Kennedy/Jenks Consultants

Engineers & Scientists

622 Folsom Street
San Francisco, California 94107
415-243-2150
FAX 415-896-0999

6 November 2000

Ms. Eva Chu
Environmental Specialist
Hazardous Materials Division
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Subject: Phase II Environmental Site Assessment and Request for Closure
Former Grand Auto Store at 7100 Regional Street, Dublin, California
K/J 000109.02

Dear Ms. Chu:

The enclosed report is submitted by Kennedy/Jenks Consultants on behalf of PACCAR Inc. The report describes subsurface investigation activities that were recently completed at the former Grand Auto Store located at 7100 Regional Street in Dublin, California. The investigation activities, which were performed to complete the evaluation associated with the removal of three underground storage tanks in 1986, included the collection of soil and reconnaissance groundwater samples which were analyzed for petroleum hydrocarbon compounds.

On the basis of the subsurface investigation activities and the analytical results described in the enclosed report, we respectfully request that the Alameda County Department of Environmental Health issue a closure letter for the subject site.

If you have any questions regarding the enclosed report, please call me at (415) 243-2534. We appreciate your assistance on this project.

Very truly yours,

KENNEDY/JENKS CONSULTANTS

Meredith G. Durant

Meredith G. Durant, P.E.
Project Manager

Enclosure

cc: Robert Butler, PACCAR Inc
Randi Morrison, CSK Auto

Kennedy/Jenks Consultants

622 Folsom Street
San Francisco, California 94107

Phase II
Environmental Site Assessment

6 November 2000

Prepared for

PACCAR Inc
P.O. Box 1518
Bellevue, Washington 98009

Table of Contents

Table of Contents (cont'd)

List of Tables

List of Figures

List of Appendices

Section 1: Introduction

This report summarizes the activities and results of a Phase II Environmental Site Assessment (ESA) completed at the former PACCAR Grand Auto Store #45 located at 7100 Regional Street in Dublin, California (the Site). The Phase II ESA was performed by Kennedy/Jenks Consultants (Kennedy/Jenks) on behalf of PACCAR Inc. The location of the Site is shown on Figure 1.

1.1 Site History and Background

PACCAR Inc sold its Grand Auto subsidiary company to CSK Auto, Inc. (CSK) in late 1999. In conjunction with this transaction, CSK retained GeoTek Insite, Inc. (GeoTek) to perform a Phase I ESA for the Site. Three 10,000-gallon gasoline USTs were present at the Site and were reportedly removed in 1986[1]. During the tank removal, six soil samples were collected from beneath the USTs and analyzed for total volatile organic hydrocarbons (TVHs) using a modified EPA Method 601/602 by Hull Development Labs, Inc. No TVHs were detected in the six samples. PACCAR submitted this information to Alameda County Environmental Health Department (ACDEH) in a 6 March 2000 letter.

Ms. Eva Chu, of ACDEH, indicated in a 21 April 2000 telephone conversation with Kennedy/Jenks that ACDEH would not grant closure at this Site until additional information was collected. Ms. Chu stated that groundwater samples should be collected and analyzed for total petroleum hydrocarbons (TPH); total extractable petroleum hydrocarbons (TEPH); benzene, toluene, ethylbenzene and xylenes (BTEX); and methyl tert-butyl ether (MtBE). Ms. Chu also advised that the local groundwater flow direction is to the east-southeast. Ms. Chu said that a work plan for the investigation would not be required because the site does not have a known release. Finally, she advised that if PACCAR wishes to receive closure for the Site, the results of the investigation should be submitted to ACDEH.

1.2 Purpose

The purpose of the Phase II ESA was to collect and analyze groundwater samples as requested by the ACDEH in order to obtain a site closure letter from ACDEH. Accordingly, sampling locations were identified in the vicinity of the former USTs and in the presumed downgradient direction.

[1] GeoTek 2000. *Phase I Environmental Site Assessment for CSK Auto #4045, 7100 Regional Street, Dublin, California.* Prepared for CSK Auto by GeoTek Insite. 2 March 2000.

Section 2: Field Activities

2.1 Permitting and Utility Clearance

Kennedy/Jenks obtained a drilling permit from the Zone 7 Water Agency prior to starting the field activities. A copy of the permit is included in Appendix A.

Prior to initiating the field activities, Kennedy/Jenks prepared a focused Site Health and Safety Plan to address the subsurface investigation activities.

