL	<RL	4	167.8	5014.1	44.58	5.94
Inlet	8/25/2008	0.470	3.24	<RL	<RL	4	153.0	5179.3	44.88	5.94
Inlet	9/2/2008	0.720	4.97	0.420	2.31	4	190.2	5373.3	45.57	6.10
Inlet	9/11/2008	0.910	6.28	<RL	<RL	4	111.2	5585.6	46.12	6.10
Inlet	9/19/2008	0.110	0.76	<RL	<RL	4	139.3	5778.1	46.20	6.10
Inlet	9/23/2008	0.280	1.93	<RL	<RL	4	136.6	5874.7	46.29	6.10
Inlet	9/30/2008	1.120	7.73	0.560	3.08	4	106.4	6041.6	46.81	6.20
Inlet	10/6/2008	0.860	5.93	0.410	2.26	4	143.1	6185	47.26	6.29
Inlet	10/13/2008	0.270	1.86	0.190	1.05	4	129.9	6354	47.41	6.33
Inlet	10/15/2008	1.160	8.00	<RL	<RL	4	129.9	6402	47.60	6.33
Inlet	10/21/2008	0.570	3.93	0.860	4.73	4	106.6	6526.7	47.80	6.45
Inlet	10/30/2008	1.870	12.90	0.300	1.65	4	107.9	6784.6	49.14	6.53
Inlet	11/4/2008	<RL	<RL	<RL	<RL	4	140.0	6881	49.14	6.53
Inlet	11/10/2008	0.150	1.04	0.260	1.43	4	105.1	7013.8	49.19	6.57
Inlet	11/19/2008	0.400	2.76	<RL	<RL	4	87.6	7230.1	49.39	6.57
Inlet	11/26/2008	0.400	2.76	<RL	<RL	4	124.2	7256.1	49.42	6.57
Inlet	11/28/2008	0.400	2.76	<RL	<RL	4	124.3	7305.5	49.48	6.57
Inlet	5/13/2009	3.450	23.81	<RL	<RL	4	83.1	7305.5	49.48	6.57
Inlet	5/22/2009	3.450	23.81	<RL	<RL	4	86.1	7521.5	51.14	6.66
Inlet	5/27/2009	4.530	31.26	<RL	<RL	4	89.4	7639.2	52.37	6.70
Inlet	6/1/2009	2.630	18.15	<RL	<RL	4	94.1	7760	53.14	6.73
Inlet	6/8/2009	1.940	13.39	<RL	<RL	4	100.5	7952.3	54.11	6.77
Inlet	6/15/2009	2.780	19.18	<RL	<RL	4	109.9	8097.2	55.25	6.81

TABLE 4 (CONTINUED)
SUMMARY OF OPERATIONAL DATA AND MASS REMOVAL
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Sample ID	Date Sampled	Sample Concentration				Pipe Dia.	Flow Rate	Cumulative Time	Mass Removed	
		PCE ppmv	PCE ug/L	TCE ppmv	TCE ug/L	inches	cfm	hrs	Cumulative PCE lbs	Cumulative TCE lbs
Inlet	6/22/2009	2.610	18.01	0.230	1.27	4	95.1	8263.8	56.32	6.85
Inlet	6/29/2009	2.610	18.01	0.230	1.27	4	105.2	8431.9	57.50	6.89
Inlet	7/9/2009	2.720	18.77	0.220	1.21	4	105.3	8671.9	59.28	6.95
Inlet	7/15/2009	3.110	21.46	<RL	<RL	4	105.8	8815.9	60.50	6.95
Inlet	7/21/2009	2.760	19.04	<RL	<RL	4	105.7	8959.9	61.58	6.95
Inlet	7/28/2009	4.180	28.84	1.530	8.42	4	108.3	9127.7	63.54	7.24
Inlet	8/4/2009	2.310	15.94	0.250	1.38	4	100.1	9294.7	64.54	7.28
Inlet	8/11/2009	4.370	30.15	0.390	2.15	4	107.6	9464.8	66.60	7.35
Inlet	8/21/2009	4.370	30.15	0.390	2.15	4	102.8	9704	69.37	7.45
Inlet	8/28/2009	1.050	7.25	<RL	<RL	4	107.6	9832	70.44	7.45
Inlet	9/3/2009	1.050	7.25	<RL	<RL	4	121.3	9891	71.06	7.45
Inlet	9/8/2009	0.830	5.73	<RL	<RL	4	112.1	9966.7	71.38	7.45
Inlet	9/17/2009	0.640	4.42	<RL	<RL	4	106.8	10182	71.89	7.45
Inlet	9/24/2009	1.260	8.69	<RL	<RL	4	109.7	10302.1	73.09	7.45
Inlet	10/1/2009	0.820	5.66	<RL	<RL	4	108.9	10471.2	73.75	7.45
Inlet	1/8/2010	0.340	2.35	<RL	<RL	4	144.0	10619.6	74.16	7.45
Inlet	1/25/2010	1.270	8.76	<RL	<RL	4	217.1	10772.3	76.30	7.57
Inlet	2/4/2010	1.500	10.35	<RL	<RL	4	200.0	11009.4	79.31	7.57
Inlet	2/9/2010	1.180	8.14	<RL	<RL	4	185.8	11129.4	81.33	7.69
Inlet	2/24/2010	0.560	3.86	<RL	<RL	4	235.7	11488.5	82.96	7.69
Inlet	7/20/2010	0.420	2.90	<RL	<RL	4	179.7	12158.5	84.97	7.69
Inlet	7/30/2010	0.490	3.38	<RL	<RL	4	253.0	12398.8	87.88	7.69
Inlet	8/6/2010	0.370	2.55	<RL	<RL	4	231.7	12566.0	88.78	7.69
Inlet	8/12/2010	0.420	2.90	<RL	<RL	4	341.3	12711.1	89.93	7.69
Inlet	8/20/2010	0.290	2.00	<RL	<RL	4	221.5	12903.7	90.49	7.69
Inlet	8/26/2010	0.120	0.83	<RL	<RL	4	191.2	13044.9	90.69	7.69
Inlet	8/30/2010	0.190	1.31	<RL	<RL	4	224.1	13146.1	90.96	7.69
Inlet	9/8/2010	0.500	3.45	<RL	<RL	4	238.7	13386.0	92.01	7.69
Inlet	11/11/2010	0.720	4.97	<RL	<RL	4	253.2	14572.2	98.71	7.69



General Notes

N
W E
S

*ADAPTED FROM GOOGLEMAPS 2008

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe
Fullerton, CA

Number
7115

Figure Details

SITE LOCATION MAP

Figure #
Figure 1

Revise Date
July 23, 2008

0' 2,400'
Approximate Scale

Scale
1" = 2,400'

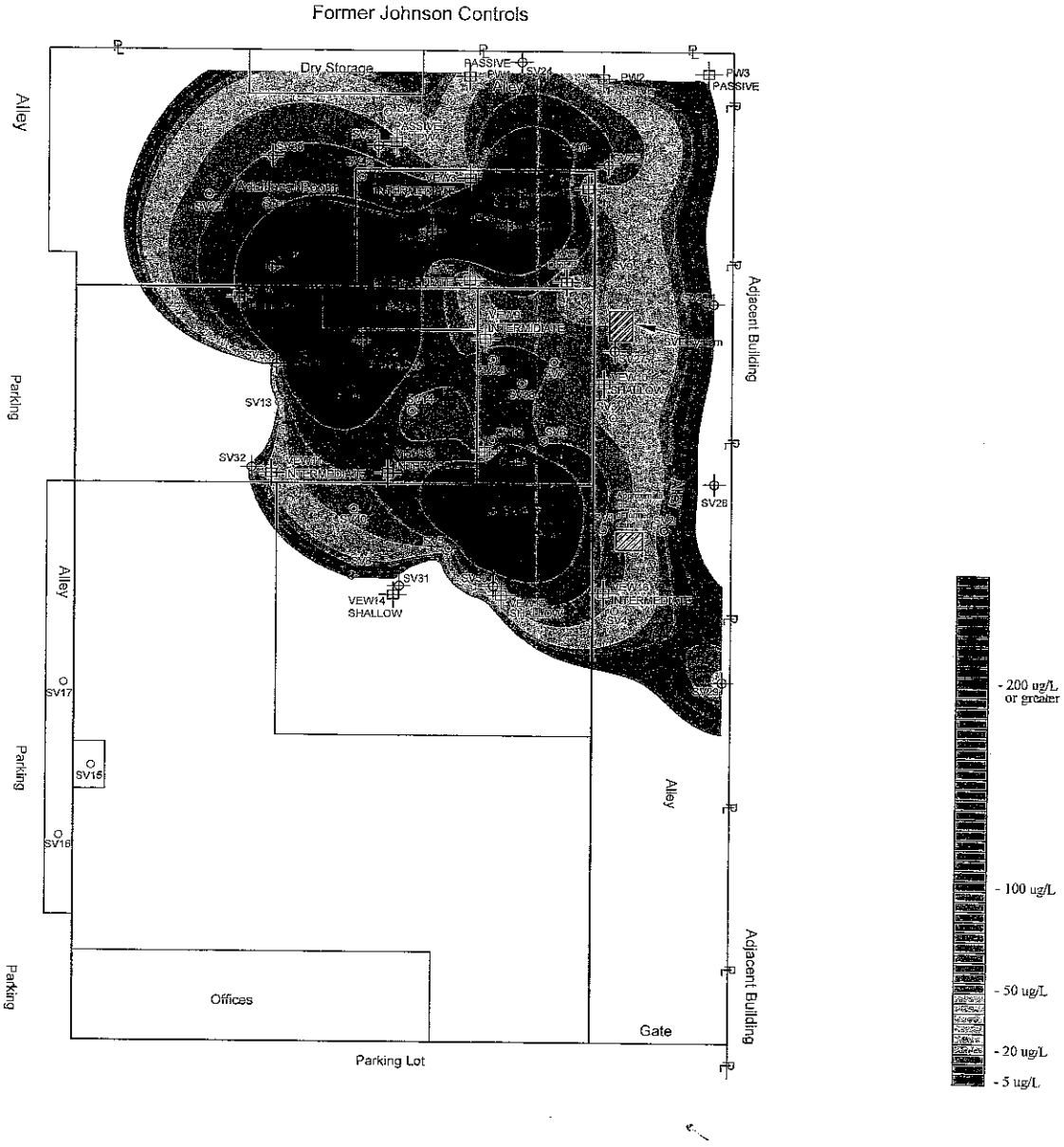
Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES



General Notes

- SHALLOW: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- ○ - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave,
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH PRE-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT SUB SLAB - 5 FT BGS

Figure #
Figure 2A

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

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520 West 1st Street
Tustin, CA 92780

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(714) 730-6476

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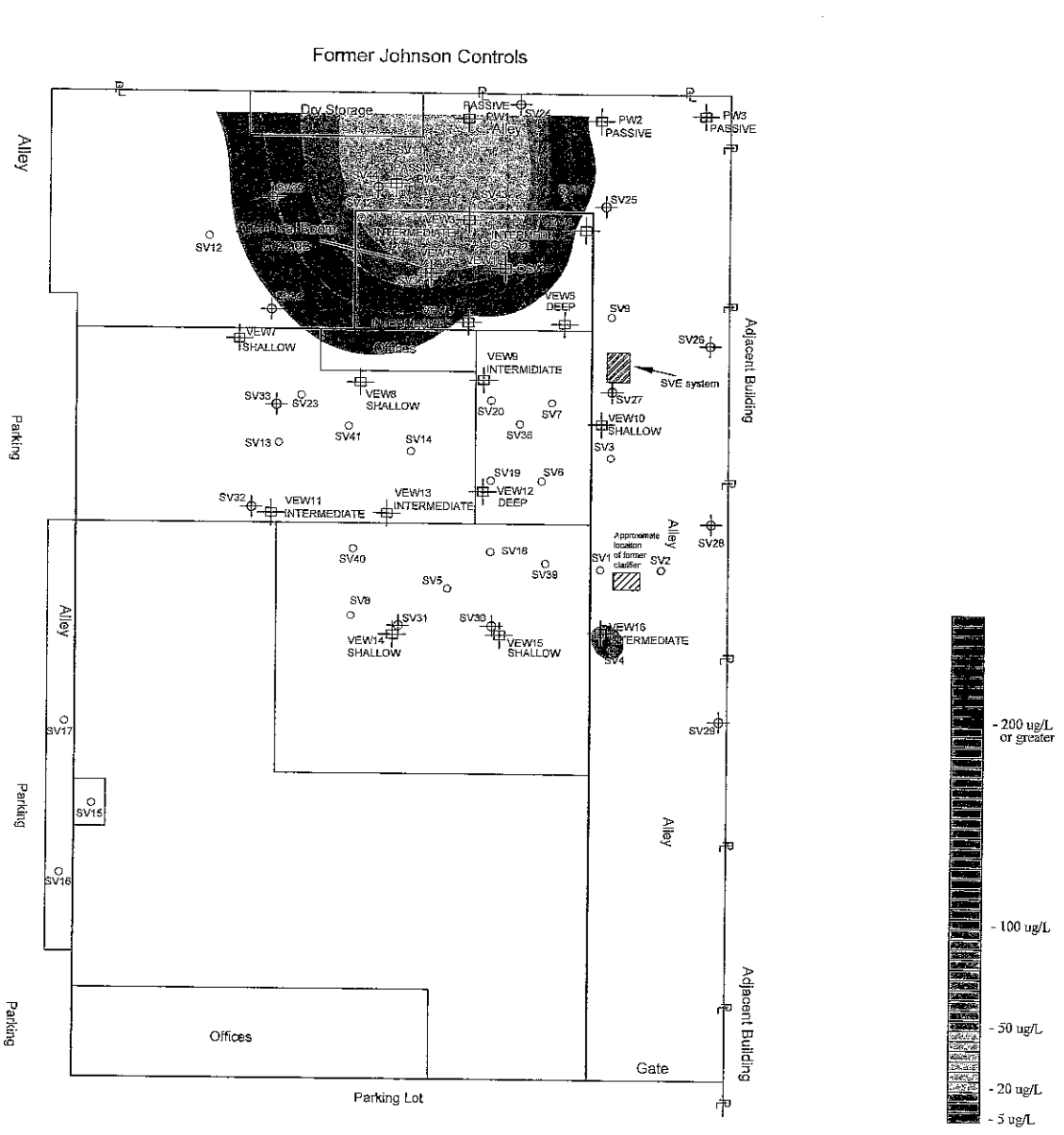

NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT SUB SLAB - 5 FT BGS (MARCH 2009)

Figure #
Figure 2B

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

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520 West 1st Street
Tustin, CA 92780

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(714) 730-5397

Fax
(714) 730-6476

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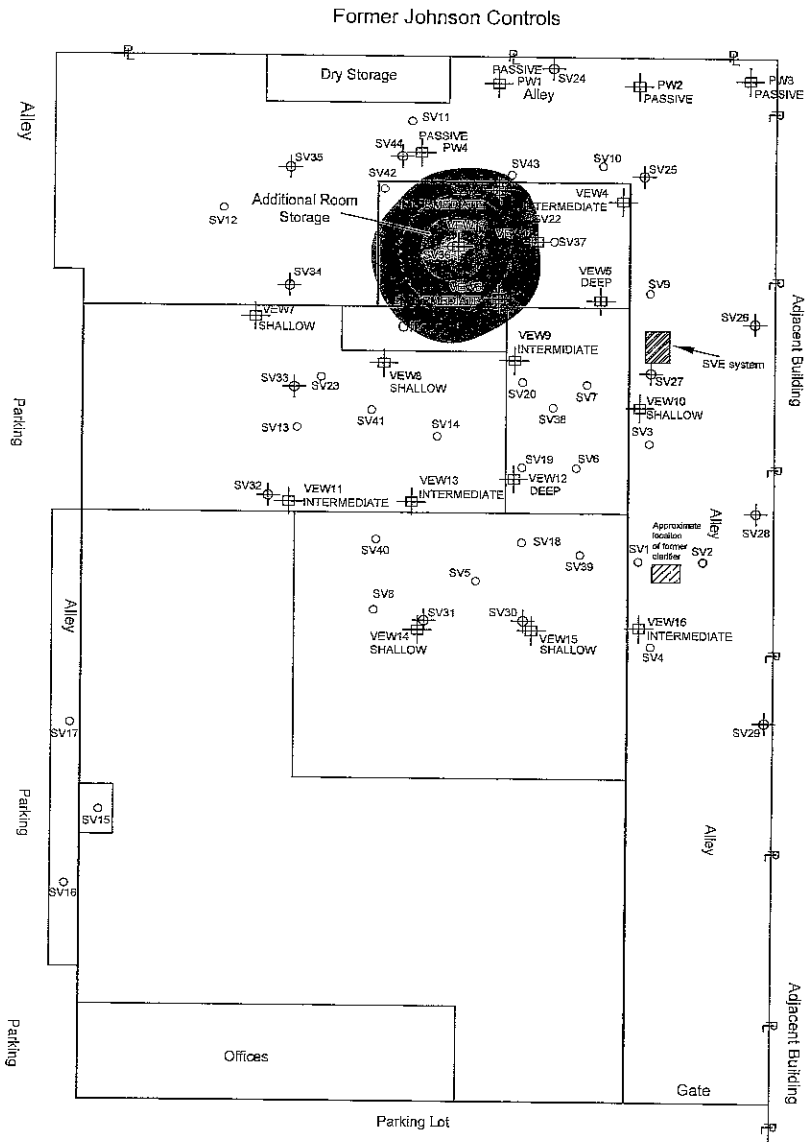
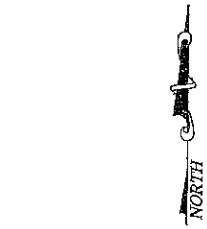




NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name: Universal Fullerton

Address: 1551 E. Orangethorpe Ave. Fullerton, CA

Number: 7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT SUB SLAB - 5 FT BGS (NOVEMBER 2009)

Figure #: Figure 2C

Revise Date: November 2009

Approximate Scale: 0' 60'

Scale: 1" = 60'

Company Information

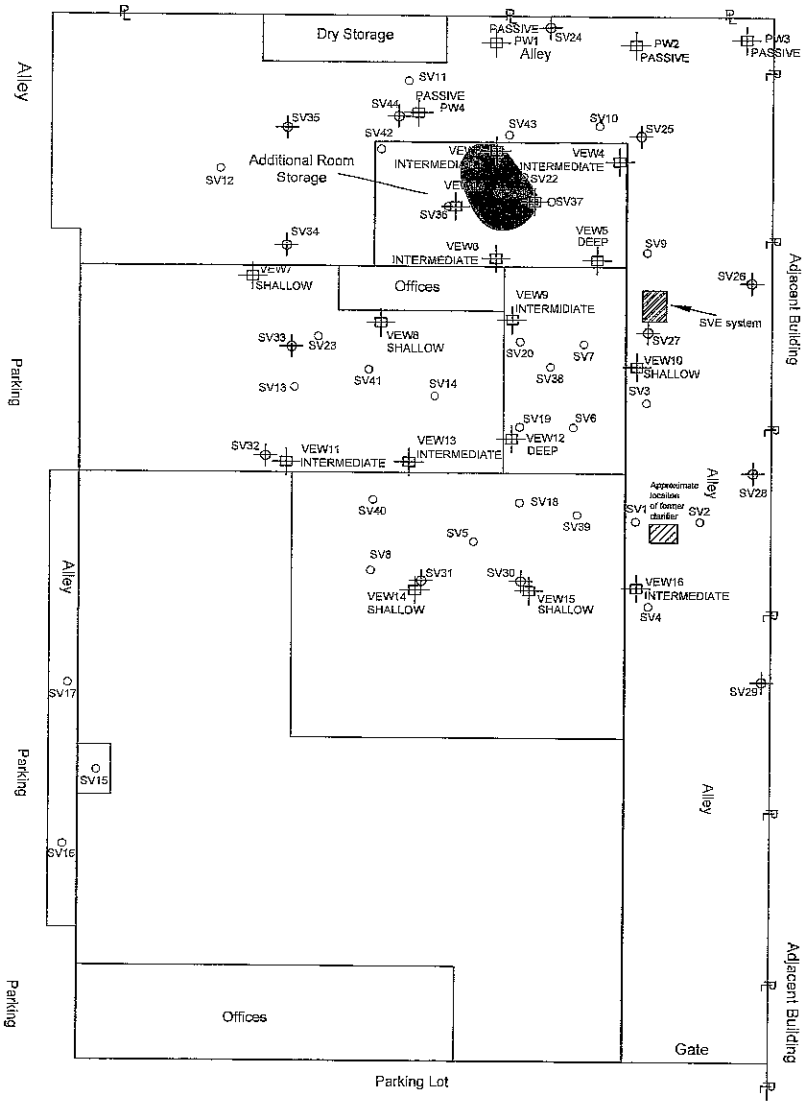
Address: 520 West 1st Street Tustin, CA 92780

Telephone: (714) 730-5397

Fax: (714) 730-6476

THE REYNOLDS GROUP ENVIRONMENTAL SERVICES

Former Johnson Controls



- 200 ug/L or greater
- 100 ug/L
- 50 ug/L
- 20 ug/L
- 5 ug/L

NORTH

General Notes

- SHALLOW -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 Ft bgs)
- DEEP -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- PASSIVE -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT SUB SLAB - 5 FT BGS (OCTOBER 2010)

Figure #
Figure 2D

Revise Date
December 2010

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

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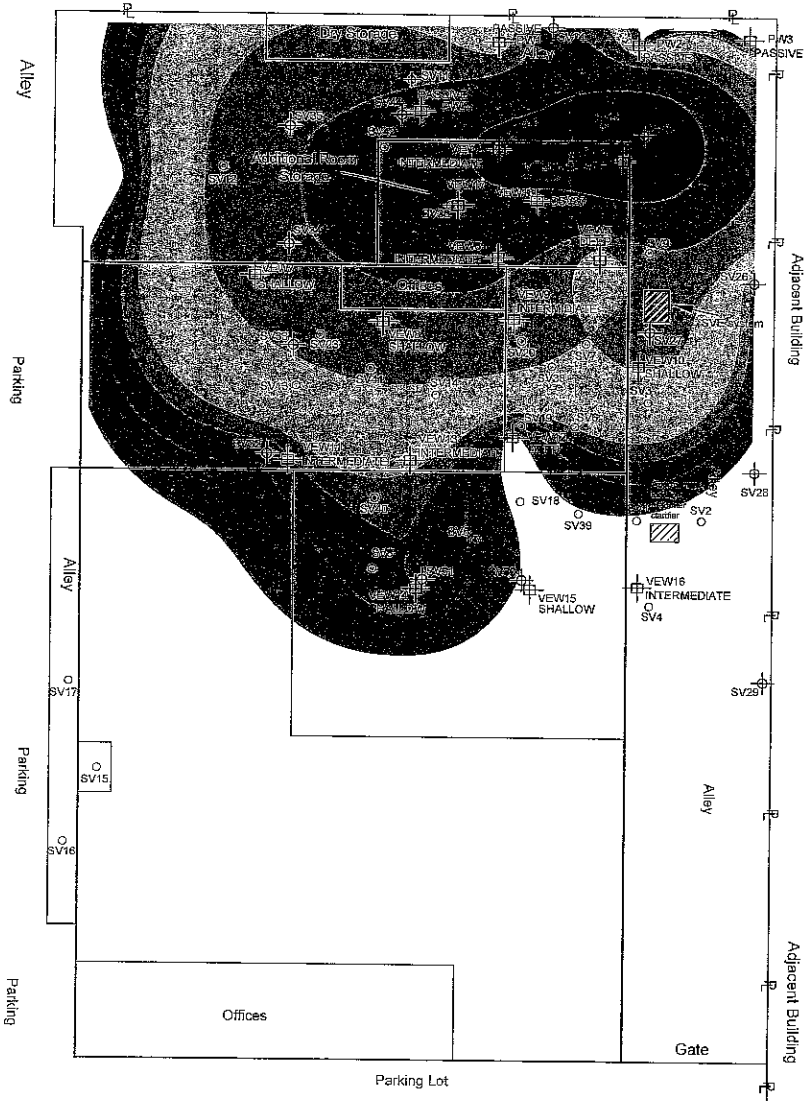
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls



- 200 ug/L or greater
- 100 ug/L
- 50 ug/L
- 20 ug/L
- 5 ug/L

NORTH

General Notes

- SHALLOW -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name: Universal Fullerton

Address: 1551 E. Orangethorpe Ave. Fullerton, CA

Number: 7115

Figure Details

SITE PLAN WITH PRE-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS

Figure #: Figure 3A

Revise Date: March 2009

0' 60' Approximate Scale

Scale: 1" = 60'

Company Information

Address: 520 West 1st Street Tustin, CA 92780

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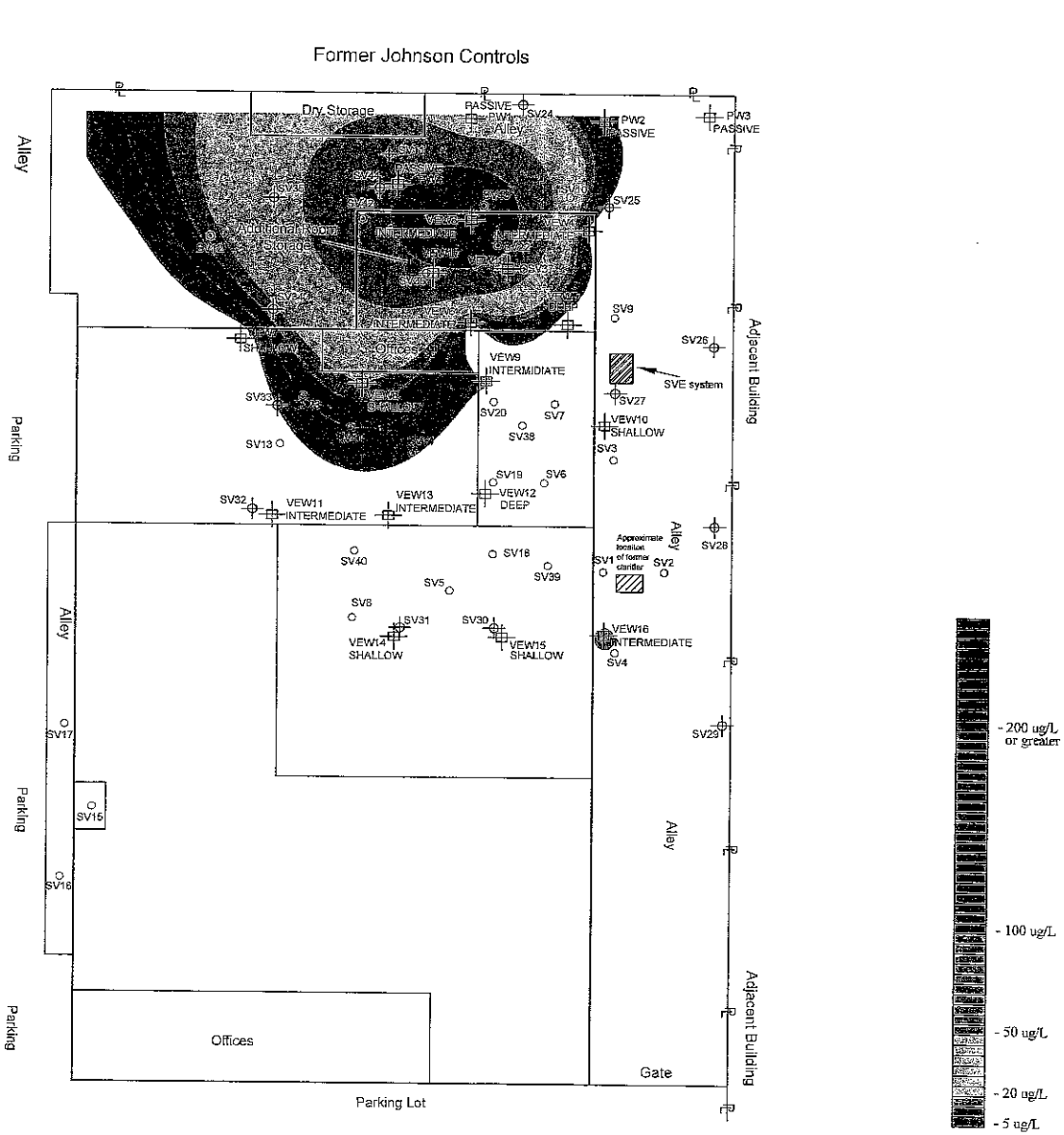
Fax: (714) 730-6476

THE REYNOLDS GROUP ENVIRONMENTAL SERVICES



NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name	Universal Fullerton
Address	1551 E. Orangethorpe Ave. Fullerton, CA
Number	7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS (MARCH 2009)

Figure #	Figure 3B
Revise Date	March 2009
0' 60' Approximate Scale	Scale 1" = 60'

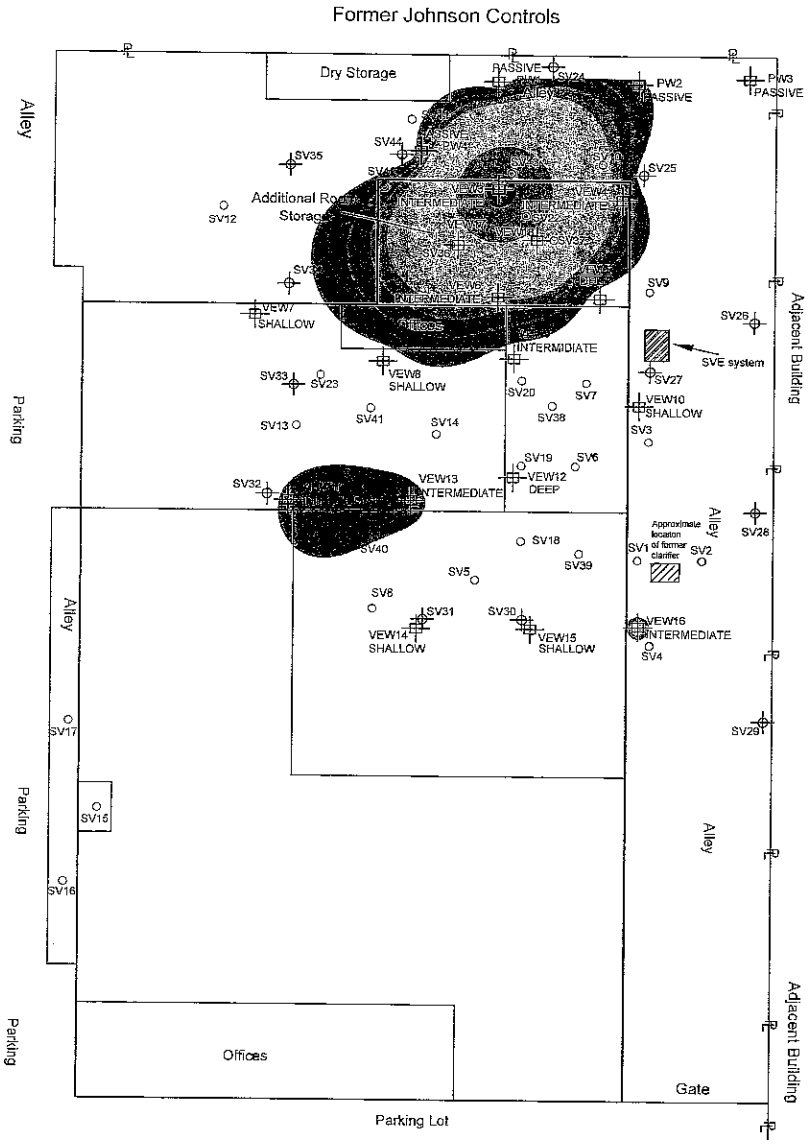
Company Information

Address: 520 West 1st Street, Tustin, CA 92780

Telephone: (714) 730-5397

Fax: (714) 730-6476

THE REYNOLDS GROUP ENVIRONMENTAL SERVICES



- 200 ug/L or greater
- 100 ug/L
- 50 ug/L
- 20 ug/L
- 5 ug/L

NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name: Universal Fullerton

Address: 1551 E. Orangethorpe Ave. Fullerton, CA

Number: 7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS (NOVEMBER 2009)

Figure #: Figure 3C

Revise Date: November 2009

Approximate Scale: 0' 60'

Scale: 1" = 60'

