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12 January 2007

Proj. No.: H0287D
File Loc.: Westminster

Mr. John Nebu
Department of Toxics Substances Control
5796 Corporate Avenue
Cypress, California 90630

Dear Mr. Nebu:

RE: FOURTH QUARTER GROUNDWATER MONITORING REPORT, ASSOCIATED PLATING COMPANY, 9636 ANN STREET SANTA FE SPRINGS, CALIFORNIA

WorleyParsons Komex is pleased to submit the attached Fourth Quarter 2006 Groundwater Monitoring Report for the Associated Plating Company (APC) located at 9636 Ann Street, in the city of Santa Fe Springs, California. This report presents the results obtained from the groundwater sampling conducted at the APC facility in November 2006. If you have any questions or comments, feel free to call at (714) 379-1157, extension 152.

Sincerely,
WorleyParsons Komex

Lee Paprocki

Lee Paprocki, P.G.
Project Manager

"OFFICIAL FILE COPY"
DEPARTMENT OF TOXIC SUBSTANCES CONTROL

cc: Mr. Michael Evans
Associated Plating Corporation
9636 Ann Street
Santa Fe Springs, CA 90670

Mr. Clare Golnick
FX-6: Personal Privacy

Mr. Dave Klunk
Santa Fe Springs Fire Department
Hazardous Materials Division
11300 Greenstone Avenue
Santa Fe Springs, CA 90670

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ASSOCIATED PLATING COMPANY

Fourth Quarter 2006 Groundwater Monitoring Report

Associated Plating Company, 9636 Ann Street, Santa Fe Springs, California

H0287D

12 January 2007

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ASSOCIATED PLATING COMPANY
FOURTH QUARTER 2006 GROUNDWATER MONITORING REPORT
ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

Lee Paprocki, a California Professional Geologist, as an employee of WorleyParsons Komex, with expertise in contaminant assessment and remediation, and groundwater hydrology, has reviewed the report with the title **Fourth Quarter 2006 Groundwater Monitoring Report, APC Facility, 9636 Ann Street, Santa Fe Springs, California.** Her signature and stamp appear below.

Lee Paprocki

Lee Paprocki

Professional Geologist 7749

REGISTERED GEOLOGIST
LEE PAPROCKI
No. 7749
STATE OF CALIFORNIA

Disclaimer

The information presented in this document was compiled and interpreted exclusively for the purposes stated in Section 1 of the document. WorleyParsons Komex provided this report for Associated Plating Company solely for the purpose noted above.

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CONTENTS

1. INTRODUCTION 1
1.1 Geology and Hydrogeology 1
1.1.1 Regional Geology and Hydrogeology 1
1.1.2 Site Geology 2
1.1.3 Site Hydrogeology 3
1.2 Site Conceptual Model 3
2. GROUNDWATER SAMPLING 4
2.1 Groundwater Gauging and Sampling Procedures 4
2.2 Waste Disposal 4
2.3 Quality Assurance/Quality Control Sampling 4
2.4 Laboratory Analyses 4
3. GROUNDWATER RESULTS 6
3.1 Groundwater Results 6
3.2 QA/QC Analytical Results 6
4. CONCLUSIONS AND RECOMMENDATIONS 8
4.1 Conclusions 8
4.2 Recommendations 8
5. CLOSURE 9
6. REFERENCES 10

Tables

1 Monitoring Well Construction Details
2 Groundwater Elevations
3 TPH Carbon Range Groundwater Results
4 VOC Groundwater Results
5 Field Quality Assurance/Quality Control Sample Results

Figures

1 Site Location Map
2 Site Vicinity Map
3 Site Plan Showing Borehole and Monitoring Well Locations
4 Site Conceptual Model and Proposed Operable Units
5 Potentiometric Surface Contour Map – November 13, 2006
6 TPH Concentrations in Groundwater – November 2006
7 Select Chlorinated Solvent Concentrations in Groundwater – November 2006

Appendices

A Monitoring Well Sampling Forms
B Waste Manifest
C Laboratory Analytical Report

LIST OF ACRONYMS AND ABBREVIATIONS

APC	Associated Plating Company
bgs	below ground surface
cis-1,2-DCE	cis-1,2-dichloroethene
COC	chain-of-custody
DOT	Department of Transportation
DTSC	Department of Toxic Substances Control
DWR	Department of Water Resources
ft/ft	feet per foot
L	liter
LNAPL	light non-aqueous phase liquid
MSL	mean sea level
ug/L	micrograms per liter
mg/L	milligrams per liter
ml	milliliter
QA	quality assurance
QC	quality control
PCE	tetrachloroethene
TCE	trichloroethene
TPH	total petroleum hydrocarbons
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOA	volatile organic analysis
VOCs	volatile organic compounds

1. INTRODUCTION

This document has been prepared by WorleyParsons Komex on behalf of the Associated Plating Company (APC). The report summarizes the groundwater sampling and well surveying conducted at 9636 Ann Street, Santa Fe Springs, California (herein referred to as the Site). The Site is located in Santa Fe Springs, California at an elevation of approximately 150 feet above mean sea level (MSL) with a local topographic gradient of less than 20 feet per mile to the southeast (**Figures 1 and 2**). Monitoring wells, MW-1 through MW-4, were installed at the Site on April 5 and 6, 2006 (**Table 1**) and were first sampled a week later (**Figure 3**).

Groundwater sampling and analysis completed at the Site during April 2006 identified the presence of chlorinated solvents and petroleum hydrocarbons.

The Department of Toxic Substances Control (DTSC), in their letter dated December 14, 2005 and in a meeting on August 22, 2006, requested that quarterly groundwater sampling be continued for one year. Therefore, fourth quarter groundwater sampling was conducted in November 2006 and is summarized in this report.

1.1 Geology and Hydrogeology

1.1.1 Regional Geology and Hydrogeology

Los Angeles County is underlain by the Los Angeles County Coastal Plain and is bounded by the Santa Monica Mountains to the north, the low lying Elysian, Repetto, Merced, and Puente Hills to the northeast, a political boundary coinciding with the boundary between Los Angeles County and Orange County to the southeast, and the Pacific Ocean to the southwest. Alluvial fans formed by the Los Angeles, Rio Hondo, and San Gabriel Rivers systems have coalesced to form the Downey Plain, which represents the largest area of recent alluvial deposition in the Coastal Plain. The Downey Plain is bordered by the La Brea, Montebello, and Santa Fe Spring Plains, and the Coyote hills to the north and northeast, the Newport Inglewood uplift to the southwest, and the Coastal Plain of Orange County to the southeast (DWR, 1961). The Downey Plain slopes gently to the south with an average gradient of less than 18 feet per mile. The Site is located between the Downey Plain and the Santa Fe Springs Plain. The Santa Fe Springs Plain is located south of Whittier and east of the San Gabriel River, in the area of the City of Santa Fe Springs. The Santa Fe Springs Plain is a low, slightly rolling topographic feature and represents a continuation of the Coyote Hills Uplift to the southeast.

The Coastal Plain of Los Angeles County is a deep groundwater reservoir filled by unconsolidated alluvial sands, gravels, clays, and silts. Fresh-water aquifers extend to depths of over 2,000 feet. The California Department of Water Resources (DWR) divided the coastal plain into four groundwater basins: the Santa Monica Basin, the West Coast Basin, the Hollywood Basin, and the Central Basin (DWR, 1961). The Site lies within the Central Basin, which is further divided into four parts for descriptive purposes: the Los Angeles Forebay Area, the Montebello Forebay Area, the Whittier Area, and the Central Basin Pressure Area.

The Site is located in the Central Basin Pressure Area. The Central Basin Pressure Area is called a "pressure area" because the aquifers within it are confined by aquicludes over most of the area. The major regional aquitards and aquifers beneath the Site occur in the Recent Alluvium, the Upper Pleistocene Lakewood Formation, and the Lower Pleistocene San Pedro Formation. Depth intervals for the major regional hydro-stratigraphic units (aquitards and aquifers) in the Site vicinity are presented in the table below:

Regional Hydro-stratigraphic Unit	Formation	Approximate Depth Intervals (feet below ground surface)
Bellflower Aquitard	Recent Alluvium	0 – 30
Gaspur	Recent Alluvium	30 – 65
Gage	Lakewood	65 – 110
Hollydale-Jefferson	San Pedro	110 - 130
Lynwood	San Pedro	130 – 210
Silverado	San Pedro	210 – 360
Sunnyside	San Pedro	360 - 610

1.1.2 Site Geology

The Site is underlain with artificial fill composed primarily of silt from the ground surface to an approximate depth of 7 feet below ground surface (bgs). At approximately 7 feet bgs a concrete pad is encountered, which is approximately four inches thick. Underlying the concrete pad is a silt and clay layer that extends to approximately 25 feet bgs. Below the silt and clay layer is a sand and gravelly

sand layer that extends to at least 48 feet bgs (**Figure 4**). Both the silt and clay layer and the sand and gravel layer correspond to the Recent Alluvium.

1.1.3 Site Hydrogeology

In April 2006, first groundwater was detected between 34 and 38 feet bgs (approximately 112 feet MSL) and corresponds to the Gaspur Aquifer. In August 2006, water levels ranged between 33 and 37 feet bgs. Since August, water levels have risen slightly to between 33.55 and 37.54 feet bgs in November 2006. Groundwater flow varies between the south-southwest and south-southeast at an approximate gradient of 0.001 feet per foot (ft/ft).

1.2 Site Conceptual Model

In accordance with the Site conceptual model developed below, the subsurface at the Site and Site vicinity was previously divided into three operable units: Operable Unit 1 (OU-1), Operable Unit 2 (OU-2), and Operable Unit 3 (OU-3) (**Figure 4**). OU-1 consists of fill material underlying the Site from ground surface to the top of the buried concrete pad (approximately 7 feet bgs). OU-2 consists of on-Site soils and the first groundwater zone, from the base of the concrete pad to approximately 50 feet bgs. OU-3 consists of the off-Site soils and the first groundwater zone.

Fill material in OU-1 is impacted by petroleum hydrocarbons (C7 to C36), fuel volatile organic compounds (VOCs), probably representing pre-existing contamination from the former storage tank, and chlorinated solvent compounds, consistent with releases of tetrachloroethene (PCE) from the APC facility.

2. GROUNDWATER SAMPLING

2.1 Groundwater Gauging and Sampling Procedures

Well construction details for the four groundwater monitoring wells (MW-1 through MW-4) are included in **Table 1.** On November 13, 2006, the four monitoring wells were gauged and then purged and sampled. Following gauging, the wells were purged of at least three well volumes of water, allowed to recover, and then sampled using an electric pump. Groundwater gauging and sampling field notes are provided in **Appendix A.**

2.2 Waste Disposal

Waste generated as part of this investigation included purged groundwater and decontamination water used during sampling. Water was contained in one Department of Transportation (DOT) approved 55-gallon drum and temporarily stored at the Site prior to disposal. Groundwater and decontamination water were removed from the Site and transported to a suitable off-Site disposal facility by a licensed non-hazardous waste hauler. The waste manifest is provided in **Appendix B.**

2.3 Quality Assurance/Quality Control Sampling

Field quality assurance/quality control (QA/QC) samples were collected on November 13, 2006, during groundwater sampling activities. An equipment rinsate blank was collected from the groundwater electric pump by running distilled water through the pump hose into three 40-milliliter (ml) volatile organic analysis (VOA) vials and one 1 liter (L) amber glass container. A field blank was collected by filling three 40 ml VOA vials and one 1 L amber glass container with distilled water, leaving them exposed to ambient air during collection of the equipment blank, and then sealing them. A trip blank, consisting of one sealed 40 ml VOA vial filled with distilled water, was obtained from the laboratory and kept in the ice-chest throughout the day to evaluate if there was any introduction of VOCs during storage and transportation.

2.4 Laboratory Analyses

Monitoring well groundwater samples and QA/QC samples were labeled, placed in an ice chest, and delivered under chain-of-custody (COC) to Sierra Analytical Inc. of Laguna Hills, California, within 24 hours of collection. The samples were analyzed for the following:

- Total petroleum hydrocarbons (TPH), ranging from C7 to C36, in accordance with USEPA Method 8015B; and
- VOCs in accordance with USEPA Method 8260B.