Prior to drilling, Kennedy/Jenks contacted Underground Service Alert (USA) to mark the buried utilities present beneath public property adjacent to the Site. In addition, Subdynamic Locating Services of San Jose, California conducted a utility survey on 31 August 2000 to attempt to locate buried utilities and other subsurface obstructions at the proposed locations of the three soil borings.

2.2 Drilling and Sampling

The subsurface investigation activities were performed on 31 August 2000 by Precision Sampling, Inc. of San Rafael, California. The activities consisted of advancing three soil borings (B-1, B-2, and B-3) and collecting soil and reconnaissance groundwater samples. The locations of the soil borings are shown on Figure 2.

The soil borings were advanced with a hydraulic push/drive sampling system. The borings were cored over specific depth intervals, as shown on the boring logs (Appendix A), and the soils were lithologically logged by a Kennedy/Jenks registered geologist using the Unified Soil Classification System (ASTM D 2488-93). The lithologies encountered during the drilling of each soil boring and other pertinent observations, including headspace measurements, are recorded on boring logs. Headspace measurements were obtained by placing soil from selected depths in a container, allowing the soil to equilibrate to ambient temperature, and then measuring the organic vapor concentration in the headspace of the container with a photoionization detector (PID). On the basis of visual observations and PID readings, selected soil samples from the vadose zone were submitted for laboratory analysis.

Boring B-1 was cored to 34 feet below ground surface (bgs), where it was thought that the moist zone encountered at 31 feet bgs would produce a water sample. The PVC casing was installed to 34 feet bgs, however, no recharge was observed. Boring B-2 was cored to sampler refusal (due to the stiff clay) at 37 feet bgs, whereupon the core rod was replaced with thinner rod with a sacrificial conical tip that could penetrate deeper but would not allow soil sample collection. The thinner rod was driven to refusal at 42.5 feet bgs, removed, and temporary PVC casing was installed. Groundwater was encountered between 37 feet and 42.5 feet bgs and entered the PVC casing. Boring B-1 was then deepened, without coring, to rod refusal at 42.5 feet and the PVC casing inserted. Boring B-3 was cored from 10 feet bgs to 28 feet bgs, and drilled without coring to rod refusal at 42.5 feet bgs. At both Boring B-1 and Boring B-3, the PVC casing could only be inserted to 39 feet bgs.

Reconnaissance groundwater samples were collected from each of the three borings. After drilling the borings, a 10-foot section of disposable 1-inch or ¾-inch diameter, 0.010-inch slotted PVC

screen, flush-threaded to 1-inch or ¾-inch diameter PVC blank casing, was inserted into each borehole. The groundwater samples were then collected from the PVC casing using a disposable PVC bailer. For quality assurance purposes, one duplicate groundwater sample was collected. Following completion of sampling activities, the boring were grouted with neat cement.

Drilling equipment was steam-cleaned prior to initial use and between each boring. The PVC casing and screen sections were discarded after completion of each boring. Steam-cleaning residuals were contained in a water collection system, and subsequently transferred to DOT-approved 55-gallon drums. Soil cuttings were contained in 5-gallon pails. These investigation-derived residuals were removed from the Site by Precision Sampling Inc. and were subsequently disposed of at appropriately permitted facilities.

2.3 Sample Analysis

Following collection and proper labeling, the soil and groundwater samples were placed in chilled containers. The samples were submitted under chain-of-custody procedures to Chromalab Inc., of Pleasanton, California. Laboratory analytical reports are included in Appendix B.

2.3.1 Soil Sample Analysis

Three soil samples from two of the soil borings (B-2 and B-3) were analyzed for total petroleum hydrocarbons as gasoline (TPHg) and total petroleum hydrocarbons as diesel (TPHd) using EPA Method 8015 Modified, and for BTEX and MtBE using EPA Method 8020. One sample from each of the two borings was submitted for laboratory analysis based upon the observation of discolored soil or hydrocarbon odor. In addition, one sample from Boring B-3 from a depth beneath the zone with indications of hydrocarbons was submitted to assess the vertical migration of hydrocarbons in soil. No visual indications of hydrocarbons or elevated PID headspace readings were observed in Boring B-1 and therefore, no samples were collected from that boring. The soil sample analytical results are summarized in Table 1.