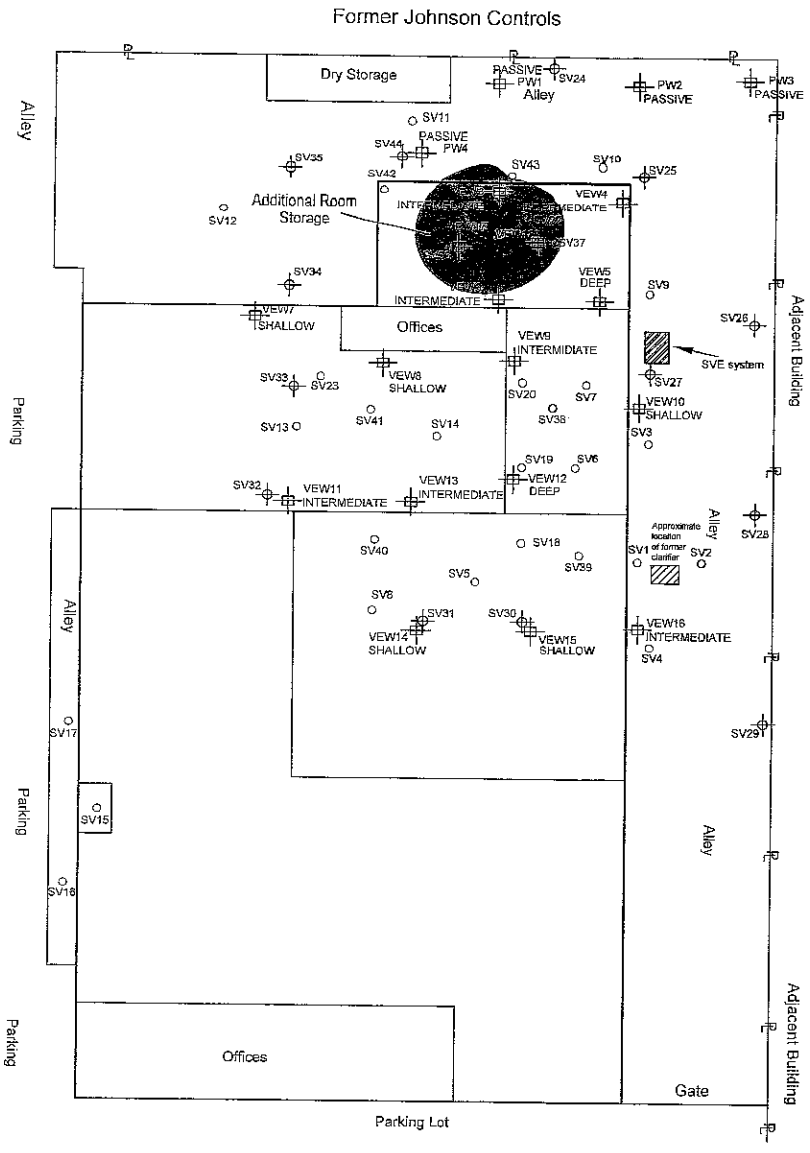
Company Information

Address: 520 West 1st Street Tustin, CA 92780

Telephone: (714) 730-5391

Fax: (714) 730-6476

THE REYNOLDS GROUP ENVIRONMENTAL SERVICES



- 200 ug/L or greater
- 100 ug/L
- 50 ug/L
- 20 ug/L
- 5 ug/L

NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-Depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 Ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS (OCTOBER 2010)

Figure #
Figure 3D

Revise Date
December 2010

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

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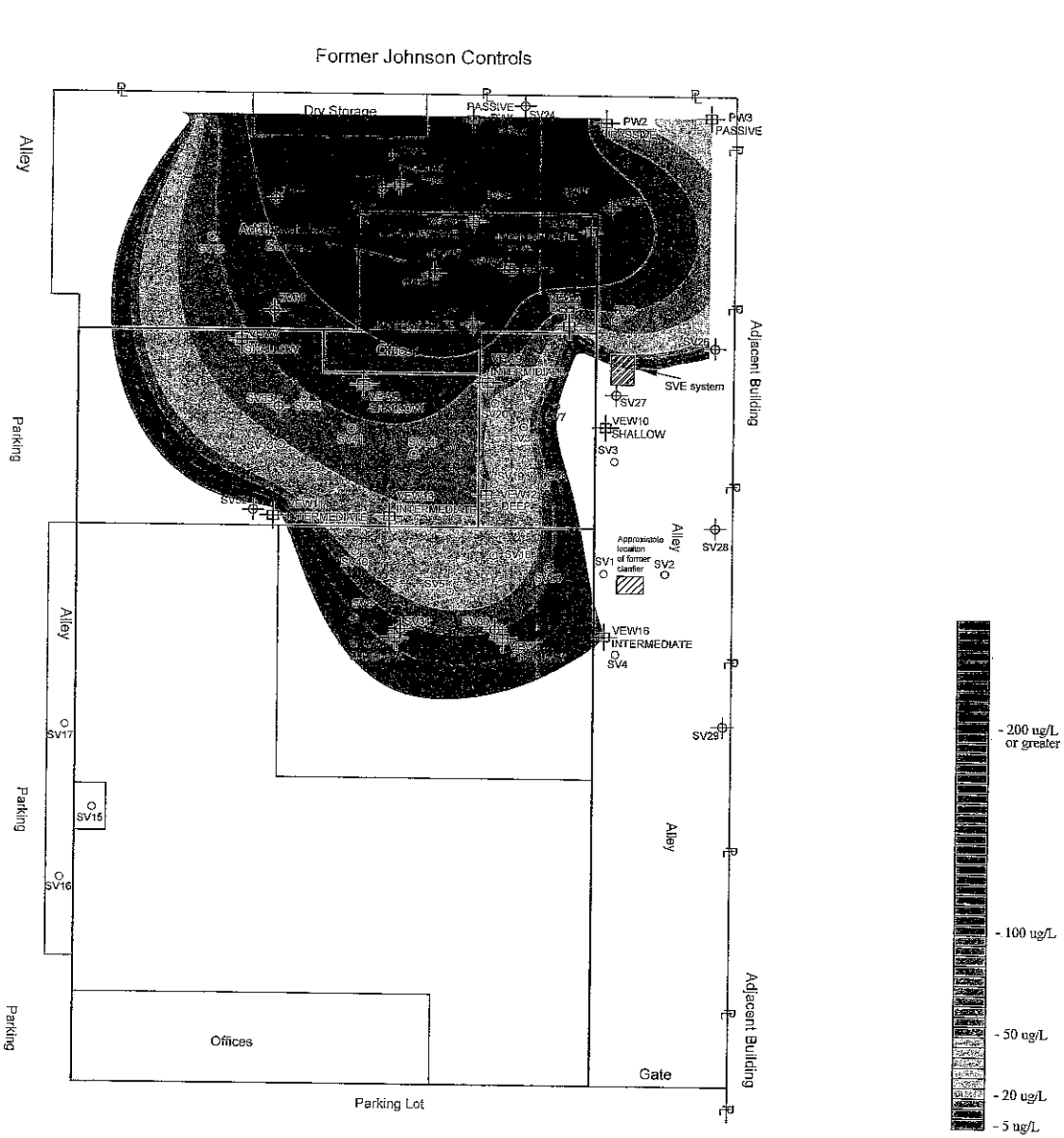
ENVIRONMENTAL SERVICES



NORTH

General Notes

- SHALLOW -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH PRE-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS

Figure #
Figure 4A

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

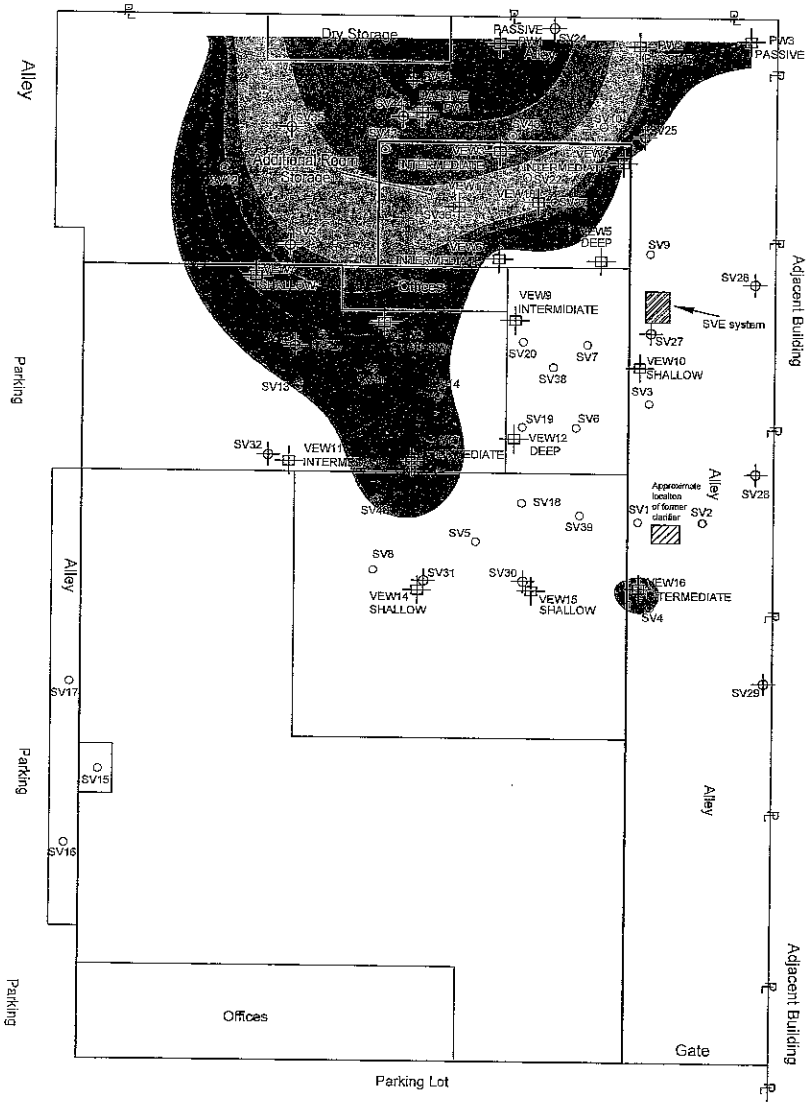
Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls



- 200 ug/L or greater
- 100 ug/L
- 50 ug/L
- 20 ug/L
- 5 ug/L

NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS (MARCH 2009)

Figure #
Figure 4B

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

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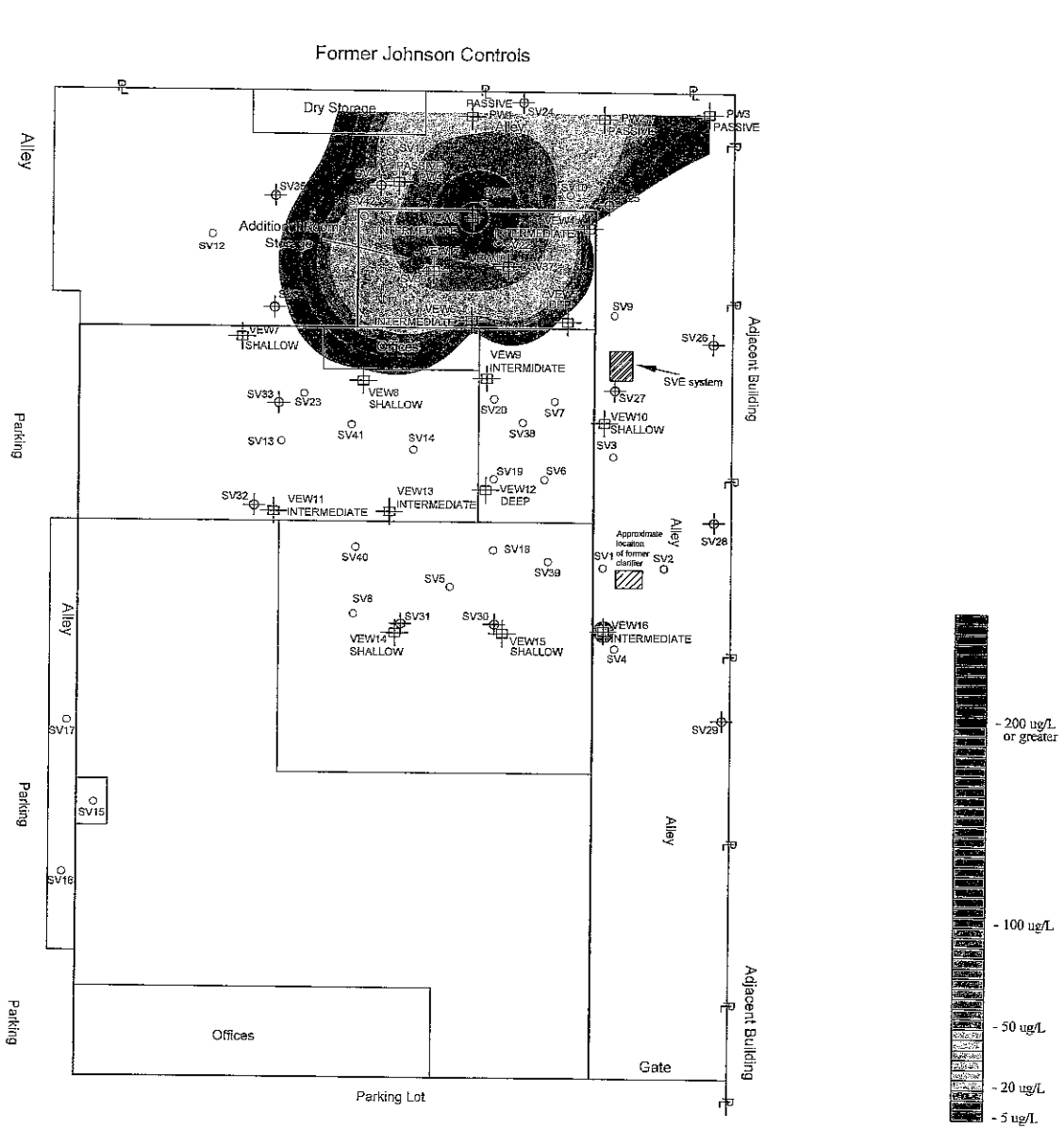
ENVIRONMENTAL SERVICES



NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS (NOVEMBER 2009)

Figure #
Figure 4C

Revise Date
November 2009

0' 60' Approximate Scale

Scale
1" = 60'

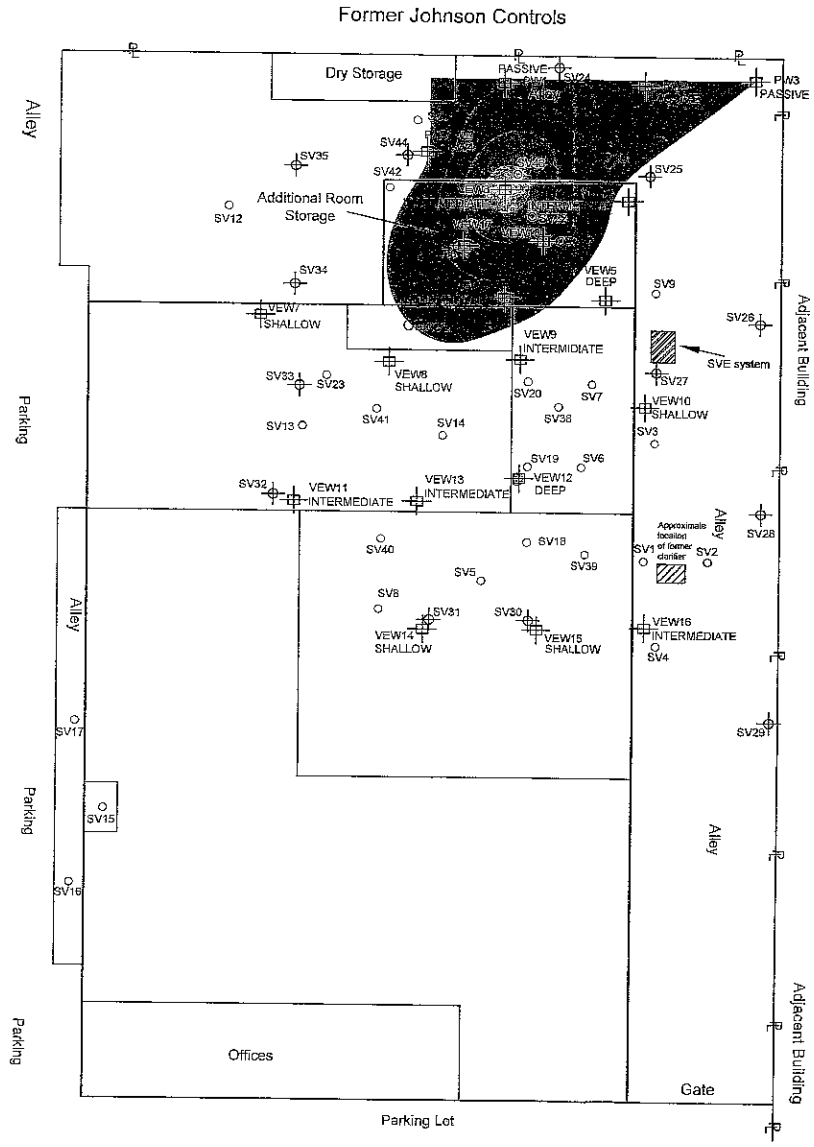
Company Information

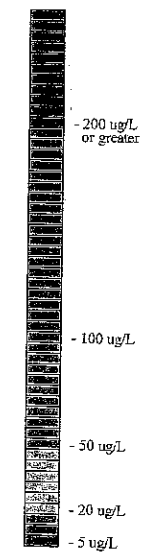
Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP ENVIRONMENTAL SERVICES





NORTH

General Notes

- SHALLOW -Vapor Extraction Well Locaiton (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS (OCTOBER 2010)

Figure #
Figure 4D

Revise Date
December 2010

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

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ENVIRONMENTAL SERVICES

Figure 5 - Cumulative PCE & TCE Removed over Time

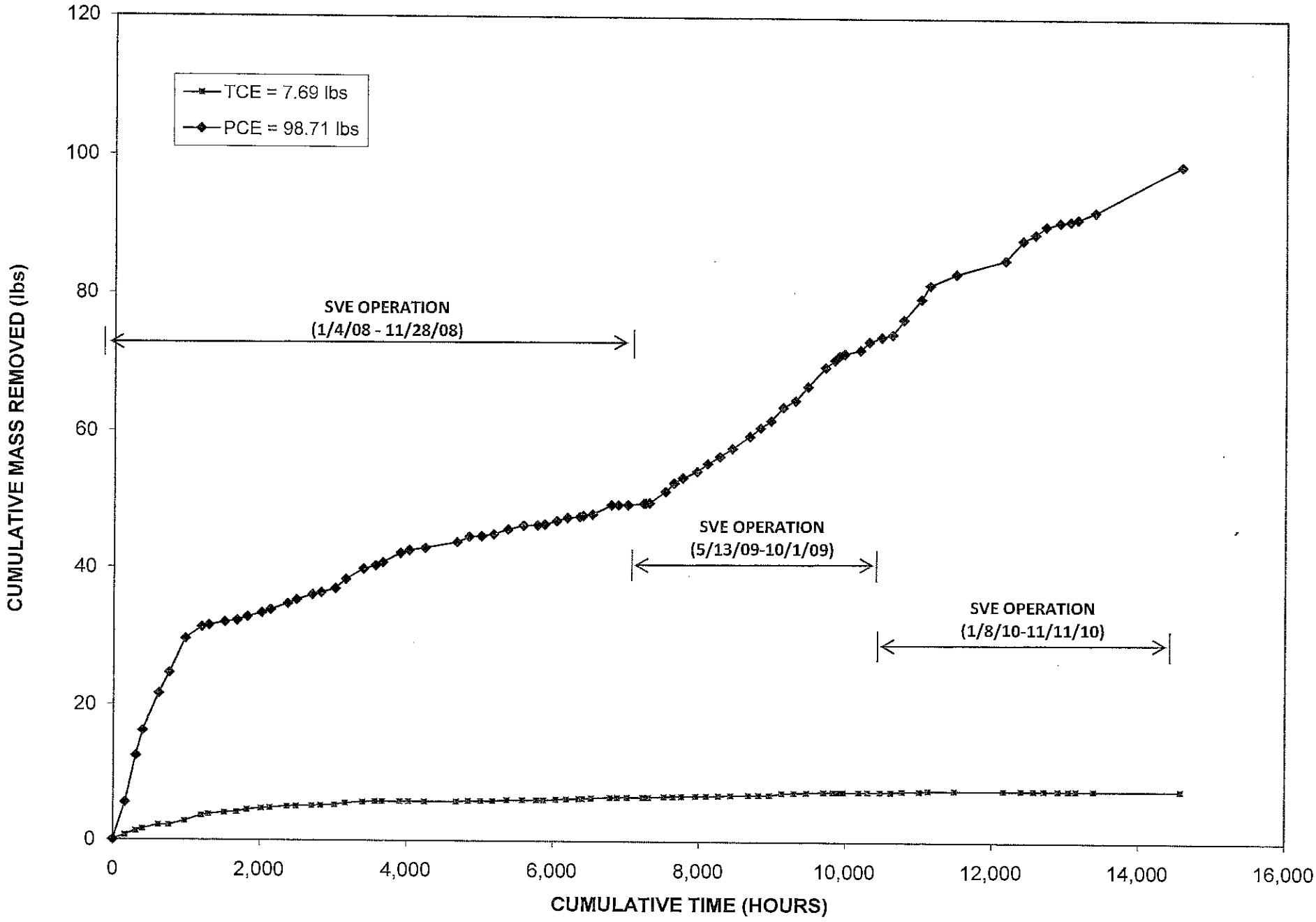
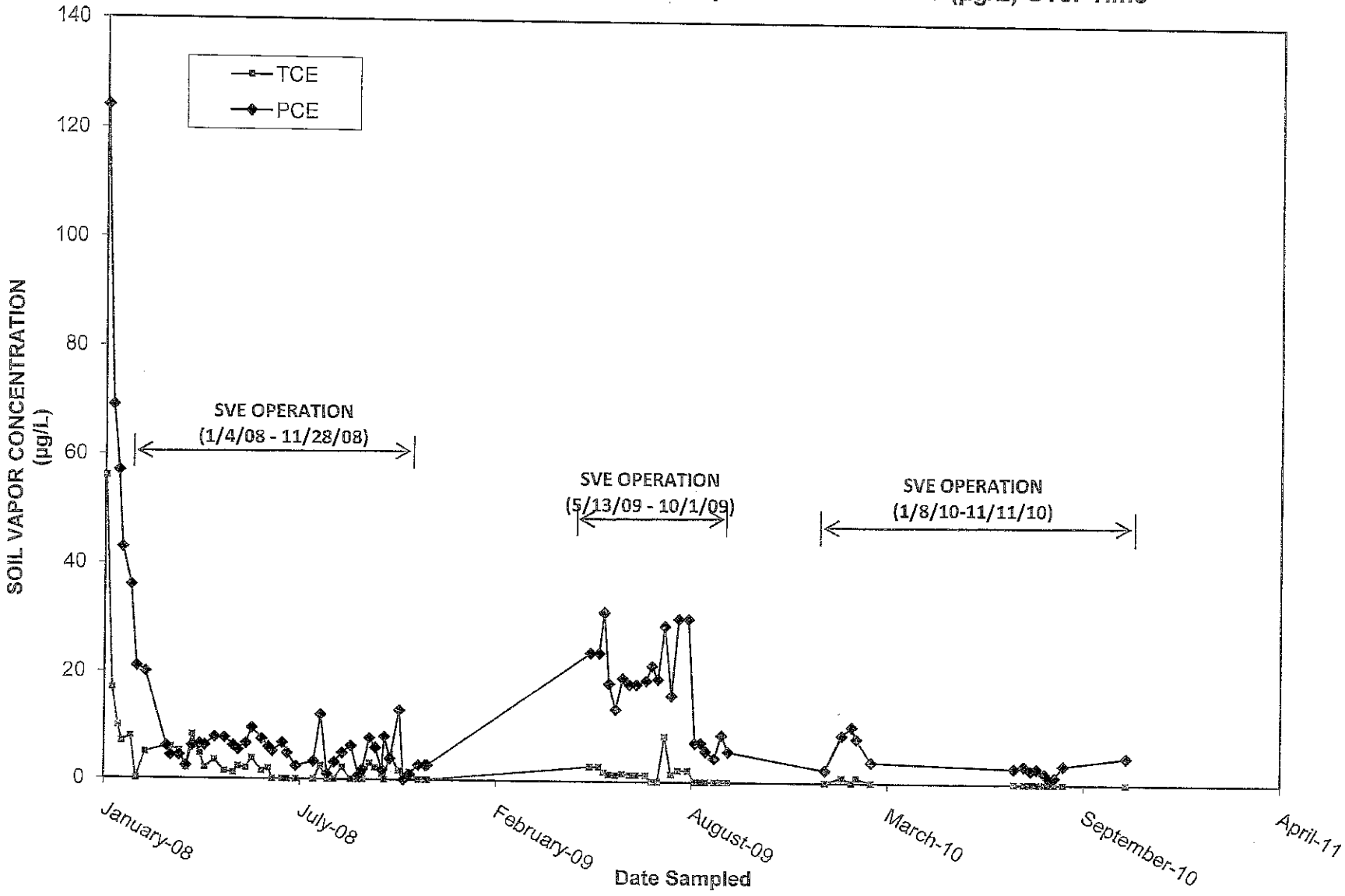


FIGURE 6 - Inlet PCE & TCE Vapor Concentrations (µg/L) Over Time



Reference:
Reynolds, 2011

July 26, 2011
(TRG No. 7115)

Mr. Luis Lodrigueza
ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
1241 E. Dyer Road Suite 120
Santa Ana, CA 92705-5611

THE REYNOLDS GROUP
a California corporation

SITE: **FULLERTON BUSINESS PARK NORTH**
(FORMER OCHCA #94IC29)
1551 EAST ORANGETHORPE AVENUE
FULLERTON, CALIFORNIA

SUBJECT: **REQUEST FOR VERIFICATION SAMPLING AND WELL ABANDONMENT**

Dear Mr. Lodrigueza:

Thank you for meeting with us on short notice yesterday. As we explained to you, SVE remediation at the northern building of the Fullerton Business Park North Facility (Site) located at 1551 E. Orangethorpe Avenue, in Fullerton California, has reduced the PCE and TCE concentrations to levels low enough for "commercial" closure consideration. Additionally, we explained that that the Site is undergoing sudden setup and in preparation for a new operation that is expected to begin by August 30, 2011, and will impact future access to most of the remediation extraction/monitoring wells and probes at the Site. Having met with the tenants and our Client, The Reynolds Group (TRG) has prepared this letter to request implementing remediation verification sampling of the shallow soil vapors for closure consideration, and performing immediate well/probe abandonment at the Site.

Background

During removal of two clarifiers at the Site in 1994 by Converse Consultants, concentrations of PCE and other constituents were detected in soil samples. Converse concluded, following further investigation, that PCE impacted soils existed primarily within the top 35 feet of soils in an estimated area of 1,200 square feet. Converse further stated that groundwater beneath the

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PO Box 1996, Tustin, California 92781-1996
www.reynolds-group.com
Fax 714-730-6476

Site, estimated at 115 ft bgs had not been impacted (Converse 1995). Soil vapor extraction was proposed by Converse to remediate the PCE impacted soils at the Site.

An SVE system operated at the Site from August to November 1995. Confirmation borings performed in December 1995 showed a decrease in PCE concentrations as follows: 99% at 15 ft bgs, 87% at 20 ft bgs, and 84% at 25 ft bgs. Based on those results, Converse recommended no further action at the Site to the Orange County Health Care Agency (OCHCA). In a Case Closure letter dated December 15, 1995, OCHCA confirmed completion of remedial action at the Site.

On April 11, 2005, the Orange County Water District (OCWD) filed a lawsuit naming several Potential Responsible Parties (PRPs), including the subject Site address, for contributing to a regional VOC-impacted groundwater plume in the vicinity of the Site.

Also in 2005, shallow soils at the Former Johnson Controls Battery property adjoining north of the subject Site at 1550 E. Kimberly Avenue, were discovered to be impacted with lead, arsenic, VOCs, and petroleum hydrocarbons (ref. JCI Fullerton Corrective Measures Completion Report, dated May 2007). Subsequent soil vapor extraction, soils excavation, and groundwater monitoring were performed at the Johnson Controls property. The DTSC determined that corrective action had been completed at the property for shallow and deep soils in letters May 22 and September 20, 2007, respectively.

In early 2007, TRG was contracted as the Consultant for the Fullerton Business Park Site. TRG advanced 17 soil vapor probes at the Site in March 2007 and performed an environmental screening on behalf of our Client prior to purchasing the subject Site. PCE and TCE were detected at maximum soil vapor concentrations of 222.2 and 115.2 micrograms per liter (ug/L), respectively, from five ft bgs. The fieldwork and results were detailed in TRG's "Results of Soil Vapor Investigation" report, dated March 19, 2007.

On July 24, 2007, TRG submitted a "Request for Remedial Action Supervision" to the Orange County Health Care Agency (OCHCA) on behalf of our Client for review of the results, for providing proper oversight, and for eventual regulatory closure. TRG met with Luis Lodrigueza of OCHCA on July 24, 2007, to discuss the case and was directed to further assess the soil vapors immediately beneath the concrete slab at the Site.

On July 30, 2007, five additional soil vapor points were sampled. Maximum concentrations of 1,079.4 ug/L PCE and 710.8 ug/L TCE were detected during the investigation. Details of the work were provided in TRG's "Summary of Shallow Soil Vapor Survey and Interior Ceiling Heights" report, dated August 9, 2007. Based on the data, OCHCA determined that health risk at the Site ranges from 5.9E-0.5 to 7.9E-04. These values were considered higher than the allowable risk of one in a million (1.0E-0.6). Based on the July 2007 vapor assessment, OCHCA requested further assessment in the warehouse to further define the lateral extent of chlorinated solvent impact and to provide a basis for remediation action.

In accordance with OCHCA, TRG installed and sampled 12 temporary soil vapor probes (SV23 through SV35), six vapor extraction wells (VEW3 through VEW 6, VEW9, and VEW12), and four passive wells (PMW1 through PMW4) from October 2007 through January 2008. On February 22, 2008, TRG conducted an additional vapor sampling event to determine the effectiveness of the SVE system. TRG collected 14 soil vapor samples from eight temporary soil probes (SV26, SV27, SV29 through SV33 and VEW6). On February 25 and 27, 2008, TRG installed eight additional soil vapor extraction wells (VEW7, VEW8, VEW10, VEW11, and VEW13 through VEW16). The work was detailed in TRG's "Soil Vapor Survey and Additional Vapor Well Installation Report", dated March 14, 2008. Well and probe details are summarized in the attached Table 1 – Well Construction Detail Summary, and analytical results of the soil vapor sampling are provided in the attached Table 2 – Summary of Soil Vapor Survey Sampling Results.

Summary of TRG SVE Remediation

2008

Since January 4, 2008, TRG has performed SVE from 14 doubleltriple-nested Vapor Extraction Wells (YEW) installed at the Site. During 2008, the SVE system consisted of a 300 cfm blower and two 1,000 Ibs carbon filters in series. The wells were connected to the SVE system through an above-ground system manifold and the system operated by extracting from a different series of wells on a rotational basis, focusing on "hot zones" to optimize extraction and maintain a good vacuum of influence. After 11 months of soil vapor extraction at the Site, soil vapor PCE and TCE concentrations declined significantly at most locations beneath the Site building to asymptotic conditions. During the 11 month period in 2008, 49.5 Ibs of PCE and 6.6 Ibs of TCE were removed and treated.

2009

In March, 2009, TRG performed verification sampling at the subject Site to verify that the 11 months of SVE at the Site had successfully removed the PCE and TCE in the subsurface soils to levels low enough for low risk closure consideration. Results of the verification sampling indicated that the SVE remedial efforts reduced PCE and TCE vapor concentrations notably in the shallow soils throughout most of the Site and, to a lesser degree, in soils at the northeastern end of the building, near the adjacent Former Johnson Controls Battery property (Johnson Controls). Johnson Controls is known to have released chlorinated compounds (including PCE and TCE) into the subsurface.

The significant reduction in PCE and TCE in shallow soils suggested that the Site building areas had remediated to low enough concentrations for commercial/industrial use low risk closure consideration and, thus, TRG requested that Orange County Health Care Agency (OCHCA) evaluate results of this investigation for indoor human health risk analysis and case closure.
In TRG's meeting with Luis Lodrigueza of OCHCA on May 11,2009, Mr. Lodrigueza directed additional SVE remediation of shallow soils in the northeastern end of the building (remaining

area of concern), since PCE concentrations in that area remained too high for low risk closure using OCHCA criteria (PCE up to 767 ug/L and TCE up to 107 ug/L). Mr. Lodrigueza stated that the remaining areas appeared acceptable for low risk closure.

On May 13, 2009, with Client approval, TRG restarted the SVE system, targeting the remaining area of concern by extracting from wells located in that area (nested well VEW3 at 5, 15, and 25 ft bgs). The SVE system operated through October 2009, and a second verification sampling event was proposed and approved by Mr. Lodrigueza. The second verification sampling event was performed on November 24, 2009, and results were submitted in a report to Mr. Lodrigueza. In an emailedOCHCAresponseonNovember30.2009.Mr. Lodrigueza reported the results of his human health risk evaluation of the second verification sampling and concluded that the residual shallow soil vapor results in the subslab locations (SV368 and SV378) remained higher than the OCHCA acceptable risk and hazard levels.

2010

In January 2010, to target the residual PCE area TRG installed two shallow 5 ft vapor extraction wells (VEWI7-5 and VEWI8-5) in the vicinity of sampling location SV368 and SV378, and resumed SVE remediation extracting from the newly installed wells until March 2010. In March 20 I 0, TRG notified Mr. Lodrigueza to perform a third round of verification sampling at the Site as progress of the soil vapor samples collected from the target area were favorable (all "nondetect").

In response Mr. Lodrigueza requested that the third verification sampling event be scheduled at the end of April 2010, and that it include Site-wide (historical remediation area) verification sampling.

On April 27 and 28, 2010, TRG performed the third SVE remediation verification sampling in the presence of Mr. Lodrigueza. Evaluation of the soil vapor results showed that PCE concentrations in the northern building area from the subslab to 25 ft bgs were still above

OCHCA's health risk threshold.

As such, in July 2010, TRG resumed SVE remediation on the northern building area extracting in the area of "high" residual PCE (wells VEW3, VEW17, VEW18) and operated until January 28, 2011. A round of soil vapor sampling performed on October 28, 2010 to determine the progress of the soil vapor extraction work. Results showed some progress in the decrease of soil vapor concentrations as shown on Table 2.