3. GROUNDWATER RESULTS

3.1 Groundwater Results

Groundwater depths in the four monitoring wells ranged from 33.55 to 37.54 feet bgs (**Table 2**). During this sampling event, groundwater flow was generally towards the south-southwest at a gradient of 0.001 ft/ft (**Figure 5**).

A sheen of light non-aqueous phase liquid (LNAPL) was observed on the product level probe in three of the wells: MW-1, MW-2, and MW-4. Well MW-3 had an observed LNAPL layer of .01 inches.

Groundwater gauging and laboratory analytical results are provided in **Tables 2, 3 and 4**, respectively. The complete laboratory report, including COC and laboratory QA/QC analyses, is provided in **Appendix C**.

Petroleum hydrocarbons were detected in groundwater collected from the four monitoring wells: MW-1, MW-2, MW-3, and MW-4 at concentrations slightly less than the previously recorded August concentrations (**Table 3**). The maximum concentration of TPH decreased from 16 milligrams per liter (mg/L) in August to 3.8 mg/L in well MW-1. The minimum TPH concentration also decreased, from 2.1 mg/L in well MW-3 to 1.0 mg/L in well MW-2. The lateral distribution of TPH in groundwater for this sampling event is depicted in **Figure 6**.

VOC groundwater results are presented in **Table 4**. Chlorinated solvents were detected in every well (**Figure 7**). Since August 2006, chlorinated solvent concentrations in groundwater collected from wells MW-1 through MW-4 have remained fairly constant. Vinyl chloride (VC) was detected in groundwater collected from all four wells; however, the concentrations have slightly decreased since August. PCE was detected in groundwater at 3.6 micrograms per liter (ug/L) in well MW-4. Trichloroethene (TCE) was detected in groundwater collected from well MW-1 at 28 ug/L. Cis-1, 2-dichloroethene (cis-1,2-DCE) was detected in groundwater for the first time at a concentration of 1.2 ug/L in well MW-4.

3.2 QA/QC Analytical Results

The results of QA/QC sample analyses are provided in **Table 5**. Groundwater laboratory QA/QC samples for TPH and chlorinated solvents were generally within acceptable levels. A review of the laboratory analytical report indicates that all internal laboratory QA/QC calibration checks, matrix spike,

and matrix spike duplicate recoveries were within acceptable ranges (**Appendix C**). Chlorinated solvents were not detected in the equipment rinsate blank, field blank or trip blank. However, toluene and TPH were detected in the equipment blank at concentrations of 11 ug/L and 0.32 mg/L, respectively. During this sampling event, the equipment blank was collected from the sampling pump hose. The pump hose was cleaned before sampling and between each well by pumping it with water from a three bucket decon rinse system: the first bucket contained distilled water and a non-phosphate detergent, and the second and third bucket contained tap water only. Due to the presence of LNAPL in the four monitoring wells, standard three bucket rinse decontamination procedures appear unable to entirely remove low levels of fuel related compounds. Groundwater results are deemed acceptable for the following reasons: standard decontamination practices were followed, chlorinated solvents are the primary contaminants of concern, and they were not detected in any of the sampling blanks.

4. CONCLUSIONS AND RECOMMENDATIONS

4.1 Conclusions

In November 2006, groundwater flow beneath the Site was towards the south-southwest at a gradient of 0.001 ft/ft and depth to groundwater ranged from to 33.55 to 37.54 feet bgs (113.23 to 113.38 feet MSL).

In November 2006, the TPH and chlorinated solvent concentrations detected in groundwater beneath the Site remained fairly constant. However, concentrations of TPH and VC detected in groundwater beneath the Site have slightly decreased.

4.2 Recommendations

In accordance with the DTSC's request, two additional quarterly groundwater sampling events should be conducted to analyze the contaminant trends.

5. CLOSURE

We trust that this report satisfies your current requirements and provides suitable documentation for your records. If you have any questions or require further details, please contact the undersigned at any time.

Respectfully Submitted:
WorleyParsons Komex

Lindsay Masters
Staff Geologist

Senior Review by

Lee Paprocki, PG
Project Manager

6. REFERENCES

DWR, 1961. Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County. Bulletin No. 104. Appendix A Ground Water Geology. State of California Department of Water Resources Southern District. Dated June 1961.

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Table 1

Monitoring Well Construction Details

Associated Plating Company

Well ID	Drilling Method	Installation Date	Well Casing Diameter (inches)	Latitude	Longitude	Wellhead Elevation (feet amsl)	Top of Casing Elevation (ft amsl)	Well Depth (feet bgs)	Well Depth (feet amsl)	Screen Slot Size (inches)	Screened Interval (feet bgs)	Screened Interval (feet amsl)
MW-1	HSA	4/5/2006	2	33.9527753	-118.05925	147.36	146.93	43.0	103.9	0.01	33 to 43	114.35 to 104.35
MW-2	HSA	4/5/2006	2	33.9524570	-118.05920	149.81	149.41	47.0	102.4	0.01	37 to 47	112.79 to 102.79
MW-3	HSA	4/6/2006	2	33.9523123	-118.05931	151.06	150.67	47.0	103.7	0.01	37 to 47	114.04 to 104.04
MW-4	HSA	4/6/2006	2	33.9522795	-118.05949	151.13	150.77	47.0	104.1	0.01	37 to 47	114.13 to 104.13

Notes:

1) amsl = above mean sea level

2) bgs = below ground surface

3) HSA = hollow stem auger

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Table 2

Groundwater Elevations
Associated Plating Company

Well ID	Top of Casing Elevation (feet amsl)	Date	Depth to Groundwater (feet btoc)	Product Thickness (feet)	Groundwater Elevation (feet amsl)
MW-1	146.93	04/12/06	34.33	Sheen	112.60
		08/31/06	33.03	Sheen	113.90
		11/13/06	33.55	Sheen	113.38
MW-2	149.41	04/12/06	36.87	0.00	112.54
		08/31/06	35.62	Sheen	113.79
		11/13/06	36.05	Sheen	113.36
MW-3	150.67	04/12/06	38.20	Sheen	112.47
		08/31/06	36.89	0.00	113.78
		11/13/06	37.38	0.01	113.30
MW-4	150.77	04/12/06	38.36	Sheen	112.41
		08/31/06	37.04	Sheen	113.73
		11/13/06	37.54	Sheen	113.23

Notes:

1) bgs = Below ground surface

2) amsl = above mean sea level

3) btoc = below top of casing

4) Groundwater elevations are corrected for the presence of measurable free product using a specific gravity of 0.88.

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Table 3

TPH Carbon Range Groundwater Results

Associated Plating Company

Analyte	Units	MW-1 4/12/06	MW-1 8/31/06	MW-1 11/13/06	MW-2 4/12/06	MW-2 8/31/06	MW-2 11/13/06	MW-3 4/12/06	MW-3 8/31/06	MW-3 11/13/06	MW-4 4/12/06	MW-4 8/31/06	MW-4 11/13/06
<C8	mg/L	<0.10	<0.10	<0.010	<1.0	**0.11**	**0.014**	<1.0	**0.051**	**0.033**	<1.0	**0.084**	**0.060**
C8-C9	mg/L	<0.10	<0.10	<0.010	<1.0	**0.040**	<0.010	<1.0	**0.014**	<0.010	<1.0	**0.031**	**0.010**
C9-C10	mg/L	<0.10	<0.10	**0.010**	**1.1**	**0.073**	<0.010	<1.0	**0.030**	**0.018**	<1.0	**0.056**	**0.040**
C10-C11	mg/L	**0.33**	**0.13**	**0.029**	**2.0**	**0.16**	**0.015**	<1.0	**0.076**	**0.089**	<1.0	**0.13**	**0.13**
C11-C12	mg/L	**0.66**	**0.20**	**0.047**	**2.8**	**0.14**	**0.028**	<1.0	**0.087**	**0.091**	<1.0	**0.17**	**0.12**
C12-C14	mg/L	**5.1**	**1.2**	**0.28**	**5.9**	**0.70**	**0.17**	<1.0	**0.26**	**0.44**	**1.8**	**0.40**	**0.68**
C14-C16	mg/L	**6.7**	**1.6**	**0.42**	**5.8**	**0.76**	**0.16**	**1.5**	**0.34**	**0.43**	**5.4**	**0.56**	**0.46**
C16-C18	mg/L	**6.8**	**1.6**	**0.50**	**5.0**	**0.63**	**0.14**	<1.0	**0.24**	**0.37**	**4.4**	**0.39**	**0.42**
C18-C20	mg/L	**4.1**	**0.94**	**0.29**	**3.6**	**0.54**	**0.18**	**1.1**	**0.19**	**0.27**	**4.0**	**0.27**	**0.27**
C20-C24	mg/L	**12**	**2.4**	**0.71**	**7.0**	**1.1**	**0.083**	<1.0	**0.29**	**0.34**	**5.2**	**0.48**	**0.48**
C24-C28	mg/L	**16**	**4.2**	**0.84**	**7.1**	**1.3**	**0.074**	**2.6**	**0.31**	**0.32**	**9.6**	**0.57**	**0.43**
C28-C32	mg/L	**12**	**3.9**	**0.62**	**10**	**1.1**	**0.16**	**35**	**0.23**	**0.27**	**27**	**0.46**	**0.30**
>C32	mg/L	**0.65**	**0.28**	**0.037**	**3.5**	**0.046**	**0.010**	**4.3**	**0.015**	**0.017**	**2.6**	**0.030**	**0.019**
Total C7-C36	mg/L	**65**	**16**	**3.8**	**54**	**6.7**	**1.0**	**46**	**2.1**	**2.7**	**60**	**3.6**	**3.4**

Notes:

1) TPH = total petroleum hydrocarbons (carbon range) analyzed using EPA Method 8015B

2) mg/L = milligrams per liter

3) <0.10 = compound not detected at or above the indicated laboratory reporting limit

4) Bold type indicates compound was detected.

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Table 4
VOC Groundwater Results
Associated Plating Company

Analyte	Units	Location / Date	MW-1 4/12/06	MW-1 8/31/06	MW-1 11/13/06	MW-2 4/12/06	MW-2 8/31/06	MW-2 11/13/06	MW-3 4/12/06	MW-3 8/31/06	MW-3 11/13/06	MW-4 4/12/06	MW-4 8/31/06	MW-4 11/13/06
1,1,1,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/L		<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
1,2,4-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	23	3.4	1.4	<1.0	<1.0	<1.0
1,2 Dibromo-3-Chloropropane (DBCP)	ug/L		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2 Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.4	1.2	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Phenylbutane	ug/L		<1.0	<1.0	<1.0	18	12	6.5	16	11	8.1	18	13	9.0
4-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	ug/L		1.3	<1.0	<1.0	2.3	3.1	2.8	2.0	3.7	3.4	3.6	7.6	5.4
Bromobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
Butylbenzene,n-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
CFC-12	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
Chlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
Chloroform	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
cis-1,2-Dichloroethene (c/s 1,2-DCE)	ug/L		6.6	6.4	8.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2
cis-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cymene	ug/L		3.2	1.8	2.0	4.1	3.2	2.1	1.4	<1.0	<1.0	4.1	<1.0	2.8
Dibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl Ether (DIPE)	ug/L		--	<1.0	--	--	<1.0	--	--	<1.0	--	--	<1.0	--
Ethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	21	3.1	1.1	1.5	<1.0	<1.0
Ethyl-tert-butyl Ether (ETBE)	ug/L		--	<1.0	--	--	<1.0	--	--	<1.0	--	--	<1.0	--
Hexachloro-1,3-Butadiene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	ug/L		1.9	<1.0	<1.0	75	57	44	83	74	50	56	87	53
Methylene Chloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-Butyl Ether (MTBE)	ug/L		8.8	2.0	1.0	3.6	3.0	2.4	1.9	2.2	1.8	3.0	2.8	3.2
Naphthalene	ug/L		1.6	<1.0	<1.0	16	12	4.6	46	8.7	2.6	4.6	1.9	<1.0
Propylbenzene,n-	ug/L		<1.0	<1.0	<1.0	8.4	3.8	3.1	22	5.3	4.8	10	4.9	7.0
Styrene (Monomer)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-amyl-methyl Ether (TAME)	ug/L		--	<1.0	--	--	<1.0	--	--	<1.0	--	--	<1.0	--
tert-butyl Alcohol (TBA)	ug/L		--	<5.0	--	--	<5.0	--	--	<5.0	--	--	<5.0	--
tert-Butylbenzene	ug/L		1.6	<1.0	<1.0	1.9	1.7	1.4	<1.0	3.4	1.2	<1.0	1.4	1.2
Tetrachloroethene (PCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	1.2	3.8
Toluene	ug/L		<1.0	<1.0	18	<1.0	<1.0	10	<1.0	1.0	3.5	<1.0	<1.0	5.6
trans-1,2-Dichloroethene	ug/L		5.2	3.6	4.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tribromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	ug/L		1.3	21	28	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride (VC)	ug/L		20	9.9	6.6	50	47	21	53	58	34	57	64	35
Xylene, O-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene, P-, M-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	28	3.1	1.6	<1.0	<1.0	<1.0

Notes:

1) VOC = volatile organic compounds analyzed using EPA Method 8260B

2) ug/L = micrograms per liter

3) <1.0 = compound not detected at or above the indicated laboratory reporting limit

4) -- = not analyzed

5) Bold type indicates compound was detected.