2.3.2 Groundwater Sample Analysis

Reconnaissance groundwater samples from each of the three soil borings were analyzed for TPHg and TPHd using EPA Method 8015 Modified, and BTEX and MtBE by EPA Method 8020. The analytical results are presented in Table 2. Upon receipt of the analytical results, the sample from Boring B-1 was analyzed a second time for TPHd using the silica gel cleanup preparation to attempt to remove non-anthropogenic hydrocarbons from the sample extract.

2.4 Quality Assurance/Quality Control (QA/QC)

2.4.1 Field QA/QC

In addition to careful equipment decontamination between samples and sampling locations, field QA/QC measures included collecting and analyzing one duplicate groundwater sample from Boring B-2.

2.4.2 Laboratory QA/QC

Sample results were checked for holding times, matrix spike and matrix spike duplicate recoveries, and laboratory blank results. All of the samples or their extracts were analyzed within the required method holding times. Overall the matrix spike and matrix spike duplicates were within acceptable ranges. No analytes were detected in the laboratory blanks.

Section 3: Findings

3.1 Subsurface Lithology

In general, the observed subsurface materials consisted of fine-grained silts and stiff clays. No groundwater was observed down to the greatest depth cored, 37 feet bgs.

Groundwater was encountered between 37 feet bgs (the greatest depth reached by the core barrel) and 42.5 feet bgs (the greatest depth reached with the narrow rod and sacrificial tip). Because monitoring wells were not installed, groundwater elevation data were not recorded. Sufficient recharge to allow sample collection occurred, although for Boring B-2 and Boring B-3, the recharge was sufficient to fill only one of the 1-liter sample bottles. The subsurface material between 37 feet bgs and 42.5 feet bgs is unknown, although based upon the groundwater recharge, the material is probably coarser-grained than the silts and clays encountered above 37 feet bgs.

Hydrocarbon odor, elevated headspace readings, and discoloration was noted in the soil core obtained from Borings B-2 and B-3 between approximately 22 and 27 feet bgs. Soil above and below this depth did not have indications of hydrocarbons. Headspace readings of up to 44 parts per million (ppm) were recorded in the stained soil in Boring B-3 at 23 feet bgs.

3.2 Soil Sample Analytical Results

As shown in Table 1, TPHd was detected at 16 mg/kg, TPHg was detected at 6.1 mg/kg, and toluene was detected at 0.036 mg/kg in the sample collected from 25.5 feet bgs in Boring B-2. TPHd was detected at 1.5 mg/kg in the sample collected from 22.5 feet bgs in Boring B-3. No analytes were detected in the sample collected from 27.5 feet bgs from Boring B-3, which was selected to assess the vertical extent of hydrocarbons in soil.

The laboratory reports note that although analytical results were within the quantitation range for TPHd and TPHg, the chromatographic pattern does not match their diesel and gasoline standards.

Except for the toluene detection noted above, BTEX compounds and MtBE were not detected in the three soil samples submitted for laboratory analysis.

The ACDEH has stated that is does not have numeric cleanup values, but instead relies on risk-based assessment for chemicals detected in the subsurface at individual sites.

3.3 Groundwater Sample Analytical Results

As shown in Table 2, TPHd was detected in all of the samples except B-2-W, and TPHg, BTEX, and MtBE were not detected in any of the samples. The detected concentrations of TPHd ranged from 300 µg/l in sample B-3-W to 120 µg/l in sample B–8/31-Dup (the duplicate groundwater sample collected from Boring B-2). However, the laboratory reports indicate that the detected compounds did not exhibit a chromatographic pattern characteristic of petroleum hydrocarbons.

As noted above, only Boring B-1 produced sufficient groundwater to allow collection of a second 1-liter sample. Following receipt of the analytical results summarized in Table 2, the analytical laboratory was instructed to analyze the remaining water sample from Boring B-1 using a silica gel cleanup preparation. The sample analyzed following the silica gel cleanup did not contain detectable concentrations of TPHd (detection limit of 63 µg/l). This result further confirms that the compounds detected in the water samples are not petroleum hydrocarbons.

As noted above, the ACDEH does not have numeric cleanup levels.

Section 4: Findings and Recommendations

4.1 Findings

On the basis of the field investigations and analytical results from soil and groundwater samples, the following findings were developed.

- Land use in the vicinity of the Site is primarily commercial, especially towards the south and southeast. Highway 680 is located approximately ½ mile to the east and southeast of the Site.

- The depth to groundwater at the Site was greater than expected, with groundwater not encountered until depths exceeding 37 feet bgs.