2011

TRG resumed SVE remediation at the Site continuing to target the northern building area from wells VEW3, VEW17, VEW18 on February 23, 2011. The system operated continuously through beginning of April 2011, and then intermittently from April through May 2011. The SVE blower stopped functioning as of June 4th, 2011. To take advantage of the SVE system downtime, TRG performed a round of soil vapor verification sampling on June 16, 2011 (two weeks after the SVE system has been off). Analysis of the soil vapors showed significant decline of PCE and TCE concentrations from the previously remaining "hot" wells. Results of the verification sampling are shown in Table 2, and the attached Jones Environmental Mobile Laboratory Report.

Remediation Summary

Details of the SVE operations and PCE and TCE mass removal calculations are shown in the attached Table 3 – Summary of Operational Soil Vapor Sampling Results, and Table 4 – Summary of Operational Data and Mass Removal. A brief summary of SVE Remediation detail is outlined below:

Date of SVE System Start Up:	January 4, 2008
Total System Running Time Since Start-Up:	17,285.9 hrs
Average Total Flow Rate @ Inlet:	180 cfm
Number of Vapor Extraction Wells:	14 at multiple depths (see Table 1)
Cumulative Pounds of PCE Removed:	107.21 lbs (see Table 4 and Figure 3)
Cumulative Pounds of TCE Removed:	7.55 lbs (see Table 4 and Figure 3)

Event	Date	Months of Operation	Maximum Concentrations (ug/L)	
			PCE	TCE
Assessment	2007	N/A	4,200	711
SVE Remediation I	Jan to Nov 2008	11	208	34
Verification Sampling I	Mar 2009	N/A	767	107
SVE Remediation II	May to Oct 2009	6	53	5.4
Verification Sampling II	Nov 2009	N/A	17.1	19.9
SVE Remediation III	Jan to Mar 2010	3	--	--
Verification Sampling III	Apr 2010	N/A	92.3	11.9
SVE Remediation IV	Jul 2010 to Jan 2011	7	24.9	11.9
SVE Remediation V	Feb to Jun 2011	3*	146.3	4.8
Verification Sampling IV*	June 2011	N/A	17.6	3.84

*Operated continuously for one month and intermittently for two months

**Performed without OCHCA supervision

Request to Perform Cleanup Verification Sampling

Based on the June 16, 2011 soil verification sampling results, performed after approximately two weeks of SVE shutdown period, TRG believes that current residual PCE and TCE soil vapor concentrations in the shallow soil at the northern building area has reached levels that will not posed a human health risk for this commercial property, as soil vapor PCE and TCE concentrations from the sampling wells/probes showed decreased levels or levels that have little to no bounce-back in concentrations in wells with previous low concentrations. Therefore, TRG requests to perform a final cleanup verification sampling under OCHCA supervision.

As per our July 25, 2011, conversation with Mr. Lodrigueza, the Site is undergoing setup and in preparation of full manufacturing operation that is expected to begin by August 30, 2011, and will affect access to most of the remediation extraction/monitoring wells and probes at the Site. Thus, TRG proposes to perform the verification sampling as soon as possible to avoid need to install additional verification sampling wells and probes, and to reduce hindering the operations at the Site. The verification sampling timing should be appropriate as the SVE system having been off at the Site for more than one month for soil vapor rebound period.

TRG proposes to perform verification sampling on the northern bulding area, where residual PCE and TCE concentrations were above OCHCA's health risk threshold as per the April 2010 site-wide verification sampling performed under OCHCA's oversight, and where TRG has been targeting SVE remediation since 2009. TRG proposes to perform soil vapor sampling on existing wells and probes as methods performed during previous verification sampling events utilizing mobile laboratory services by Jones Environmental of Fullerton, CA, and following the February 7, 2005, updated DTSC "Interim Final – Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air." TRG proposes to sample the following wells and probes: VEW3-5, VEW3-15, VEW3-25, VEW4-5, VEW4-15, VEW4-25, VEW5-5, VEW6-5, VEW6-15, VEW6-25, VEW17-5, VEW18-5, SV36-SS, SV37-SS, SV42-SS, SV43-SS, SV43-5, SV43-15.

Based on the April 2010 site-wide verification sampling results, OCHCA determined that areas other than the northern building area contained soil vapor concentrations that were below the OCHCA's health risk threshold, as residual PCE and TCE levels from the sampled wells and probes (Wells VEW7 through VEW16 and adjacent probes) were low and had little to no bounce-back in concentrations after SVE remediation period. See Table 2. TRG thus requests for OCHCA to utilize the April 2010 data for its health risk calculation, and not to perform another round of verification monitoring on these wells/probes.

Request to Abandon Wells

Given the demonstrated effectiveness of remediaion in most areas and the pending move-in of a manufacturing tenant, TRG requests that wells not associated with the remediation of the northern building area be abandoned. These wells are not necessary since residual soil vapor concentrations in these areas are no longer of concern. So TRG requests to immediately abandon these wells. As previously stated, our client is currently preparing the Site for tenant operations anticipated to start by August 30, 2011, and removing these remediation wells, probes and remediation piping is necessary to locate the tenant's activities and machinery placement at the Site. All wells will be pressure-grouted with bentonite grout and capped with concrete at the wellhead. Please see Figure 2 for proposed wells and probes to be abandoned.

Report on the Work

The results of the cleanup verification sampling fieldwork and analytical results and approved well/probe abandonment activities will be put into a report signed by a California Registered Civil Engineer that incorporates all of the requirements of your agency. TRG requests that OCHCA evaluate the results for indoor human health risk analysis and closure consideration.

Health and Safety Plan

All staff and third parties who will be near or around the project will be required to sign a site specific health and safety plan.

REGISTERED PROFESSIONAL STATEMENT

All work on this project will be performed under the responsible charge of a California Registered Civil Engineer. The licensed professional whose wet ink signature and seal appears at the end of this report will supervise all work associated with the project.

CORRESPONDENCES CONCERNING THIS PROJECT:

Please be sure that your mailing list includes The Reynolds Group and:

Dominique Baione
UNIVERSAL MOLDING EXTRUSION COMPANY
9151 East Imperial Highway
Downey, CA 90242

and

James R. McFadden
GRUBB & ELLIS
500 North State College Suite 100
Orange, CA 92868

and

John C. Glaser
GLASER, TONSICH & ASSOCIATES, LLC
765 West 9th Street
San Pedro, CA 90731

Should you have any questions regarding this letter, please do not hesitate to contact our Project Manager for this Site, Alejandro Fuan, at (714) 920-9312 (cell) or via e-mail to fuan@reynolds-group.com . Thank you for your oversight of this work.

Sincerely,
THE REYNOLDS GROUP
a California corporation by

F. Edward Reynolds, Jr.
California Registered Civil Engineer #38677

Alejandro Fuan
Project Manager

Attachments:

Table 1 –	Well Construction Detail Summary
Table 2 –	Summary of Soil Vapor Survey Sampling Results
Table 3 –	Summary of Operational Soil Vapor Sampling Results
Table 4 –	Summary of Operational Data and Mass Removal
Figure 1 –	Site Location Map
Figure 2A-2E	SVE Remediation Progress at Subslab to 5 ft bgs
Figure 3A-3E	SVE Remediation Progress at 15 ft bgs
Figure 4A-4E	SVE Remediation Progress at 25 ft bgs
Figure 5 –	Graph of Cumulative PCE and TCE Removed Over Time
Figure 6 –	Graph of PCE and TCE Concentrations Over Time
Figure 7 –	Site Plot Plan Proposed Wells and Probes to be Abandoned
Attachment A	Laboratory Analytical Results
Attachment B	System Operation Field Notes

cc: Dominick Baione, **UNIVERSAL MOLDING EXTRUSION COMPANY**
James McFadden, **GRUBB & ELLIS**
John C. Glaser, **GLASER, TONSICH & ASSOCIATES, LLC**

TABLE 1
WELL CONSTRUCTION DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE
FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
VEW3	VEW3-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW3-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW3-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW4	VEW4-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW4-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW4-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW5	VEW5-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW5-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW5-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW5-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft
VEW6	VEW6-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW6-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW6-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW7	VEW7-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW7-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW8	VEW8-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW8-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW9	VEW9-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW9-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW9-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW10	VEW10-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW10-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW11	VEW11-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW11-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW11-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW12	VEW12-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW12-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW12-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW12-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft
VEW13	VEW13-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW13-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW13-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW14	VEW14-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW14-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW15	VEW15-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW15-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft

TABLE 1 (CONTINUED)
WELL CONSTRUCTION DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE
FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
VEW16	VEW16-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
	VEW16-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW16-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
PMW1	PMW1-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW1-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW1-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW1-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW2	PMW2-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW2-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW2-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW2-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW3	PMW3-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW3-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW3-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW3-60	Nylaflow tubing	1/4"	60 ft	60 ft
PMW4	PMW4-5	Nylaflow tubing	1/4"	5 ft	5 ft
	PMW4-15	Nylaflow tubing	1/4"	15 ft	15 ft
	PMW4-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW4-60	Nylaflow tubing	1/4"	60 ft	60 ft
SV23	SV23-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV23-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV24	SV24-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV24-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV25	SV25-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV25-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV26	SV26-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV26-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV27	SV27-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV27-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV28	SV28-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV28-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV29	SV29-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV29-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV30	SV30-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV30-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV31	SV31-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV31-15	Nylaflow tubing	1/4"	15 ft	15 ft

TABLE 1 (CONTINUED)
WELL CONSTRUCTION DETAIL SUMMARY
1551 EAST ORANGETHORPE AVENUE
FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
SV32	SV32-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV32-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV33	SV33-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV33-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV34	SV34-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV34-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV35	SV35-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV35-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV36	SV36-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub slab)
SV37	SV37-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub slab)
SV38	SV38-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub slab)
SV39	SV39-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub slab)
SV40	SV40-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub slab)
SV41	SV41-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub slab)
SV42	SV42-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub slab)
SV43	SV43-1	Nylaflow tubing	1/4"	1 ft (sub-slab)	1 ft (sub slab)
SV44	SV44-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV44-15	Nylaflow tubing	1/4"	15 ft	15 ft
	SV44-25	Nylaflow tubing	1/4"	25 ft	25 ft

TABLE 2
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV1-5	3/9/2007	OS	69.9	17.4
SV1-5 Dil.	3/9/2007	78.8	70.7	18.2
SV2-5	3/9/2007	15.3	11	3.2
SV3-5	3/9/2007	36.4	38.6	25.3
SV4-5	3/9/2007	39.2	24.2	9.1
SV5-5	3/9/2007	35.3	58.2	40.4
SV6-5	3/9/2007	80.3	115.2	65.3
SV7-5	3/9/2007	99.6	101.7	78.3
SV8-5	3/9/2007	7.2	22.6	17.7
SV9-5	3/9/2007	53.7	11.6	6.0
SV10-5	3/9/2007	222.2	88.8	79.7
SV11-5	3/9/2007	34.9	1.9	<1.0
	(DUP) 3/9/2007	32	1.8	<1.0
SV12-5	3/9/2007	72.8	50.4	63.6
SV13-5	3/9/2007	7.4	16.3	7.4
SV14-5	3/9/2007	50.1	98.7	78.2
SV15-5	3/9/2007	1.4	<1.0	54.4
SV16-5	3/9/2007	<1.0	<1.0	<1.0
SV17-5	3/9/2007	<1.0	<1.0	<1.0
SV18-5	7/30/2007	163.5	120.2	64.3
SV19-5	7/30/2007	190.8	190.2	239.9
SV20-5	7/30/2007	164.5	99.3	66.2
SV21-5	7/30/2007	<1.0	<1.0	<1.0
SV22-5	7/30/2007	1,079.40	710.8	257.6
	(DUP) 7/30/2007	984.8	684.9	232.8
SV23-5	7/30/2007	72.1	80.4	79.8
SV24-5	2/18/2008	REFUSAL		
SV24-15	10/16/2007	120	32	30
SV24-15	2/18/2008	REFUSAL		
SV25-5	10/16/2007	110	48	100
	2/18/2008	REFUSAL		
	3/2/2009	0.338	<0.02	<0.02
SV25-15	10/16/2007	180	100	250
	2/18/2008	REFUSAL		
	3/2/2009	1.11	<0.02	<0.02
SV26-5	2/18/2008	REFUSAL		
SV26-15	10/16/2007	11	2	14
	2/18/2008	2.2	1.1	

TABLE 2 (CONTINUED)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter – µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV27-5	10/16/2007	66	50	88
	2/18/2008	5.1	3.1	<1.0
	(1P) 3/2/2009	0.816	0.096	<0.02
	(3P) 3/2/2009	0.745	0.132	<0.02
	(7P) 3/2/2009	0.678	0.108	<0.02
	4/28/2010	<0.02	<0.02	<0.02
SV27-15	10/16/2007	74	68	140
	2/18/2008	10	2.5	<1.0
	(1P) 3/2/2009	0.756	0.05	<0.02
	(3P) 3/2/2009	0.94	0.063	<0.02
	(7P) 3/2/2009	0.679	0.05	<0.02
SV28-5	10/16/2007	1.4	0.4	<0.5
SV29-5	10/16/2007	22	5.4	0.9
	(DUP) 10/16/2007	23	5.2	0.8
	2/18/2008	9.6	1.6	<1.0
SV29-15	10/16/2007	21	6.3	1
	2/18/2009	13.3	2.9	<1.0
SV30-5	10/16/2007	53	71	61
	2/18/2008	14.4	15.7	<1.0
	3/2/2009	2.62	1.8	0.684
	4/27/2010	<0.02	<0.02	<0.02
SV30-15	10/16/2007	4.8	2.8	0.5
	2/18/2008	21.7	15.7	6.5
	3/2/2009	6.35	5.39	1.08
	(DUP) 3/2/2009	6.22	4.75	0.962
	4/27/2010	0.446	1.35	0.36
SV31-5	10/16/2007	1.5	2	0.6
	2/18/2008	REFUSAL		
	3/2/2009	<0.02	0.421	<0.02
	4/27/2010	<0.02	<0.02	<0.02
SV31-15	10/16/2007	16	44	53
	(DUP) 10/16/2007	13	41	53
	2/18/2008	11.9	23.4	9
	3/2/2009	0.068	0.029	<0.02
	4/27/2010	0.354	0.570	<0.02
SV32-5	10/16/2007	11	38	73
	2/18/2008	2	7.2	<1.0
	3/2/2009	0.132	<0.02	<0.02
	4/24/2010	<0.02	<0.02	<0.02
SV32-15	10/16/2007	11	32	49
	2/18/2008	2.3	10.5	9.4
	(DUP) 2/18/2008	2.3	12.4	10.3

TABLE 2 (CONTINUED)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV32-15 (cont'd)	3/2/2009	<0.02	<0.02	0.02
	4/24/2010	0.115	<0.02	<0.02
SV33-5	10/16/2007	25	47	55
	2/18/2008	1.0	<1.0	<1.0
	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	<0.02	<0.02	<0.02
SV33-15	10/16/2007	54	90	140
	2/18/2008	6.7	15.9	<1.0
	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	<0.02	<0.02	<0.02
SV34-5	3/2/2009	0.276	0.064	<0.02
SV34-15	10/16/2007	92	110	460
	(DUP) 10/16/2007	93	72	140
	3/2/2009	2.68	<0.02	0.24
	4/28/2010	<0.02	<0.02	<0.02
SV35-5	3/2/2009	0.198	<0.02	<0.02
SV35-15	3/2/2009	0.156	<0.02	<0.02
SV36	3/2/2009	26.7	20.7	0.433
	11/24/2009	17.1	17.3	<0.02
	4/27/2010	9.87	12.5	0.527
	10/28/2010	3.57	2.44	0.029
	6/16/2011 8/2/11	5.50 3.04	3.84 1.82	<0.008
SV37	(1P) 3/2/2009	2.36	4.77	2.71
	(3P) 3/2/2009	2.59	5.2	3.04
	(7P) 3/2/2009	2.21	4.62	2.74
	11/24/2009	11.4	19.9	0.229
	(DUP) 11/24/2009	10.5	17	0.196
	4/27/2010	0.933	1.67	1.18
	4/28/2010	1.43	2.8	2.07
	10/28/2010	0.175	0.38	0.258
	(DUP) 10/28/2010	0.169	0.374	0.299
	6/19/2011 8/2/11	0.202 0.07	0.387 0.54	0.139 0.050
SV38	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	0.198	0.618	0.941
SV39	3/2/2009	0.307	0.547	1.16
	(DUP) 3/2/2009	0.329	0.564	1.18
SV40	3/2/2009	0.103	0.1	<0.02
	4/27/2010	0.368	0.395	0.684
SV41	3/2/2009	0.081	<0.02	<0.02
	4/27/2010	<0.02	0.058	0.06
SV42	3/2/2009	1.1	0.2	<0.02
	4/27/2010	0.805	0.11	<0.02
	10/28/2010	0.356	0.01	<0.008

TABLE 2 (CONTINUED)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV42 (cont'd)	6/16/2011	0.640 0.316	<0.008	<0.008
SV43SS	3/2/2009	4.66	0.027	<0.02
	11/24/2009	0.512	0.048	<0.02
	(DUP) 11/24/2009	0.759	<0.02	<0.02
	4/28/2010	1.12	<0.02	<0.02
	10/28/2010	0.189	<0.008	<0.008
	6/16/2011	0.191	<0.008	<0.008
	(DUP) 6/16/2011	0.244 0.744	<0.008 0.042	<0.008
SV43-5	4/28/2010	0.46	<0.02	<0.02
	10/28/2010	0.208	<0.008	<0.008
	6/16/2011	0.181 0.346	<0.008 0.066	<0.008
SV43-15	4/28/2010	3.02	0.069	0.155
	10/28/2010	3.37	0.138	0.023
	6/16/2011	0.276 0.102	<0.008	<0.008
SV44-5	3/2/2009	0.428	0.05	<0.02
SV44-15	3/2/2009	1.11	0.118	<0.02
	4/28/2010	0.135	<0.02	<0.02
SV44-25	3/2/2009	25.5	7.71	0.787
	(DUP) 3/2/2009	17.3	6.4	0.626
	4/28/2010	0.41	0.287	<0.02
	(DUP) 4/28/2010	0.45	0.309	<0.02
VEW3-5	10/25/2007	24	29	6.6
	11/24/2009	0.748	0.198	<0.02
	4/28/2010	16.6	0.699	<0.02
	10/28/2010	7.33	0.455	0.229
	*4/4/2011	19.52	<0.27	<0.20
	*5/9/2011	13.49	<0.27	<0.20
	6/16/2011	17.2 9.17	0.69 0.515	0.059
VEW3-15	10/25/2007	240	140	74
	3/2/2009	196	8.82	<0.02
	11/24/2009	1.48	0.125	<0.02
	4/28/2010	92.3	3.51	1.46
	10/28/2010	16	0.725	0.27
	*4/4/2011	106.55	4.83	3.61
	*5/9/2011	146.34	4.62	4.79
	6/16/2011	16.8 31.3	0.75 1.85	0.58 0.444
VEW3-25	10/25/2007	210	120	83
	3/2/2009	767	107	21.5
	4/28/2010	87.6	11.9	22.5
	10/28/2010	24.9	1.22	0.363
	6/16/2011	17.6 206.00	0.657 14.6	0.180 12.8

TABLE 2 (CONTINUED)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW4-5	11/14/2007	21	17	1.7
	4/27/2010	2.62	<0.02	0.209
	10/28/2010	0.636	0.108	<0.008
	6/16/2011 8/2/11	0.442 0.492	<0.008	<0.008
VEW4-15	11/14/2007	380	150	86
	(DUP) 11/14/2007	360	140	73
	6/16/2011 8/2/11	0.627 0.394	<0.008	<0.008
VEW4-25	11/14/2007	470	180	160
	3/2/2009 8/2/11	2.77 ND(0.852)	0.149	0.283
VEW5-5	10/25/2007	23	13	3.8
	10/30/2007	12	8.2	3.1
	4/27/2010	<0.02	<0.02	<0.02
	10/28/2010	0.085	<0.008	<0.008
	*4/4/2011	<0.34	<0.27	<0.20
	6/16/2011 8/2/11	1.88 0.320	0.143 0.442	<0.008 0.326
VEW5-15	10/25/2007	19	14	6
	10/30/2007	19	13	7.8
	3/2/2009	0.429	0.024	<0.02
	6/16/2011	0.209	<0.008	<0.008
VEW5-25	10/25/2007	12	8.7	13
	(DUP)10/25/2007	4.2	3.2	4.9
	10/30/2007	16	17	11
	3/2/2009	0.267	<0.02	<0.02
	(DUP) 3/2/2009	0.303	<0.02	<0.02
VEW5-60	10/25/2007	170	550	170
	10/30/2007	140	570	150
VEW7-5	4/28/2010	<0.02	<0.02	<0.02
VEW6-5	11/14/2007	3.7	3.1	<0.5
	2/18/2008	7.3	14.6	<1.0
	4/27/2010	0.688	0.641	<0.02
	4/28/2010	0.485	0.426	<0.02
	*4/4/2011	<0.34	<0.27	<0.20
	6/16/2011	1.38	0.334	0.055
	(DUP) 6/16/2011 8/2/11	1.22 0.432	0.255 0.154	0.058
VEW6-15	11/14/2007	110	110	17
	2/18/2008	8.2	12.4	<1.0
	3/2/2009	20.1	1.71	0.268
	6/16/2011 8/2/11	0.020 0.313	<0.008	<0.008
VEW6-25	10/30/2007	8.5	9.1	2.5
	11/14/2007	320	370	250
	3/2/2009 8/2/11	8.15 2.18	5.6 2.79	7.72 1.48
VEW8-15	4/27/2010	<0.02	<0.02	<0.02

1,1-DCA 0.402

TABLE 2 (CONTINUED)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW9-5	10/25/2007	39	43	42
VEW9-15	10/25/2007	89	130	170
	3/2/2009	1.58	2.08	1.99
	4/27/2010	<0.02	0.65	0.588
VEW9-25	10/25/2007	64	69	61
	3/2/2009	<0.02	<0.02	<0.02
	4/27/2010	1.96	0.307	<0.02
VEW11-15	3/2/2009	8.33	0.685	<0.02
	4/27/2010	<0.02	0.381	0.353
VEW11-25	3/2/2009	0.984	3.01	<0.02
	4/27/2010	<0.02	<0.02	<0.02
VEW12-5	10/25/2007	30	64	120
VEW12-15	10/25/2007	3.1	8.2	9.8
	3/2/2009	0.184	<0.02	<0.02
	4/27/2010	<0.02	2.4	0.648
VEW12-25	10/25/2007	56	110	210
	3/2/2009	0.918	4.94	852
	4/27/2010	5.51	3.62	0.477
VEW12-60	10/25/2007	10	43	9.0
VEW13-15	3/2/2009	6.08	0.76	<0.02
	4/27/2010	<0.02	<0.02	<0.02
VEW16-5	4/27/2010	<0.02	<0.02	<0.02
VEW16-15	3/2/2009	20.5	26.9	13.7
	4/27/2010	0.570	<0.02	<0.02
VEW16-25	3/2/2009	20.6	36.8	12.9
	4/27/2010	<0.02	<0.02	<0.02
VEW17-5	*4/4/2011	1.76	1.24	<0.20
	*5/9/2011	<0.34	<0.27	<0.20
	6/16/2011 8/2/11	1.89 2.22	0.424 1.19	0.104 0.302
VEW18-5	3/2/2009	2.5	0.294	<0.02
	(DUP) 3/2/2009	2.27	0.302	<0.02
	10/28/2010	6.540	0.452	0.212
	*4/4/2011	<0.34	<0.27	<0.20
	*5/9/2011	<0.34	<0.27	<0.20
	6/16/2011 8/2/11	1.49 0.402	0.325 0.0.46	0.056
PW1-5	11/14/2007	31	6.1	1.1
	3/2/2009	<0.02	<0.02	<0.02
PW1-15	11/14/2007	21	1.5	<0.5
	3/2/2009	0.168	<0.02	<0.02
PW1-25	11/14/2007	4,200	140	55
	3/2/2009	38.8	4.07	1.47
PW1-60	11/14/2007	70	220	39

TABLE 2 (CONTINUED)
SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(in micrograms per liter - µg/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
PW2-5	12/18/2007	2	8.9	2.5
	(DUP) 12/18/2007	1.5	7.2	2.5
PW2-15	12/17/2007	1.5	7.4	3.1
	12/18/2007	6.2	12	6.2
PW2-25	12/18/2007	37	19	20
PW2-60	12/10/2007	75	370	100
	12/18/2007	75	370	100
PW3-5	12/10/2007	3.8	1.7	0.6
	(DUP) 12/10/2007	4.3	1.7	0.7
PW3-15	12/10/2007	1.4	1.0	1.9
PW3-25	12/10/2007	17	2.2	1.6
PW3-60	12/10/2007	<0.1	<0.1	<0.5
PW4-5	12/18/2007	3.8	1.7	0.6
	(DUP) 12/18/2007	4.3	1.7	0.7
PW4-15	12/18/2007	1.4	1.00	1.9
PW4-25	12/18/2007	17	2.2	1.6
PW4-60	12/18/2007	<0.1	<0.1	<0.5

NOTES:
PCE - Tetrachloroethylene in micrograms per liter
TCE - Trichloroethylene in micrograms per liter
(DUP) - Duplicate Sample
(#P) - No. of Volume Purge
*DATE - Samples were taken during system operation visits.