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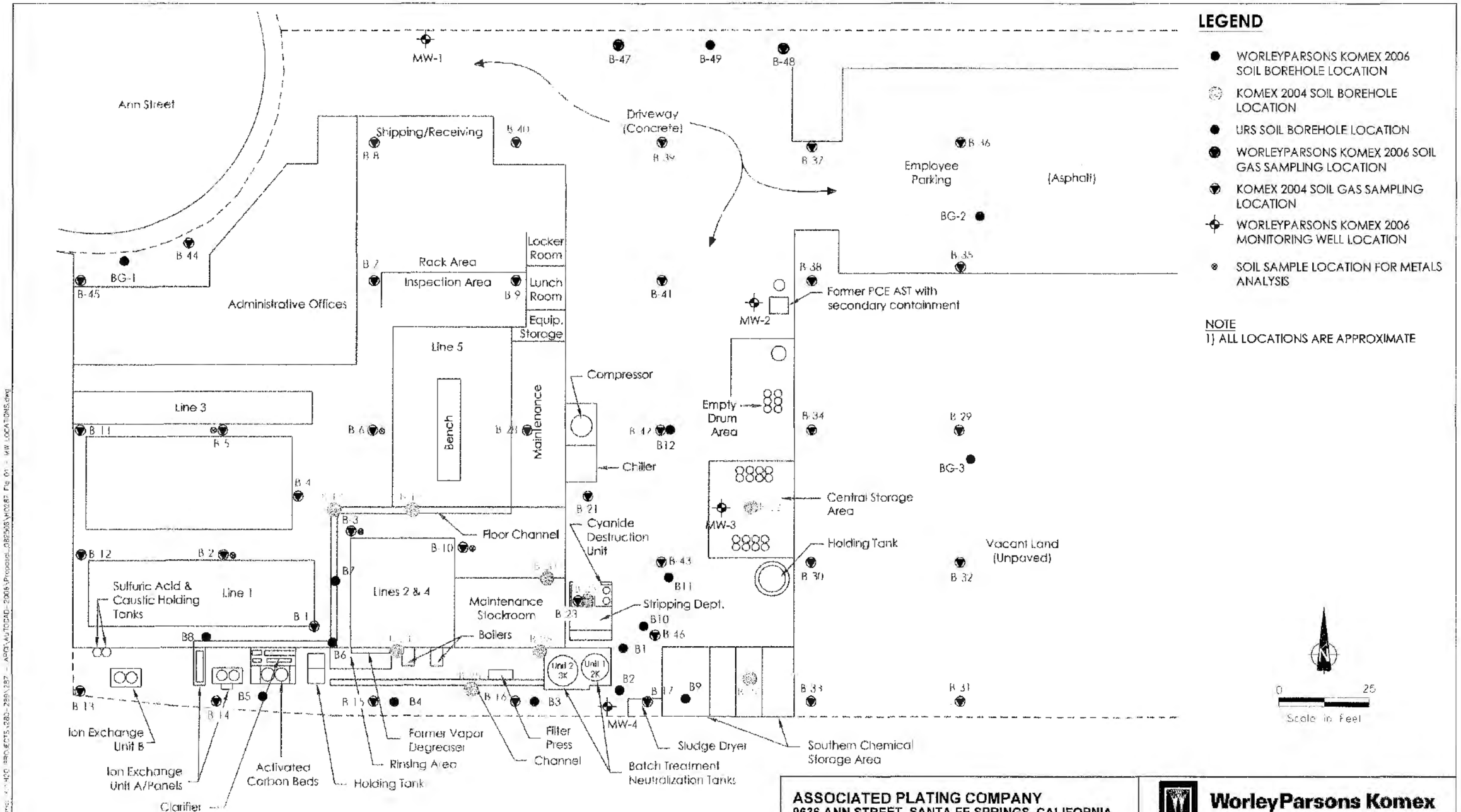
Table 5

Field Quality Assurance/Quality Control Sample Results
Associated Plating Company

		Sample Type	Equipment Blank			Field Blank			Trip Blank		
		Sample Date	4/12/06	8/31/06	11/13/06	4/12/06	8/31/06	11/13/06	4/12/06	8/31/06	11/13/06
Analyte	Units	Sample ID	EB-41206	EB083106	EB-111306	FB-41206	FB083106	FB-111306	TB-41206	TB083106	TB-111306
TPH - Carbon Range											
<C8	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	--
C8-C9	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	--
C9-C10	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	--
C10-C11	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	--
C11-C12	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	--
C12-C14	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	--
C14-C16	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	--
C16-C18	mg/L		<0.010	<0.010	**0.038**	<0.010	<0.010	<0.010	--	--	--
C18-C20	mg/L		<0.010	<0.010	**0.048**	<0.010	<0.010	<0.010	--	--	--
C20-C24	mg/L		<0.010	<0.010	**0.089**	<0.010	<0.010	<0.010	--	--	--
C24-C28	mg/L		<0.010	<0.010	**0.064**	<0.010	<0.010	<0.010	--	--	--
C28-C32	mg/L		<0.010	<0.010	**0.080**	<0.010	<0.010	<0.010	--	--	--
>C32	mg/L		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	--	--	--
Total C7-C36	mg/L		<0.050	<0.050	**0.32**	<0.050	<0.050	<0.050	--	--	--
VOCs											
1,1,1,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
1,2,4-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane (DBCP)	ug/L		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Phenylbutane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
4-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
Butylbenzene,n-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
CFC-12	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
Chlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
Chloroform	ug/L		<1.0	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cymene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl Ether (DIPE)	ug/L		--	<1.0	--	--	<1.0	--	--	<1.0	--
Ethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl-tert-butyl Ether (ETBE)	ug/L		--	<1.0	--	--	<1.0	--	--	<1.0	--
Hexachloro-1,3-Butadiene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	ug/L		<1.0	**2.3**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-Butyl Ether (MTBE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Propylbenzene,n-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-amyl-methyl Ether (TAME)	ug/L		--	<1.0	--	--	<1.0	--	--	<1.0	--
tert-butyl Alcohol (TBA)	ug/L		--	<5.0	--	--	<5.0	--	--	<5.0	--
tert-Butylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene (PCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L		<1.0	<1.0	**11**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tribromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride (VC)	ug/L		<5.0	<1.0	<1.0	<5.0	<1.0	<1.0	<5.0	<1.0	<1.0
Xylene, O-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylene, P-, M-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

1) TPH = total petroleum hydrocarbons (carbon range) analyzed using EPA Method 8015B
2) VOCs = volatile organic compounds analyzed using EPA Method 8260B
3) mg/L = milligrams per liter
4) ug/L = micrograms per liter
5) <1.0 = compound not detected at or above the indicated laboratory reporting limit
6) Bold type indicates compound was detected.
7) -- = not analyzed

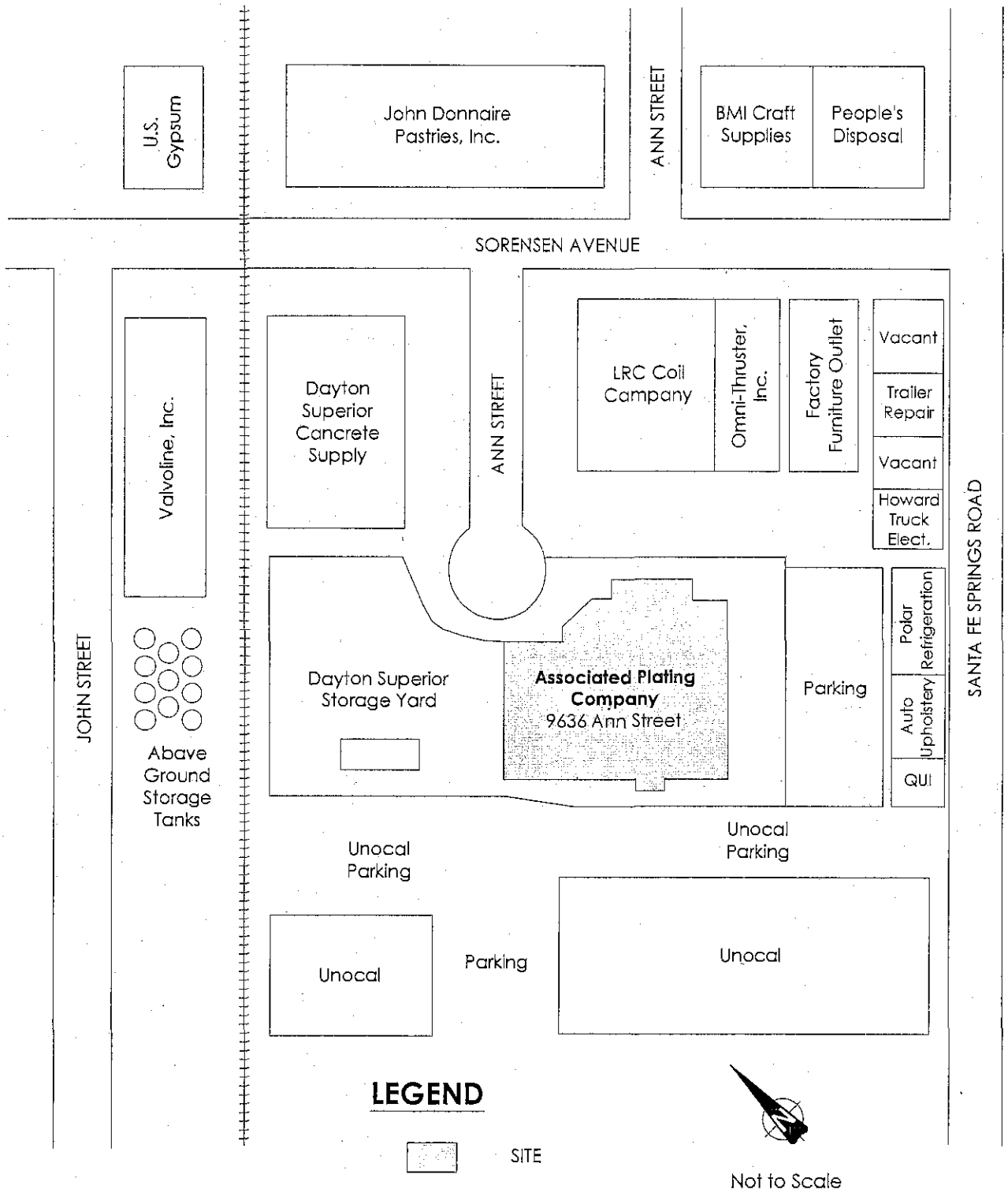


ASSOCIATED PLATING COMPANY
9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