- At the locations of Borings B-2 and B-3, there were visual indications of organic compounds at depths of approximately 26 and 23 feet bgs, respectively. However, the analytical results from soil samples collected from these depths suggest that the organic compounds are present at relatively low concentrations, and the detected compounds did not match the laboratory's diesel and gasoline standards. Furthermore, a soil sample collected from a depth of approximately 28 feet bgs in Boring B-3 did not contain detectable concentrations of any organic compounds, indicating that these compounds are limited in vertical extent.

- With one exception, BTEX and MtBE were not detected in any of the soil samples. The exception was the detection of toluene at a concentration of 0.036 mg/kg in the soil sample collected from Boring B-2.

- TPHg, BTEX and MtBE were not detected in any of groundwater samples.

- Organic compounds in the TPHd range were detected in the groundwater samples, however, the chromatographic pattern was not characteristic of petroleum hydrocarbons, and analysis of a remaining water sample using a silica gel cleanup suggested that these compounds are in fact not derived from petroleum hydrocarbons.

In conjunction with the site investigation activities, Kennedy/Jenks reviewed historical documents provided by PACCAR. Underground tank permit applications for the Site indicate that the three former 10,000-gallon USTs were used to contain regular, unleaded, and premium gasoline, respectively. Diesel fuel does not appear to have been stored or dispensed at this Site, therefore, the historical records appear to further confirm that the organic compounds detected in groundwater samples are not actually diesel fuel.

4.2 Conclusions

Based upon the site investigation activities performed at the request of ACDEH, and the analytical results that are described herein, groundwater has not been impacted by releases from the former gasoline USTs at this Site. In our opinion, it would be appropriate for the ACDEH to issue a closure letter for this Site.

Tables

Table 1: Soil Sample Analytical Results

Boring	Sample Depth (ft. bgs)[b]	Analytical Results (mg/kg)[a] TPHd[c]	TPHg[d]	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MtBE[e]
B-2	25.5-26.0	16[f]	6.1[g]	<0.0050	0.036	<0.0050	<0.0050	<0.0050
B-3	22.5-23.0	1.5[f]	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
B-3	27.5-28.0	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050

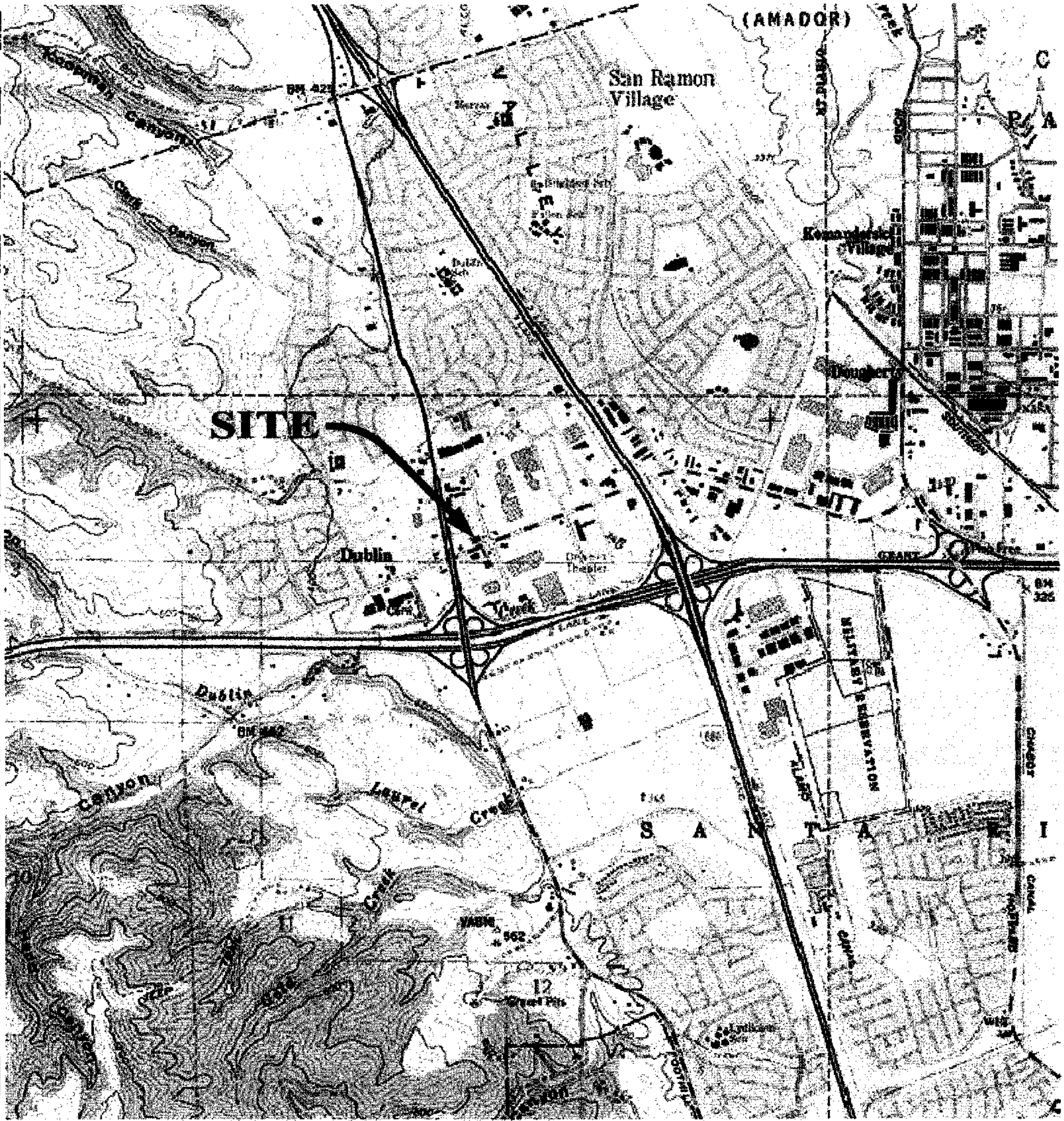
(a) mg/kg = milligrams per kilogram. Samples analyzed for TPHg and TPHd using EPA Method 8015M, and for BTEX and MTBE using EPA Method 8020.
(b) ft. bgs = feet below ground surface
(c) TPHd = Total Petroleum Hydrocarbons as diesel
(d) TPHg = Total Petroleum Hydrocarbons as gasoline
(e) MTBE = Methyl tert-butyl ether
(f) Laboratory reports that hydrocarbon reported does not match the pattern of their diesel standard
(g) Laboratory reports that hydrocarbon reported falls in gasoline range does not match their gasoline standard