TABLE 3
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW3-5	2/14/2008	10.73	2.23	1.26
	10/31/2008	5.45	0.3	<0.05
	5/13/2009	3.49	0.49	<0.05
	6/109	3.21	0.24	<0.05
	6/29/2009	1.88	<0.05	<0.05
	9/8/2009	0.18	<0.05	<0.05
	9/17/2010	0.55	<0.05	<0.05
	12/14/2010	1.42	<0.05	<0.05
	1/10/2011	2.24	<0.05	<0.05
	3/7/2011	1.25	<0.05	<0.05
	4/4/2011	2.88	<0.05	<0.05
	5/9/2011	1.99	<0.05	<0.05
VEW3-15	2/14/2008	69.83	18.04	18.4
	11/10/2008	11.13	2.57	1.66
	5/13/2009	21.02	2.33	3.2
	6/1/2009	14.76	4.09	4.36
	6/29/2009	6.07	2.27	<0.05
	8/4/2009	2.94	<0.05	<0.05
	9/8/2009	2.22	<0.05	<0.05
	9/17/2010	7.89	0.85	1.01
	12/14/2010	13.6	3.16	4.96
	1/10/2011	19.81	5.94	6.16
	3/7/2011	32.18	2.52	2.8
	4/4/2011	15.72	0.9	0.91
	5/9/2011	21.59	0.86	1.21
VEW3-25	8/4/2008	10.24	1.53	1.74
	11/10/2008	9.06	2.98	3.56
	5/13/2009	37.76	8.2	8.87
	6/1/2009	29.08	8.75	7.95
	6/29/2009	19.77	6.74	<0.05
	8/4/2009	15.13	1.77	2.03
	9/8/2009	7.66	0.98	1.79
	9/17/2010	10.49	1.97	2.32
VEW4-5	2/14/2008	0.74	<1.0	<1.0
VEW4-15	2/14/2008	2.35	<1.0	<1.0
	11/19/2008	0.38	<0.05	<0.05
VEW4-25	8/4/2008	2.47	0.26	<0.05
	11/10/2008	0.72	0.09	<0.05
VEW5-5	2/14/2008	<1.0	<1.0	<1.0
	12/14/2010	1.41	<0.05	<0.05
	1/10/2011	0.44	<0.05	<0.05
	3/7/2011	2.04	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW5-5 (cont'd)	4/4/2011	<0.05	<0.05	<0.05
VEW5-15	2/14/2008	<1.0	<1.0	<1.0
VEW5-25	8/4/2008	0.19	<0.05	<0.05
	10/21/2008	0.23	<0.05	<0.05
VEW5-60	11/10/2008	3.81	27.75	17.72
VEW6-5	2/14/2008	0.74	<1.0	<1.0
	12/14/2010	0.42	<0.05	<0.05
	1/10/2011	0.78	<0.05	<0.05
	3/7/2011	1.03	<0.05	<0.05
	4/4/2011	<0.05	<0.05	<0.05
VEW6-15	2/14/2008	2.21	2.79	2.52
	11/10/2008	0.48	0.12	<0.05
VEW6-25	8/4/2008	2.1	0.22	<0.05
	11/10/2008	0.14	0.25	<0.05
VEW7-15	4/2/2008	3.74	2.95	0.82
	5/5/2008	2.65	0.62	<0.01
	6/12/2008	2.04	0.2	<0.01
	9/2/2008	0.1	0.38	<0.05
	10/6/2008	0.21	<0.05	<0.05
VEW8-15	4/2/2008	2.02	2.44	0.99
	5/5/2008	2.69	0.87	<0.01
	6/12/2008	4.4	0.81	<0.01
	9/2/2008	0.25	1.79	<0.05
	10/6/2008	2.03	0.21	<0.05
	11/19/2008	0.43	<0.05	<0.05
VEW9-5	2/14/2008	<1.0	<1.0	<1.0
VEW9-15	2/14/2008	0.88	1.86	1.26
	11/10/2008	0.8	0.1	<0.05
VEW9-25	8/4/2008	0.15	<0.05	<0.05
VEW10-5	11/4/2008	<0.05	<0.05	<0.05
VEW10-15	4/2/2008	0.22	<0.01	<0.01
	5/5/2008	<0.01	<0.01	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	8/4/2008	<0.05	<0.05	<0.05
VEW11-15	11/10/2008	<0.05	<0.05	<0.05
VEW11-25	4/2/2008	0.14	0.56	<0.01
	5/5/2008	<0.01	0.32	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	9/2/2008	0.17	0.25	<0.05
VEW12-5	2/14/2008	2.65	3.91	1.51
	11/4/2008	<0.05	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW12-15	2/14/2008	<1.0	<1.0	<1.0
VEW12-25	8/4/2008	0.39	0.36	<0.05
VEW12-60	11/10/2008	2.75	21.49	10.1
VEW13-5	11/4/2008	<0.05	<0.05	<0.05
VEW13-25	4/2/2008	1.96	5.91	2.75
	5/5/2008	0.75	2.26	1.65
	6/12/2008	0.63	1.67	0.95
	9/2/2008	0.99	2.69	1.26
VEW14-5	9/2/2008	0.18	<0.05	<0.05
VEW14-15	4/2/2008	0.61	1.08	<0.01
	5/5/2008	0.23	0.27	<0.01
	6/12/2008	0.24	0.34	<0.01
VEW15-15	4/2/2008	0.98	1.31	<0.01
	5/5/2008	0.7	0.87	<0.01
	6/12/2008	0.75	0.88	<0.01
	9/2/2008	0.45	0.67	<0.05
	11/10/2008	0.33	0.6	<0.05
VEW16-15	11/10/2008	0.77	0.59	<0.05
VEW16-25	4/2/2008	1	0.16	<0.01
	5/5/2008	0.28	0.61	<0.01
	6/2/2008	0.69	0.17	<0.01
	9/2/2008	0.86	0.92	<0.05
	10/21/2008	1.62	1.29	<0.05
VEW17-5	1/8/2010	<0.05	<0.05	<0.05
	1/14/2010	0.26	0.26	<0.05
	1/20/2010	0.21	0.19	<0.05
	1/25/2010	0.22	0.2	<0.05
	2/4/2010	0.23	0.5	<0.05
	2/9/2010	0.17	0.24	<0.05
	2/17/2010	0.18	0.19	<0.05
	2/24/2010	0.11	<0.05	<0.05
	3/4/2010	<0.05	<0.05	<0.05
	3/11/2010	<0.05	<0.05	<0.05
	12/14/2010	0.36	<0.05	<0.05
	1/10/2011	0.31	0.16	<0.05
	3/7/2011	0.43	<0.05	<0.05
	4/4/2011	0.26	0.23	<0.05
	5/9/2011	<0.05	<0.05	<0.05
VEW18-5	1/8/2010	0.14	<0.05	<0.05
	1/14/2010	<0.05	<0.05	<0.05
	1/20/2010	<0.05	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW18-5 (cont'd)	1/25/2010	<0.05	<0.05	<0.05
	2/4/2010	<0.05	<0.05	<0.05
	2/9/2010	<0.05	<0.05	<0.05
	2/17/2010	<0.05	<0.05	<0.05
	2/24/2010	<0.05	<0.05	<0.05
	3/4/2010	<0.05	<0.05	<0.05
	3/11/2010	<0.05	<0.05	<0.05
	9/17/2010	<0.05	<0.05	<0.05
	12/14/2010	<0.05	<0.05	<0.05
	1/10/2011	<0.05	<0.05	<0.05
	3/7/2011	<0.05	<0.05	<0.05
	4/4/2011	<0.05	<0.05	<0.05
	5/9/2011	<0.05	<0.05	<0.05
Inlet	1/4/2008	18.23	10.42	15.12
	1/11/2008	10.14	3.16	1.51
	1/17/2008	8.38	1.86	<1.0
	1/21/2008	6.32	1.3	<1.0
	1/30/2008	5.29	1.49	<1.0
	2/5/2008	3.09	<1.0	<1.0
	2/14/2008	2.94	0.93	<1.0
	3/7/2008	0.91	1.13	0.76
	3/11/2008	0.65	1.09	0.69
	3/20/2008	0.65	0.97	<0.01
	3/27/2008	0.36	0.38	<0.01
	4/2/2008	0.91	1.54	0.55
	4/10/2008	0.96	0.88	<0.01
	4/15/2008	0.92	0.39	<0.01
	4/25/2008	1.15	0.67	<0.01
	5/5/2008	1.14	0.27	<0.01
	5/14/2008	0.92	0.22	<0.01
	5/19/2008	0.81	0.45	<0.01
	5/27/2008	0.98	0.31	<0.01
	6/2/2008	1.41	0.73	<0.01
	6/12/2008	1.1	0.28	<0.01
	6/19/2008	0.88	0.38	<0.01
	6/23/2008	0.76	<0.01	<0.01
	7/8/2008	0.72	<0.01	<0.01
	7/17/2008	0.36	<0.05	<0.05
	8/4/2008	0.49	<0.05	<0.05
	8/11/2008	1.75	0.47	<0.05
	8/18/2008	0.14	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Inlet (cont'd)	8/25/2008	0.47	<0.05	<0.05
	9/2/2008	0.72	0.46	<0.05
	9/11/2008	0.91	<0.05	<0.05
	9/19/2008	0.11	<0.05	<0.05
	9/23/2008	0.28	<0.05	<0.05
	9/30/2008	1.12	0.56	<0.05
	10/6/2008	0.86	0.41	<0.05
	10/13/2008	0.27	0.19	<0.05
	10/15/2008	1.16	<0.05	<0.05
	10/21/2008	0.57	0.86	<0.05
	10/31/2008	1.87	0.3	<0.05
	11/4/2008	<0.05	<0.05	<0.05
	11/10/2008	0.15	0.26	<0.05
	11/19/2008	0.4	<0.05	<0.05
	5/13/2009	3.45	0.5	<0.05
	5/27/2009	4.53	0.32	<0.05
	6/1/2009	2.63	0.26	<0.05
	6/9/2009	1.94	0.22	<0.05
	6/15/2009	2.78	0.26	<0.05
	6/22/2009	2.61	0.23	<0.05
	7/9/2009	2.72	0.22	<0.05
	7/15/2009	3.11	<0.05	<0.05
	7/21/2009	2.76	<0.05	<0.05
	7/28/2009	4.18	1.53	1.67
	8/4/2009	2.31	0.25	<0.05
	8/11/2009	4.37	0.39	<0.05
	8/28/2009	1.05	<0.05	<0.05
	9/8/2009	0.83	<0.05	<0.05
	9/17/2009	0.64	<0.05	<0.05
	9/24/2009	1.26	<0.05	<0.05
	10/1/2009	0.82	<0.05	<0.05
	1/8/2010	0.34	<0.05	<0.05
	1/25/2010	1.27	0.18	<0.05
	2/4/2010	1.50	<0.05	<0.05
	2/9/2010	1.18	0.17	<0.05
	2/24/2010	0.56	<0.05	<0.05
	7/20/2010	0.42	<0.05	<0.05
	7/30/2010	0.49	<0.05	<0.05
	8/6/2010	0.37	<0.05	<0.05
	8/12/2010	0.42	<0.05	<0.05
	8/20/2010	0.29	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Inlet (cont'd)	8/26/2010	0.12	<0.05	<0.05
	8/30/2010	0.19	<0.05	<0.05
	9/8/2010	0.50	<0.05	<0.05
	11/11/2010	0.72	<0.05	<0.05
	12/14/2010	0.49	<0.05	<0.05
	1/10/2011	0.47	<0.05	<0.05
	3/7/2011	0.90	<0.05	<0.05
	4/4/2011	0.53	<0.05	<0.05
	5/9/2011	0.26	<0.05	<0.05
Outlet	1/4/2008	<1.0	<1.0	<1.0
	1/11/2008	<1.0	<1.0	<1.0
	1/17/2008	<1.0	0.93	<1.0
	1/21/2008	<1.0	<1.0	<1.0
	1/30/2008	<1.0	<1.0	<1.0
	2/5/2008	<1.0	<1.0	<1.0
	2/14/2008	<1.0	<1.0	<1.0
	3/7/2008	0.51	0.98	1.11
	3/11/2008	<1.0	<1.0	0.51
	3/20/2008	<0.01	<0.01	<0.01
	3/27/2008	<0.01	<0.01	<0.01
	4/2/2008	<0.01	<0.01	<0.01
	4/10/2008	<0.01	<0.01	<0.01
	4/15/2008	<0.01	<0.01	<0.01
	4/25/2008	<0.01	<0.01	<0.01
	5/5/2008	<0.01	<0.01	<0.01
	5/14/2008	<0.01	<0.01	<0.01
	5/19/2008	<0.01	<0.01	<0.01
	5/27/2008	<0.01	<0.01	<0.01
	6/2/2008	<0.01	<0.01	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	6/19/2008	<0.01	<0.01	<0.01
	6/23/2008	<0.01	<0.01	<0.01
	7/8/2008	<0.01	<0.01	<0.01
	7/17/2008	<0.05	<0.05	<0.05
	8/4/2008	<0.05	<0.05	<0.05
	8/11/2008	<0.05	<0.05	<0.05
	8/18/2008	<0.05	<0.05	<0.05
	8/25/2008	<0.05	<0.05	<0.05
	9/2/2008	<0.05	<0.05	<0.05
	9/11/2008	<0.05	<0.05	<0.05
	9/19/2008	<0.05	<0.05	<0.05
	9/23/2008	<0.05	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Outlet (cont'd)	9/30/2008	<0.05	<0.05	<0.05
	10/6/2008	0.34	<0.05	<0.05
	10/13/2008	<0.05	<0.05	<0.05
	10/15/2008	<0.05	<0.05	<0.05
	10/21/2008	<0.05	<0.05	<0.05
	10/31/2008	<0.05	<0.05	<0.05
	11/4/2008	<0.05	<0.05	<0.05
	11/10/2008	<0.05	<0.05	<0.05
	11/19/2008	<0.05	<0.05	<0.05
	5/13/2009	<0.05	<0.05	<0.05
	5/27/2009	<0.05	<0.05	<0.05
	6/1/2009	<0.05	<0.05	<0.05
	6/9/2009	<0.05	<0.05	<0.05
	6/15/2009	<0.05	<0.05	<0.05
	6/22/2009	<0.05	<0.05	<0.05
	7/9/2009	<0.05	<0.05	<0.05
	7/15/2009	<0.05	<0.05	<0.05
	7/21/2009	<0.05	<0.05	<0.05
	7/28/2009	<0.05	<0.05	<0.05
	8/4/2009	<0.05	<0.05	<0.05
	8/11/2009	<0.05	<0.05	<0.05
	8/28/2009	<0.05	<0.05	<0.05
	9/8/2009	<0.05	<0.05	<0.05
	9/17/2009	<0.05	<0.05	<0.05
	9/24/2009	<0.05	<0.05	<0.05
	1/8/2010	<0.05	<0.05	<0.05
	1/25/2010	0.15	0.49	0.75
	2/4/2010	0.17	0.27	<0.05
	2/9/2010	<0.05	0.28	<0.05
	2/24/2010	<0.05	<0.05	<0.05
	7/20/2010	<0.05	<0.05	<0.05
	7/30/2010	<0.05	<0.05	<0.05
	8/6/2010	<0.05	<0.05	<0.05
	8/12/2010	<0.05	<0.05	<0.05
	8/20/2010	<0.05	<0.05	<0.05
	8/26/2010	<0.05	<0.05	<0.05
	8/30/2010	<0.05	<0.05	<0.05
	9/8/2010	<0.05	<0.05	<0.05
	9/17/2010	<0.05	<0.05	<0.05
	11/11/2010	<0.05	<0.05	<0.05
	12/14/2010	<0.05	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Outlet (cont'd)	1/10/2011	<0.05	<0.05	<0.05
	3/7/2011	<0.05	<0.05	<0.05
	4/4/2011	<0.05	<0.05	<0.05
Mid	1/4/2008	14.55	10.23	14.87
	1/11/2008	Not sampled.		
	1/17/2008	<1.0	<1.0	<1.0
	1/21/2008	Not sampled.		
	1/30/2008	<1.0	<1.0	<1.0
	2/5/2008	<1.0	<1.0	<1.0
	2/14/2008	<1.0	<1.0	<1.0
	3/7/2008	<1.0	<1.0	1.44
	3/11/2008	<1.0	<1.0	0.98
	3/20/2008	<0.01	<0.01	<0.01
	3/27/2008	<0.01	<0.01	<0.01
	4/2/2008	<0.01	<0.01	0.69
	4/10/2008	<0.01	<0.01	<0.01
	4/15/2008	<0.01	<0.01	<0.01
	4/25/2008	<0.01	<0.01	<0.01
	5/5/2008	<0.01	<0.01	<0.01
	5/14/2008	<0.01	<0.01	<0.01
	5/19/2008	<0.01	<0.01	<0.01
	5/27/2008	<0.01	<0.01	<0.01
	6/2/2008	<0.01	<0.01	<0.01
	6/12/2008	<0.01	<0.01	<0.01
	6/19/2008	<0.01	<0.01	<0.01
	6/23/2008	<0.01	<0.01	<0.01
	7/8/2008	<0.01	<0.01	<0.01
	7/17/2008	<0.05	<0.05	<0.05
	8/4/2008	0.54	0.39	<0.05
	8/11/2008	<0.05	<0.05	<0.05
	8/18/2008	<0.05	0.32	<0.05
	8/25/2008	<0.05	0.39	<0.05
	9/2/2008	0.08	0.55	<0.05
	9/11/2008	<0.05	<0.05	<0.05
	9/19/2008	<0.05	<0.05	<0.05
	9/23/2008	<0.05	<0.05	<0.05
	9/30/2008	<0.05	<0.05	<0.05
	10/6/2008	<0.05	<0.05	<0.05
	10/13/2008	<0.05	<0.05	<0.05
	10/15/2008	<0.05	<0.05	<0.05
	10/21/2008	<0.05	<0.05	<0.05

TABLE 3 (CONTINUED)
SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
Mid (cont'd)	10/31/2008	<0.05	<0.05	<0.05
	11/4/2008	<0.05	<0.05	<0.05
	11/10/2008	<0.05	<0.05	<0.05
	11/19/2008	<0.05	<0.05	<0.05
	2/9/2010	<0.05	<0.05	<0.05
	2/24/2010	<0.05	<0.05	<0.05

Notes:
- Samples collected from 1/4/08 through 2/14/08 were reported in mg/L by the laboratory and converted to ppmv.
- Samples collected from 3/7/08 through 7/8/08 were reported in µg/L by the laboratory and converted to ppmv.

TABLE 4
SUMMARY OF OPERATIONAL DATA AND MASS REMOVAL
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Sample ID	Date Sampled	Sample Concentration				Pipe Dia.	Flow Rate	Cumulative Time	Mass Removed	
		PCE ppmv	PCE µg/L	TCE ppmv	TCE µg/L	inches	cfm	hrs	Cumulative PCE lbs	Cumulative TCE lbs
Inlet	1/4/2008	17.971	124	10.182	56	4	88.6	0.0	0.00	0.00
Inlet	1/11/2008	10.000	69	3.091	17	4	133.5	161.8	5.57	0.69
Inlet	1/17/2008	8.261	57	1.818	10	4	222.2	308.1	12.50	1.29
Inlet	1/21/2008	6.232	43	1.273	7	4	247.2	401.1	16.19	1.59
Inlet	1/30/2008	5.217	36	1.455	8	4	185.7	619.0	21.64	2.20
Inlet	2/5/2008	3.043	21	<RL	<RL	4	269.3	761.0	24.64	2.20
Inlet	2/14/2008	2.899	20	0.909	5	4	306.8	977.1	29.60	2.82
Inlet	3/7/2008	0.893	6.16	1.105	6.08	4	330.2	1,201.9	31.31	3.66
Inlet	3/11/2008	0.642	4.43	1.069	5.88	4	157.3	1,298.3	31.56	3.83
Inlet	3/20/2008	0.638	4.40	0.953	5.24	4	130.1	1,515.3	32.02	4.11
Inlet	3/27/2008	0.358	2.47	0.375	2.06	4	162.0	1,681.2	32.27	4.21
Inlet	4/2/2008	0.900	6.21	1.504	8.27	4	162.0	1,823.6	32.80	4.57
Inlet	4/10/2008	0.951	6.56	0.864	4.75	4	121.4	2,018.2	33.38	4.78
Inlet	4/15/2008	0.907	6.26	0.385	2.12	4	158.6	2,137.9	33.83	4.85
Inlet	4/25/2008	1.132	7.81	0.651	3.58	4	132.9	2,371.8	34.73	5.06
Inlet	5/5/2008	1.120	7.73	0.267	1.47	4	160.5	2,493.1	35.30	5.11
Inlet	5/14/2008	0.909	6.27	0.211	1.16	4	150.4	2,707.9	36.05	5.18
Inlet	5/19/2008	0.797	5.50	0.436	2.40	4	123.0	2,828.6	36.36	5.25
Inlet	5/27/2008	0.965	6.66	0.385	2.12	4	123.0	3,020.1	36.95	5.34
Inlet	6/2/2008	1.390	9.59	0.716	3.94	4	256.8	3,163.0	38.26	5.61
Inlet	6/12/2008	1.084	7.48	0.278	1.53	4	225.0	3,403.2	39.77	5.77
Inlet	6/19/2008	0.865	5.97	0.367	2.02	4	136.1	3,569.6	40.28	5.85
Inlet	6/23/2008	0.762	5.26	<RL	<RL	4	229.6	3,667.3	40.72	5.85
Inlet	7/3/2008	0.978	6.75	<RL	<RL	4	225.2	3,905.8	42.07	5.85
Inlet	7/8/2008	0.710	4.90	<RL	<RL	4	176.0	4,027.1	42.46	5.85
Inlet	7/17/2008	0.360	2.48	<RL	<RL	4	172.2	4,243.8	42.81	5.85
Inlet	8/4/2008	0.490	3.38	<RL	<RL	4	158.2	4,677.2	43.68	5.85
Inlet	8/11/2008	1.750	12.08	0.470	2.59	4	105.2	4,844.7	44.47	5.94
Inlet	8/18/2008	0.140	0.97	<RL	<RL	4	167.8	5,014.1	44.58	5.94
Inlet	8/25/2008	0.470	3.24	<RL	<RL	4	153.0	5,179.3	44.88	5.94
Inlet	9/2/2008	0.720	4.97	0.420	2.31	4	190.2	5,373.3	45.57	6.10
Inlet	9/11/2008	0.910	6.28	<RL	<RL	4	111.2	5,585.6	46.12	6.10
Inlet	9/19/2008	0.110	0.76	<RL	<RL	4	139.3	5,778.1	46.20	6.10
Inlet	9/23/2008	0.280	1.93	<RL	<RL	4	136.6	5,874.7	46.29	6.10
Inlet	9/30/2008	1.120	7.73	0.560	3.08	4	106.4	6,041.6	46.81	6.20
Inlet	10/6/2008	0.860	5.93	0.410	2.26	4	143.1	6,185.0	47.26	6.29
Inlet	10/13/2008	0.270	1.86	0.190	1.05	4	129.9	6,354.0	47.41	6.33
Inlet	10/15/2008	1.160	8.00	<RL	<RL	4	129.9	6,402.0	47.60	6.33
Inlet	10/21/2008	0.570	3.93	0.860	4.73	4	106.6	6,526.7	47.80	6.45
Inlet	10/30/2008	1.870	12.90	0.300	1.65	4	107.9	6,784.6	49.14	6.53
Inlet	11/4/2008	<RL	<RL	<RL	<RL	4	140.0	6,881.0	49.14	6.53
Inlet	11/10/2008	0.150	1.04	0.260	1.43	4	105.1	7,013.8	49.19	6.57
Inlet	11/19/2008	0.400	2.76	<RL	<RL	4	87.6	7,230.1	49.39	6.57
Inlet	11/26/2008	0.400	2.76	<RL	<RL	4	124.2	7,256.1	49.42	6.57
Inlet	11/28/2008	0.400	2.76	<RL	<RL	4	124.3	7,305.5	49.48	6.57
Inlet	5/13/2009	3.450	23.81	<RL	<RL	4	83.1	7,305.5	49.48	6.57
Inlet	5/22/2009	3.450	23.81	<RL	<RL	4	86.1	7,521.5	51.14	6.66
Inlet	5/27/2009	4.530	31.26	<RL	<RL	4	89.4	7,639.2	52.37	6.70
Inlet	6/1/2009	2.630	18.15	<RL	<RL	4	94.1	7,760.0	53.14	6.73
Inlet	6/8/2009	1.940	13.39	<RL	<RL	4	100.5	7,952.3	54.11	6.77
Inlet	6/15/2009	2.780	19.18	<RL	<RL	4	109.9	8,097.2	55.25	6.81

TABLE 4 (CONTINUED)
SUMMARY OF OPERATIONAL DATA AND MASS REMOVAL
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Sample ID	Date Sampled	Sample Concentration				Pipe Dia.	Flow Rate	Cumulative Time	Mass Removed	
		PCE ppmv	PCE µg/L	TCE ppmv	TCE µg/L	inches	cfm	hrs	Cumulative PCE lbs	Cumulative TCE lbs
Inlet	6/22/2009	2.610	18.01	0.230	1.27	4	95.1	8,263.8	56.32	6.85
Inlet	6/29/2009	2.610	18.01	0.230	1.27	4	105.2	8,431.9	57.50	6.89
Inlet	7/9/2009	2.720	18.77	0.220	1.21	4	105.3	8,671.9	59.28	6.95
Inlet	7/15/2009	3.110	21.46	<RL	<RL	4	105.8	8,815.9	60.50	6.95
Inlet	7/21/2009	2.760	19.04	<RL	<RL	4	105.7	8,959.9	61.58	6.95
Inlet	7/28/2009	4.180	28.84	1.530	8.42	4	108.3	9,127.7	63.54	7.24
Inlet	8/4/2009	2.310	15.94	0.250	1.38	4	100.1	9,294.7	64.54	7.28
Inlet	8/11/2009	4.370	30.15	0.390	2.15	4	107.6	9,464.8	66.60	7.35
Inlet	8/21/2009	4.370	30.15	0.390	2.15	4	102.8	9,704.0	69.37	7.45
Inlet	8/28/2009	1.050	7.25	<RL	<RL	4	107.6	9,832.0	69.75	7.45
Inlet	9/3/2009	1.050	7.25	<RL	<RL	4	121.3	9,891.0	69.94	7.45
Inlet	9/8/2009	0.830	5.73	<RL	<RL	4	112.1	9,966.7	70.12	7.45
Inlet	9/17/2009	0.640	4.42	<RL	<RL	4	106.8	10,182.0	70.50	7.45
Inlet	9/24/2009	1.260	8.69	<RL	<RL	4	109.7	10,302.1	70.93	7.45
Inlet	10/1/2009	0.820	5.66	<RL	<RL	4	108.9	10,471.2	71.32	7.45
Inlet	1/8/2010	0.340	2.35	<RL	<RL	4	144.0	10,619.6	71.51	7.45
Inlet	1/25/2010	1.270	8.76	<RL	<RL	4	217.1	10,772.3	72.59	7.51
Inlet	2/4/2010	1.500	10.35	<RL	<RL	4	200.0	11,009.4	74.43	7.51
Inlet	2/9/2010	1.180	8.14	<RL	<RL	4	185.8	11,129.4	75.10	7.55
Inlet	2/24/2010	0.560	3.86	<RL	<RL	4	235.7	11,488.5	76.33	7.55
Inlet	7/20/2010	0.420	2.90	<RL	<RL	4	179.7	12,158.5	77.63	7.55
Inlet	7/30/2010	0.490	3.38	<RL	<RL	4	253.0	12,398.8	78.40	7.55
Inlet	8/6/2010	0.370	2.55	<RL	<RL	4	231.7	12,566.0	78.77	7.55
Inlet	8/12/2010	0.420	2.90	<RL	<RL	4	341.3	12,711.1	79.31	7.55
Inlet	8/20/2010	0.290	2.00	<RL	<RL	4	221.5	12,903.7	79.62	7.55
Inlet	8/26/2010	0.120	0.83	<RL	<RL	4	191.2	13,044.9	79.71	7.55
Inlet	8/30/2010	0.190	1.31	<RL	<RL	4	224.1	13,146.1	79.82	7.55
Inlet	9/8/2010	0.500	3.45	<RL	<RL	4	238.7	13,386.0	80.56	7.55
Inlet	11/11/2010	0.720	4.97	<RL	<RL	4	253.2	14,572.2	86.14	7.55
Inlet	1/10/2011	0.470	3.24	<RL	<RL	4	343.0	15,454.5	89.80	7.55
Inlet	*1/28/2011	0.652	4.50	<RL	<RL	4	351.2	15,809.1	91.90	7.55
Inlet	2/23/2011	0.753	5.20	<RL	<RL	4	508.0	16,005.7	93.84	7.55
Inlet	3/7/2011	0.900	6.21	<RL	<RL	4	438.0	16,290.7	102.34	7.55
Inlet	4/4/2011	0.530	3.66	<RL	<RL	4	379.5	16,962.8	105.83	7.55
Inlet	**4/11/2011	0.510	3.52	<RL	<RL	4	377.4	16,983.0	105.93	7.55
Inlet	**4/20/2011	0.510	3.52	<RL	<RL	4	369.9	16,983.6	105.93	7.55
Inlet	5/4/2011	0.304	2.09	<RL	<RL	4	379.5	17,196.8	106.63	7.55
Inlet	***5/9/2011	0.260	1.79	<RL	<RL	4	212.2	17,241.8	107.02	7.55
Inlet	***5/12/2011	0.260	1.79	<RL	<RL	4	212.2	17,255.8	107.11	7.55
Inlet	***5/24/2011	0.260	1.79	<RL	<RL	4	212.2	17,282.7	107.17	7.55
Inlet	***6/4/2011	0.260	1.79	<RL	<RL	4	212.2	17,283.4	107.21	7.55
Inlet	***6/9/2011	0.260	1.79	<RL	<RL	4	212.2	17,285.9	107.21	7.55
Inlet	****6/11/2011	--	--	--	--	4	--	--	--	--

Period is from 2/23/2011 - 6/9/2011

Hours system on this period:	1,477	Average flow rate this period (cfm):	322.1
Days system on this period:	62	Total pounds PCE removed this period:	15.3
		Pounds PCE removed per day this period:	0.2

Notes:

* - System was shut down. Waiting for futher directions.
** - System off due to motor starter problem. Replaced and fixed on 4/20/11.
*** - Limited operation due to blower kept shutting off.
**** - System down due to blower replacement.
ppmv - parts per million volume
µg/L - micrograms per liter
cfm - cubic feet per minute
hrs - hours
lbs - pounds

General Notes

N
W E
S

* ADAPTED FROM GOOGLEMAPS 2008

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe
Fullerton, CA

Number
7115

Figure Details

SITE LOCATION MAP

Figure #
Figure 1

Revise Date
July 23, 2008

0' 2400'
Approximate Scale

Scale
1" = 2,400'

Company Information

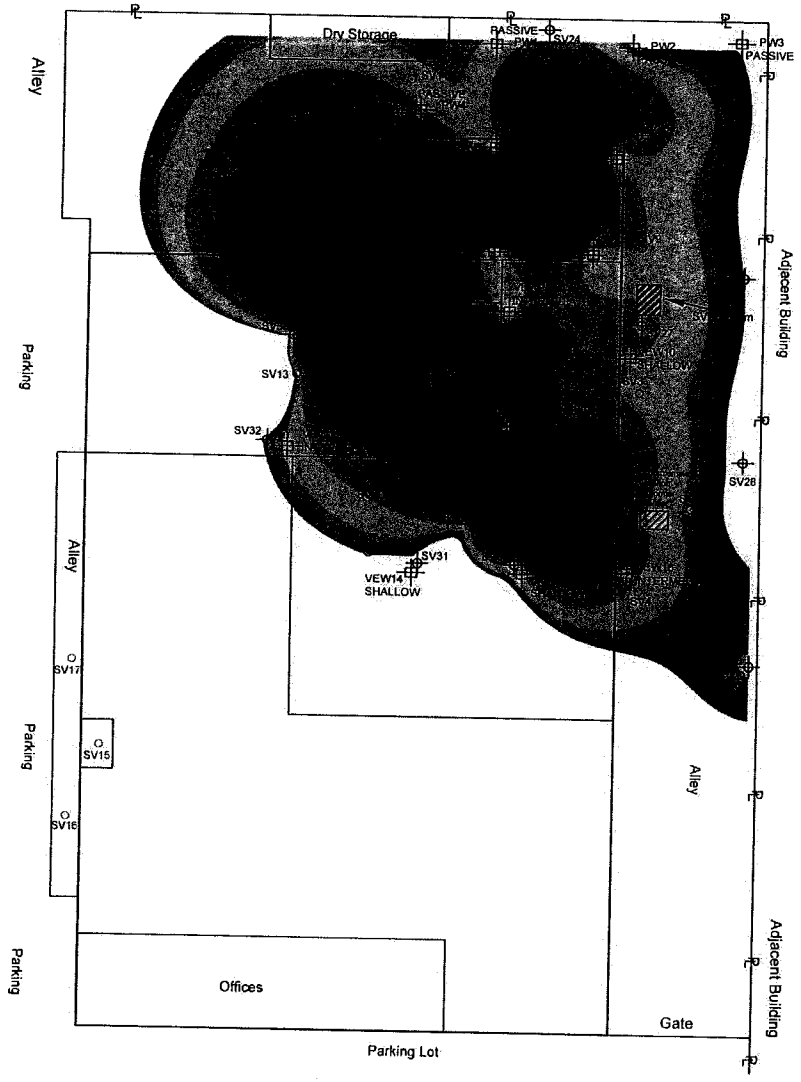
Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls



NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 Ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH PRE-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT SUB SLAB - 5 FT BGS

Figure #
Figure 2A

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

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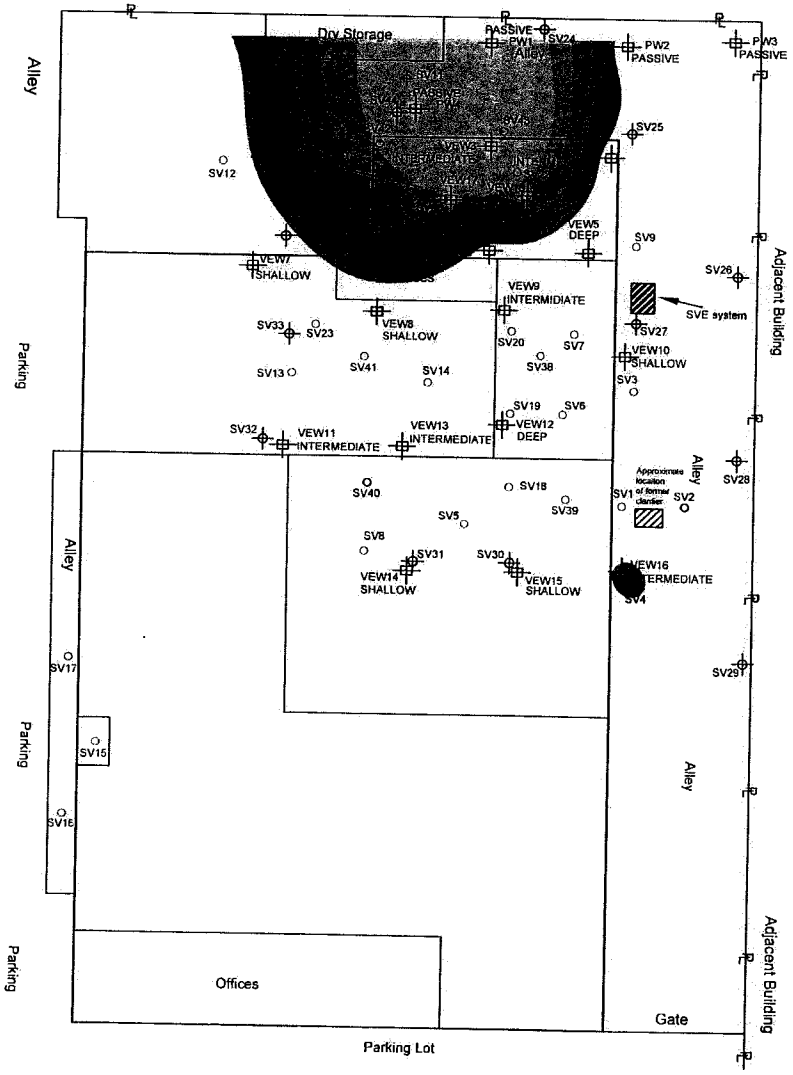
Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls



- 200 ug/L or greater
- 100 ug/L
- 50 ug/L
- 20 ug/L
- 5 ug/L

NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT SUB SLAB - 5 FT BGS (MARCH 2009)

Figure #
Figure 2B

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

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(714) 730-5397

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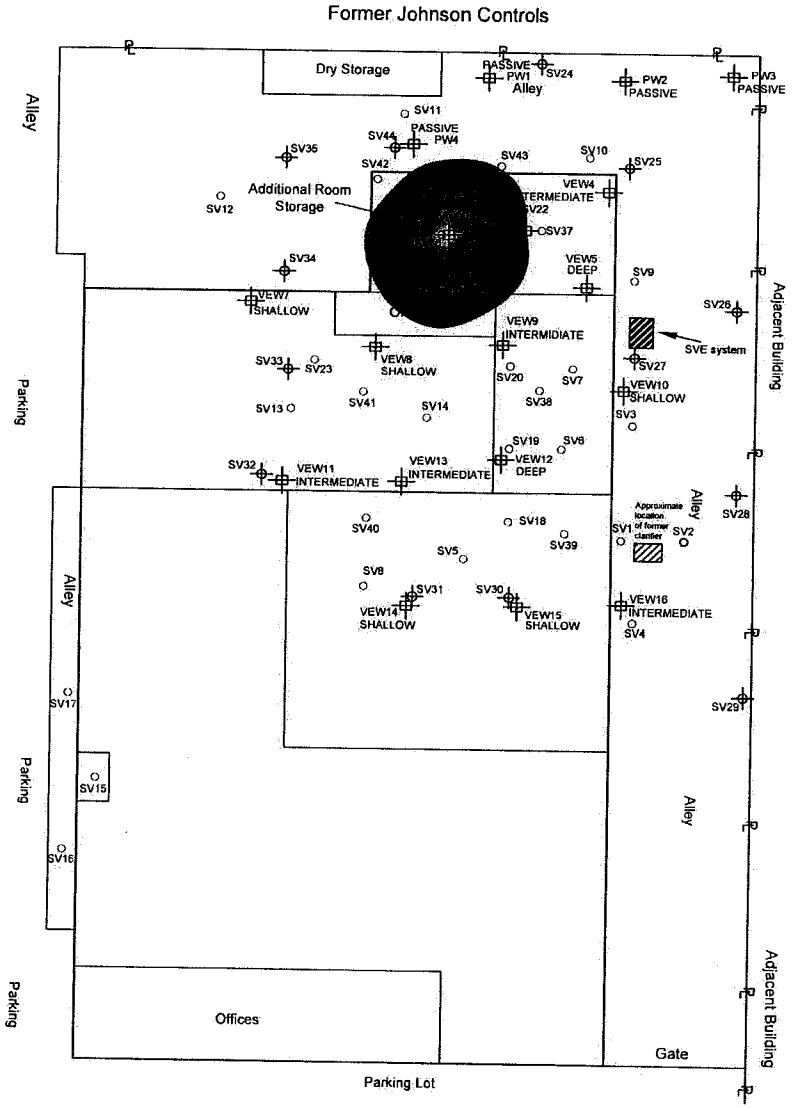
(714) 730-6476

THE REYNOLDS GROUP ENVIRONMENTAL SERVICES



General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT SUB SLAB - 5 FT BGS (NOVEMBER 2009)

Figure #
Figure 2C

Revise Date
November 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

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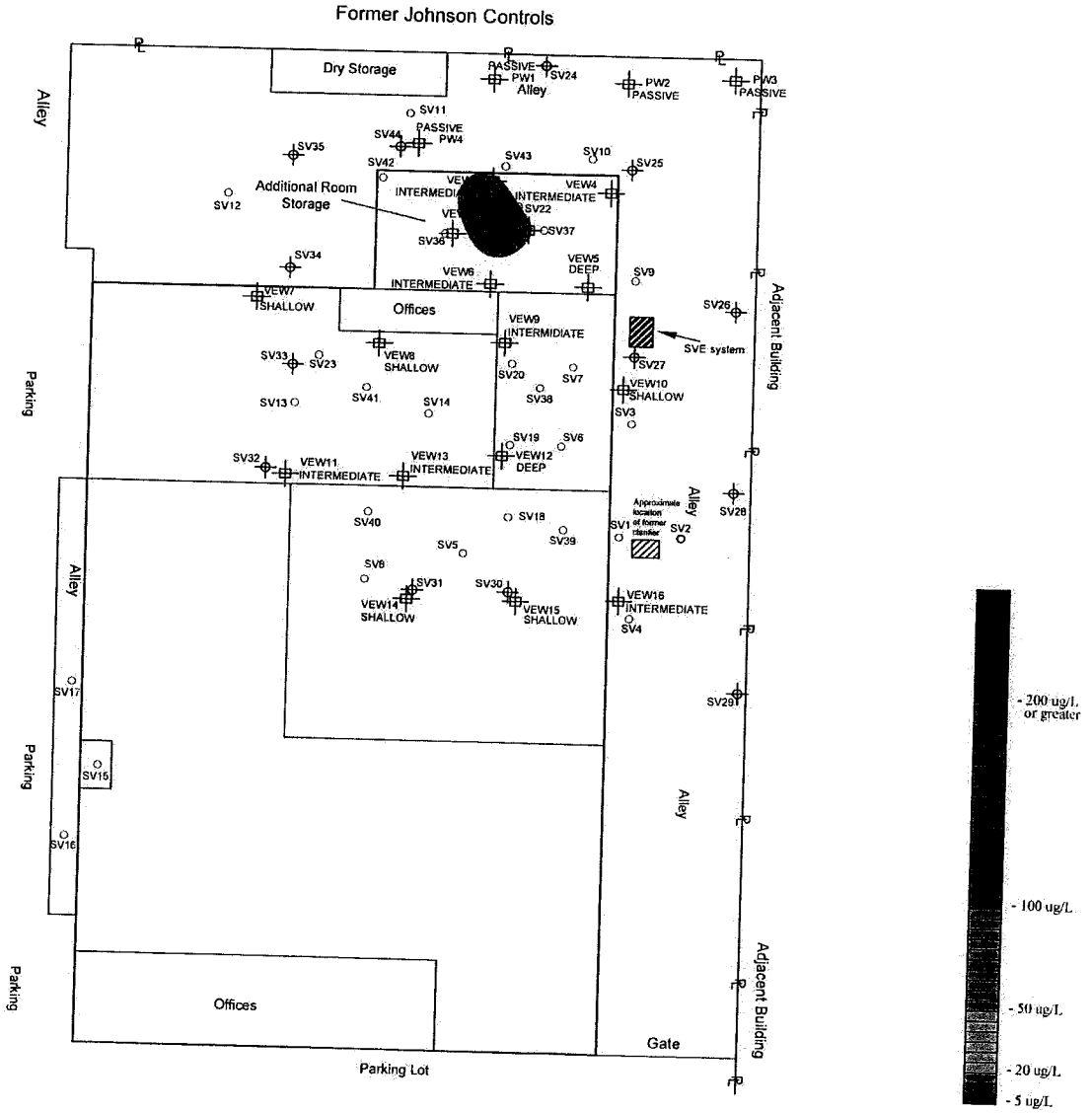
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES



NORTH

General Notes

SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)

- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)

DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)

PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)

- Temporary Soil Vapor Probe Location

- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave,
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT SUB SLAB - 5 FT BGS (OCTOBER 2010)

Figure #
Figure 2D

Revise Date
December 2010

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

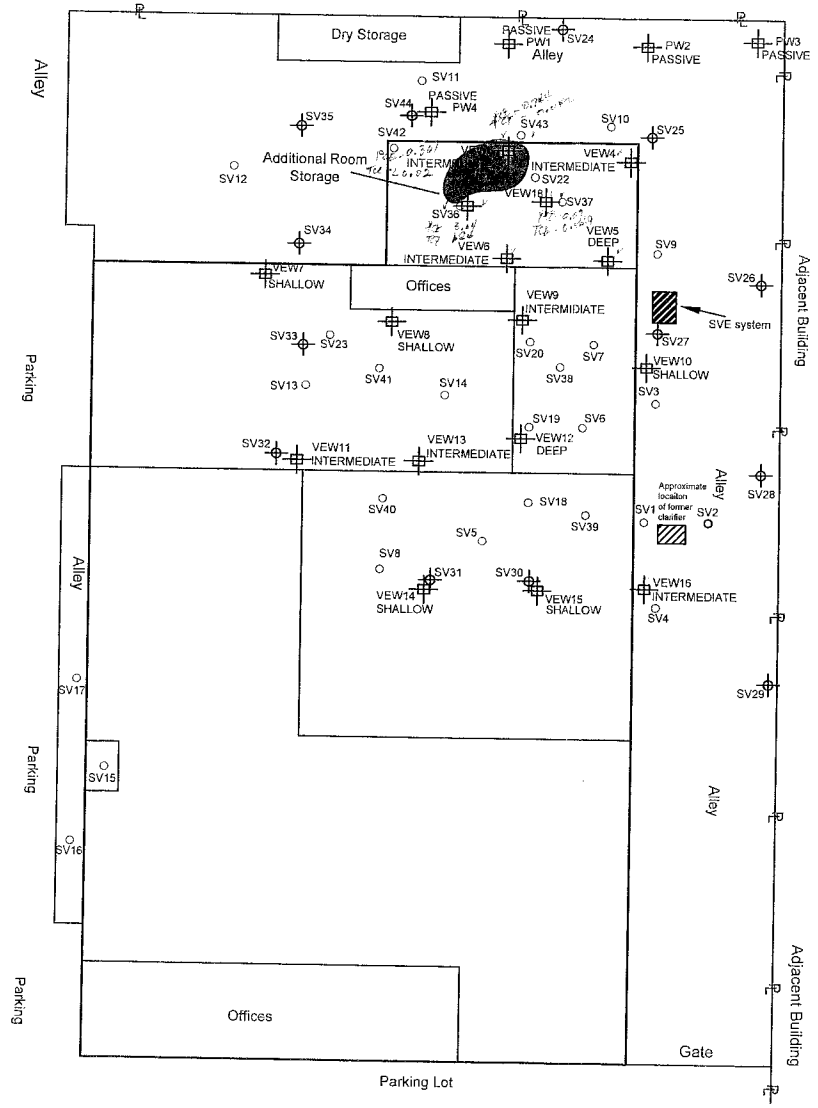
Address
520 West 1st Street
Tustin, CA 92780

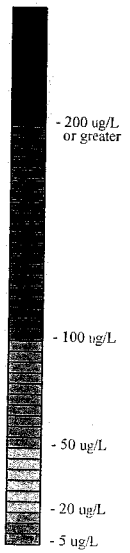
Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls





NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15 ,and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT SUB SLAB - 5 FT BGS (June 2011)

Figure #
Figure 2E

Revise Date
July 2011

0' 60'
Approximate Scale

Scale
1" = 60'

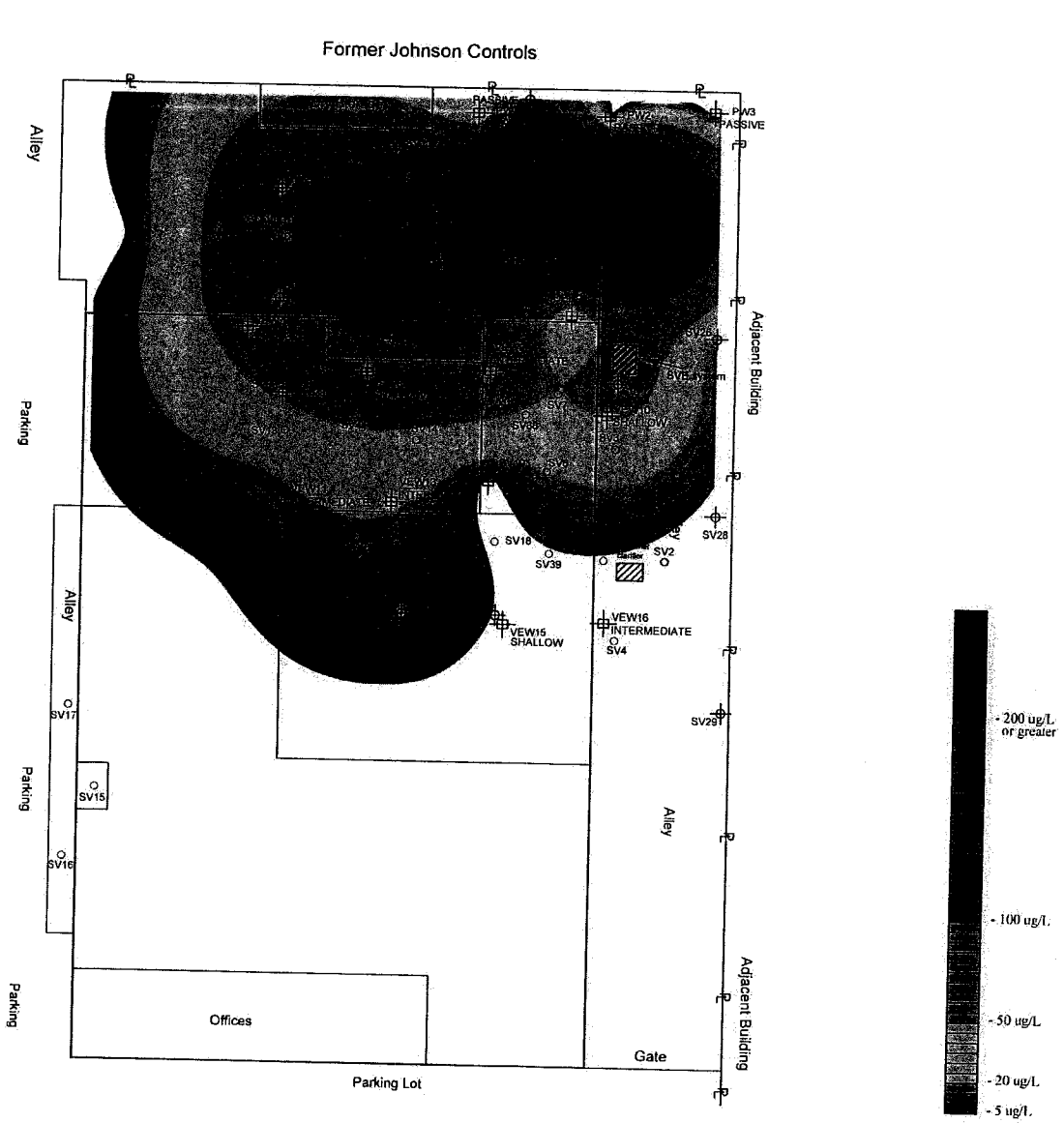
Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES



NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 Ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH PRE-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS

Figure #
Figure 3A

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

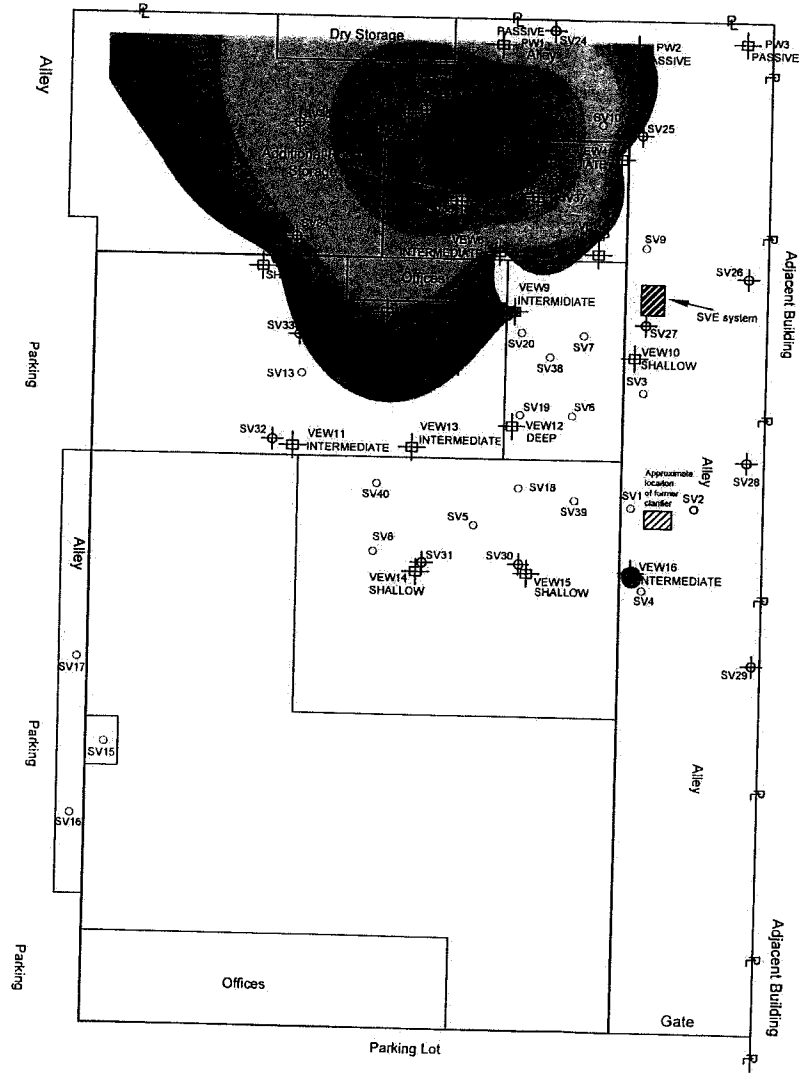
Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls



- 200 ug/L or greater
- 100 ug/L
- 50 ug/L
- 20 ug/L
- 5 ug/L

NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 19)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 19, and 22 to 25 Ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 19, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 19, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS (MARCH 2009)

Figure #
Figure 3B

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

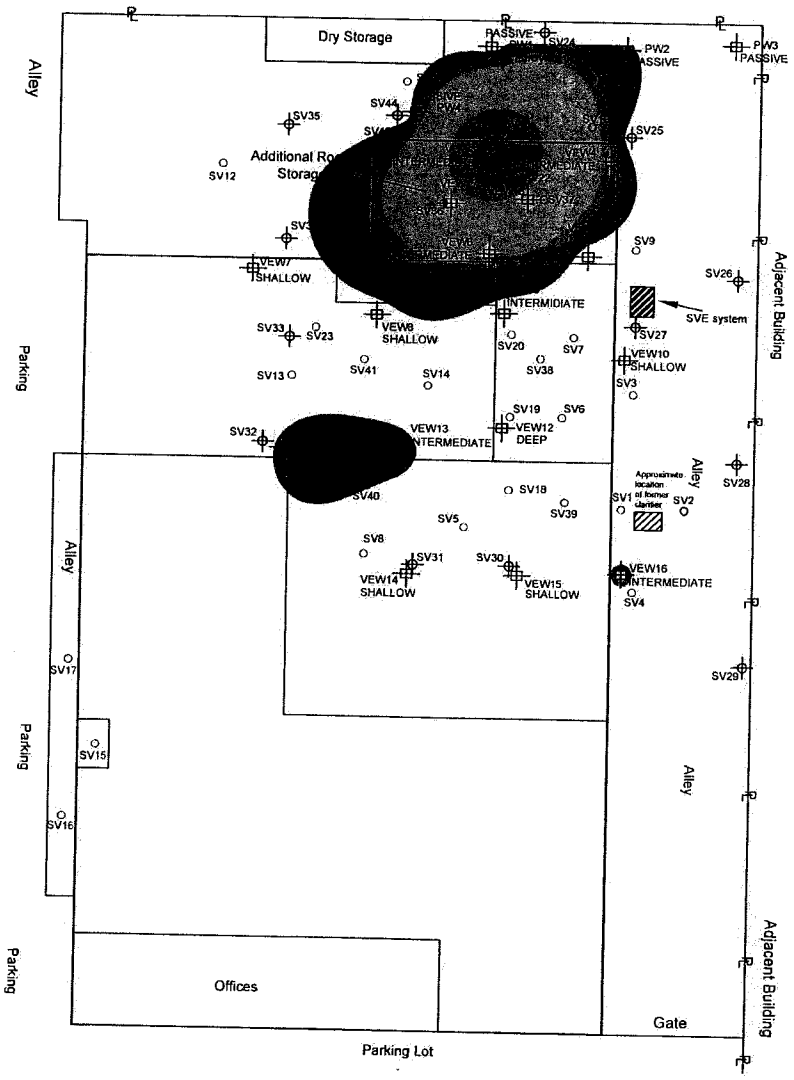
Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP ENVIRONMENTAL SERVICES

Former Johnson Controls



- 200 ug/L or greater
- 100 ug/L
- 50 ug/L
- 20 ug/L
- 5 ug/L

General Notes

SHALLOW -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15).

-Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 19, and 22 to 25 ft bgs)

DEEP -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 19, 22 to 25, 45 to 60 ft bgs)

PASSIVE -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 19, 22 to 25, 45 to 60 ft bgs)

-Temporary Soil Vapor Probe Location

- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS (NOVEMBER 2009)

Figure #
Figure 3C

Revise Date
November 2009

0' 60'
Approximate Scale

Scale
1" = 60'

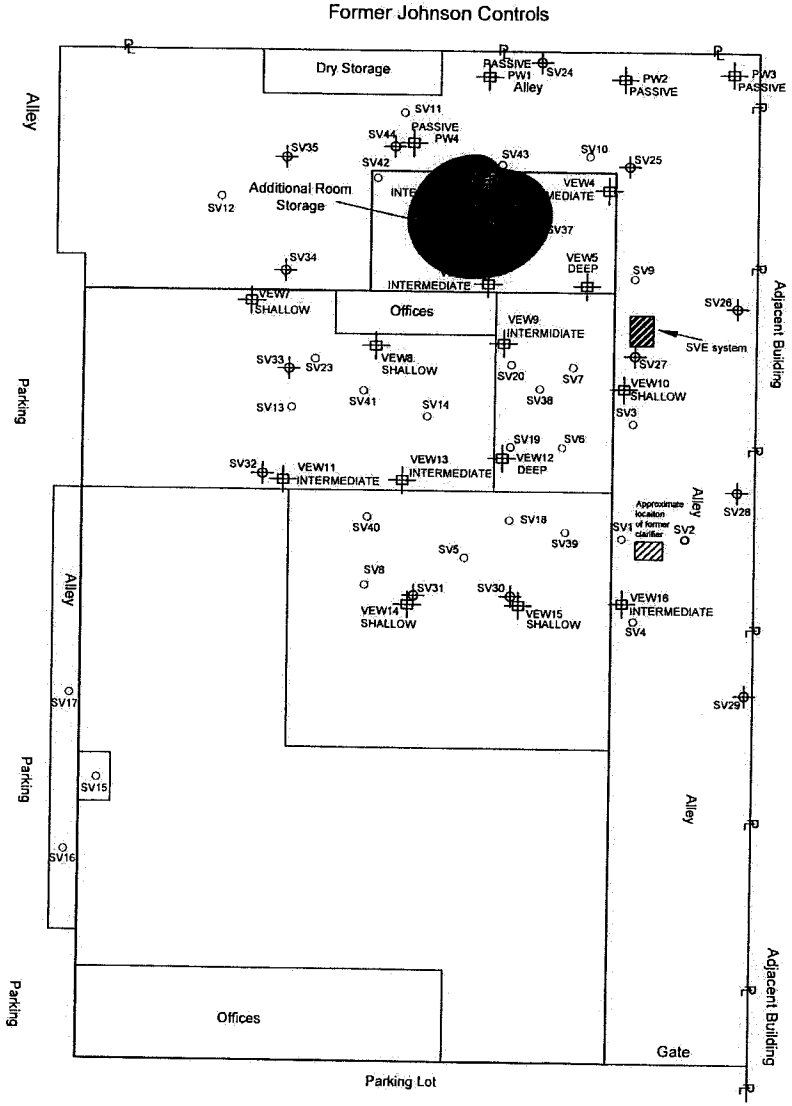
Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP ENVIRONMENTAL SERVICES



- 200 ug/L or greater
- 100 ug/L
- 50 ug/L
- 20 ug/L
- 5 ug/L

NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS (OCTOBER 2010)

Figure #
Figure 3D

Revise Date
December 2010

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
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(714) 730-5397

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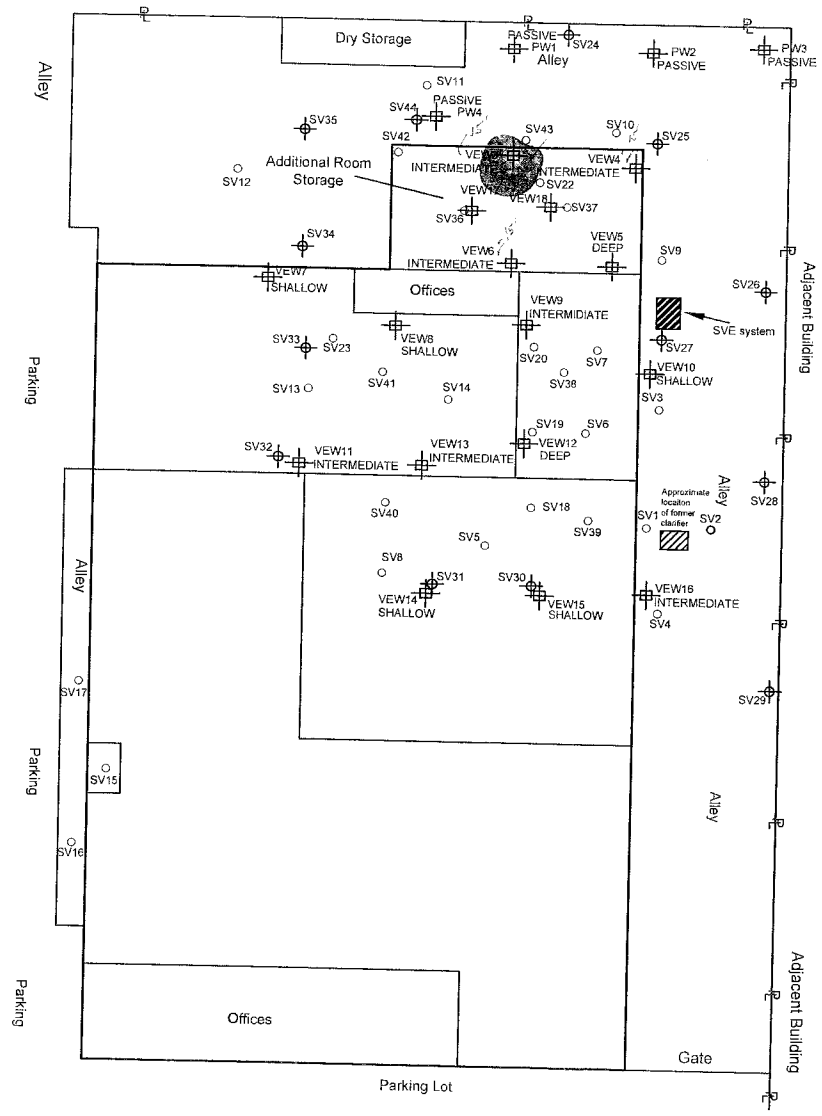
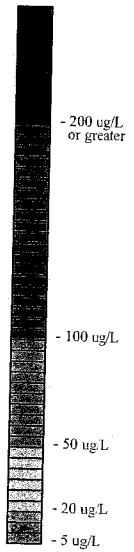
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls





NORTH

General Notes

- SHALLOW: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 15 FT BGS (June 2011)

Figure #
Figure 3E

Revise Date
July 2011

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

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(714) 730-5397

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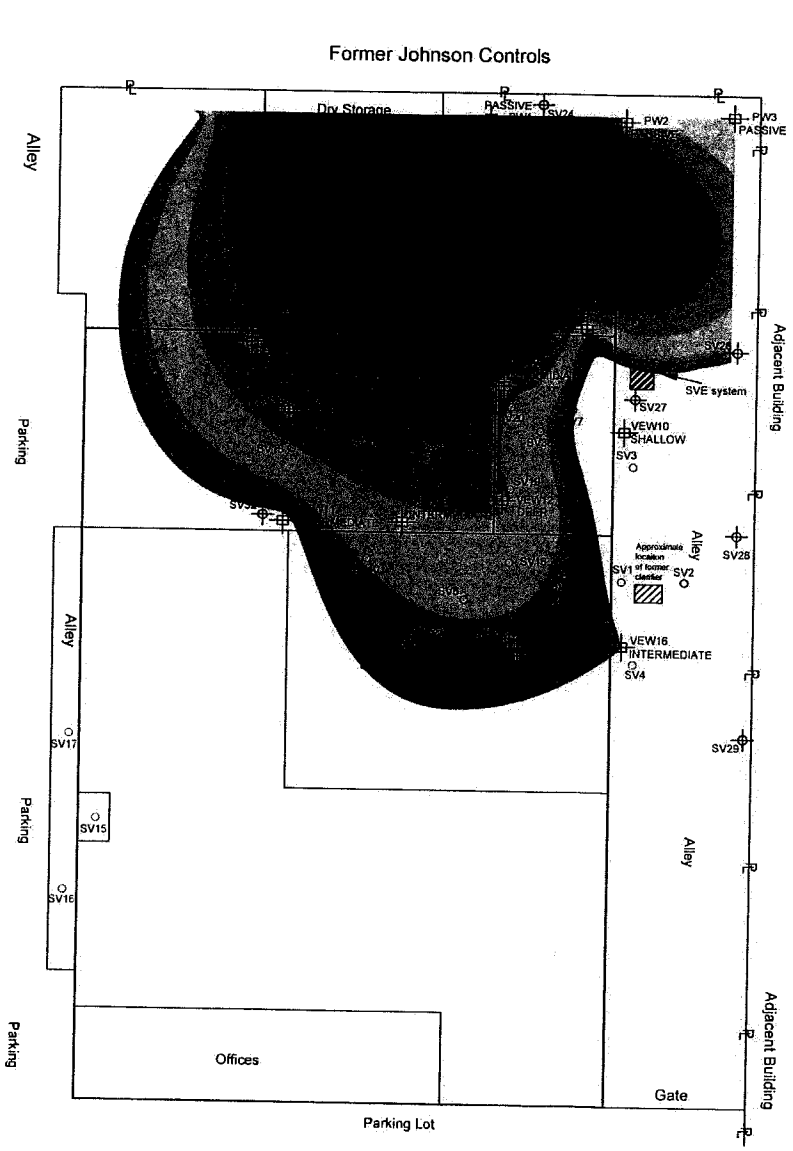
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES



NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH PRE-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS

Figure #
Figure 4A

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

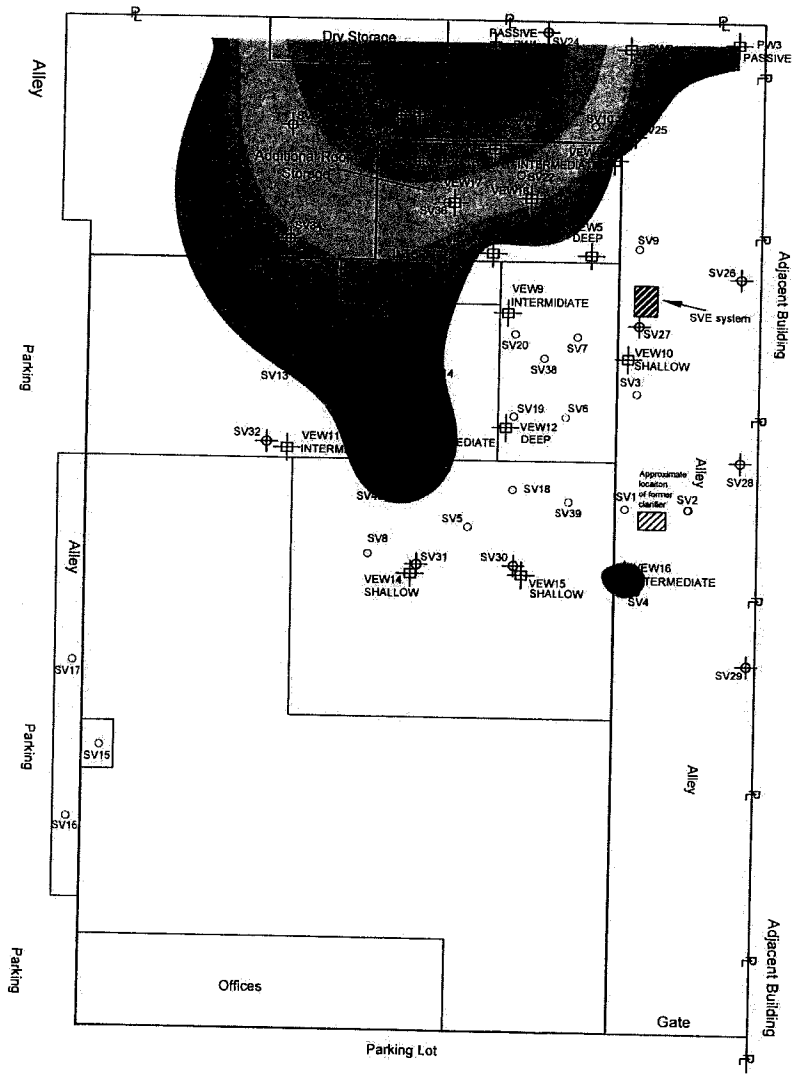
Address
520 West 1st Street
Tustin, CA 92780

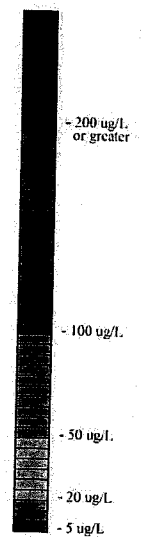
Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls





NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS (MARCH 2009)

Figure #
Figure 4B

Revise Date
March 2009

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

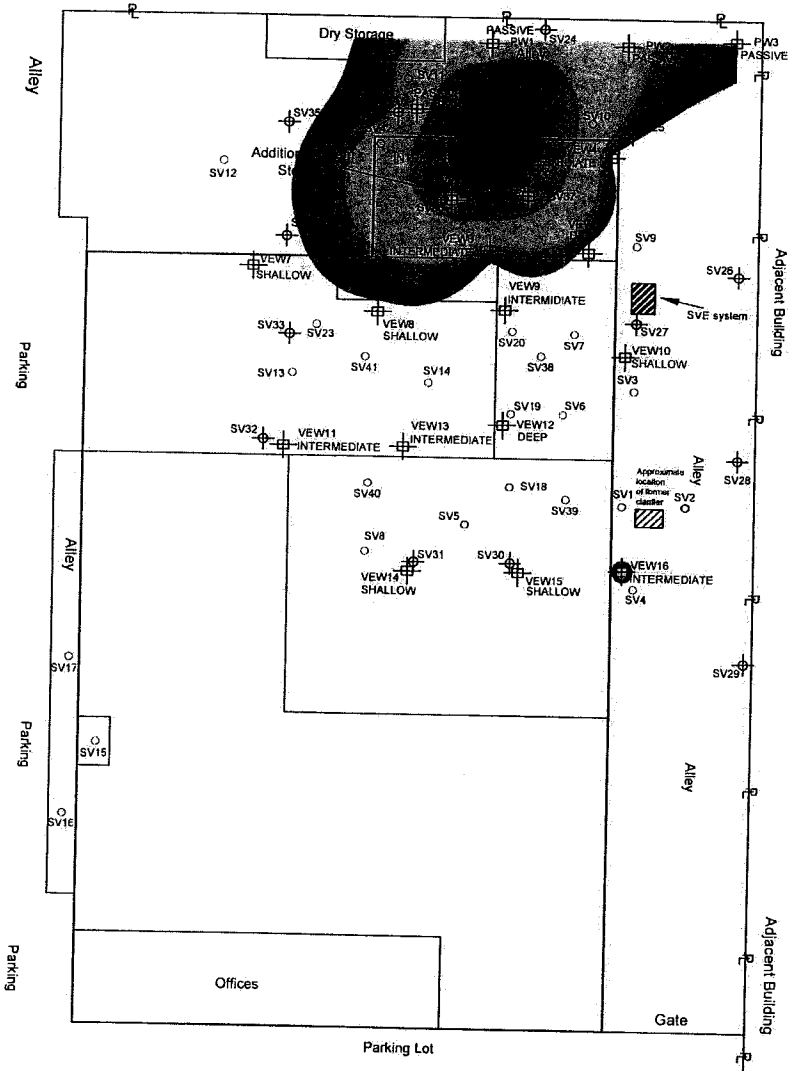
Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Former Johnson Controls



NORTH

General Notes

- SHALLOW: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 9, and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 9, 12 to 15, and 22 to 29 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 9, 12 to 15, 22 to 29, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 9, 12 to 15, 22 to 29, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS (NOVEMBER 2009)

Figure #
Figure 4C

Revise Date
November 2009

0' 60'
Approximate Scale

Scale
1" = 60'

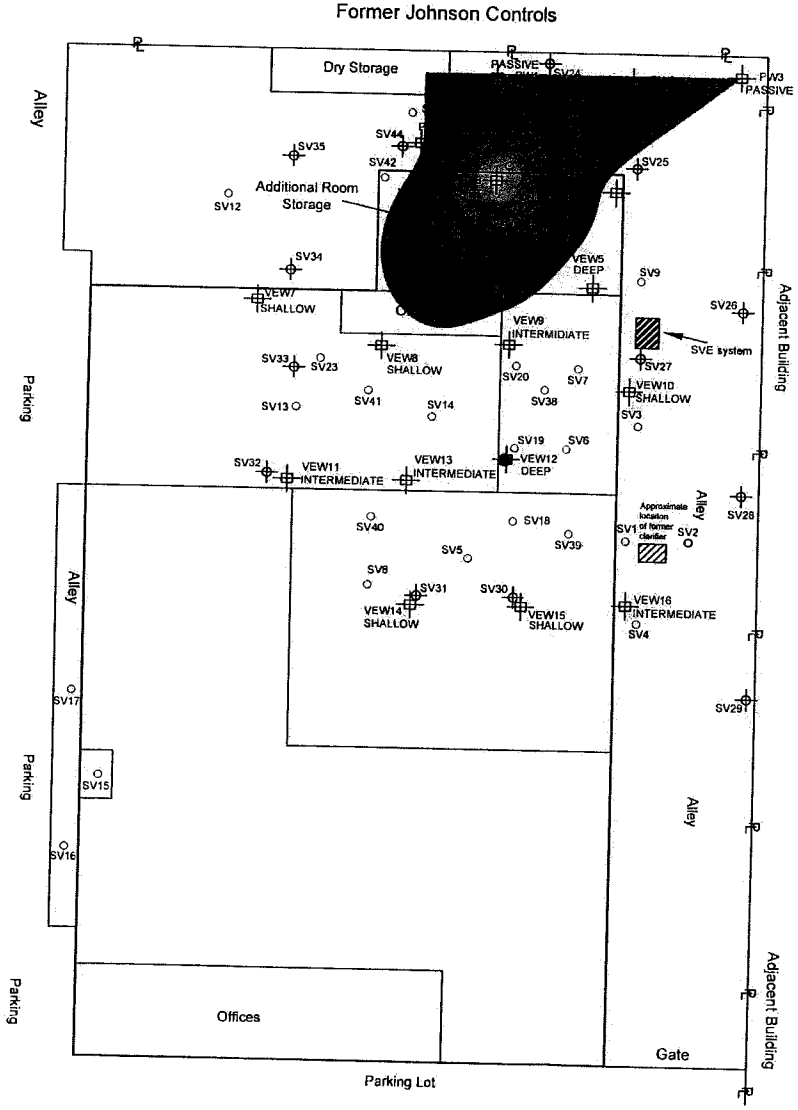
Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES



NORTH

General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 Ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 Ft bgs)
- Temporary Soil Vapor Probe Location
- Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS (OCTOBER 2010)

Figure #
Figure 4D

Revise Date
December 2010

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
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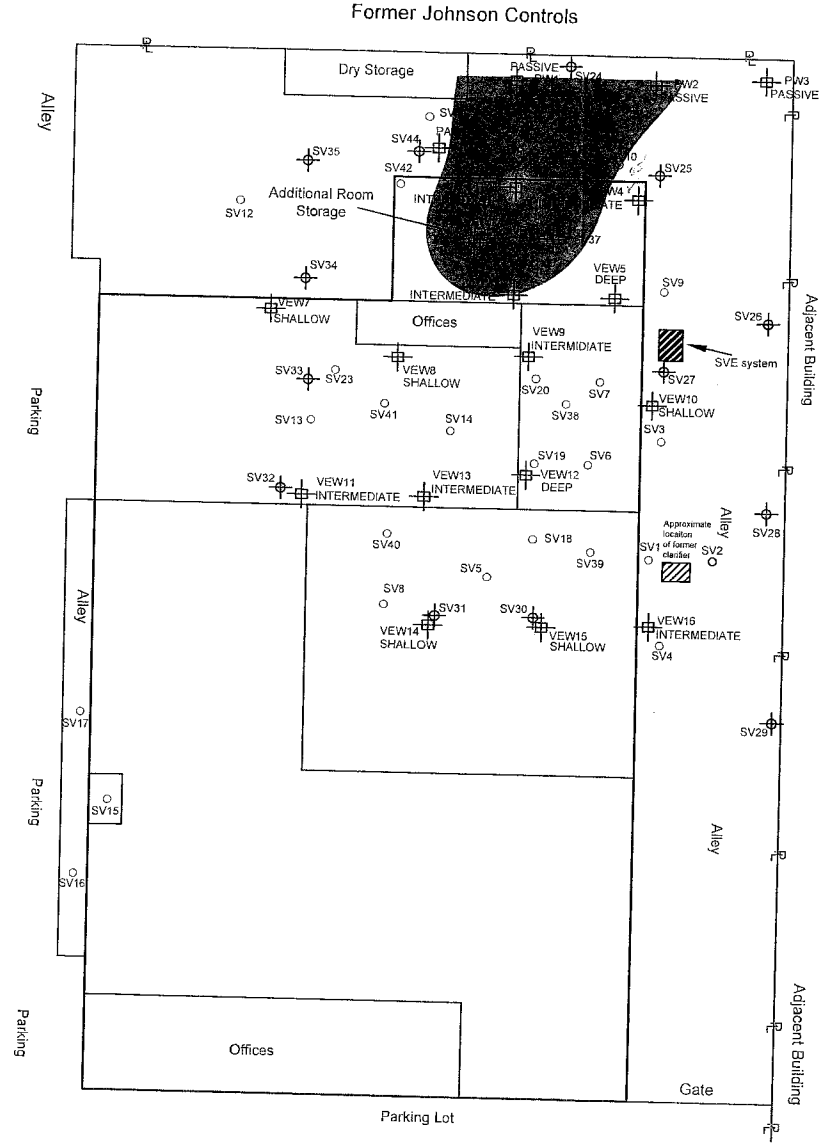
Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES



NORTH

General Notes

- SHALLOW: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP: -Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE: -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- -Temporary Soil Vapor Probe Location
- - Soil Gas Location

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLAN WITH POST-REMEDIATION PCE SOIL VAPOR CONCENTRATION CONTOURS AT 25 FT BGS (June 2011)

Figure #
Figure 4E

Revise Date
July 2011

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

Telephone
(714) 730-5397

Fax
(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

Figure 5 - Cumulative PCE & TCE Removed over Time

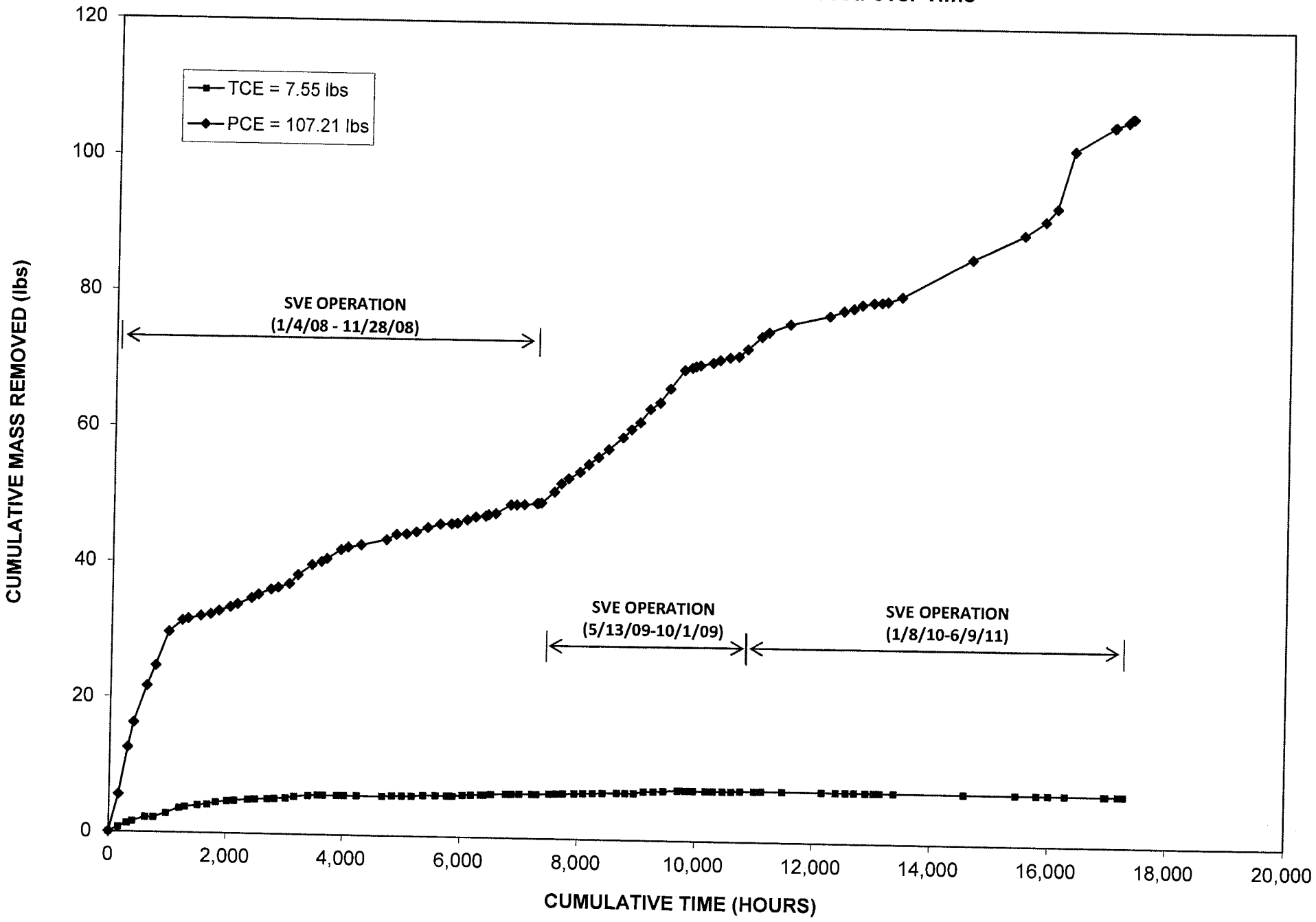
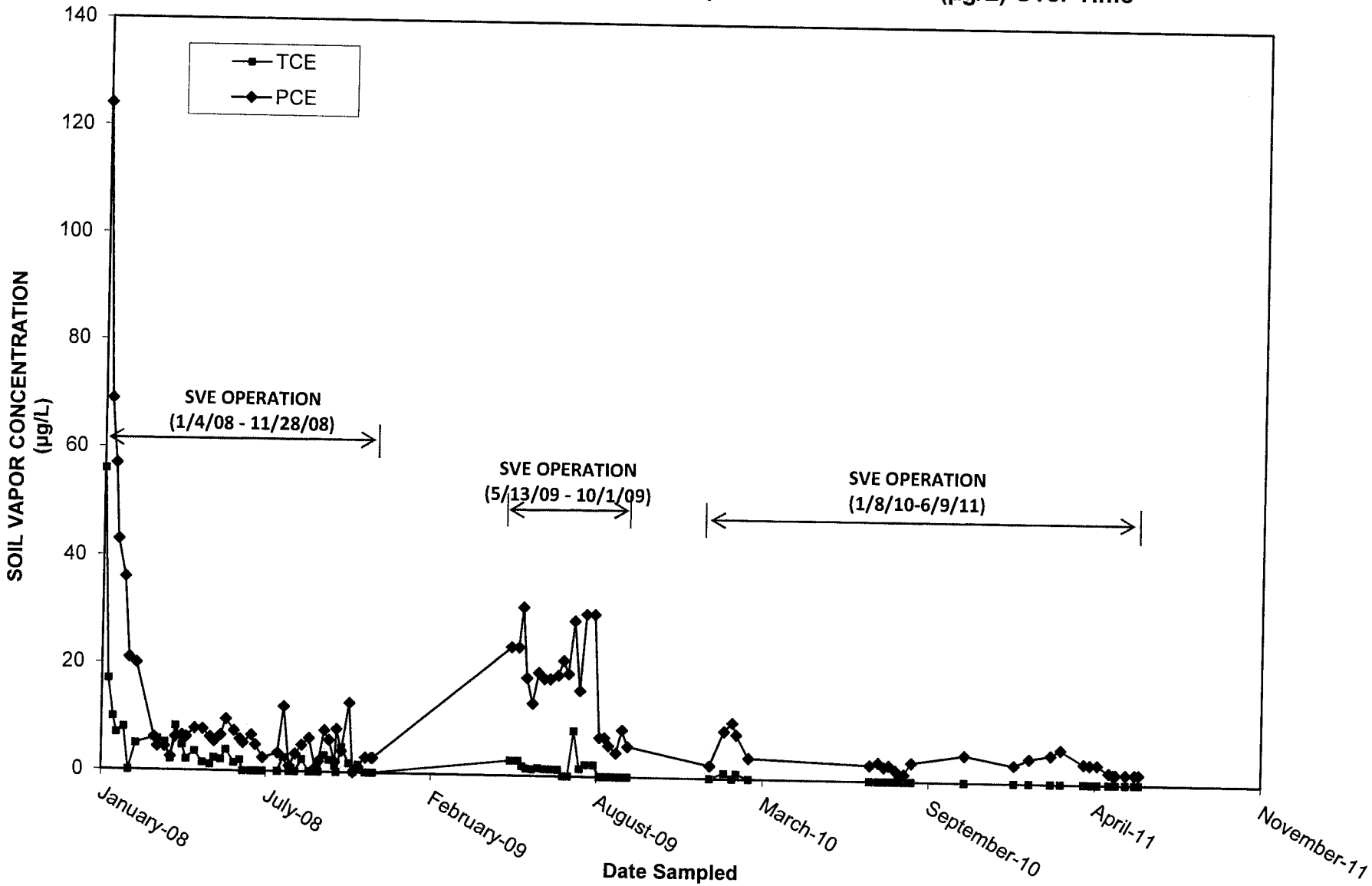
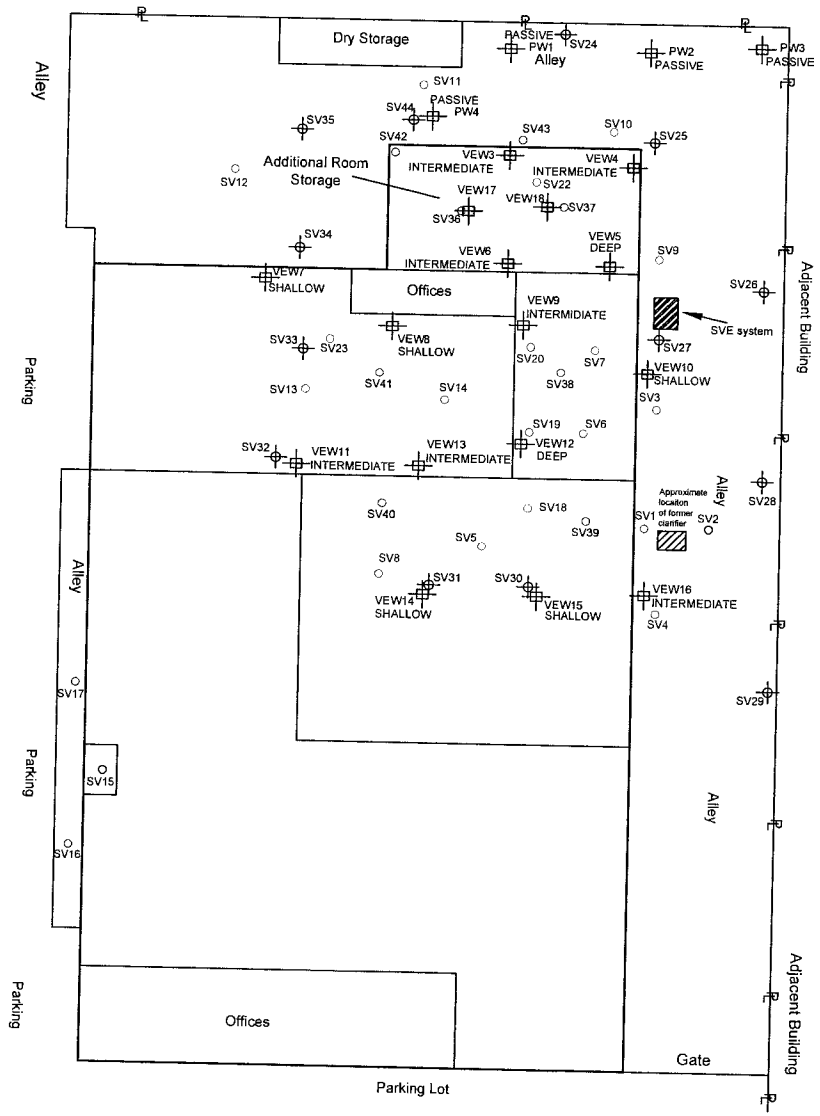


FIGURE 6 - Inlet PCE & TCE Vapor Concentrations (µg/L) Over Time



Former Johnson Controls



General Notes

- SHALLOW - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5 and 12 to 15)
- Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bgs)
- DEEP - Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- PASSIVE - Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)
- Soil Vapor Probe Location
- Soil Gas Location (Temporary)
- Proposed Wells to be Abandoned in RED

Project Details

Name
Universal Fullerton

Address
1551 E. Orangethorpe Ave.
Fullerton, CA

Number
7115

Figure Details

SITE PLOT PLAN WITH PROPOSED WELLS AND PROBES TO BE ABANDONED

Figure #
Figure 7

Revise Date
July 2011

0' 60'
Approximate Scale

Scale
1" = 60'

Company Information

Address
520 West 1st Street
Tustin, CA 92780

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(714) 730-6476

THE REYNOLDS GROUP
ENVIRONMENTAL SERVICES

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

May 11, 2011

ELAP Certificate No: 2268

Mr. Alejandro Fuan
The Reynolds Group
520 West 1st St.
Tustin, CA 92781

Project: 7115 Universal
C&E ID: 110509A

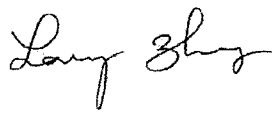
Dear Mr. Fuan,

Enclosed is an analytical report for the sample(s) received by Chemical & Environmental Laboratories, Inc. on May 9, 2011, and analyzed as indicated in the chain-of-custody attached.

Unless otherwise noted, no problems were encountered during receiving, preparation and analysis of these samples.

Please call me at (562) 921-8123 if you have any questions regarding this report.

Sincerely,



Larry Zhang, Ph.D.
Laboratory Director

14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: 562 921-8123, Fax: 562 921-7974

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 05/09/11
Date Analyzed: 05/09/11
Date Reported: 05/10/11
Unit Reported: ppm v

C&E LAB ID	110509A-1	110509A-2	110509A-3	110509A-4	110509A-5
SAMPLE ID	INLET	OUTLET	VEW-17-5	VEW-18-5	VEW-3-5
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Benzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Bromodichloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Bromoform	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Bromomethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
2-Butanone (MEK)	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Carbon Disulfide	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Carbon Tetrachloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Chloroform	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Chloromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Cyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Dibromochloromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dibromo-3-Chloropropane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,2-Dibromoethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,2-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,3-Dichlorobenzene	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,4-Dichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Dichlorodifluoromethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1-Dichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dichloroethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,1-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
cis-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
trans-1,2-Dichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2-Dichloropropane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 05/09/11
Date Analyzed: 05/09/11
Date Reported: 05/10/11
Unit Reported: ppm v

C&E LAB ID	110509A-1	110509A-2	110509A-3	110509A-4	110509A-5
SAMPLE ID	INLET	OUTLET	VEW-17-5	VEW-18-5	VEW-3-5
DF	1	1	1	1	1

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
cis-1,3-Dichloropropene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Ethylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
2-Hexanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methyl Acetate	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methylcyclohexane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Methylene Chloride	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
4-Methyl-2-Pentanone	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Styrene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Isopropylbenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
4-Isopropyltoluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,2,2-Tetrachloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Tetrachloroethene	0.26	0.05	ND	0.05	ND	0.05	ND	0.05	1.99	0.05
Toluene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,2,4-Trichlorobenzene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,1-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
1,1,2-Trichloroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Trichloroethene	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Trichlorofluoromethane	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
1,1,2-Trichlorotrifluoroethane	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05
Vinyl Chloride	ND	0.25	ND	0.25	ND	0.25	ND	0.25	ND	0.25
Total Xylenes	ND	0.05	ND	0.05	ND	0.05	ND	0.05	ND	0.05

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	107	109	108	106	110
1,2-Dichloroethane-d4	98	100	101	101	98
Toluene-D8	98	97	98	98	97
4-Bromofluorobenzene	96	95	97	97	96

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 05/09/11
Date Analyzed: 05/09/11
Date Reported: 05/10/11
Unit Reported: ppm v

C&E LAB ID	110509A-6				
SAMPLE ID	VEW-3-15				
DF	1				

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
Acetone	ND	0.05								
Benzene	ND	0.05								
Bromodichloromethane	ND	0.05								
Bromoform	ND	0.25								
Bromomethane	ND	0.25								
2-Butanone (MEK)	ND	0.25								
Carbon Disulfide	ND	0.25								
Carbon Tetrachloride	ND	0.05								
Chlorobenzene	ND	0.05								
Chloroethane	ND	0.25								
Chloroform	ND	0.05								
Chloromethane	ND	0.25								
Cyclohexane	ND	0.05								
Dibromochloromethane	ND	0.05								
1,2-Dibromo-3-Chloropropane	ND	0.25								
1,2-Dibromoethane	ND	0.25								
1,2-Dichlorobenzene	ND	0.25								
1,3-Dichlorobenzene	ND	0.25								
1,4-Dichlorobenzene	ND	0.05								
Dichlorodifluoromethane	ND	0.05								
1,1-Dichloroethane	ND	0.05								
1,2-Dichloroethane	ND	0.25								
1,1-Dichloroethene	1.21	0.05								
cis-1,2-Dichloroethene	ND	0.05								
trans-1,2-Dichloroethene	ND	0.05								
1,2-Dichloropropane	ND	0.05								

To be continued on page 2

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

ANALYTICAL REPORT

--- EPA 8260B (VOCs) ---

Client Name: The Reynolds Group
Project Manager: Alejandro Fuan
Project Name: 7115 Universal
Sample Matrix: Vapor

Date Sampled: 05/09/11
Date Analyzed: 05/09/11
Date Reported: 05/10/11
Unit Reported: ppm v

C&E LAB ID	110509A-6				
SAMPLE ID	VEW-3-15				
DF	1				

COMPOUND	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
trans-1,3-Dichloropropene	ND	0.05								
cis-1,3-Dichloropropene	ND	0.05								
Ethylbenzene	ND	0.05								
2-Hexanone	ND	0.05								
Methyl Acetate	ND	0.05								
Methylcyclohexane	ND	0.05								
Methylene Chloride	ND	0.05								
4-Methyl-2-Pentanone	ND	0.05								
Styrene	ND	0.05								
Isopropylbenzene	ND	0.05								
4-Isopropyltoluene	ND	0.05								
1,1,2,2-Tetrachloroethane	ND	0.05								
Tetrachloroethene	21.59	0.05								
Toluene	ND	0.05								
1,2,4-Trichlorobenzene	ND	0.05								
1,1,1-Trichloroethane	ND	0.05								
1,1,2-Trichloroethane	ND	0.05								
Trichloroethene	0.86	0.05								
Trichlorofluoromethane	ND	0.25								
1,1,2-Trichlorotrifluoroethane	ND	0.05								
Vinyl Chloride	ND	0.25								
Total Xylenes	ND	0.05								

Surrogate Compounds	% Surrogate Recovery (70-130)				
Dibromofluoromethane	110				
1,2-Dichloroethane-d4	99				
Toluene-D8	96				
4-Bromofluorobenzene	94				

ND = Not detected at the indicated reporting limit; DF = Dilution Factor; RL = Reporting limit.
MI = Matrix Interference; unquantifiable due to coeluting organics in sample.

CHEMICAL & ENVIRONMENTAL LABORATORIES, INC.

QC REPORT

--- EPA 8260B (VOC in Vapor) ---

I. Laboratory Control Sample

Date Analyzed: 05/09/11

LCS ID: VOC110509LC

ANALYTE	LCS %	ACP %CL
1,1-Dichloroethene	110	70-130
Benzene	95	70-130
Trichloroethene	102	70-130
Toluene	98	70-130
Chlorobenzene	101	70-130

II. Matrix Spike/Matrix Spike Duplicate

Date Analyzed: 05/09/11

QC Batch: VOC110509MS

ANALYTE	MS %	MSD %	RPD	ACP%CL	ACP RPD
1,1-Dichloroethene	96	116	19	70-130	20
Benzene	93	95	2	70-130	20
Trichloroethene	101	103	2	70-130	20
Toluene	98	100	2	70-130	20
Chlorobenzene	100	103	3	70-130	20

III. Method Blank

Date Analyzed: 05/09/11

Unit: ppm v

COMPOUND	Reporting Limit	RESULT
Acetone	0.05	ND
Benzene	0.05	ND
Bromodichloromethane	0.05	ND
Bromoform	0.25	ND
Bromomethane	0.25	ND
2-Butanone (MEK)	0.25	ND
Carbon Disulfide	0.25	ND
Carbon Tetrachloride	0.05	ND
Chlorobenzene	0.05	ND
Chloroethane	0.25	ND
Chloroform	0.05	ND
Chloromethane	0.25	ND
Cyclohexane	0.05	ND
Dibromochloromethane	0.05	ND
1,2-Dibromo-3-Chloropropane	0.25	ND
1,2-Dibromoethane	0.25	ND

COMPOUND	Reporting Limit	RESULT
1,2-Dichlorobenzene	0.25	ND
1,3-Dichlorobenzene	0.25	ND
1,4-Dichlorobenzene	0.05	ND
Dichlorodifluoromethane	0.05	ND
1,1-Dichloroethane	0.05	ND
1,2-Dichloroethane	0.25	ND
1,1-Dichloroethene	0.05	ND
cis-1,2-Dichloroethene	0.05	ND
trans-1,2-Dichloroethene	0.05	ND
1,2-Dichloropropane	0.05	ND
trans-1,3-Dichloropropene	0.05	ND
cis-1,3-Dichloropropene	0.05	ND
Ethylbenzene	0.05	ND
2-Hexanone	0.05	ND
Methyl Acetate	0.05	ND
Methylcyclohexane	0.05	ND

COMPOUND	Reporting Limit	RESULT
Methylene Chloride	0.05	ND
4-Methyl-2-Pentanone	0.05	ND
Styrene	0.05	ND
Isopropylbenzene	0.05	ND
4-Isopropyltoluene	0.05	ND
1,1,2,2-Tetrachloroethane	0.05	ND
Tetrachloroethene	0.05	ND
Toluene	0.05	ND
1,2,4-Trichlorobenzene	0.05	ND
1,1,1-Trichloroethane	0.05	ND
1,1,2-Trichloroethane	0.05	ND
Trichloroethene	0.05	ND
Trichlorofluoromethane	0.25	ND
1,1,2-Trichlorotrifluoroethane	0.05	ND
Vinyl Chloride	0.25	ND
Total Xylenes	0.05	ND

Surrogate Compounds	% Surr. Rec. (70-130)
Dibromofluoromethane	105
1,2-Dichloroethane-d4	97
Toluene-D8	98
4-Bromofluorobenzene	98

ND = Not detected at the indicated reporting limit.

CHAIN OF CUSTODY RECORD

C & E LABORATORIES, INC.
14148 E. Firestone Blvd., Santa Fe Springs, CA 90670 Tel: (562) 921-8123 Fax: (562) 921-7974

C&E LAB ID: 110509A

Company Name: TRC
Project Manager: AL FLAN
Project No./Name: 7115 UNIVERSAL
Tel: ____ Fax: ____
Site Address: 1551 E ORANGETHORPE AVE, FULLERTON CA
Sampled By: RB

Page 1 of 1

Sample Conditions: __ Chilled ✓ Seals Intact

Turn Around Time Desired: Normal / Same Day / 24hr / 48hr

	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	SAMPLE MATRIX (air/soil/water)	NO. OF CONTAINERS/ TYPE	GC/MS TPH-G	8015M TPH-D	418.1 TRPH	8260B BTEX OXY.	8260B VOC	CAM METALS	8270C SVOC	6010B LEAD	8081A PEST	8082 PCB	
1	INLET	5-9-11	8:15	AIR	1 LITER JAR											
2	OUTLET		8:10													
3	VEW-17-5		9:10													
4	VEW-18-5		9:11													
5	VEW-3-5		9:20													
6	VEW-3-15		9:25													

Relinquished By: [signature]	Date/Time: 5-9-11	Received By: [signature]	Date/Time: 5/9/11
Relinquished By:	Date/Time:	Received By:	Date/Time:

EDF Required: (circle) Yes No
EDF Global ID No.: T
Comments:

Jones Environmental, Inc.

Testing Laboratories

P.O. Box 5387 • Fullerton, CA 92838
(714) 449-9937 • FAX (714) 4499685

JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. BOX 1996 TUSTIN,CA 92681-1996	**JEL Ref. No.:**	A-6924
		Client Ref. No.:	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project Address:	1551 E. Orangethorpe Ave. Fullerton, CA 92831	**Date Analyzed:**	6/16/2011
		Physical State:	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B- Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples are collected in glass gas-tight syringes equipped with Teflon plungers. Tubing placed in the ground for soil gas sampling is purged three different times as recommended by DTSC/RWQCB regulations. This purge test determines how many purges of the soil gas tubing are needed throughout the project. One, three and seven purge volumes were analyzed to make this determination.

A tracer gas, n-Propanol, was placed at the tubing-surface interface before sampling. This compound is analyzed during the 8260B analytical run to determine if there are surface leaks into the subsurface due to improper installation of the probe. No n-Propanol was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min except when noted differently on the chain of custody record using a gas tight syringe. _3_purge volumes were used since this purging level gave the highest results for the compound(s) of greatest interest.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification , QC Reference Standards, Instrument Blanks and Ambient Air Blanks are analyzed every 12 hours as prescribed by the method. In addition, Matrix Spike (MS) and Matrix Spike Duplicates (MSD) are analyzed with each batch of Soil Gas samples. A duplicate sample is analyzed each day of the sampling activity.

All samples were analyzed within 30 minutes of sampling.

Approval:

Steve Jones, Ph.D.
Laboratory Manager

Jones Environmental, Inc.
Testing Laboratories
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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV-36-SS	SV-37-SS	SV-42-SS	SV-43-SS	SV-43-5	Practical Quantitation Limit	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	ug/L
Bromoform	ND	ND	ND	ND	ND	0.008	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.008	ug/L
Chloroform	ND	ND	ND	ND	ND	0.008	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.008	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloroethene	ND	**0.139**	ND	ND	ND	0.008	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID: / Analytes:	SV-36-SS	SV-37-SS	SV-42-SS	SV-43-SS	SV-43-5	Practical Quantitation Limit	Units
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Freon 113	ND	ND	ND	ND	ND	0.008	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.008	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Styrene	ND	ND	ND	ND	ND	0.008	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	ug/L
Tetrachloroethylene	**5.50**	**0.202**	**0.640**	**0.191**	**0.181**	0.008	ug/L
Toluene	ND	ND	ND	ND	ND	0.008	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	ug/L
Trichloroethylene	**3.84**	**0.387**	ND	ND	ND	0.008	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996 Tustin, CA 92681-1996	**JEL Ref. No.:**	A-6924
		Client Ref. No.:	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe Fullerton, CA	**Physical State:**	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:							
Analytes:	**SV-36-SS**	**SV-37-SS**	**SV-42-SS**	**SV-43-SS**	**SV-43-5**	**Practical Quantitation Limit**	**Units**
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	ug/L
Xylenes	ND	ND	ND	ND	ND	0.008	ug/L
MTBE	ND	ND	ND	ND	ND	0.008	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.008	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.008	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.008	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.040	ug/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.008	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	106%	84%	104%	87%	87%	75 - 125	
Toluene-d_8	103%	103%	104%	108%	102%	75 - 125	
4-Bromofluorobenzene	101%	92%	103%	108%	93%	75 - 125	
	A1-061611-CHECKS_1	A2-061611-CHECKS_1	A1-061611-CHECKS_1	A2-061611-CHECKS_1	A2-061611-CHECKS_1		

ND= Not Detected

Jones Environmental, Inc.