WorleyParsons Komex
resources & energy

SITE PLAN SHOWING BOREHOLE AND MONITORING WELL LOCATIONS

DRAWN BY	EDITED BY	DATE
JH	JH	4/2006
APPROVED: LP		1



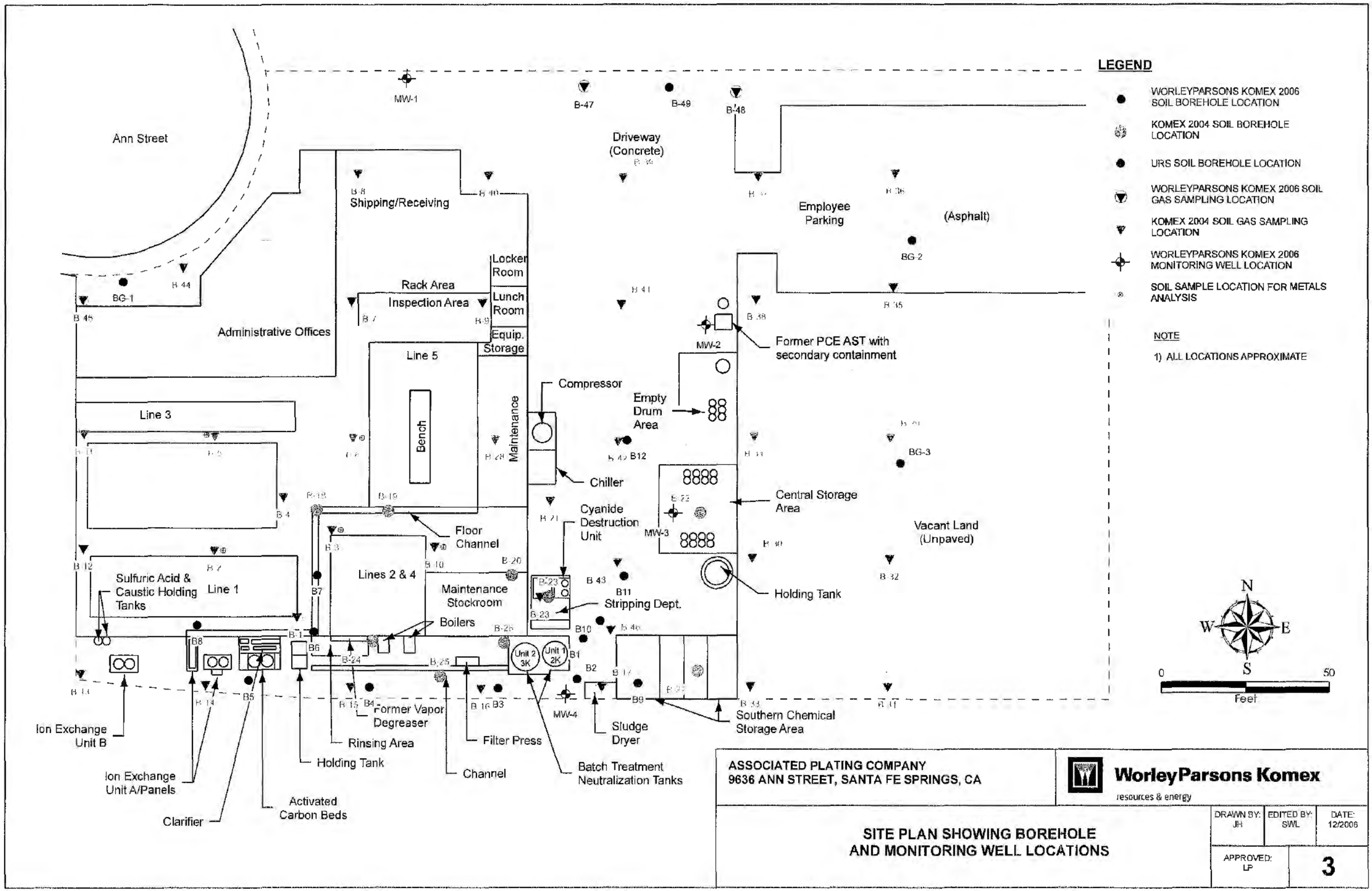
ASSOCIATED PLATING COMPANY
9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

WorleyParsons Komex
resources & energy

SITE VICINITY MAP

DRAWN BY:	EDITED BY:	DATE:
JH	JH	10/2006
APPROVED: LP		2

Date: 10/11/2006 Filename: X:\H20 PROJECTS\280-289\287 - APCI\AUTOCAD-2006\2006 Q 3\H0287 Fig 02 - VICINITY MAP.dwg

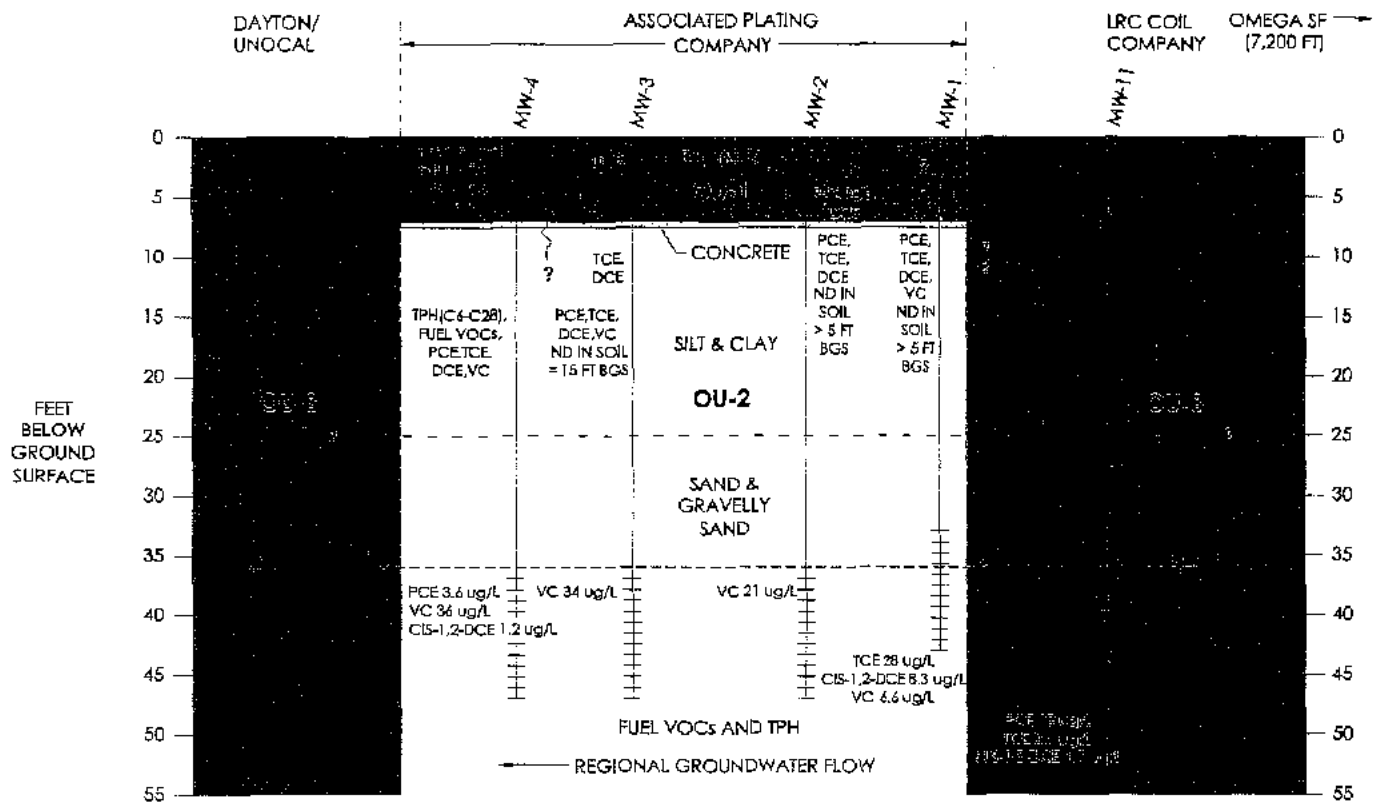


ASSOCIATED PLATING COMPANY
9636 ANN STREET, SANTA FE SPRINGS, CA

WorleyParsons Komex
resources & energy

SITE PLAN SHOWING BOREHOLE AND MONITORING WELL LOCATIONS

DRAWN BY: JH	EDITED BY: SWL	DATE: 12/2006
APPROVED: LP	3	



LEGEND

- OU-1 (OPERABLE UNIT 1)
- OU-2 (OPERABLE UNIT 2)
- OU-3 (OPERABLE UNIT 3)
- POTENTIAL MIGRATION PATHWAYS
- WATER TABLE SURFACE
- LITHOLOGIC CONTACT
- GROUNDWATER MONITORING WELL SCREENED INTERVAL

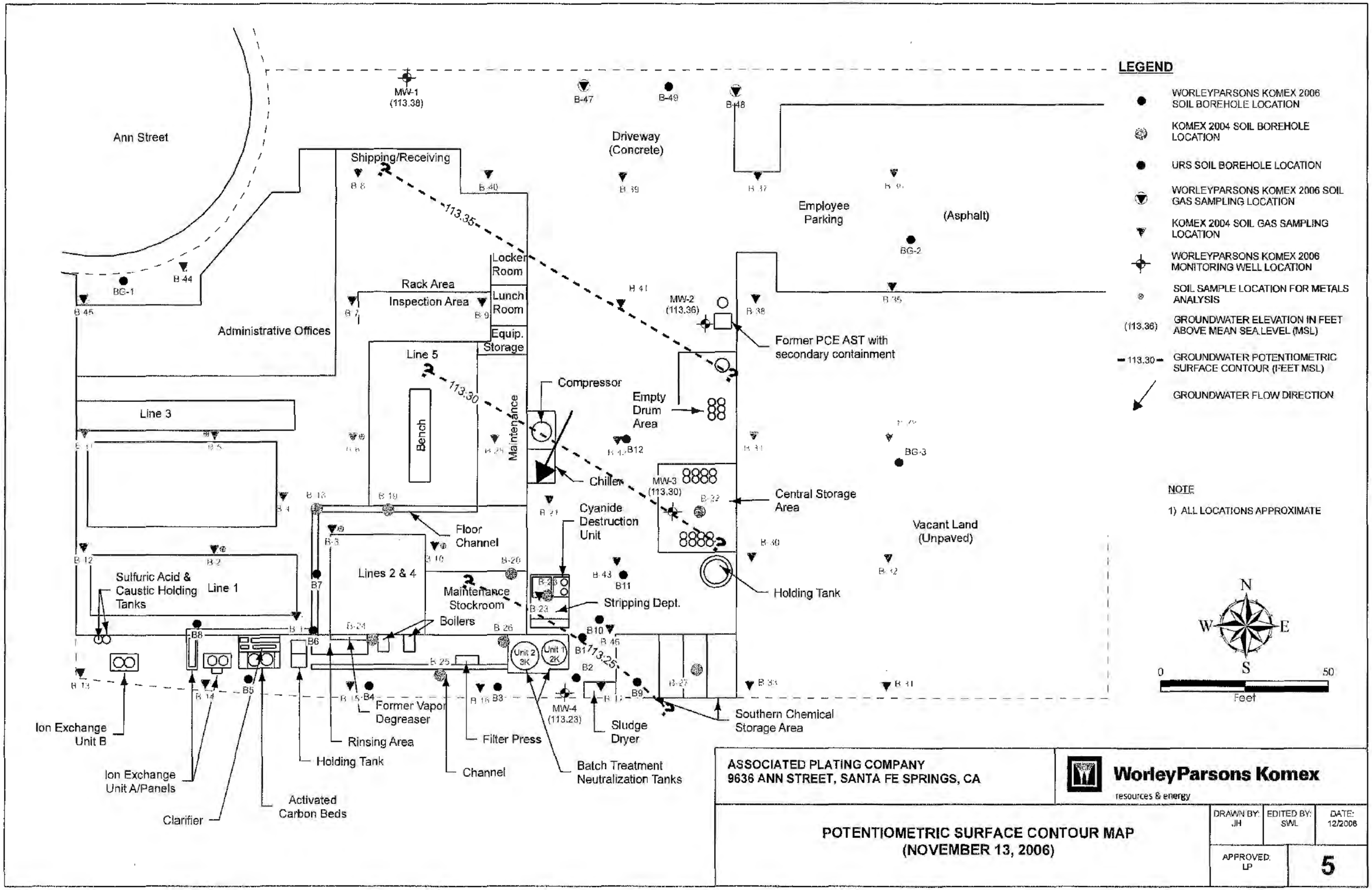
NOTES
1) ALL LOCATIONS ARE APPROXIMATE
2) LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
3) TPH = TOTAL PETROLEUM HYDROCARBONS
4) VOCs = VOLATILE ORGANIC COMPOUNDS
5) PCE = TETRACHLOROETHENE
6) TCE = TRICHLOROETHENE
7) DCE = DICHLOROETHENE
8) VC = VINYL CHLORIDE
9) ND = COMPOUND NOT DETECTED
10) FT BGS = FEET BELOW GROUND SURFACE
11) ug/L = MICROGRAMS PER LITER