Table 2: Reconnaissance Groundwater Sample Analytical Results

		Analytical Results (ug/L)[a]						
Boring	Sample	TPHd[b]	TPHg[c]	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MtBE[d]
B-1	B-1-W	140[e]	<50	<0.50	<0.50	<0.50	<0.50	<5.0
B-1	B-1-W-(Si Gel Cleanup) [f]	<63	NA	NA	NA	NA	NA	NA
B-2	B-2-W	<50	<50	<0.50	<0.50	<0.50	<0.50	<5.0
B-2	B-8/31-DUP	120[e]	<50	<0.50	<0.50	<0.50	<0.50	<5.0
B-3	B-3-W	300[e]	<50	<0.50	<0.50	<0.50	<0.50	<5.0

(a) µg/l = micrograms per liter. Samples analyzed for TPHd and TPHg using EPA Method 8015M and BTEX and MTBE using EPA Method 8020.
(b) TPHd = Total Petroleum Hydrocarbons as diesel
(c) TPHg = Total Petroleum Hydrocarbons as gasoline
(d) MtBE = Methyl tert-butyl ether
(e) Laboratory reports that compounds reported are in this range but do not exhibit a pattern characteristic of petroleum hydrocarbons
(f) Si Gel Cleanup step using EPA Method 3630 performed on extract from second 1-liter sample container