Testing Laboratories

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID: / **Analytes:**	SV-43-15	VEW-3-5	VEW-3-15	VEW-3-25	SV-43-SS-DUP	Practical Quantitation Limit	Units
Benzene	ND	ND	ND	ND	ND	0.008	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	ug/L
Bromoform	ND	ND	ND	ND	ND	0.008	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.008	ug/L
Chloroform	ND	ND	ND	ND	ND	0.008	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.008	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloroethene	ND	**0.059**	**0.058**	**0.180**	ND	0.008	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID: / Analytes:	SV-43-15	VEW-3-5	VEW-3-15	VEW-3-25	SV-43-SS-DUP	Practical Quantitation Limit	Units
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Freon 113	ND	ND	ND	ND	ND	0.008	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.008	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Styrene	ND	ND	ND	ND	ND	0.008	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	ug/L
Tetrachloroethylene	**0.276**	**17.2**	**16.8**	**17.6**	**0.244**	0.008	ug/L
Toluene	ND	ND	ND	ND	ND	0.008	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	ug/L
1,1,2-Trichloroethane	ND	ND	ND	**1.59**	ND	0.008	ug/L
Trichloroethylene	ND	**0.690**	**0.748**	**0.657**	ND	0.008	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID: / **Analytes:**	SV-43-15	VEW-3-5	VEW-3-15	VEW-3-25	SV-43-SS-DUP	Practical Quantitation Limit	Units
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	ug/L
Xylenes	ND	ND	ND	ND	ND	0.008	ug/L
MTBE	ND	ND	ND	ND	ND	0.008	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.008	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.008	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.008	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.040	ug/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.008	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	103%	115%	100%	108%	110%	75 - 125	
Toluene-d_8	101%	104%	102%	100%	111%	75 - 125	
4-Bromofluorobenzene	89%	104%	106%	95%	99%	75 - 125	
	A2-061611-CHECKS_1	A1-061611-CHECKS_1	A1-061611-CHECKS_1	A1-061611-CHECKS_1	A2-061611-CHECKS_1		

ND= Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID: / Analytes:	VEW-4-5	VEW-4-15	VEW-5-5	VEW-5-15	VEW-6-5	Practical Quantitation Limit	Units
Benzene	ND	ND	ND	ND	ND	0.008	ug/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	ug/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	ug/L
Bromoform	ND	ND	ND	ND	ND	0.008	ug/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	ug/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
Chloroethane	ND	ND	ND	ND	ND	0.008	ug/L
Chloroform	ND	ND	ND	ND	ND	0.008	ug/L
Chloromethane	ND	ND	ND	ND	ND	0.008	ug/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	ug/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	ug/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	ug/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloroethene	ND	ND	ND	ND	**0.055**	0.008	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID: / Analytes:	VEW-4-5	VEW-4-15	VEW-5-5	VEW-5-15	VEW-6-5	Practical Quantitation Limit	Units
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Freon 113	ND	ND	ND	ND	ND	0.008	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	ug/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	ug/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	ug/L
Naphthalene	ND	ND	ND	ND	ND	0.008	ug/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Styrene	ND	ND	ND	ND	ND	0.008	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	ug/L
Tetrachloroethylene	**0.442**	**0.627**	**1.88**	**0.209**	**1.38**	0.008	ug/L
Toluene	ND	ND	ND	ND	ND	0.008	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,1,1-Trichloroethane	ND	ND	ND	ND	**0.094**	0.008	ug/L
1,1,2-Trichloroethane	ND	ND	**0.146**	ND	ND	0.008	ug/L
Trichloroethylene	ND	ND	**0.143**	ND	**0.334**	0.008	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VEW-4-5	VEW-4-15	VEW-5-5	VEW-5-15	VEW-6-5	Practical Quantitation Limit	Units
Analytes:							
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	ug/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	ug/L
Xylenes	ND	ND	ND	ND	ND	0.008	ug/L
MTBE	ND	ND	ND	ND	ND	0.008	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.008	ug/L
Di-isopropylether	ND	ND	ND	ND	ND	0.008	ug/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.008	ug/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.040	ug/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.008	ug/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	103%	97%	99%	94%	100%	75 - 125	
Toluene-d_8	102%	102%	105%	99%	101%	75 - 125	
4-Bromofluorobenzene	90%	88%	89%	93%	88%	75 - 125	
	A1-061611-CHECKS_1	A2-061611-CHECKS_1	A1-061611-CHECKS_1	A2-061611-CHECKS_1	A1-061611-CHECKS_1		

ND= Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID: / Analytes:	VEW-6-5-DUP	VEW-6-15	VEW-17	VEW-18	Practical Quantitation Limit	Units
Benzene	ND	ND	ND	ND	0.008	ug/L
Bromobenzene	ND	ND	ND	ND	0.008	ug/L
Bromodichloromethane	ND	ND	ND	ND	0.008	ug/L
Bromoform	ND	ND	ND	ND	0.008	ug/L
n-Butylbenzene	ND	ND	ND	ND	0.008	ug/L
sec-Butylbenzene	ND	ND	ND	ND	0.008	ug/L
tert-Butylbenzene	ND	ND	ND	ND	0.008	ug/L
Carbon tetrachloride	ND	ND	ND	ND	0.008	ug/L
Chlorobenzene	ND	ND	ND	ND	0.008	ug/L
Chloroethane	ND	ND	ND	ND	0.008	ug/L
Chloroform	ND	ND	ND	ND	0.008	ug/L
Chloromethane	ND	ND	ND	ND	0.008	ug/L
2-Chlorotoluene	ND	ND	ND	ND	0.008	ug/L
4-Chlorotoluene	ND	ND	ND	ND	0.008	ug/L
Dibromochloromethane	ND	ND	ND	ND	0.008	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	0.008	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.008	ug/L
Dibromomethane	ND	ND	ND	ND	0.008	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	0.008	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	0.008	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	0.008	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	0.008	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloroethene	**0.058**	ND	**0.104**	**0.056**	0.008	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID: / Analytes:	VEW-6-5-DUP	VEW-6-15	VEW-17	VEW-18	Practical Quantitation Limit	Units
cis-1,2-Dichloroethene	ND	ND	ND	ND	0.008	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.008	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	0.008	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	0.008	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	0.008	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.008	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.008	ug/L
Ethylbenzene	ND	ND	ND	ND	0.008	ug/L
Freon 113	ND	ND	ND	ND	0.008	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	0.008	ug/L
Isopropylbenzene	ND	ND	ND	ND	0.008	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	0.008	ug/L
Methylene chloride	ND	ND	ND	ND	0.008	ug/L
Naphthalene	ND	ND	ND	ND	0.008	ug/L
n-Propylbenzene	ND	ND	ND	ND	0.008	ug/L
Styrene	ND	ND	ND	ND	0.008	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	0.008	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.008	ug/L
Tetrachloroethylene	**1.22**	**0.020**	**1.89**	**1.49**	0.008	ug/L
Toluene	ND	ND	ND	ND	0.008	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	0.008	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.008	ug/L
1,1,1-Trichloroethane	**0.062**	ND	**0.144**	**0.093**	0.008	ug/L
1,1,2-Trichloroethane	ND	ND	**0.149**	**0.107**	0.008	ug/L
Trichloroethylene	**0.255**	ND	**0.424**	**0.325**	0.008	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID: / **Analytes:**	VEW-6-5-DUP	VEW-6-15	VEW-17	VEW-18	Practical Quantitation Limit	Units
Trichlorofluoromethane	ND	ND	ND	ND	0.008	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	0.008	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	0.008	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	0.008	ug/L
Vinyl chloride	ND	ND	ND	ND	0.008	ug/L
Xylenes	ND	ND	ND	ND	0.008	ug/L
MTBE	ND	ND	ND	ND	0.008	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	0.008	ug/L
Di-isopropylether	ND	ND	ND	ND	0.008	ug/L
tert-amylmethylether	ND	ND	ND	ND	0.008	ug/L
tert-Butylalcohol	ND	ND	ND	ND	0.040	ug/L
TIC:						
n-propanol	ND	ND	ND	ND	0.008	ug/L
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
Dibromofluoromethane	103%	100%	102%	105%	75 - 125	
Toluene-d_8	101%	103%	104%	101%	75 - 125	
4-Bromofluorobenzene	89%	91%	88%	87%	75 - 125	
	A1-061611-CHECKS_1	A1-061611-CHECKS_1	A1-061611-CHECKS_1	A1-061611-CHECKS_1		

ND= Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID: / Analytes:	METHOD BLANK	AMBIENT AIR	METHOD BLANK	AMBIENT AIR	Practical Quantitation Limit	Units
Benzene	ND	ND	ND	ND	0.008	ug/L
Bromobenzene	ND	ND	ND	ND	0.008	ug/L
Bromodichloromethane	ND	ND	ND	ND	0.008	ug/L
Bromoform	ND	ND	ND	ND	0.008	ug/L
n-Butylbenzene	ND	ND	ND	ND	0.008	ug/L
sec-Butylbenzene	ND	ND	ND	ND	0.008	ug/L
tert-Butylbenzene	ND	ND	ND	ND	0.008	ug/L
Carbon tetrachloride	ND	ND	ND	ND	0.008	ug/L
Chlorobenzene	ND	ND	ND	ND	0.008	ug/L
Chloroethane	ND	ND	ND	ND	0.008	ug/L
Chloroform	ND	ND	ND	ND	0.008	ug/L
Chloromethane	ND	ND	ND	ND	0.008	ug/L
2-Chlorotoluene	ND	ND	ND	ND	0.008	ug/L
4-Chlorotoluene	ND	ND	ND	ND	0.008	ug/L
Dibromochloromethane	ND	ND	ND	ND	0.008	ug/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	0.008	ug/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.008	ug/L
Dibromomethane	ND	ND	ND	ND	0.008	ug/L
1,2- Dichlorobenzene	ND	ND	ND	ND	0.008	ug/L
1,3-Dichlorobenzene	ND	ND	ND	ND	0.008	ug/L
1,4-Dichlorobenzene	ND	ND	ND	ND	0.008	ug/L
Dichlorodifluoromethane	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloroethane	ND	ND	ND	ND	0.008	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloroethene	ND	ND	ND	ND	0.008	ug/L

ND = Not Detected

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Testing Laboratories
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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID: / Analytes:	METHOD BLANK	AMBIENT AIR	METHOD BLANK	AMBIENT AIR	Practical Quantitation Limit	Units
cis-1,2-Dichloroethene	ND	ND	ND	ND	0.008	ug/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.008	ug/L
1,2-Dichloropropane	ND	ND	ND	ND	0.008	ug/L
1,3-Dichloropropane	ND	ND	ND	ND	0.008	ug/L
2,2-Dichloropropane	ND	ND	ND	ND	0.008	ug/L
1,1-Dichloropropene	ND	ND	ND	ND	0.008	ug/L
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.008	ug/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.008	ug/L
Ethylbenzene	ND	ND	ND	ND	0.008	ug/L
Freon 113	ND	ND	ND	ND	0.008	ug/L
Hexachlorobutadiene	ND	ND	ND	ND	0.008	ug/L
Isopropylbenzene	ND	ND	ND	ND	0.008	ug/L
4-Isopropyltoluene	ND	ND	ND	ND	0.008	ug/L
Methylene chloride	ND	ND	ND	ND	0.008	ug/L
Naphthalene	ND	ND	ND	ND	0.008	ug/L
n-Propylbenzene	ND	ND	ND	ND	0.008	ug/L
Styrene	ND	ND	ND	ND	0.008	ug/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	0.008	ug/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.008	ug/L
Tetrachloroethylene	ND	ND	ND	ND	0.008	ug/L
Toluene	ND	ND	ND	ND	0.008	ug/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	0.008	ug/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.008	ug/L
1,1,1-Trichloroethane	ND	ND	ND	ND	0.008	ug/L
1,1,2-Trichloroethane	ND	ND	ND	ND	0.008	ug/L
Trichloroethylene	ND	ND	ND	ND	0.008	ug/L

ND = Not Detected

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	AMBIENT AIR	METHOD BLANK	AMBIENT AIR	Practical Quantitation Limit	Units
Analytes:						
Trichlorofluoromethane	ND	ND	ND	ND	0.008	ug/L
1,2,3-Trichloropropane	ND	ND	ND	ND	0.008	ug/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	0.008	ug/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	0.008	ug/L
Vinyl chloride	ND	ND	ND	ND	0.008	ug/L
Xylenes	ND	ND	ND	ND	0.008	ug/L
MTBE	ND	ND	ND	ND	0.008	ug/L
Ethyl-tert-butylether	ND	ND	ND	ND	0.008	ug/L
Di-isopropylether	ND	ND	ND	ND	0.008	ug/L
tert-amylmethylether	ND	ND	ND	ND	0.008	ug/L
tert-Butylalcohol	ND	ND	ND	ND	0.040	ug/L
TIC:						
n-propanol	ND	ND	ND	ND	0.008	ug/L
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
Dibromofluoromethane	109%	103%	96%	99%	75 - 125	
Toluene-d_8	101%	107%	95%	94%	75 - 125	
4-Bromofluorobenzene	95%	105%	88%	90%	75 - 125	
	A1-061511-CHECKS_1	A1-061511-CHECKS_1	A2-061511-CHECKS_1	A2-061511-CHECKS_1		

ND= Not Detected

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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample Spiked: Ambient Air **GC#:** A1-061511-CHECKS_1

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	LCS	Acceptability Range (%)
1,1-Dichloroethylene	102%	103%	0.4%	70-130	83%	70-130
Benzene	99%	106%	7.1%	70-130	94%	70-130
Trichloroethylene	78%	81%	3.4%	70-130	82%	70-130
Toluene	86%	84%	2.8%	70-130	85%	70-130
Chlorobenzene	85%	86%	1.4%	70-130	86%	70-130
Surrogate Recovery:						
Dibromofluoromethane	106%	107%		75-125	105%	75-125
Toluene-d_8	98%	89%		75-125	98%	75-125
4-Bromofluorobenzene	89%	89%		75-125	91%	75-125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is $\leq$ 15%

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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	The Reynolds Group	**Report date:**	6/16/2011
Client Address:	P.O. Box 1996	**JEL Ref. No.:**	A-6924
	Tustin, CA 92681-1996	**Client Ref. No.:**	7115
Attn:	Alejandro Fuan	**Date Sampled:**	6/16/2011
		Date Received:	6/16/2011
Project:	Fullerton Universal	**Date Analyzed:**	6/16/2011
Project Address:	1551 E. Orangethorpe	**Physical State:**	Soil Gas
	Fullerton, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample Spiked: Ambient Air **GC#:** A2-061611-CHECKS_1

Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	LCS	Acceptability Range (%)
1,1-Dichloroethylene	123%	129%	5.2%	70-130	121%	70-130
Benzene	102%	101%	1.5%	70-130	110%	70-130
Trichloroethylene	98%	91%	7.5%	70-130	92%	70-130
Toluene	109%	107%	2.3%	70-130	121%	70-130
Chlorobenzene	102%	98%	3.6%	70-130	107%	70-130
Surrogate Recovery:						
Dibromofluoromethane	100%	96%		75-125	110%	75-125
Toluene-d_8	98%	98%		75-125	101%	75-125
4-Bromofluorobenzene	90%	86%		75-125	96%	75-125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

JONES
ENVIRONMENTAL
TESTING LABORATORIES

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Chain-of-Custody Record

Client: The Reynolds Group
Project Name: Fullerton University
Project Address: 1551 E. Chapman Ave, Fullerton, CA
Project Contact: Al Fuen

Date: 6/16/2011
Client Project #: 7115

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☒ 3P ☐ 7P
Tracer: A-pro
Purge Rate: 200 cc/min
5 L/min

JEL Project #: A-6924
Page: 1 of 2

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☒ no
Sealed ☒ yes ☐ no

Analysis Requested: EPA 8260B (VOCs)

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	EPA 8260B (VOCs)	Number of Containers	Remarks/Special Instructions
SV-36-SS	236	3 PV	6/16/11	0842	A-6924-01	SG	X	2	glass, gas-tight syringe
SV-37-SS	236	3 PV		0845	A-6924-02	SG	X	2	
SV-42-SS	236	3 P		0909	A-6924-03	SG	X	2	
SV-43-SS	236	3 P		0919	A-6924-04	SG	X	2	
SV-43-5	542	3 P		0937	A-6924-05	SG	X	2	
SV-43-15	676	3P		0958	A-6924-06	SG	X	2	
VEW-3-5	9267	3P		0929	A-6924-07	SG	X	2	
VEW-3-15	27801	3P		0949	A-6924-08	SG	X	2	
VEW-3-25	46335	3P		1012	A-6924-09	SG	X	2	
SV-43-SS-Dup	236	3P		1025	A-6924-10	SG	X	2	
								20	Total Number of Containers

❶ Relinquished by (signature)	Date 6.16.11	❷ Received by (signature)	Date 6/16/11	The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.
Company THE REYNOLDS GROUP	Time 13:20	Company JEL	Time 1320	
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date	
Company	Time	Company	Time	

JONES ENVIRONMENTAL
TESTING LABORATORIES

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Fax (714) 449-9685

Chain-of-Custody Record

Client: The Reynolds Group
Date: 6/16/2011
Project Name: Fullerton Universal
Client Project #: 7115
Project Address: 1551 E. Orangethorpe Ave. Fullerton, CA
Project Contact: Al Fuen

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

SOIL GAS
Purge Vol: ☐ 1P ☒ 3P ☐ 7P
Tracer: Argon
Purge Rate: 200 cc/min
+24 hr.

JEL Project #: A-6924
Page: 2 of 2
Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☒ no
Sealed ☒ yes ☐ no

Sample ID	Purge Volume	Discussion	Date	Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Analysis Requested: EPA 8260B (VOCs)	Number of Containers	Remarks/Special Instructions
VEW-4-5	9267	3P	6/16/11	1030	A-6924-11	SG	X	2	glass, gas-tight syringe
VEW-4-15	27804	3P		1049	A-6924-12	SG	X	2	
VEW-5-5	9267	3P		1054	A-6924-13	SG	X	2	
VEW-5-15	27804	3P		1119	A-6924-14	SG	X	2	
VEW-6-5	9267	3P		1121	A-6924-15	SG	X	2	
VEW-6-5-DUP	9267	3P		1122	A-6924-16	SG	X	2	
VEW-6-15	27804	3P		1140	A-6924-17	SG	X	2	
VEW-17	46335	3P		1204	A-6924-18	SG	X	2	
VEW-19	46335	3P		1232	A-6924-19	SG	X	2	

❶ Relinquished by (signature): Robert Baker	Date: 6/16/11	❷ Received by (signature): JE	Date: 6/16/11	18 Total Number of Containers
Company: THE REYNOLDS GROUP	Time: 13:20	Company:	Time: 1320	
❸ Relinquished by (signature):	Date:	❹ Received by Laboratory (signature):	Date:	
Company:	Time:	Company:	Time:	

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

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The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal	Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	Permit No.:	various locations permit F95132
TECHNICIAN	Name: RB	Date: 1-3-11	Weekday: MONDAY Time: 11:00 AM
ARRIVAL STATUS:	ON	OPERATING HOURS: 15287.0	Alarms: NONE

Carbon System

Blower	Amps: 19.27/20.51/18.62	A	Dilution Valve:	Manual: 0	%open	
Process Flow	390	scfm	Manifold Vacuum.:	59.4	"H2O	
Carbon Inlet Temperature	55.7	F	Source Flow:	4471	fpm	
VES Process Concentrations	Inlet: 0.7	ppm	Influent:	Outlet: 0.4	Midpoint: 0.7	ppm
Monitoring Device	FID MINI RAE 3000		Calibration (type/date)	HEXANE 50 1-3-11		

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	2.6	38.50	1873	56.6	N		2'-5'
VEW3-15'	O	25.6	37.73	WET	WET	N		12'-15'
VEW3-25'	C		7.12		54.6			22'-25'
VEW4-5'	C		0.07					2'-5'
VEW4-15'	C		1.94					12'-15'
VEW4-25'	C		~~0.07~~				191	22'-25'
VEW5-5'	O	0.1	49.71	53.54	57.1	N	2456 FPM	2'-5'
VEW5-15'	C		20.33					12'-15'
VEW5-25'	C		1.75					22'-25'
VEW5-60'	C		0.13					45'-60'
VEW6-5'	O	0.2	38.44	2796	55.2	N		2'-5'
VEW6-15'	C		3.51					12'-15'
VEW6-25'	C		3.37					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	0.3	38.46	3271	57.7	N		2'-5'
VEW18-5'	O	0.2	37.91	6676	56.4	N		2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	(Yes/No)
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	(Yes)/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: N	Midpoint:	Outlet: N	Inlet/Outlet use 8260 FULL SCAN	
STATUS DEPARTURE:	(ON)	OFF	Drums:	NA	

Notes: List all activities, observations, recommendations

VEW-3-15 HAS ~~[illegible]~~ A LOT OF WATER MORE THAN NORMAL. MAY BE DUE TO RAIN IN PAST WEEK. CHECK IN VAC. ON SV-37? = 0.06 SV-36 = 1.16

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION — Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal	**Unit:**	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	**Permit No.:**	various locations permit F95132
TECHNICIAN	**Name:** RB	**Date:** 1·10·11	**Weekday:** MONDAY **Time:** 11:00am
ARRIVAL STATUS:	ON	**OPERATING HOURS:** 15454.5	**Alarms:** NONE

Carbon System

Blower	Amps: 18.84 / 20.26 / 18.35 A	**Dilution Valve:**		Manual: 0	%open
Process Flow	3933 / 343.3 scfm	**Manifold Vacuum.:**		57.9	"H₂O
Carbon Inlet Temperature	68.8 F	**Source Flow:**		3,933	fpm
VES Process Concentrations	Inlet: 0.6 ppm	**Influent:**	Outlet: 0.2	Midpoint:	ppm
Monitoring Device	FID MINI RAE 3000	Calibration (type/date)	HEXANE 50 / 1·10·11		

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	4.7	46.50	1828	58.6	Y		2'-5'
VEW3-15'	O	42.6	45.87	WET	WET	Y		12'-15'
VEW3-25'	C		6.70					22'-25'
VEW4-5'	C		[redacted] 1.59					2'-5'
VEW4-15'	C		0.05					12'-15'
VEW4-25'	C		0.07					22'-25'
VEW5-5'	O	0.0	48.04	1840	60.0	Y		2'-5'
VEW5-15'	C		19.55					12'-15'
VEW5-25'	C		1.60					22'-25'
VEW5-60'	C		0.00					45'-60'
VEW6-5'	O	0.1	36.66	2,786	57.0	Y		2'-5'
VEW6-15'	C		3.33					12'-15'
VEW6-25'	C		2.26					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	0.2	36.41	3187	59.5	Y		2'-5'
VEW18-5'	O	[redacted] 0.2	36.06	5886	58.4	Y		2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: YES	Midpoint:	Outlet: YES		**Inlet/Outlet use 8260 FULL SCAN**
STATUS DEPARTURE:	ON	OFF	**Drums:**	NA	

Notes: List all activities, observations, recommendations

COPY

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION — Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal			**Unit:**	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA			**Permit No.:**	various locations permit F95132
TECHNICIAN	**Name:** RB	**Date:**	1-19-11	**Weekday:**	WED **Time:** 10:00AM
ARRIVAL STATUS:	ON	**OPERATING HOURS:**	15669.6	**Alarms:**	NONE

Carbon System

Blower	Amps: 18.39/19.89/18.08	A	**Dilution Valve:**	Manual: 0	%open
Process Flow	4664/407	scfm	**Manifold Vacuum:**	57.2	"H2O
Carbon Inlet Temperature	63.6	F	**Source Flow:**	4664	fpm
VES Process Concentrations	Inlet: 3.5	ppm	**Influent:**	Outlet: 1.9 Midpoint: 1.7	ppm
Monitoring Device	FID MINI RAE 3000		Calibration (type/date)	HEXANE STD 1-19-11	

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O					N		2'-5'
VEW3-15'	O							12'-15'
VEW3-25'	C							22'-25'
VEW4-5'	C							2'-5'
VEW4-15'	C							12'-15'
VEW4-25'	C							22'-25'
VEW5-5'	O							2'-5'
VEW5-15'	C							12'-15'
VEW5-25'	C							22'-25'
VEW5-60'	C							45'-60'
VEW6-5'	O							2'-5'
VEW6-15'	C							12'-15'
VEW6-25'	C							22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O							2'-5'
VEW18-5'	O							2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: N	**Midpoint:**	Outlet: N		**Inlet/Outlet use TO15 FULL SCAN**
STATUS DEPARTURE:	ON	OFF	**Drums:**	NA	

Notes: List all activities, observations, recommendations

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The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	7115 Universal			Blower 1500 horse power positive displacement; 500 cfm blower capacity	
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA			Unit: two 1000 lb carbon vessels	
TECHNICIAN	Name: KB	Date: 1-24-11		Permit No.: various locations permit F95132	
ARRIVAL STATUS:	ON	OPERATING HOURS:	15789.8	Weekday: MONDAY	Time: 10:21 AM
				Alarms: NONE	

Carbon System

Blower	Amps: 18.38/19.78/17.93 A	Dilution Valve:		Manual: 0	%open
Process Flow	3955/345 scfm	Manifold Vacuum.:		54.9	"H2O
Carbon Inlet Temperature	62.7 F	Source Flow:		395.5	fpm
VES Process Concentrations	Inlet: 4.8 ppm	Influent:	Outlet: 4.8	Midpoint: 5.2	ppm
Monitoring Device	FID MINI RAE 3000	Calibration (type/date) HEXANE 50 ; 1-24-11			

VAPOR EXTRACTION WELLS

46.94 1905

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Extraction Well Data: Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	13.1	~~93~~	~~WET~~	~~60.9~~	N		2'-5'
VEW3-15'	O	134.7	47.11	WET	WET	N		12'-15'
VEW3-25'	C		4.66					22'-25'
VEW4-5'	C		0.00					2'-5'
VEW4-15'	C		0.88					12'-15'
VEW4-25'	C		1.38					22'-25'
VEW5-5'	O	1.6	45.93	2967	62.4	N		2'-5'
VEW5-15'	C		18.01					12'-15'
VEW5-25'	C		1.45					22'-25'
VEW5-60'	C		0.17					45'-60'
VEW6-5'	O	1.0	33.79	2565	59.7			2'-5'
VEW6-15'	C		2.76					12'-15'
VEW6-25'	C		2.94					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	3.6	33.54	2636	61.5			2'-5'
VEW18-5'	O	1.3	33.20	5762	59.8			2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: N	Midpoint:	Outlet: N		Inlet/Outlet was 8260 FULL SCAN
STATUS DEPARTURE:	ON	OFF	Dryers:	NA	

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION — Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal	**Unit:**	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	**Permit No.:**	various locations permit F95132
TECHNICIAN	**Name:** KB	**Date:** 1-28-11	**Weekday:** FRIDAY **Time:** 1:43
ARRIVAL STATUS:	ON	**OPERATING HOURS:** 13807.1	**Alarms:** NONE

Carbon System

Blower	Amps: 18.25/19.20/19.16 A	**Dilution Valve:**		Manual: 0	%open
Process Flow	351.2 scfm	**Manifold Vacuum.:**		47.3	"H2O
Carbon Inlet Temperature	69.7 F	**Source Flow:**		351.2	fpm
VES Process Concentrations	Inlet: 7.1 ppm	**Influent:**	Outlet: 4.6	Midpoint: 5.1	ppm
Monitoring Device	FID MINI RAE 3000	Calibration (type/date)	HEXANE 50 1-24-11		

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	10.1	45.76	1897	62.3	N		2'-5'
VEW3-15'	O	153.2	47.1	WET	WET			12'-15'
VEW3-25'	C		5.46					22'-25'
VEW4-5'	C		0.00					2'-5'
VEW4-15'	C		0.91					12'-15'
VEW4-25'	C		1.60					22'-25'
VEW5-5'	O	0.2	45.83	2,564	62.5			2'-5'
VEW5-15'	C		18.02	55				12'-15'
VEW5-25'	C		1.70					22'-25'
VEW5-60'	C		0.13					45'-60'
VEW6-5'	O	0.4	36.46	2,632	60.1			2'-5'
VEW6-15'	C		3.51	54				12'-15'
VEW6-25'	C		3.15					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	2.3	36.18	3791	60.7			2'-5'
VEW18-5'	O	1.4	35.54	71	61.2			2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: N	Midpoint:	Outlet: N		Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	ON	OFF	**Drums:**	NA	

Notes: List all activities, observations, recommendations WAS INSTRUCTED TO SHUT SYSTEM OFF

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION — Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal			Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA			Permit No.:	various locations permit F95132
TECHNICIAN	Name: RB		Date: 2-23-11	Weekday:	NEOS Time: 11:45 AM
ARRIVAL STATUS:	ON	OPERATING HOURS:	16005.7	Alarms:	NONE

Carbon System

Blower	Amps: 18.87 / 20.33 / 18.57 A	Dilution Valve:		Manual: 0	%open
Process Flow	5621 scfm	Manifold Vacuum.:		30.6	"H-O
Carbon Inlet Temperature	59.9 F	Source Flow:		5821	fpm
VES Process Concentrations	Inlet: 1.7 ppm	Influent:	Outlet: 0.7	Midpoint: 2.4	ppm
Monitoring Device	FID MINI RAE 3000	Calibration (type/date)	HEXANE 50 2-23-11		

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O					N		2'-5'
VEW3-15'	O							12'-15'
VEW3-25'	C							22'-25'
VEW4-5'	C							2'-5'
VEW4-15'	C							12'-15'
VEW4-25'	C							22'-25'
VEW5-5'	O							2'-5'
VEW5-15'	C							12'-15'
VEW5-25'	C							22'-25'
VEW5-60'	C							45'-60'
VEW6-5'	O							2'-5'
VEW6-15'								12'-15'
VEW6-25'								22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'		N/A						12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'								2'-5'
VEW18-5'								2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: N	Midpoint:	Outlet: N		Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	ON	OFF	Drums:	NA	

Notes: List all activities, observations, recommendations JESSE WAS OUT OF TOWN GET READINGS NEXT WEEK

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Vapor Extraction/HVES Monitoring Log

SITE INFORMATION — Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal			Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA			Permit No.:	various locations permit P95132
TECHNICIAN	Name: RB	Date:	3-2-11	Weekday:	WEDS Time: 10:50 AM
ARRIVAL STATUS:	ON	OPERATING HOURS:	16173.0	Alarms:	NONE

Carbon System

Blower	Amps: 18.69/20.10/18.34	A	Dilution Valve:	Manual:	0 %open
Process Flow	5160	scfm	Manifold Vacuum.:		49.90 "H-O
Carbon Inlet Temperature	62.0	F	Source Flow:		5160 fpm
VES Process Concentrations	Inlet: 2.5	ppm	Influent:	Outlet: 1.0	Midpoint: 2.4 ppm
Monitoring Device	PID MINI RAE 3000		Calibration (type/date)	HEXANE SD 2-2-11	

VAPOR EXTRACTION WELLS

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Extraction Well Data: Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	9.2	48.23	3014	60.0	N		2'-5'
VEW3-15'	O	131.2	48.24	WET	WET	N		12'-15'
VEW3-25'	C		3.17					22'-25'
VEW4-5'	C		0.00					2'-5'
VEW4-15'	C		1.31					12'-15'
VEW4-25'	C		1.37					22'-25'
VEW5-5'	O	0.3	48.13	2286	60.9	N		2'-5'
VEW5-15'	C		19.46					12'-15'
VEW5-25'	C		1.46					22'-25'
VEW5-60'	C		0.53					45'-60'
VEW6-5'	O	0.4	35.99	3402	58.6	N		2'-5'
VEW6-15'								12'-15'
VEW6-25'								22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	2.3	35.79	3883	60.7	N		2'-5'
VEW18-5'	O	0.3	35.53	7564	58.9	N		2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	(Yes)/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a *"Monthly"* note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: N	Midpoint:	Outlet: N		Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	(ON)	OFF	Drums:	NA	

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal	Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	Permit No.:	various locations permit F95132
TECHNICIAN	Name: RB	Date: 3-7-11	Weekday: MON / Time: 8:20 am
ARRIVAL STATUS:	ON	OPERATING HOURS: 16290.7	Alarms: NONE

Carbon System

Blower	Amps: 18.41 / 20.02 / 18.10	A	Dilution Valve:	Manual: 0	%open
Process Flow	5022 /	scfm	Manifold Vacuum.:	49.50	"H-O
Carbon Inlet Temperature	62.4	F	Source Flow:	5022	fpm
VES Process Concentrations	Inlet: 1.7	ppm	Influent:	Outlet: 0.2 Midpoint: 0.5	ppm
Monitoring Device	FID MINI RAE 3000		Calibration (type/date)	HEXANE 50 / 3-7-11	

VAPOR EXTRACTION WELLS

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Extraction Well Data Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	10.6	48.23	2680/00	62.2	Y		2'-5'
VEW3-15'	O	293.4	48.24	WET	WET	Y		12'-15'
VEW3-25'	C		2.66					22'-25'
VEW4-5'	C		0.00					2'-5'
VEW4-15'	C		1.64					12'-15'
VEW4-25'	C		1.61					22'-25'
VEW5-5'	O	0.2	47.69	1782/00	62.4	Y		2'-5'
VEW5-15'	C		19.52					12'-15'
VEW5-25'	C		1.64					22'-25'
VEW5-60'	C		0.28					45'-60'
VEW6-5'	O	0.1	36.31	2947/00	61.1	Y		2'-5'
VEW6-15'			1.82					12'-15'
VEW6-25'			2.66					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	2.3	36.16	3545/00	62.0	Y		2'-5'
VEW18-5'	O	0.2	35.67	7216/00	60.7	Y		2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
* SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: YES	Midpoint:	Outlet: YES		Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	ON	OFF	Drums:	NA	

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION — Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal	Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	Permit No.:	various locations permit F95132
TECHNICIAN	Name: RB	Date: 3-14-11	Weekday: MON / Time: 11:30
ARRIVAL STATUS:	ON	OPERATING HOURS: 16460.8	Alarms: NONE

Carbon System

Blower	Amps: 18.20 / 20.04 / 18.23	A	Dilution Valve:	Manual: 0	%open
Process Flow	4250 / 371	scfm	Manifold Vacuum:	49.12	"H2O
Carbon Inlet Temperature	67.0	F	Source Flow:	4250	fpm
VES Process Concentrations	Inlet: 2.8	ppm	Influent:	Outlet: 1.2 / Midpoint: 2.4	ppm
Monitoring Device	FID MINI RAE 3000		Calibration (type/date)	HEXANE 50 ; 3-14-11	

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	10.4	48.21	2602 / 50	62.7	MN		2'-5'
VEW3-15'	O	187.1	48.23	WET / 50	WET			12'-15'
VEW3-25'	C		2.74					22'-25'
VEW4-5'	C		0.00					2'-5'
VEW4-15'	C		1.61					12'-15'
VEW4-25'	C		1.61					22'-25'
VEW5-5'	O	0.2	49.82	18.1 / 50	62.4			2'-5'
VEW5-15'	C		19.50					12'-15'
VEW5-25'	C		1.63					22'-25'
VEW5-60'	C		0.47					45'-60'
VEW6-5'	O	0.4	36.27	3102 / 50	62.1			2'-5'
VEW6-15'			1.73					12'-15'
VEW6-25'			2.53					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	2.3	35.67	3267 / 50	62.3	✓		2'-5'
VEW18-5'	O	0.3	35.45	1305 / 50	60.1			2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
* SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: Y / N	Midpoint:	Outlet: Y / N		Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	ON / OFF		Drums:	NA	

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION — Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal	Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	Permit No.:	various locations permit F95132
TECHNICIAN	Name: RB	Date: 3-21-11	Weekday: MON Time: 10:00
ARRIVAL STATUS:	ON	OPERATING HOURS: 16627.1	Alarms: NONE

Carbon System

Blower	Amps: 19.81/19.96/18.03 A	Dilution Valve:	Manual: 0 %open
Process Flow	4884 / 4726 scfm	Manifold Vacuum.:	49.02 "H2O
Carbon Inlet Temperature	60.4 F	Source Flow:	4884 fpm
VES Process Concentrations	Inlet: 1.8 ppm	Influent:	Outlet: 0.5 Midpoint: 1.63 ppm
Monitoring Device	FID MINI RAE 3000	Calibration (type/date)	HEXANE 50 3-21-11