ASSOCIATED PLATING COMPANY
9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

WorleyParsons Komex
resources & energy

SITE CONCEPTUAL MODEL AND PROPOSED OPERABLE UNITS

DRAWN BY	EDITED BY	DATE
CT	JH	12/2006
APPROVED		
LP		4

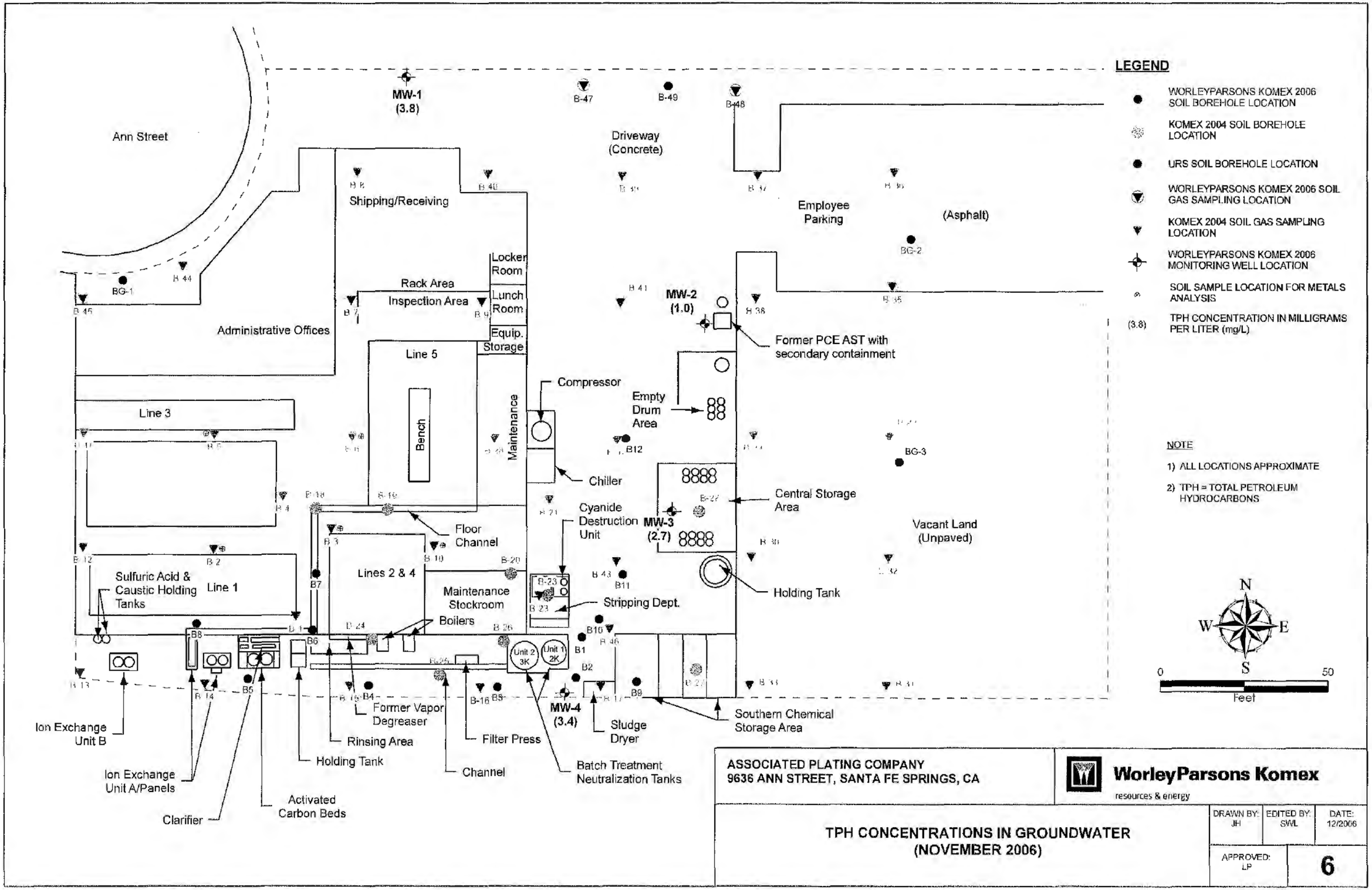


ASSOCIATED PLATING COMPANY
9636 ANN STREET, SANTA FE SPRINGS, CA

WorleyParsons Komex
resources & energy

POTENTIOMETRIC SURFACE CONTOUR MAP
(NOVEMBER 13, 2006)

DRAWN BY: JH	EDITED BY: SWL	DATE: 12/2006
APPROVED: LP		5

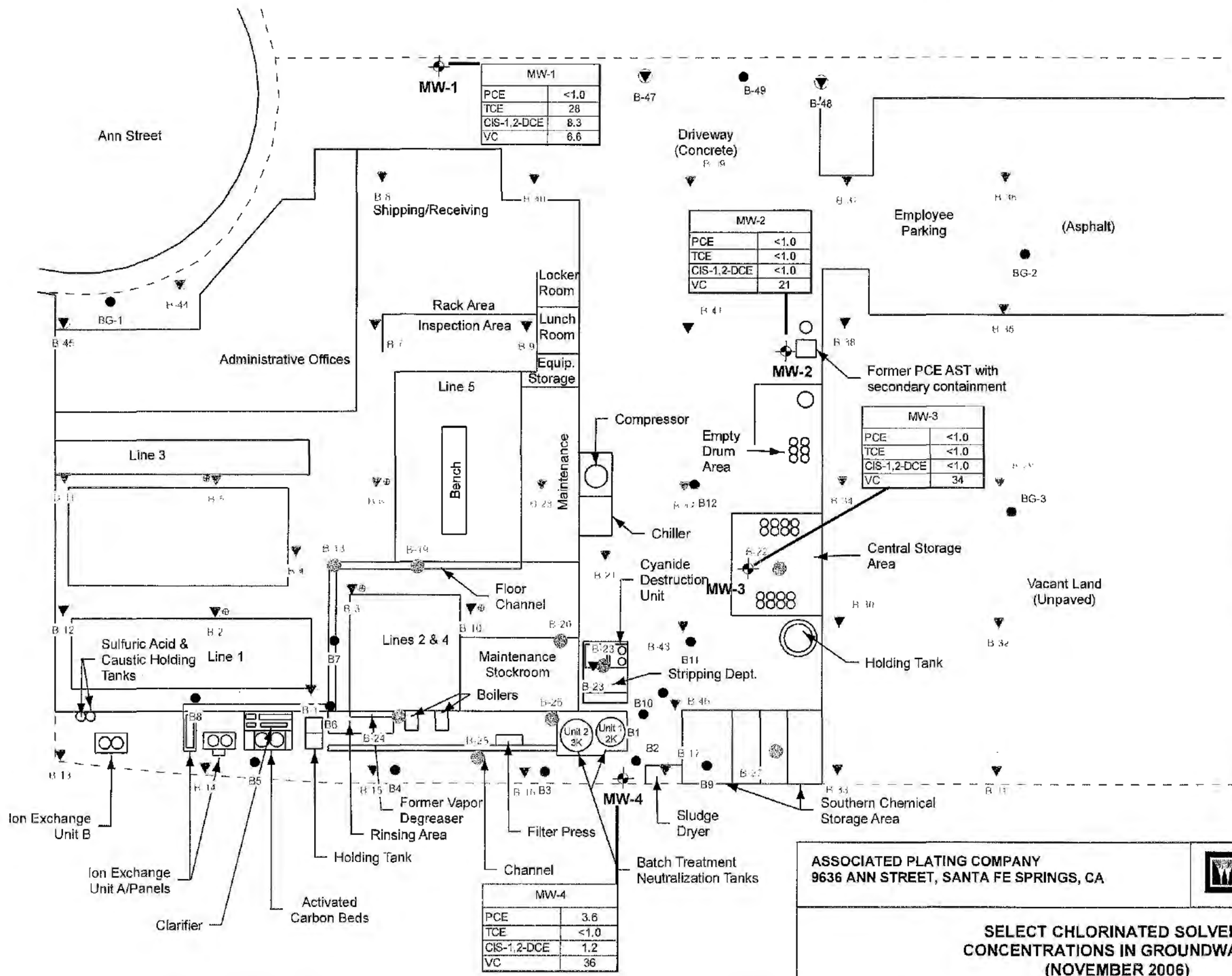


ASSOCIATED PLATING COMPANY
9636 ANN STREET, SANTA FE SPRINGS, CA

WorleyParsons Komex
resources & energy

TPH CONCENTRATIONS IN GROUNDWATER
(NOVEMBER 2006)

DRAWN BY: JH	EDITED BY: SWL	DATE: 12/2006
APPROVED: LP		6



LEGEND

- WORLEYPARSONS KOMEX 2006 SOIL BOREHOLE LOCATION
- KOMEX 2004 SOIL BOREHOLE LOCATION
- URS SOIL BOREHOLE LOCATION
- WORLEYPARSONS KOMEX 2006 SOIL GAS SAMPLING LOCATION
- KOMEX 2004 SOIL GAS SAMPLING LOCATION
- WORLEYPARSONS KOMEX 2006 MONITORING WELL LOCATION
- SOIL SAMPLE LOCATION FOR METALS ANALYSIS
- 8.3 CONCENTRATION IN MICROGRAMS PER LITER (µg/L)
- <1.0 COMPOUND WAS NOT DETECTED AT OR ABOVE THE SPECIFIED LABORATORY REPORTING LIMIT (µg/L)

NOTE

1) ALL LOCATIONS ARE APPROXIMATE
2) PCE = TETRACHLOROETHENE
3) TCE = TRICHLOROETHENE
4) CIS-1-2DCE = CIS 1,2 DICHLOROETHENE
5) VC = VINYL CHLORIDE

ASSOCIATED PLATING COMPANY
9636 ANN STREET, SANTA FE SPRINGS, CA

WorleyParsons Komex
resources & energy

SELECT CHLORINATED SOLVENT CONCENTRATIONS IN GROUNDWATER (NOVEMBER 2006)

DRAWN BY: JH	EDITED BY: SWL	DATE: 12/2006
APPROVED: LP		7

Appendix A Monitoring Well Sampling Forms

WorleyParsons Komex
resources & energy

FLUID LEVEL MEASUREMENTS

STAFF: L. Paprocki + R. Holliday
DATE: 11/13/06
LOCATION: APC, 9636 Ann St, Santa Fe Springs
DAY: S S (M) T W T F
SITE CONDITONS / WEATHER: Sunny
PROJECT NAME: APC
OTHER:
PROJECT / TASK NUMBER: H0287D020
DATUM: (ie. Feet MSL, benchmark etc.): Feet MSL
Instrument: Solinst

Time	Well No.	Measuring Pt. Elev.[1] Feet ____	Depth Measurements: To Product (Feet below measuring point)	To Water	To Bottom	Product Thickness Feet	Water Elevation[1] Feet ____	Comments: Conditions of well box, water in box, lack of measuring point, etc.
8:32	MW-1		—	33.55		sheen		well boxes in good condition
8:36	MW-2		—	36.05		sheen		" "
8:38	MW-3		37.37	37.38		.01		" "
8:43	MW-4		—	37.54		sheen		" "

REQUIRED ACTIONS:

PREPARED BY: L. Paprocki
REVIEWED BY:
DISTRIBUTED TO:

* Indicate if Elevations are relative to MSL or other datum (ie. Feet MSL)

draft excel forms / Fluid levels

WorleyParsons Komex
resources & energy

WATER SAMPLING RECORD

STAFF: L. Paprocki + B. Holliday DATE: 11/13/06
SITE: APC, 9836 Ann St, Santa Fe Springs DAY: S S (M) T W T F
SITE CONDITONS / WEATHER: Sunny PROJECT NAME: APC
OTHER: PROJECT / TASK NUMBER: H0287D020

WELL ID: MW-1

Well Condition:	(Good)	Fair	Poor	Needs Service
Well Head Seal:	(Good)	Fair	Leaky	Needs Replace
Water Odor:	None	Weak	Strong	Type [2]

Well Diameter (inches): 2"
Static Depth [1] to Product: Time:
Static Depth * to Water: 33.55 Time: 8:32
Depth * to Bottom: 43
Height of Water (feet) 9.45
One Well Volume (gal): 1.5 Total Purge Vol. [3]: 4.54
Depth to 80% recovery: 35.44

Vol. Calc.:
- [x] 2 inch diameter: Vol (gal) = Water Height x 0.16
- [ ] 4 inch diameter: Vol (gal) = Water Height x 0.65
- [ ] 5 inch diameter: Vol (gal) = Water Height x 1.02
- [ ] 6 inch diameter: Vol (gal) = Water Height x 1.47

Recovery Calc: = Static Depth to Water + (Height of Water x 0.20)

PURGE
- [x] ~~Submersible~~ electric (monsoon) Pump
- [ ] Dedicated Pump
- [ ] Hand Bailer - Disposable
- [ ] Quickie Bailer
- [ ] Hand Bailer - PVC

Depth to Pump Intake (feet bmp):

Time	Depth To Water (cm/mm)	Volume Purged	Temp °C	Conductivity mS/cm	Turbid. NTU	pH units	Color units	Other units
8:56	33.55	0.1	19.2	2.14	160	6.70		
8:58		0.5	20.1	2.10	298	6.88		
9:00		1.5	21.0	2.08	379	6.95		
9:01	33.70	2	21.4	2.08	260	6.97		
9:02		3	21.6	2.06	266	6.98		
9:03		3.5	21.5	2.06	220	6.99		
9:04		4.25	21.8	2.06	199	6.95		
9:05	33.68	5	21.9	2.07	290	6.95		
9:06		5.5	22.0	2.07	246	6.95		

SAMPLING
- [ ] Submersible Pump
- [ ] Dedicated Pump
- [ ] Disposable Bailer
- [ ] Teflon Bailer
- [x] Other: Monsoon Pump

9:10 Depth to Water @ Sampling (feet bmp): 33.68

Sample No.: MW1-111304 — [3] Number of VOAs — [1] No. Other Bottles: 1L Amber
- [ ] Duplicate: ____ Number of VOAs ____ No. Other Bottles: ____
- [ ] Trip Blank: ____ Number of VOAs ____ No. Other Bottles: ____

PREPARED BY: L. Paprocki REVIEWED BY: DISTRIBUTED TO:

1 Depth in feet below measurement point (bmp)
2 Indicate odor type (H/C - hydrocarbon, Sweet, Sulfide, etc.)
draft excel forms / Water Sampling

80% recovery = 35.44

WorleyParsons Komex
resources & energy

WATER SAMPLING RECORD

STAFF: L. Paprocki + R. Holliday DATE: 11/13/06
SITE: APC, 9636 Ann St, Santa Fe Springs DAY: S S (M) T W T F
SITE CONDITONS / WEATHER: Sunny PROJECT NAME: APC
OTHER: PROJECT / TASK NUMBER: H0287D020

WELL ID: MW-2

Well Condition:	(Good)	Fair	Poor	Needs Service
Well Head Seal:	(Good)	Fair	Leaky	Needs Replace
Water Odor:	None	Weak	Strong	Type [2] ____

Well Diameter (inches): 2"
Static Depth [1] to Product: ____ Time: ____
Static Depth * to Water: 36.05 Time: 8:36
Depth * to Bottom: 47
Height of Water (feet) 10.95
One Well Volume (gal): 1.75 Total Purge Vol. [3]: 5.25
Depth to 80% recovery: 38.24

Vol. Calc.:
- [✓] 2 inch diameter: Vol (gal) = Water Height x 0.16
- [ ] 4 inch diameter: Vol (gal) = Water Height x 0.65
- [ ] 5 inch diameter: Vol (gal) = Water Height x 1.02
- [ ] 6 inch diameter: Vol (gal) = Water Height x 1.47

Recovery Calc: = Static Depth to Water + (Height of Water x 0.20)

PURGE
- [✓] Submersible Pump (electric Monsoon)
- [ ] Dedicated Pump
- [ ] Hand Bailer - Disposable
- [ ] Quickie Bailer
- [ ] Hand Bailer - PVC

Depth to Pump Intake (feet bmp): ____

Time	Depth To Water	Volume Purged	Temp °C	Conductivity mS/cm	Turbid. ntu	pH units	Color units	Other units
9:37	w/pump 36.01	0.1	18.5	1.65	663	7.20		
9:41		1.25	20.1	1.75	801	7.11		
9:44	37.14	2	20.9	1.79	48	7.14		
9:45		3.5	22.0	1.81	411	7.09		
9:46	37.12	4.25	22.5	1.82	86	7.08		
9:47	37.16	5.25	22.4	1.83	22	7.07		

SAMPLING
- [ ] Submersible Pump
- [ ] Dedicated Pump
- [ ] Disposable Bailer
- [ ] Teflon Bailer
- [✓] Other: electric Monsoon

Depth to Water @ Sampling (feet bmp): 37.16

Sample No.: MW2-111306 @ 9:48 [3] Number of VOAs [1] No. Other Bottles: TPH carbon range
- [ ] Duplicate: ____ [ ] Number of VOAs [ ] No. Other Bottles: ____
- [ ] Trip Blank: ____ [ ] Number of VOAs [ ] No. Other Bottles: ____

PREPARED BY: L. Paprocki REVIEWED BY: ____ DISTRIBUTED TO: ____

purge rate 0.6

1 Depth in feet below measurement point (bmp)
2 Indicate odor type (H/C - hydrocarbon, Sweet, Sulfide, etc.)
draft excel forms / Water Sampling

WorleyParsons Komex
resources & energy

WATER SAMPLING RECORD

STAFF: L. Paprocki + R. Holliday DATE: 11/13/06
SITE: APC, 9636 Ann St, Santa Fe Springs DAY: S S (M) T W T F
SITE CONDITONS / WEATHER: Sunny PROJECT NAME: APC
OTHER: PROJECT / TASK NUMBER: H0287D020

WELL ID: MW-3

Well Condition:	(Good)	Fair	Poor	Needs Service
Well Head Seal:	(Good)	Fair	Leaky	Needs Replace
Water Odor:	None	Weak	Strong	Type [2]

Well Diameter (inches): 2"
Static Depth [1] to Product: 37.37 Time:
Static Depth * to Water: 37.38 Time:
Depth * to Bottom: 47
Height of Water (feet) 9.62
One Well Volume (gal): 1.54 Total Purge Vol.*: 4.6
Depth to 80% recovery: 39.30

Vol. Calc.:
- [x] 2 inch diameter: Vol (gal) = Water Height x 0.16
- [ ] 4 inch diameter: Vol (gal) = Water Height x 0.65
- [ ] 5 inch diameter: Vol (gal) = Water Height x 1.02
- [ ] 6 inch diameter: Vol (gal) = Water Height x 1.47

Recovery Calc: = Static Depth to Water + (Height of Water x 0.20)

PURGE
- [x] ~~Submersible~~ electric monsoon Pump
- [ ] Dedicated Pump
- [ ] Hand Bailer - Disposable
- [ ] Quickle Bailer
- [ ] Hand Bailer - PVC

Depth to Pump Intake (feet bmp):

Time	Depth To Water	Volume Purged	Temp °C	Conductivity mS/cm	Turbid. NTU	pH units	Color units	Other units
10:15	37.37	0.1	20.9	.767	274	7.05		
10:17	37.45	1.5	22.0	1.90	162	6.96		
10:18		2.75	22.5	1.94	378	6.98		
10:19	37.70	3.5	22.6	1.95	260	6.97		
10:20		4.25	22.4	1.95	607	6.99		
10:21	37.65	5.0	22.6	1.95	107	6.99		

SAMPLING
- [ ] Submersible Pump
- [ ] Dedicated Pump
- [ ] Disposable Bailer
- [ ] Teflon Bailer
- [x] Other: monsoon pump

Depth to Water @ Sampling (feet bmp): 37.65

Sample No.: MW3-111306 @ 10:22 — [2] Number of VOAs — [1] No. Other Bottles: TPH - carbon range (1 L amber)
- [ ] Duplicate: — [ ] Number of VOAs — [ ] No. Other Bottles:
- [ ] Trip Blank: — [ ] Number of VOAs — [ ] No. Other Bottles:

PREPARED BY: L. Paprocki REVIEWED BY: DISTRIBUTED TO:

1 Depth in feet below measurement point (bmp)
2 Indicate odor type (H/C - hydrocarbon, Sweet, Sulfide, etc.)

Purging at ~1.2 gpm

WorleyParsons Komex
resources & energy

WATER SAMPLING RECORD

STAFF: L. Paprocki + B. Holliday DATE: 11/13/06
SITE: APC DAY: S S (M) T W T F
SITE CONDITONS / WEATHER: Sunny PROJECT NAME: APC
OTHER: PROJECT / TASK NUMBER: H0257 D020

WELL ID: MW-4

Well Condition:	(Good)	Fair	Poor	Needs Service
Well Head Seal:	(Good)	Fair	Leaky	Needs Replace
Water Odor:	None	Weak	Strong	Type [2] ____

Well Diameter (inches): 2"
Static Depth [1] to Product: 37.53 Time: 9:43
Static Depth * to Water: 37.535 Time: 9:43
Depth * to Bottom: 47
Height of Water (feet) 9.47
One Well Volume (gal): 1.52 Total Purge Vol. [3]: 4.5
Depth to 80% recovery: 39.43

Vol. Calc.:
- [✓] 2 inch diameter: Vol (gal) = Water Height x 0.16
- [ ] 4 inch diameter: Vol (gal) = Water Height x 0.65
- [ ] 5 inch diameter: Vol (gal) = Water Height x 1.02
- [ ] 6 inch diameter: Vol (gal) = Water Height x 1.47

Recovery Calc: = Static Depth to Water + (Height of Water x 0.20)

PURGE
- [✓] ~~Submersible~~ electric monsoon Pump
- [ ] Dedicated Pump
- [ ] Hand Bailer - Disposable
- [ ] Quickie Bailer
- [ ] Hand Bailer - PVC

Depth to Pump Intake (feet bmp): ____

Time	Depth To Water (bmp)	Volume gal Purged	Temp °C	Conductivity mS/cm	Turbid. ntu	pH units	Color units	Other units
10:40	37.52	0.1	18.5	1.48	831	7.28		
10:42	37.74	1.5	19.5	1.64	294	7.16		
10:43		2.5	21.0	1.87	112	7.08		
10:44	37.82	3.5	22.2	1.90	62	7.05		
10:45	37.70	4.5	21.4	1.91	49	7.04		

SAMPLING
- [ ] Submersible Pump
- [ ] Dedicated Pump
- [ ] Disposable Bailer
- [ ] Teflon Bailer
- [✓] Other: Monsoon pump

Depth to Water @ Sampling (feet bmp): 37.70

Sample No.: MW4-111306 @ 10:50 [2] Number of VOAs [1] No. Other Bottles: TPH - 1L Amber
- [ ] Duplicate: ____ [ ] Number of VOAs [ ] No. Other Bottles: ____
- [ ] Trip Blank ____ [ ] Number of VOAs [ ] No. Other Bottles: ____

PREPARED BY: L. Paprocki REVIEWED BY: ____ DISTRIBUTED TO: ____

1 Depth in feet below measurement point (bmp)
2 Indicate odor type (H/C - hydrocarbon, Sweet, Sulfide, etc.)

~1 gpm Purge rate

Appendix B Waste Manifest

NON-HAZARDOUS WASTE DATA FORM

TO BE COMPLETED BY GENERATOR NO.