Figures



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Kennedy/Jenks Consultants

PACCAR Inc
7100 Regional Street
Dublin, CA

Site Location Map

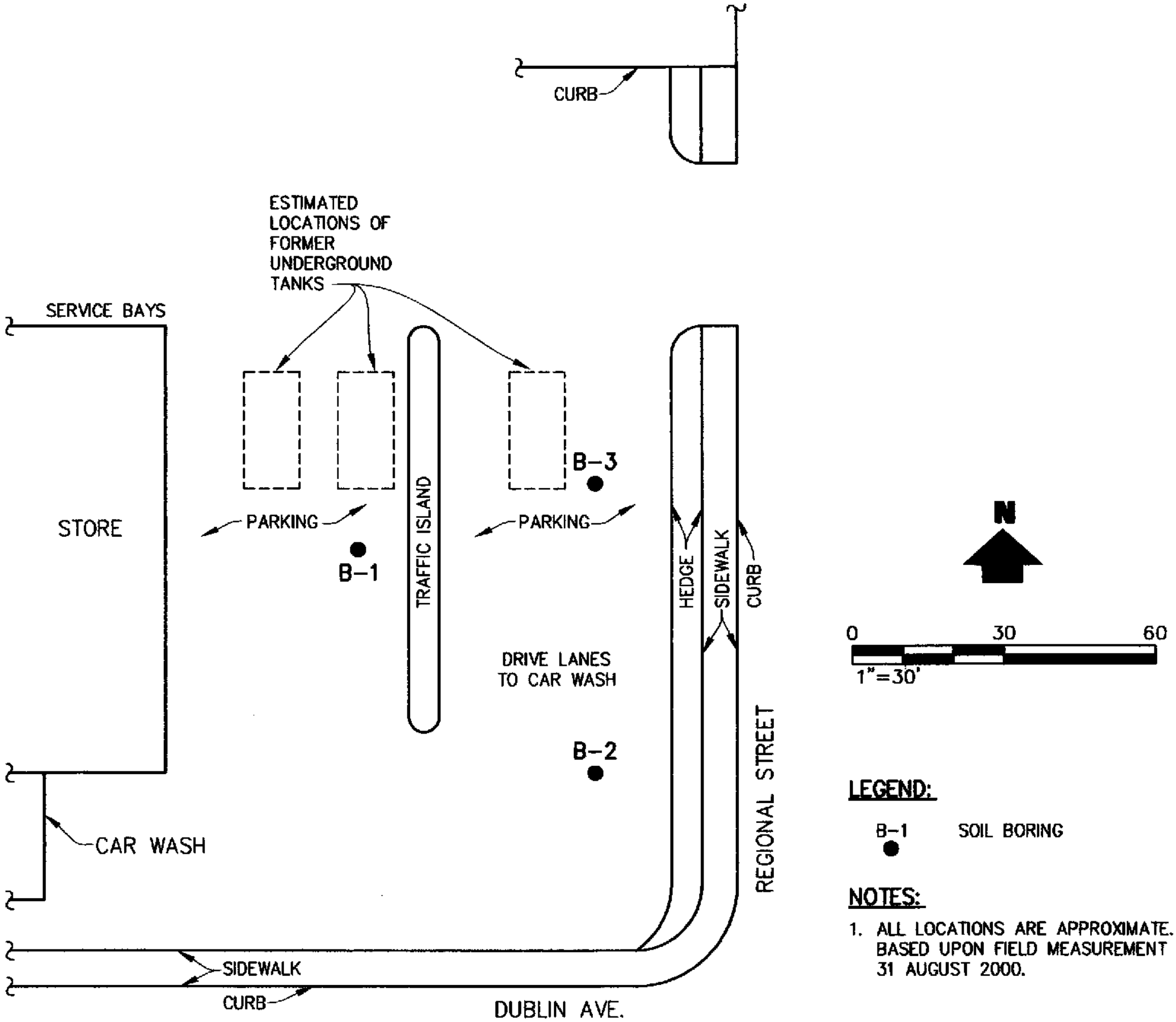
K/J 000109.02
October 2000

Figure 1

N

Reference:

TOPO Interactive Maps on CD-Rom, 1996



Kennedy/Jenks Consultants

PACCAR, Inc.
7100 Regional Street
Dublin, CA

Sample Locations

K/J 000109.02
October 2000

Figure 2

Appendix A

Soil Boring Logs and Alameda County Drilling Permit

Boring & Well Construction Log

Kennedy/Jenks Consultants

BORING LOCATION: East of Building, upgradient of USTs		Boring/Well Name: B-1	
DRILLING COMPANY: Precision Sampling, Inc.	DRILLER: F. Ambriz	Project Name: PACCAR Inc	
DRILLING METHOD(S): Envirocore (XD-1)	DRILL BIT(S) SIZE: 2-inches	Project Number: 000109.02	
ISOLATION CASING: n/a	FROM n/a TO n/a FT.	ELEVATION AND DATUM: None	TOTAL DEPTH: Core: 34 ft. BGS
BLANK CASING: 1-inch PVC (temporary)	FROM + 0.5 TO 29 FT.	DATE STARTED: 8/31/00	DATE COMPLETED: 8/31/00
SLOTTED CASING: 1-inch PVC (temporary)	FROM 29 TO 39 FT.	STATIC WATER ELEVATION: n/a	
SIZE AND TYPE OF FILTER PACK: none	FROM n/a TO n/a FT.	LOGGED BY: M. McLeod	
SEAL: none	FROM n/a TO n/a FT.	SAMPLING METHODS: Envirocore	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.
GROUT: Neat Cement	FROM 0.5 TO 39 FT.		