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	9.1	47.55		60.4			2'-5'
VEW3-15'	O	186.2	47.70	WET	" "			12'-15'
VEW3-25'	C		4.86					22'-25'
VEW4-5'	C		0.00					2'-5'
VEW4-15'	C		1.65					12'-15'
VEW4-25'	C		1.63					22'-25'
VEW5-5'	O	0.4	47.30	1657	60.9			2'-5'
VEW5-15'	C		19.32					12'-15'
VEW5-25'	C		1.61					22'-25'
VEW5-60'	C		1.10					45'-60'
VEW6-5'	O	0.4	35.31	2907	59.8			2'-5'
VEW6-15'			3.12					12'-15'
VEW6-25'			3.18					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	2.4	35.06	3779/82	61.9			2'-5'
VEW18-5'	O	0.2	34.72	1098/154	60.9			2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
* SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet:	Midpoint:	Outlet:	Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	ON	OFF	Drums: NA	

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION — Blower 1500 horse power positive displacement, 500 cfm blower capacity

CLIENT/SITE	7115 Universal	Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	Permit No.:	various locations permit F95132
TECHNICIAN	Name: RB	Date: 4-1-11	Weekday: FRI Time: 7:10
ARRIVAL STATUS:	ON	OPERATING HOURS: 168885	Alarms: NONE

Carbon System

Blower	Amps 18.41/20.05/18.16 A	Dilution Valve:		Manual: 0	%open
Process Flow	3862/189 scfm	Manifold Vacuum:		49.71	"H2O
Carbon Inlet Temperature	64.5 F	Source Flow:		3862	fpm
VES Process Concentrations	Inlet: 2.0 ppm	Influent:	Outlet: 0.1	Midpoint: 0.8	ppm
Monitoring Device	FID MINI RAE 300	Calibration (type/date)	HEXANE 50 / 3-28-11		

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	10.9	47.67	256/55	62.6	N		2'-5'
VEW3-15'	O	187.5	47.70	WET	WET			12'-15'
VEW3-25'	C		3.44					22'-25'
VEW4-5'	C		0.00					2'-5'
VEW4-15'	C		1.62					12'-15'
VEW4-25'	C	1.63	~~[illegible]~~					22'-25'
VEW5-5'	O	0.2	47.62	1667/36	63.4			2'-5'
VEW5-15'	C		19.41					12'-15'
VEW5-25'	C		0.68					22'-25'
VEW5-60'	C	0.56	~~[illegible]~~					45'-60'
VEW6-5'	O	0.4	36.27	2916/63	64.2			2'-5'
VEW6-15'			2.17					12'-15'
VEW6-25'			2.82					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	2.3	35.66	3264/82	63.2			2'-5'
VEW18-5'	O	0.2	36.46	7102/154	62.1			2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y/N	Inlet: N	Midpoint:	Outlet: N		Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	ON	OFF	Drums:	NA	

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION — Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal	Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	Permit No.:	various locations permit F95132
TECHNICIAN	Name: RB	Date: 4-4-11	Weekday: MON Time: 9:20A
ARRIVAL STATUS:	ON	OPERATING HOURS: 16962.8	Alarms: NONE

Carbon System

Blower	Amps: 18.67/19.76/18.19 A	Dilution Valve:	Manual 0 %open
Process Flow	4349/379 scfm	Manifold Vacuum:	49.28 "H2O
Carbon Inlet Temperature	66.1 F	Source Flow:	4349 fpm
VES Process Concentrations	Inlet: 2.2 ppm	Influent:	Outlet: 0.0 Midpoint: 1.4 ppm
Monitoring Device	FID MINI RAE 3000	Calibration (type/date)	HEXANESO 4-4-11

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	12.8	44.63	1807/39	65.4	Y		2'-5'
VEW3-15'	O	156.4	44.70	WET	WET	Y		12'-15'
VEW3-25'	C		2.98					22'-25'
VEW4-5'	C		0.00					2'-5'
VEW4-15'	C		1.49					12'-15'
VEW4-25'	C		1.82					22'-25'
VEW5-5'	O	0.1	44.60	1874/40	69.2	Y		2'-5'
VEW5-15'	C		17.47					12'-15'
VEW5-25'	C		1.41					22'-25'
VEW5-60'	C		0.47					45'-60'
VEW6-5'	O	0.2	33.44	3131/68	65.2	Y		2'-5'
VEW6-15'	C		1.49					12'-15'
VEW6-25'	C		3.03					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	2.2	33.29	3606/18	65.6	Y		2'-5'
VEW18-5'	O	0.1	32.79	7300/159	63.6	Y		2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: Y	Midpoint:	Outlet: Y	Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	ON	OFF	Drums: NA	

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION — Blower 1500 horse power positive displacement, 500 cfm blower capacity

CLIENT/SITE	7115 Universal	Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	Permit No.:	various locations permit F95132
TECHNICIAN	Name: RB	Date: 4.11.11	Weekday: MONDAY Time: 12:00
ARRIVAL STATUS:	OFF	OPERATING HOURS: 16983.0	Alarms: YES. MAJOR STARTER

Carbon System

Blower	Amps: 16.16/17.26/15.72 A	Dilution Valve:		Manual: 80 %open	
Process Flow	4325/ 377 scfm	Manifold Vacuum:		38.23 "H-O	
Carbon Inlet Temperature	71.4 F	Source Flow:	4326 fpm		
VES Process Concentrations	Inlet: 3.4 ppm	Effluent:	Outlet: 2.6	Midpoint: 2.0 ppm	
Monitoring Device	FID MINI RAE 3000	Calibration (type/date)	HEXANE 50; 4.11.11		

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppm)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW1-5'	O					N		2'-5'
VEW1-15'	O							12'-15'
VEW1-25'	C							22'-25'
VEW4-5'	C							2'-5'
VEW4-15'	C							12'-15'
VEW4-25'	C							22'-25'
VEW5-5'	O							2'-5'
VEW5-15'	O	C						12'-15'
VEW5-25'		C						22'-25'
VEW5-60'		C						45'-60'
VEW6-5'	O							2'-5'
VEW6-15'								12'-15'
VEW6-25'								22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'								2'-5'
VEW18-5'								2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: N	Midpoint:	Outlet: N	Inlet/Outlet use 8260 FULL SCAN	
STATUS DEPARTURE:	ON	OFF	Drums:	NA	

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal			Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA			Permit No.:	various locations permit F95132
TECHNICIAN	Name: RB	Date:	4-20-11	Weekday:	WED Time: 4:30p
ARRIVAL STATUS:	OFF	OPERATING HOURS:	16983.6	Alarms:	NONE

Carbon System

Blower	Amps: 16.23/17.19/15.92 A	Dilution Valve:		Manual: 0	%open
Process Flow	4239 / 370 scfm	Manifold Vacuum.:		48.72	"H-O
Carbon Inlet Temperature	71.1 F	Source Flow:		4239	fpm
VES Process Concentrations	Inlet: 3.2 ppm	Influent:	Outlet: 0.3	Midpoint: 1.3	ppm
Monitoring Device	FID MINI RAE 3000	Calibration (type/date)	HEXANE 50/ 4-20-11		

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	14.3	43.63	1816/31.5	69.8	N		2'-5'
VEW3-15'	O	180.4	44.67	WET	WET	N		12'-15'
VEW3-25'	C		2.96					22'-25'
VEW4-5'	C		0.09					2'-5'
VEW4-15'	C		1.47					12'-15'
VEW4-25'	C		1.53					22'-25'
VEW5-5'	O	0.2	44.61	1796/39.1	69.9	N		2'-5'
VEW5-15'	C		18.64					12'-15'
VEW5-25'	C		1.38					22'-25'
VEW5-60'	C		0.51					45'-60'
VEW6-5'	O	0.2	32.56	3091/61.3	70.1	N		2'-5'
VEW6-15'	C		1.48					12'-15'
VEW6-25'	C		3.13					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	S	2.2	33.64	3616/18.9	69.3	N		2'-5'
VEW18-5'		0.2	32.81	7246/57.1	68.6	N		2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: N	Midpoint:	Outlet: N		Inlet/Outlet use TO60 FULL SCAN
STATUS DEPARTURE:	(ON)	OFF	Drums:	NA	

Notes: List all activities, observations, recommendations

MAJOR STARTER WENT OUT ON 4.11.11 HAD TO LOCATE & INSTALL NEW ONE TURNED SYSTEM ON & OBSERVED FOR 1 hr

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION — Blower 1500 horse power positive displacement, 500 cfm blower capacity

CLIENT/SITE	7115 Universal	Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	Permit No.:	various locations permit F95132
TECHNICIAN	Name: RB	Date: 4-25-11	Weekday: MONDAY Time: 11:30
ARRIVAL STATUS:	OFF	OPERATING HOURS: 16984.3	Alarms: 1 LOW BLOWER VAC

Carbon System

Blower	Amps: 16.08/17.14/15.51 A	Dilution Valve:	Manual: 0 %open
Process Flow	3298 scfm	Manifold Vacuum:	43.28 "H-O
Carbon Inlet Temperature	72.8 F	Source Flow:	3298 fpm
VES Process Concentrations	Inlet: 2.0 ppm	Influent:	Outlet: 0.0 Midpoint: 0.5 ppm
Monitoring Device	FID MINI RAE 3000	Calibration (type/date)	HEXANE 50, 4-25-11

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW1-5'	O	10.9	46.88	3404	69.2	N		2'-5'
VEW1-15'	O	186.5	47.09	WET	WET			12'-15'
VEW3-25'	C		4.29					22'-25'
VEW4-5'	C		0.00					2'-5'
VEW4-15'	C		1.46					12'-15'
VEW4-25'	C		1.46					22'-25'
VEW5-5'	O	0.2	46.64	3182	71.0			2'-5'
VEW5-15'	C		19.08					12'-15'
VEW5-25'	C		1.55					22'-25'
VEW5-60'	C		0.00					45'-60'
VEW6-5'	O	0.2	35.77					2'-5'
VEW6-15'	C		2.92					12'-15'
VEW6-25'	C		2.95					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	2.3	35.65	2970	69.7			2'-5'
VEW18-5'	O	0.2	35.22	8301	69.8			2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: N	Midpoint:	Outlet: N	Inlet/Outlet use Rich FULL SCAN
STATUS DEPARTURE:	ON	OFF	Drums: NA	

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

7115 Universal		two 1000 lb carbon vessels	
1551 E Orangethorpe Ave., Fullerton CA		various locations permit F95132	
RB	5-4-11	WED	8:00A
ON	OPERATING HOURS: 17196.8	NONE	

Amps: 16.88/17.01/16.65 A		Manual: 0 %open	
3222/2.81 scfm		43.75 "H2O	
70.5 F	Source	3222/ fpm	
Inlet: 2.0 ppm		Outlet: 0.0	Midpoint: 0.4 ppm
FID MINI RAE 3000		Calibration (type/date) HEXANE 50 / 5-2-11	

0	10.7	45.65	3265/11	69.7	N		
0	182.1	46.23	WET	WET			
C		4.28					
C		0.00					
C		1.44					
C		1.46					
0	0.2	46.20	2801/[illegible]	68.9			
C		18.71					
C		1.45					
C		0.00					
0	0.2	35.27	2281/[illegible]	69.3			
C		2.93					
C		2.94					
0	2.2	34.72	2897/[illegible]	69.2			
0	0.2	35.65	8281/[illegible]	69.3			

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

Yes/No

Yes/No

Inlet:		Outlet:	
ON	OFF	NA	

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

	7115 Universal		two 1000 lb carbon vessels
	1551 E Orangethorpe Ave., Fullerton CA		various locations permit F95132
	RB	5-9-11	NON / B'CO
	OFF	OPERATING HOURS: [illegible]	1 TRIPPED OVERLOAD
	Amps: 16.75 / 18.06 / 16.24 A		Manual: 5 %open
	2432 / 252.3 scfm		48.15 "H$_2$O
	68 F		2432 fpm
	Inlet: 3.0 ppm		Outlet: 1.2 Midpoint: 1.0 ppm
	FID MINI RAE 3000		Calibration (type/date) HEXANE 500 5-9-11

8	8.3	46.75	3902/85	68.8	Y	
8	310.1	46.82	WET	WET	Y	
0	2.4	37.52	3380/43.6	68.3	Y	
0	1.0	37.14	778/169.1	67.2	Y	

Yes/No (circled: Yes)

Yes/No (circled: Yes)

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

Inlet: Y

Outlet: Y

ON (circled) OFF

Drums: NA

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal	Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	Permit No.:	various locations permit F95132
TECHNICIAN	Name: RB	Date: 5-17-11	Weekday: TUES Time: 9:40
ARRIVAL STATUS:	OFF	OPERATING HOURS: 17255.8	Alarms: 1 LOW BLOWER VAC

Carbon System

Blower	Amps: 18.05/20.25/19.10 A	Dilution Valve:	Manual: 5 %open
Process Flow	2381/2077.8 scfm	Manifold Vacuum:	49.89 "H2O
Carbon Inlet Temperature	63.1 F	Source Flow:	2381 fpm
VES Process Concentrations	Inlet: 3.7 ppm	Influent:	Outlet: 0.1 Midpoint: 1.2 ppm
Monitoring Device	FID MINI RAE 3000	Calibration (type/date)	HEXANE 501-5-16-11

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	O	9.1	47.17	3694/80.5	62.1	N		2'-5'
VEW3-15'	O	311.2	47.28	WET	WET			12'-15'
VEW3-25'	C		3.72					22'-25'
VEW4-5'	C		0.00					2'-5'
VEW4-15'	C		1.10					12'-15'
VEW4-25'	C		0.00					22'-25'
VEW5-5'	C		0.08					2'-5'
VEW5-15'	C		0.32					12'-15'
VEW5-25'	C		0.83					22'-25'
VEW5-60'	C		0.85					45'-60'
VEW6-5'	C		0.36					2'-5'
VEW6-15'	C		2.41					12'-15'
VEW6-25'	C		2.46					22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'	O	2.3	36.26	3200/69.1	63.1			2'-5'
VEW18-5'	O	1.0	36.18	7900/77.2	63.2			2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet: N	Midpoint:	Outlet: N	Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	ON	OFF	Drums: NA	

Notes: List all activities, observations, recommendations

APPENDIX E:
References

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

CLIENT/SITE	7115 Universal			Blower 1500 horse power positive displacement, 500 cfm blower capacity	
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA			Units: two 1000 lb carbon vessels	
TECHNICIAN	Name: RB	Date: 5.24.11		Permit No.: various locations permit P95132	
ARRIVAL STATUS:	OFF	OPERATING HOURS: 17282.7		Weekday: TUES	Time: 9:45
				Alarms: I TRIPPED OVERLOAD	

Carbon System

Blower	Amps: 18.5 / 19.02 / 17.85	A	Dilution Valve:	Manual: 10	%open
Process Flow	3190/278	scfm	Manifold Vacuum.:	48.07	"H2O
Carbon Inlet Temperature	74.1	F	Source Flow:	3190	fpm
VES Process Concentrations	Inlet: 3.6	ppm	Influent:	Outlet: 1.2 Midpoint: 2.4	ppm
Monitoring Device	FID MINI RAE 3000		Calibration (type/date)	HEXANE 5.24.11	

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N	Well Screen (ft)
VEW3-5'	O	8.4	46.16	3561/1670	70.2	N	2'-5'
VEW3-15'	O	294.1	46.29	WET	WET		12'-15'
VEW3-25'	C		3.28				22'-25'
VEW4-5'	C		0.00				2'-5'
VEW4-15'	C		1.43				12'-15'
VEW4-25'	C		1.26				22'-25'
VEW5-5'	C		0.10				2'-5'
VEW5-15'	C		0.29				12'-15'
VEW5-25'	C		0.83				22'-25'
VEW5-60'	C		0.82				45'-60'
VEW6-5'	C		0.35				2'-5'
VEW6-15'	C		2.90				12'-15'
VEW6-25'	C		2.85				22'-25'
VEW7-5'							2'-5'
VEW7-15'							12'-15'
VEW8-5'							2'-5'
VEW8-15'							12'-15'
VEW9-5'							2'-5'
VEW9-15'							12'-15'
VEW9-25'							22'-25'
VEW10-5'							2'-5'
VEW10-15'							12'-15'
VEW11-5'							2'-5'
VEW11-15'							12'-15'
VEW11-25'							22'-25'
VEW12-5'							2'-5'
VEW12-15'							12'-15'
VEW12-25'							22'-25'
VEW12-60'							45'-60'
VEW13-5'							2'-5'
VEW13-15'							12'-15'
VEW13-25'							22'-25'
VEW14-5'							2'-5'
VEW14-15'							12'-15'
VEW15-5'							2'-5'
VEW15-15'							12'-15'
VEW16-5'							2'-5'
VEW17-5'	O	2.3	37.16	3212/700	69.2		2'-5'
VEW18-5'	O	1.0	37.12	2615/1638	69.3		2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet:	Midpoint:	Outlet: N		Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	ON	OFF	Drums:	NA	

Notes: List all activities, observations, recommendations

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal	**Unit:**	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA	**Permit No.:**	various locations permit F95132
TECHNICIAN	**Name:** DB **Date:** 6-4-11	**Weekday:**	SAT **Time:** 8:00A
ARRIVAL STATUS:	OFF **OPERATING HOURS:** 17283.4	**Alarms:**	LOW BLOWER VAC

Carbon System

Blower	Amps: 19.5/10.42/11.6 A	**Dilution Valve:**		Manual: 5	%open
Process Flow	2701/235.7 scfm	**Manifold Vacuum.:**		80.60	"H2O
Carbon Inlet Temperature	76.6 F	**Source Flow:**		2701	fpm
VES Process Concentrations	Inlet: 3.7 ppm	**Influent:**	Outlet: 1.0	Midpoint: 2.4	ppm
Monitoring Device	FID MINI RAE 3000	Calibration (type/date)	HEXANE 50		

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'								2'-5'
VEW3-15'								12'-15'
VEW3-25'								22'-25'
VEW4-5'								2'-5'
VEW4-15'								12'-15'
VEW4-25'								22'-25'
VEW5-5'								2'-5'
VEW5-15'								12'-15'
VEW5-25'								22'-25'
VEW5-60'								45'-60'
VEW6-5'								2'-5'
VEW6-15'								12'-15'
VEW6-25'								22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'								2'-5'
VEW18-5'								2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	(Yes)/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	(Yes)/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet:	Midpoint:	Outlet:	Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	ON		**Drums:** NA	

Notes: List all activities, observations, recommendations

NOTICE BLOWER LEAKING AROUND CASING THINK SEALS WENT BAD SO IN TURN A RESULT MAY BE LOW BLOWER VAC.

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION

Blower 1500 horse power positive displacement; 500 cfm blower capacity

CLIENT/SITE	7115 Universal			Unit:	two 1000 lb carbon vessels
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA			Permit No.:	various locations permit F95132
TECHNICIAN	Name: RG	Date:	6.9.11	Weekday:	THURS
ARRIVAL STATUS:	OFF	OPERATING HOURS:	17285.9	Alarms:	Time: 3:00P LOW VAC

Carbon System

Blower	Amps:	A	Dilution Valve:		Manual:		%open
Process Flow		scfm	Manifold Vacuum.:				"H2O
Carbon Inlet Temperature		F	Source Flow:				fpm
VES Process Concentrations	Inlet:	ppm	Influent:	Outlet:	Midpoint:		ppm
Monitoring Device	FID		Calibration (type/date)				

N/A

VAPOR EXTRACTION WELLS

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Extraction Well Data Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'	N/A							2'-5'
VEW3-15'								12'-15'
VEW3-25'								22'-25'
VEW4-5'								2'-5'
VEW4-15'								12'-15'
VEW4-25'								22'-25'
VEW5-5'								2'-5'
VEW5-15'								12'-15'
VEW5-25'								22'-25'
VEW5-60'								45'-60'
VEW6-5'								2'-5'
VEW6-15'								12'-15'
VEW6-25'								22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'								2'-5'
VEW18-5'								2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
* SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet:		Midpoint:		Outlet:		Inlet/Outlet use #260 FULL SCAN
STATUS DEPARTURE:	ON	OFF		Drums:	NA		

Notes: List all activities, observations, recommendations

CALLED P.M. EXPLAINED COULDNT KEEP SYSTEM RUNNING & WAS INSTRUCTED TO LEAVE SYSTEM OFF UNTIL FURTHER NOTICE

The Reynolds Group

Vapor Extraction/HVES Monitoring Log

SITE INFORMATION						Blower 1500 horse power positive displacement; 500 cfm blower capacity	
CLIENT/SITE	7115 Universal			Unit:	two 1000 lb carbon vessels		
ADDRESS	1551 E Orangethorpe Ave., Fullerton CA			Permit No.:	various locations permit F95132		
TECHNICIAN	Name: RB	Date: 6-16-11		Weekday:	THURS	Time:	8:00A
ARRIVAL STATUS:	OFF	OPERATING HOURS:		Alarms:			

Carbon System					
Blower	Amps:	A	Dilution Valve:	Manual:	%open
Process Flow		scfm	Manifold Vacuum.:		"H2O
Carbon Inlet Temperature		F	Source Flow:		fpm
VES Process Concentrations	Inlet:	ppm	Influent:	Outlet:	Midpoint: ppm
Monitoring Device	FID		Calibration (type/date)	/	

VAPOR EXTRACTION WELLS

Extraction Well Data

WELL NO.	Status O/C	Conc. (ppmv)	Vacuum ("wc)	Flow (fpm) 2" well	Vapor Temp	Well Sampled Y/N		Well Screen (ft)
VEW3-5'								2'-5'
VEW3-15'								12'-15'
VEW3-25'								22'-25'
VEW4-5'								2'-5'
VEW4-15'								12'-15'
VEW4-25'								22'-25'
VEW5-5'								2'-5'
VEW5-15'								12'-15'
VEW5-25'								22'-25'
VEW5-60'								45'-60'
VEW6-5'								2'-5'
VEW6-15'								12'-15'
VEW6-25'								22'-25'
VEW7-5'								2'-5'
VEW7-15'								12'-15'
VEW8-5'								2'-5'
VEW8-15'								12'-15'
VEW9-5'								2'-5'
VEW9-15'								12'-15'
VEW9-25'								22'-25'
VEW10-5'								2'-5'
VEW10-15'								12'-15'
VEW11-5'								2'-5'
VEW11-15'								12'-15'
VEW11-25'								22'-25'
VEW12-5'								2'-5'
VEW12-15'								12'-15'
VEW12-25'								22'-25'
VEW12-60'								45'-60'
VEW13-5'								2'-5'
VEW13-15'								12'-15'
VEW13-25'								22'-25'
VEW14-5'								2'-5'
VEW14-15'								12'-15'
VEW15-5'								2'-5'
VEW15-15'								12'-15'
VEW16-5'								2'-5'
VEW17-5'								2'-5'
VEW18-5'								2'-5'

COMPLIANCE

DO NOT OPERATE VES UNLESS CONDITIONS ARE SATISFIED

VES Flow Rate <250 SCFM?	Yes/No
Discharge Temperature	Yes/No
SVE Concentration Outlet < 50 ppmv	Yes/No

SITE SPECIFIC INSTRUCTIONS

All activities must be uploaded to excel spreadsheet in remediation folder before leaving the property

All O&M activities must be conducted every seven days unless otherwise indicated by a "*Monthly*" note.

MONTHLY CERTIFIED VAPOR SAMPLING

Tedlar Bag Samples Y / N	Inlet:	Midpoint:	Outlet:			Inlet/Outlet use 8260 FULL SCAN
STATUS DEPARTURE:	ON	OFF		Drums:	NA	

Notes: List all activities, observations, recommendations

TO DAY DISASSEMBLED BLOWER FROM SKID SO THAT IT COULD BE TAKEN IN TO TUTTHILL BLOWERS TO GET SERVICED

Reference:
SCAQMD, 1977

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

PERMIT to OPERATE

SOUTHERN ZONE - 1610 E. Ball Road, Anaheim, California 92805

S 00094

Operation under this permit must be conducted in compliance with all information included with the initial application and the initial permit conditions. The equipment must be properly maintained and kept in good operating condition at all times. In accordance with Rule 206, this Permit to Operate or copy must be posted on or within 8 meters of equipment.

00303A

LEGAL OWNER OR OPERATOR. ARNOLD ENGINEERING COMPANY

EQUIPMENT LOCATED AT: 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CALIFORNIA 92634

EQUIPMENT DESCRIPTION AND CONDITIONS:

STORAGE TANK, 1, 1, 1 TRICHLOROETHANE, KEESEE, ABOVE GROUND, 550 GAL., 3'-10" DIA. X 6'-9" H.

FILE COPY

This initial permit must be renewed by 5-18-78 or an earlier date if equipment is moved, altered, or changes ownership. If billing for annual renewal fee (Rule 301.f) not received by expiration date, contact Zone office above.

This permit does not authorize the emission of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules of the Air Quality Management District. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other government agencies.

087822 $25.00

VOID UNLESS VALIDATED

AIR POLLUTION CONTROL OFFICER

BY Joseph Tramma

DATE 5-18-77

76P235S- 2/77

Reference:
SCAQMD, 2006

South Coast Air Quality Management District

Run Date : 09/27/2006 03:05 PM

Facility Equipment List Report

Facility: 10274 INTEGRATED SPECIALTIES, SUBS ARNOLD ENG
Last Inspection: 06/10/1987
SIC: 36
Inspector:
Inspection Date:
Location Address: 1551 E ORANGETHORPE AVE, FULLERTON 92634
Mailing Address:
Instruction:

MR: 0601
TS:
Facility Status: Out of Business
Assignment No.
Disposition:

Contact: DON FARMER (714) 8711560
Quarter: none - do not inspect
On Hold:
Facility Team:
Suspended:

RECLAIM: N TITLE V: N SIP: AIR:

Application No.	Permit No.	Permit Issue Date	Permit Status	Equipment Category		BCAT/CCAT Description	Application Date	Application Status
00502A	S00093	05/18/1977	INACTIVE	000239	BCAT	CLEANING, MISCELLANEOUS SOLVENT WIPE	01/01/1900	PERMIT TO OPERATE GRANTED
00503A	S00094	05/18/1977	INACTIVE	251900	BCAT	STORAGE TANK HYDROCARBONS MISC	01/01/1900	PERMIT TO OPERATE GRANTED
00504A	S00095	05/18/1977	INACTIVE	000239	BCAT	CLEANING, MISCELLANEOUS SOLVENT WIPE	01/01/1900	PERMIT TO OPERATE GRANTED
00505A	S00096	05/18/1977	INACTIVE	000239	BCAT	CLEANING, MISCELLANEOUS SOLVENT WIPE	01/01/1900	PERMIT TO OPERATE GRANTED
00506A	S00097	05/18/1977	INACTIVE	000239	BCAT	CLEANING, MISCELLANEOUS SOLVENT WIPE	01/01/1900	PERMIT TO OPERATE GRANTED
00507A	S00098	05/18/1977	INACTIVE	000221	BCAT	DEGREASER 1,1,1 TRICHLOROETHANE (>1LB/D)	01/01/1900	PERMIT TO OPERATE GRANTED
03527A	S02801	01/26/1979	INACTIVE	60	CCAT	SPRAY BOOTH PAINT AND SOLVENT	01/01/1900	PERMIT TO OPERATE GRANTED
03527A	S02801	01/26/1979	INACTIVE	246701	BCAT	FOAMS, PLAS & RUB.,REACTION ORGAN ADD	01/01/1900	PERMIT TO OPERATE GRANTED
11253W	001253	11/03/1961	INACTIVE	000221	BCAT	DEGREASER 1,1,1 TRICHLOROETHANE (>1LB/D)	01/01/1900	PERMIT TO OPERATE GRANTED
11255W	001255	11/03/1961	INACTIVE	07	CCAT	BOILER/HEATER/INCINERATOR AS AFTERBURNER	01/01/1900	PERMIT TO OPERATE GRANTED
117580	M38919	06/15/1984	INACTIVE	000239	BCAT	CLEANING, MISCELLANEOUS SOLVENT WIPE	11/21/1983	PERMIT TO OPERATE GRANTED
117581	M38920	06/15/1984	INACTIVE	000221	BCAT	DEGREASER 1,1,1 TRICHLOROETHANE (>1LB/D)	11/21/1983	PERMIT TO OPERATE GRANTED
12190X	702190	06/01/1976	INACTIVE	000221	BCAT	DEGREASER 1,1,1 TRICHLOROETHANE (>1LB/D)	01/01/1900	PERMIT TO OPERATE GRANTED
12192X	702192	06/01/1970	INACTIVE	000221	BCAT	DEGREASER 1,1,1 TRICHLOROETHANE (>1LB/D)	01/01/1900	PERMIT TO OPERATE GRANTED
131461				40	CCAT	SCRUBBER, OTHER VENTING S.S.	04/05/1985	APPLICATION CANCELLED, KEEP FILING I
14479X	754479	04/23/1975	INACTIVE	000221	BCAT	DEGREASER 1,1,1 TRICHLOROETHANE (>1LB/D)	01/01/1900	PERMIT TO OPERATE GRANTED
14480X	754480	04/23/1975	INACTIVE	000221	BCAT	DEGREASER 1,1,1 TRICHLOROETHANE (>1LB/D)	01/01/1900	PERMIT TO OPERATE GRANTED
16303X	766303	06/17/1976	INACTIVE	000239	BCAT	CLEANING, MISCELLANEOUS SOLVENT WIPE	01/01/1900	PERMIT TO OPERATE GRANTED
62189X	702189	06/01/1970	INACTIVE	40	CCAT	SCRUBBER, OTHER VENTING S.S.	01/01/1900	PERMIT TO OPERATE GRANTED
62189X	702189	06/01/1970	INACTIVE	000281	BCAT	TANK CHEMICAL MILLING	01/01/1900	PERMIT TO OPERATE GRANTED

Report:

EXHIBIT NO. 21
CHRISTIANNE LEE FONG
CSR # 7559

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

AE0716

Reference:
SCC, 2012

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Attorneys for Plaintiff
Orange County Water District

(Exempt from filing fees per Govt. Code § 6103)

SUPERIOR COURT OF THE STATE OF CALIFORNIA

IN AND FOR THE COUNTY OF ORANGE

ORANGE COUNTY WATER DISTRICT,

Plaintiff,

v.

NORTHROP CORPORATION; et al.,
Defendants.

AND RELATED CROSS-ACTIONS

NO. 04CC00715

STIPULATION REGARDING USE AND OCCUPANCY OF PROPERTY

(ARNOLD)

Dept: CX104
Judge: Hon. Kim G. Dunning

Complaint Filed: December 17, 2004
Trial Date: February 10, 2012

THE ARNOLD ENGINEERING COMPANY

Arnold Engineering Company ("Arnold") admits that it owned the property located at 1551 Orangethorpe, Fullerton, California, between 1960 and 1984.

Arnold admits that it occupied the property located at 1551 Orangethorpe, Fullerton, California, between 1960 and 1984.

Arnold admits that it operated a vapor degreaser on the site between 1960 and 1984.

IT IS SO STIPULATED.

Dated: 6/22/12

MILLER, AXLINE & SAWYER
A Professional Corporation

By: _____
MICHAEL AXLINE
Attorneys for Plaintiff
Orange County Water District

Dated: 6/22/12

MUSICK, PEELER & GARRETT, LLP

By: _____ FOR
STEVEN J. ELIE
Attorneys for Arnold Engineering Co.

Reference:
SPGIT, 2014

Note: This document is confidential and is included in the confidential information packet.

Reference:
WESTON, 2017

Note: This document is confidential and is included in the confidential information packet.

Reference:
WRCC, 2015

FULLERTON DAM, CALIFORNIA (043285)

Period of Record Monthly Climate Summary

Period of Record : 07/01/1948 to 03/31/2013

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)					Insuff icient		Data						
Average Min. Temperature (F)					Insuff icient		Data						
Average Total Precipitation (in.)	3.61	1.89	1.68	1.23	0.36	0.03	0.00	0.03	0.05	0.21	0.98	1.76	11.84
Average Total SnowFall (in.)						No	Data						
Average Snow Depth (in.)						No	Data						

Percent of possible observations for period of record.
Max. Temp.: 0% Min. Temp.: 0% Precipitation: 98% Snowfall: 11.6% Snow Depth: 11.6%
Check Station Metadata or Metadata graphics for more detail about data completeness.

Western Regional Climate Center, wrcc@dri.edu

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

Universal Molding Company
c/o Mr. Dominick Baione
10807 Stanford Avenue
Lynwood, CA 90262

RE: Arnold Engineering
1551 East Orangethorpe Avenue
Fullerton, California
EPA ID No.: CAN000900306

Dear Mr. Baione:

Enclosed is a Preliminary Assessment (PA) report of the Arnold Engineering facility ("the Facility") located at 1551 East Orangethorpe Avenue, Fullerton, California. This report was completed by Weston Solutions, Inc. for the U.S. Environmental Protection Agency (EPA) under Section 104(a) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. 9604(a), commonly known as Superfund. The purpose of the PA is to determine whether this Facility may qualify for further Site Inspection (SI).

The Facility resides within the footprint of the Orange County North Basin groundwater plume, which is contaminated with 1,1-DCE, PCE, TCE, 1,4-dioxane and perchlorate. A PA for the groundwater plume has been completed and an SI for the plume is underway. The SI report is expected to be finalized this summer. Both PA and SI reports for the groundwater plume will be available upon request.

Based on information in the enclosed report, EPA has determined that further assessment of this Facility may be warranted. EPA, state, or local agencies may seek to further investigate or remediate the Facility individually or as a part of the Orange County North Basin groundwater plume.

If you have questions, please contact the Site Assessment Manager, Kim Hoang at (415) 972-3147 or at hoang.kim@epa.gov.

Sincerely,

6/29/17

Mindy Clements, Chief
Brownfields and Site Assessment Section
Superfund Division

Enclosure

cc: Eileen Mananian, DTSC
John Scandura, DTSC
Maile Gee, RWQCB
Nick Amini, RWQCB
Dave Mark, OCWD