Name: Associated Plating Co. Site:

Mailing Address: 9636 Ann St. Address: Same

City, State, Zip: Santa Fe Springs, Ca. 90670 City:

Phone: 562-946-5525

Containers: no. 2 DM Volume: 100 Gal Weight:

TYPE: Tank Truck ☐ Dump Truck ☐ Drums ☒ Roll Off ☐

Waste Description Water Generating Process Well Purging/Decon

Components of Waste	PPM	%	Components of Waste	PPM	%
1 Water		100	5		
2			6		
3			7		
4			8		

Properties: ph N Solid ☐ Liquid ☒ Sludge ☐

Handling Instructions: Wear appropriate protective clothing TPH-9162

The generator certifies that the waste as described is 100% non-hazardous.

Printed Name On behalf of Associated plating Judi R Pivetti

Signature Judi R Pivetti Date 12/20/06

Transporter

Name: PFR ENVIRONMENTAL Name:

Address: 14266 DALEWOOD ST Address:

City, State, Zip: BALDWIN PK, CA 91706 City, State, Zip:

Phone: 626) 960-6106 Phone:

Printed Name PAT KUSACKAS Printed Name

Signature [illegible] Date 12/21/06 Signature Date

TSD FACILITY

Name: Siemens Water Technologies Corp. Profile No. AP 166615

Address: 5375 South Boyle Ave. Landfill ☐ Other ☐

City, State, Zip: Los Angeles, Ca. 90058 Phone:

Tons/Gals Rec'd

Signature Date

Appendix C Laboratory Analytical Report

SIERRA ANALYTICAL

Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1-111306	0611244-01	Liquid	11/13/06 09:10	11/13/06 14:50
MW2-111306	0611244-02	Liquid	11/13/06 09:48	11/13/06 14:50
MW3-111306	0611244-03	Liquid	11/13/06 10:22	11/13/06 14:50
MW4-111306	0611244-04	Liquid	11/13/06 10:50	11/13/06 14:50
EB-111306	0611244-05	Liquid	11/13/06 10:00	11/13/06 14:50
FB-111306	0611244-06	Liquid	11/13/06 09:55	11/13/06 14:50
TB-111306	0611244-07	Liquid	11/13/06 00:00	11/13/06 14:50

CASE NARRATIVE

SAMPLE RECEIPT:	Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.
PRESERVATION:	Samples requiring preservation were verified prior to sample preparation and analysis.
HOLDING TIMES:	All holding times were met, unless otherwise noted in the report with data qualifiers.
QA/QC CRITERIA:	All quality objective criteria were met, except as noted in the report with data qualifiers.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

SIERRA ANALYTICAL

Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Hydrocarbons by Headspace GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-111306 (0611244-01) Liquid	**Sampled: 11/13/06 09:10**	**Received: 11/13/06 14:50**							
Methane	**260**	25	µg/L	5	B6K1713	11/17/06	11/17/06	EPA 8015B	
Ethane	ND	5.0	"	1	"	"	"	"	
Ethene	ND	5.0	"	"	"	"	"	"	
MW2-111306 (0611244-02) Liquid	**Sampled: 11/13/06 09:48**	**Received: 11/13/06 14:50**							
Methane	**840**	50	µg/L	10	B6K1713	11/17/06	11/17/06	EPA 8015B	
Ethane	ND	5.0	"	1	"	"	"	"	
Ethene	ND	5.0	"	"	"	"	"	"	
MW3-111306 (0611244-03) Liquid	**Sampled: 11/13/06 10:22**	**Received: 11/13/06 14:50**							
Methane	**2700**	50	µg/L	10	B6K1713	11/17/06	11/17/06	EPA 8015B	
Ethane	ND	5.0	"	1	"	"	"	"	
Ethene	ND	5.0	"	"	"	"	"	"	
MW4-111306 (0611244-04) Liquid	**Sampled: 11/13/06 10:50**	**Received: 11/13/06 14:50**							
Methane	**1900**	50	µg/L	10	B6K1713	11/17/06	11/17/06	EPA 8015B	
Ethane	ND	5.0	"	1	"	"	"	"	
Ethene	ND	5.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

26052 MERIT CIRCLE SUITE 105, LAGUNA HILLS, CALIFORNIA 92653
TELEPHONE: (949) 348-9389 FAX: (949) 348-9115
E-MAIL: SIERRALABS @ SIERRALABS.NET

SIERRA ANALYTICAL

Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-111306 (0611244-01) Liquid Sampled: 11/13/06 09:10 Received: 11/13/06 14:50									
HC < C8	ND	0.010	mg/L	1	B6K1622	11/15/06	11/16/06	EPA 8015B	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	**0.010**	0.010	"	"	"	"	"	"	
C10 <= HC < C11	**0.029**	0.010	"	"	"	"	"	"	
C11 <= HC < C12	**0.047**	0.010	"	"	"	"	"	"	
C12 <= HC < C14	**0.28**	0.010	"	"	"	"	"	"	
C14 <= HC < C16	**0.42**	0.010	"	"	"	"	"	"	
C16 <= HC < C18	**0.50**	0.010	"	"	"	"	"	"	
C18 <= HC < C20	**0.29**	0.010	"	"	"	"	"	"	
C20 <= HC < C24	**0.71**	0.010	"	"	"	"	"	"	
C24 <= HC < C28	**0.84**	0.010	"	"	"	"	"	"	
C28 <= HC < C32	**0.62**	0.010	"	"	"	"	"	"	
HC >= C32	**0.037**	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	**3.8**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*136 %*	*60-175*		"	"	"	"	
MW2-111306 (0611244-02) Liquid Sampled: 11/13/06 09:48 Received: 11/13/06 14:50									
HC < C8	**0.014**	0.010	mg/L	1	B6K1622	11/15/06	11/16/06	EPA 8015B	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	**0.015**	0.010	"	"	"	"	"	"	
C11 <= HC < C12	**0.028**	0.010	"	"	"	"	"	"	
C12 <= HC < C14	**0.17**	0.010	"	"	"	"	"	"	
C14 <= HC < C16	**0.16**	0.010	"	"	"	"	"	"	
C16 <= HC < C18	**0.14**	0.010	"	"	"	"	"	"	
C18 <= HC < C20	**0.18**	0.010	"	"	"	"	"	"	
C20 <= HC < C24	**0.083**	0.010	"	"	"	"	"	"	
C24 <= HC < C28	**0.074**	0.010	"	"	"	"	"	"	
C28 <= HC < C32	**0.16**	0.010	"	"	"	"	"	"	
HC >= C32	**0.010**	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	**1.0**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*111 %*	*60-175*		"	"	"	"	

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SIERRA ANALYTICAL

Worley Parsons Komex 5455 Garden Grove Blvd. Suite 200 Westminster CA, 92683	Project: APC Project Number: H0287D Project Manager: Lee Paprocki	Reported: 11/28/06 15:42

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3-111306 (0611244-03) Liquid Sampled: 11/13/06 10:22 Received: 11/13/06 14:50									
HC < C8	0.033	0.010	mg/L	1	B6K1622	11/15/06	11/16/06	EPA 8015B	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	0.018	0.010	"	"	"	"	"	"	
C10 <= HC < C11	0.089	0.010	"	"	"	"	"	"	
C11 <= HC < C12	0.091	0.010	"	"	"	"	"	"	
C12 <= HC < C14	0.44	0.010	"	"	"	"	"	"	
C14 <= HC < C16	0.43	0.010	"	"	"	"	"	"	
C16 <= HC < C18	0.37	0.010	"	"	"	"	"	"	
C18 <= HC < C20	0.27	0.010	"	"	"	"	"	"	
C20 <= HC < C24	0.34	0.010	"	"	"	"	"	"	
C24 <= HC < C28	0.32	0.010	"	"	"	"	"	"	
C28 <= HC < C32	0.27	0.010	"	"	"	"	"	"	
HC >= C32	0.017	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	2.7	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*147 %*		*60-175*	"	"	"	"	
MW4-111306 (0611244-04) Liquid Sampled: 11/13/06 10:50 Received: 11/13/06 14:50									
HC < C8	0.060	0.010	mg/L	1	B6K1622	11/15/06	11/16/06	EPA 8015B	
C8 <= HC < C9	0.010	0.010	"	"	"	"	"	"	
C9 <= HC < C10	0.040	0.010	"	"	"	"	"	"	
C10 <= HC < C11	0.13	0.010	"	"	"	"	"	"	
C11 <= HC < C12	0.12	0.010	"	"	"	"	"	"	
C12 <= HC < C14	0.68	0.010	"	"	"	"	"	"	
C14 <= HC < C16	0.46	0.010	"	"	"	"	"	"	
C16 <= HC < C18	0.42	0.010	"	"	"	"	"	"	
C18 <= HC < C20	0.27	0.010	"	"	"	"	"	"	
C20 <= HC < C24	0.48	0.010	"	"	"	"	"	"	
C24 <= HC < C28	0.43	0.010	"	"	"	"	"	"	
C28 <= HC < C32	0.30	0.010	"	"	"	"	"	"	
HC >= C32	0.019	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	3.4	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*130 %*		*60-175*	"	"	"	"	

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SIERRA ANALYTICAL

Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EB-111306 (0611244-05) Liquid Sampled: 11/13/06 10:00 Received: 11/13/06 14:50									
HC < C8	ND	0.010	mg/L	1	B6K1622	11/15/06	11/16/06	EPA 8015B	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
C12 <= HC < C14	ND	0.010	"	"	"	"	"	"	
C14 <= HC < C16	ND	0.010	"	"	"	"	"	"	
C16 <= HC < C18	**0.038**	0.010	"	"	"	"	"	"	
C18 <= HC < C20	**0.048**	0.010	"	"	"	"	"	"	
C20 <= HC < C24	**0.089**	0.010	"	"	"	"	"	"	
C24 <= HC < C28	**0.064**	0.010	"	"	"	"	"	"	
C28 <= HC < C32	**0.080**	0.010	"	"	"	"	"	"	
HC >= C32	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	**0.32**	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*109 %*	*60-175*		"	"	"	"	
FB-111306 (0611244-06) Liquid Sampled: 11/13/06 09:55 Received: 11/13/06 14:50									
HC < C8	ND	0.010	mg/L	1	B6K1622	11/15/06	11/16/06	EPA 8015B	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
C12 <= HC < C14	ND	0.010	"	"	"	"	"	"	
C14 <= HC < C16	ND	0.010	"	"	"	"	"	"	
C16 <= HC < C18	ND	0.010	"	"	"	"	"	"	
C18 <= HC < C20	ND	0.010	"	"	"	"	"	"	
C20 <= HC < C24	ND	0.010	"	"	"	"	"	"	
C24 <= HC < C28	ND	0.010	"	"	"	"	"	"	
C28 <= HC < C32	ND	0.010	"	"	"	"	"	"	
HC >= C32	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*158 %*	*60-175*		"	"	"	"	

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SIERRA ANALYTICAL

Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-111306 (0611244-01) Liquid Sampled: 11/13/06 09:10 Received: 11/13/06 14:50									
Benzene	ND	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**8.3**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**4.0**	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	**2.0**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**1.0**	1.0	"	"	"	"	"	"	

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SIERRA ANALYTICAL

Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1-111306 (0611244-01) Liquid	**Sampled: 11/13/06 09:10**	**Received: 11/13/06 14:50**							
Naphthalene	ND	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	**15**	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	**28**	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**6.6**	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.8 %*	*86-118*		"	"	"	"	
Surrogate: Toluene-d8		*94.2 %*	*88-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*	*86-115*		"	"	"	"	
MW2-111306 (0611244-02) Liquid	**Sampled: 11/13/06 09:48**	**Received: 11/13/06 14:50**							
Benzene	**2.8**	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**8.9**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**1.4**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	

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Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2-111306 (0611244-02) Liquid	**Sampled: 11/13/06 09:48**	**Received: 11/13/06 14:50**							
1,2-Dibromo-3-chloropropane	ND	5.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**44**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	**2.9**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.4**	1.0	"	"	"	"	"	"	
Naphthalene	**4.6**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**3.1**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	**10**	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**21**	1.0	"	"	"	"	"	"	