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	WELL CONSTRUCTION	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
	0.9			OVM=0 PPM			10YR 3/2	**SILT TO CLAYEY SILT (ML)** VERY DARK GRAYISH BROWN, VERY STIFF, LOW TO NO PLASTICITY, DRY, NO ODOR
	0.5		5	OVM=0 PPM	ML		10YR 3/4	4 FT. COLOR LIGHTENS TO DARK YELLOWISH BROWN
	0.7			OVM=0 PPM			10YR 4/2-4/3 10YR 3/2 10YR 5/4-5/8	7 FT. COLOR LIGHTENS TO DARK GRAYISH BROWN TO BROWN, WITH VERY DARK GRAYISH BROWN AND YELLOWISH BROWN SPECKS
	2		10	OVM=0 PPM			10YR 4/3	**CLAY TO CLAY WITH SAND (CL)** BROWN OVERALL, ~10-15 % FINE-GRAINED SAND, MEDIUM STIFF TO STIFF (PP ~3.5 TSF), LOW PLASTICITY, MOIST TO DRY, NO ODOR
	2.4		15	OVM=0 PPM	CL		10YR 8/2	TRACE SCATTERED COARSE-GRAINED SAND, WHITE STREAKS, STIFFNESS DECREASES SLIGHTLY

Boring & Well Construction Log

Kennedy/Jenks Consultants

Project Name PACCAR Inc **Project Number** 000109.02 **Boring/Well Name** B-1

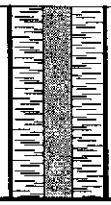
SAMPLES Type & No.	SAMPLES Recovery (Feet)	SAMPLES Penetr. Resist. Blows/6"	Drill Depth (Feet)	WELL CONSTRUCTION	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
	2.5						2.5Y 5/3 10YR 8/2 10YR 4/6	**CLAY TO CLAY WITH SAND (CL)** CONTINUED COLOR GRADES TO LIGHT OLIVE BROWN WITH WHITE AND DARK YELLOWISH BROWN STREAKS
	2.5		20	OVM=0 PPM			10YR 4/2	21 FT. COLOR GRADES TO DARK GRAYISH BROWN, FINE-GRAINED SAND DECREASES, STIFFNESS DECREASES (PP ~2 TSF), PLASTICITY INCREASES TO MEDIUM
	3.0						2.5YR 5/3-5/6 10YR 8/2	22 FT. COLOR CHANGES TO LIGHT OLIVE BROWN WITH TRACES OF WHITE
	3.0		25	OVM=0 PPM	CL		2.5Y 6/3 10YR 8/2 10YR 3/2	25 FT. COLOR LIGHTENS TO LIGHT YELLOWISH BROWN WITH WHITE STREAKS AND VERY DARK GRAYISH BROWN SPECKS
	3.0		30					30 FT. FINE-GRAINED SAND INCREASES TO ~10-15%
	3.1						10YR 4/2 10YR 3/2	31 FT. COLOR CHANGES TO DARK GRAYISH BROWN OVERALL WITH WHITE STREAKS, MEDIUM STIFF TO STIFF, MEDIUM PLASTICITY
			35					34 - 42.5 FT. DRILLED WITHOUT SAMPLING
			40					

F-40.1
(6-87) (3-88) (8-90)

Boring & Well Construction Log

Kennedy/Jenks Consultants

Project Name PACCAR Inc **Project Number** 000109.02 **Boring/Well Name** B-1

SAMPLES Type & No.	SAMPLES Recovery (Feet)	SAMPLES Penetr. Resist. Blows/6"	Drill Depth (Feet)	WELL CONSTRUCTION	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
								34 - 42.5 FT. DRILLED WITHOUT SAMPLING

34 FT. TERMINATE CORING. SET PVC TO 34 FT. BUT NO GROUNDWATER RECHARGES INTO PVC. PUSH SAMPLER TIP WITHOUT SAMPLING TO REFUSAL AT 42.5 FT. BGS AND SET 10 FT OF SCREEN 29 FT. TO INSERTION REFUSAL AT 39 FT. AND COLLECT RECONNAISSANCE SAMPLE.