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SIERRA ANALYTICAL

Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW2-111306 (0611244-02) Liquid	**Sampled: 11/13/06 09:48**	**Received: 11/13/06 14:50**							
m,p-Xylene	ND	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.8 %*	*86-118*		"	"	"	"	
Surrogate: Toluene-d8		*93.6 %*	*88-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*86-115*		"	"	"	"	
MW3-111306 (0611244-03) Liquid	**Sampled: 11/13/06 10:22**	**Received: 11/13/06 14:50**							
Benzene	**3.4**	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**8.1**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**1.2**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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SIERRA ANALYTICAL

Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW3-111306 (0611244-03) Liquid	**Sampled: 11/13/06 10:22**	**Received: 11/13/06 14:50**							
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
Ethylbenzene	**1.1**	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**50**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**1.8**	1.0	"	"	"	"	"	"	
Naphthalene	**2.6**	1.0	"	"	"	"	"	"	
n-Propylbenzene	**4.8**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	**8.5**	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	**1.4**	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**34**	1.0	"	"	"	"	"	"	
m,p-Xylene	**1.6**	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.0 %*		*86-118*	"	"	"	"	
Surrogate: Toluene-d8		*94.2 %*		*88-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.2 %*		*86-115*	"	"	"	"	

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Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-111306 (0611244-04) Liquid Sampled: 11/13/06 10:50 Received: 11/13/06 14:50									
Benzene	**6.4**	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	**9.0**	1.0	"	"	"	"	"	"	
tert-Butylbenzene	**1.2**	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**1.2**	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	**59**	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	**2.6**	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.2**	1.0	"	"	"	"	"	"	

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SIERRA ANALYTICAL

Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4-111306 (0611244-04) Liquid Sampled: 11/13/06 10:50 Received: 11/13/06 14:50									
Naphthalene	ND	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
n-Propylbenzene	**7.0**	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	**3.6**	1.0	"	"	"	"	"	"	
Toluene	**6.6**	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	**36**	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.0 %*		*86-118*	"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*		*88-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*100 %*		*86-115*	"	"	"	"	
EB-111306 (0611244-05) Liquid Sampled: 11/13/06 10:00 Received: 11/13/06 14:50									
Benzene	ND	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	

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Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EB-111306 (0611244-05) Liquid Sampled: 11/13/06 10:00 Received: 11/13/06 14:50									
1,2-Dibromo-3-chloropropane	ND	5.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	**11**	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	

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Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EB-111306 (0611244-05) Liquid Sampled: 11/13/06 10:00 Received: 11/13/06 14:50									
m,p-Xylene	ND	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*98.0 %*	*86-118*		"	"	"	"	
Surrogate: Toluene-d8		*93.8 %*	*88-110*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*86-115*		"	"	"	"	
FB-111306 (0611244-06) Liquid Sampled: 11/13/06 09:55 Received: 11/13/06 14:50									
Benzene	ND	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	

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Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB-111306 (0611244-06) Liquid Sampled: 11/13/06 09:55 Received: 11/13/06 14:50									
trans-1,3-Dichloropropene	ND	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*94.4 %*		*86-118*	"	"	"	"	
Surrogate: Toluene-d8		*95.0 %*		*88-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*		*86-115*	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

26052 Merit Circle Suite 105, Laguna Hills, California 92653
Telephone: (949) 348-9389 Fax: (949) 348-9115
E-Mail: sierralabs @ sierralabs.net

Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-111306 (0611244-07) Liquid Sampled: 11/13/06 00:00 Received: 11/13/06 14:50									
Benzene	ND	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	

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SIERRA ANALYTICAL

Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB-111306 (0611244-07) Liquid Sampled: 11/13/06 00:00 Received: 11/13/06 14:50									
Naphthalene	ND	1.0	µg/L	1	B6K1604	11/15/06	11/16/06	EPA 8260B	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*95.4 %*		*86-118*	"	"	"	"	
Surrogate: Toluene-d8		*93.6 %*		*88-110*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*		*86-115*	"	"	"	"	

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Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Hydrocarbons by Headspace GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6K1713 - EPA 3810 Headspace										
Blank (B6K1713-BLK1)				Prepared & Analyzed: 11/17/06						
Methane	ND	5.0	µg/L							
Ethane	ND	5.0	"							
Ethene	ND	5.0	"							
LCS (B6K1713-BS1)				Prepared & Analyzed: 11/17/06						
Methane	51.0	5.0	µg/L	50.0		102	80-120			
Duplicate (B6K1713-DUP1)		**Source: 0611244-01**		Prepared & Analyzed: 11/17/06						
Methane	269	25	µg/L		260			3.40	30	

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Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6K1622 - EPA 3510C Sep Funnel										
Blank (B6K1622-BLK1)				Prepared: 11/15/06 Analyzed: 11/16/06						
HC < C8	ND	0.010	mg/L							
C8 <= HC < C9	ND	0.010	"							
C9 <= HC < C10	ND	0.010	"							
C10 <= HC < C11	ND	0.010	"							
C11 <= HC < C12	ND	0.010	"							
C12 <= HC < C14	ND	0.010	"							
C14 <= HC < C16	ND	0.010	"							
C16 <= HC < C18	ND	0.010	"							
C18 <= HC < C20	ND	0.010	"							
C20 <= HC < C24	ND	0.010	"							
C24 <= HC < C28	ND	0.010	"							
C28 <= HC < C32	ND	0.010	"							
HC >= C32	ND	0.010	"							
Total Petroleum Hydrocarbons (C7-C36)	ND	0.050	"							
Surrogate: o-Terphenyl	*0.126*		"	*0.100*		*126*	*60-175*			
LCS (B6K1622-BS1)				Prepared: 11/15/06 Analyzed: 11/16/06						
Diesel Range Organics (C10-C24)	0.509	0.050	mg/L	0.500		102	80-120			
LCS (B6K1622-BS2)				Prepared: 11/15/06 Analyzed: 11/16/06						
Diesel Range Organics (C10-C24)	0.421	0.050	mg/L	0.500		84.2	80-120			
LCS Dup (B6K1622-BSD1)				Prepared: 11/15/06 Analyzed: 11/16/06						
Diesel Range Organics (C10-C24)	0.425	0.050	mg/L	0.500		85.0	80-120	18.0	30	

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Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6K1604 - EPA 5030B P & T										
Blank (B6K1604-BLK1)				Prepared: 11/15/06 Analyzed: 11/16/06						
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	"							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	1.0	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	1.0	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	1.0	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	1.0	"							
trans-1,3-Dichloropropene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Hexachlorobutadiene	ND	1.0	"							

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Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6K1604 - EPA 5030B P & T										
Blank (B6K1604-BLK1)				Prepared: 11/15/06 Analyzed: 11/16/06						
Isopropylbenzene	ND	1.0	µg/L							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Toluene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
Surrogate: Dibromofluoromethane	*48.1*		"	*50.0*		*96.2*	*86-118*			
Surrogate: Toluene-d8	*47.7*		"	*50.0*		*95.4*	*88-110*			
Surrogate: 4-Bromofluorobenzene	*50.0*		"	*50.0*		*100*	*86-115*			
LCS (B6K1604-BS1)				Prepared & Analyzed: 11/15/06						
Benzene	49.8	1.0	µg/L	50.0		99.6	80-120			
Chlorobenzene	45.0	1.0	"	50.0		90.0	80-120			
1,1-Dichloroethene	40.5	1.0	"	50.0		81.0	80-120			
Toluene	41.6	1.0	"	50.0		83.2	80-120			
Trichloroethene	47.8	1.0	"	50.0		95.6	80-120			

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Worley Parsons Komex	Project: APC	
5455 Garden Grove Blvd. Suite 200	Project Number: H0287D	Reported:
Westminster CA, 92683	Project Manager: Lee Paprocki	11/28/06 15:42

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B6K1604 - EPA 5030B P & T										
Matrix Spike (B6K1604-MS1)		**Source: 0611244-07**		Prepared: 11/15/06 Analyzed: 11/16/06						
Benzene	38.5	1.0	µg/L	50.0	ND	77.0	37-151			
Chlorobenzene	43.2	1.0	"	50.0	ND	86.4	37-160			
1,1-Dichloroethene	36.2	1.0	"	50.0	ND	72.4	50-150			
Toluene	39.6	1.0	"	50.0	ND	79.2	47-150			
Trichloroethene	36.2	1.0	"	50.0	ND	72.4	71-157			
Matrix Spike Dup (B6K1604-MSD1)		**Source: 0611244-07**		Prepared: 11/15/06 Analyzed: 11/16/06						
Benzene	37.2	1.0	µg/L	50.0	ND	74.4	37-151	3.43	30	
Chlorobenzene	42.8	1.0	"	50.0	ND	85.6	37-160	0.930	30	
1,1-Dichloroethene	34.2	1.0	"	50.0	ND	68.4	50-150	5.68	30	
Toluene	39.0	1.0	"	50.0	ND	78.0	47-150	1.53	30	
Trichloroethene	35.7	1.0	"	50.0	ND	71.4	71-157	1.39	30	

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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

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SIERRA ANALYTICAL
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CHAIN OF CUSTODY RECORD

Date: 11/13/06 Page: 1 of 1

Lab Work Order No.: 0611244

Client: WorleyParsons Komex
Client Address: 5455 Garden Grove Blvd, Second Floor
Westminster, CA 92683

Client Tel. No.: (714) 379-1157
Client Fax. No.: (714) 379-1160
Client Proj. Mgr.: Lee Paprocki

Client Project ID: H0287D - APC

Turn Around Time Requested: ☐ Immediate ☐ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 4 Day ☐ 5 Day ☒ Normal ☐ Mobile

Analyses Requested

Geotracker EDD Info:
Client LOGCODE
Site Global ID

Client Sample ID.	Sierra No.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	8260B Full VOCs, no oxygenates	8015B ethene analysis	8015B TPH carbon range C7-C36	8015B ethane ahalysis								Field Point Names / Comments
MW1-111306	01	11/13/06	9:10	GW	HCL and none	1L amber and 3 voas	4	X	X	X									
MW2-111306	02	11/13/06	9:49	GW	HCL and none	1L amber and 3 voas	4	X	X	X									
MW3-111306	03	11/13/06	10:22	GW	HCL and none	1L amber and 3 voas	4	X	X	X									
MW4-111306	04	11/13/06	10:50	GW	HCL and none	1L amber and 3 voas	4	X	X	X									
EB-111306	05	11/13/06	10:00	W	HCL and none	1L amber and 3 voas	4	X		X									
FB-111306	06	11/13/06	9:55	W	HCL and none	1L amber and 3 voas	4	X		X									
TB-111306	07	11/13/06	—	W	HCL	1 voa	1	X											

1 Sampler Signature: Lee Paprocki
Printed Name: Lee Paprocki
Shipped Via: (Carrier/Waybill No.)

2 Relinquished By: Lee Paprocki Date: 11/13/06 Time: 2:50 Company: WorleyParsons Komex
Received By: John Phillips Date: 11/13/06 Time: 2:50 Company: Sierra

3 Relinquished By: John Phillips Date: 11/13/06 Time: 5:00 Company:
Received By: [illegible] Date: 11/13/06 Time: 1700 Company: Sierra

4 Relinquished By: Date: Time: Company:
Received By: Date: Time: Company:

25 Total Number of Containers Submitted to Laboratory

The delivery of samples and the signature on this chain of custody form constitutes authorization to perform the analyses specified above under SIERRA's Terms and Conditions, unless otherwise agreed upon in writing between SIERRA and CLIENT.
* - Samples determined to be hazardous by SIERRA will be returned to CLIENT.

25 Total Number of Containers Received by Laboratory

Sample Disposal:
☐ Return to Client
☒ Lab Disposal *
☐ Archive ____ mos.
☐ Other ____

Special Instructions:
bill to KP 15247, send EDF to Jasmin Hermann

FOR LABORATORY USE ONLY
☒ Intact ☐ Sample Seals ☒ Proper Volume ☒ Appropriate Sample Containers
☒ Chilled - Temp 4.0 ☐ Preservatives - Verified By ☐ Other ☒ Storage Location H39 (14E3

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DISTRIBUTION: White - To Accompany Samples, Yellow - Laboratory Copy, Pink - Field Personnel Copy