NOTES

1. ALL CONTACTS ARE APPROXIMATE
2. VERTICAL SCALE IS 1-INCH = 2.5 FEET
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. BGS: BELOW GROUND SURFACE
6. OVM = ORGANIC VAPOR METER
7. PPM = PARTS PER MILLION
8. PP = POCKET PENETROMETER
9. TSF = TONS PER SQUARE FOOT

Boring & Well Construction Log

Kennedy/Jenks Consultants

BORING LOCATION: Southeast of Building		Boring/Well Name: B-2	
DRILLING COMPANY: Precision Sampling, Inc.	DRILLER: F. Ambriz	Project Name: PACCAR Inc	
DRILLING METHOD(S): Envirocore (XD-1)	DRILL BIT(S) SIZE: 2-inches	Project Number: 000109.02	
ISOLATION CASING: n/a	FROM n/a TO n/a FT.	ELEVATION AND DATUM: None	TOTAL DEPTH: Core: 37 ft. BGS
BLANK CASING: 1-inch PVC (temporary)	FROM + 0.5 TO 32.5 FT.	DATE STARTED: 8/31/00	DATE COMPLETED: 8/31/00
SLOTTED CASING: 1-inch PVC (temporary)	FROM 32.5 TO 42.5 FT.	STATIC WATER ELEVATION: n/a	
SIZE AND TYPE OF FILTER PACK: none	FROM n/a TO n/a FT.	LOGGED BY: M. McLeod	
SEAL: none	FROM n/a TO n/a FT.	SAMPLING METHODS: Envirocore	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.
GROUT: Neat Cement	FROM 0.5 TO 42.5 FT.		

SAMPLES Type & No.	Recovery (Feet)	Penetr. Resist. Blows/6"	Drill Depth (Feet)	WELL CONSTRUCTION	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
	0.1			OVM=0 PPM	CL		10YR 2/1	**CLAY (CL)** BLACK, ~10% COARSE-GRAINED SAND, VERY STIFF, MEDIUM PLASTICITY, DRY, NO ODOR
	0.8		5				10YR 4/2	**SILT (ML)** DARK GRAYISH BROWN OVERALL, VERY STIFF, LOW PLASTICITY, DRY, NO ODOR
	0.3			OVM=0 PPM	ML		2.5Y 5/4-4/2 10YR 3/2	7 FT. COLOR GRADES TO LIGHT OLIVE BROWN TO DARK GRAYISH BROWN OVERALL WITH VERY DARK GRAYISH BROWN SPECKS
	2.2		10					
	2.2		15		CL		2.5Y 4/2	**CLAY TO SANDY CLAY (CL)** DARK GRAYISH BROWN OVERALL, MEDIUM STIFF TO STIFF (PP ~3.5 TSF), LOW PLASTICITY, DRY, NO ODOR
							2.5Y 4/3-4/4 10YR 8/1	15 FT. COLOR GRADES TO OLIVE BROWN OVERALL WITH WHITE STREAKS

Boring & Well Construction Log

Kennedy/Jenks Consultants

Project Name PACCAR Inc **Project Number** 000109.02 **Boring/Well Name** B-2

SAMPLES Type & No.	SAMPLES Recovery (Feet)	SAMPLES Penetr. Resist. Blows/6"	Drill Depth (Feet)	WELL CONSTRUCTION	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
	3.0						2.5Y 4/3-4/4	**CLAY TO SANDY CLAY (CL)** CONTINUED 18 FT. COLOR INCLUDES DARK BROWN MOTTLING, FINE-GRAINED SAND DECREASES
	2.6		20	OVM=6.2 PPM			10YR 8/1 7.5YR 4/4	
24.0/ 24.5	2.4			OVM=0.8 PPM			2.5Y 4/2-4/4	21.5 FT COLOR GRADES TO DARK GRAYISH BROWN AND OLIVE BROWN, WITH BLACK STREAKS AND TRACE WHITE SPECKS 23 FT. COLOR GRADES TO GREENISH GRAY WITH OLIVE BROWN, SCATTERED WHITE AND DARK BROWN SPECKS, NO ODOR
25.5/ 26.0	2.9		25	OVM=33 PPM	CL		5GY 5/1 2.5Y 4/3	25.5 - 26 FT. SLIGHT HYDROCARBON ODOR 26.5 FT. COLOR CHANGES TO LIGHT OLIVE BROWN, YELLOWISH BROWN, WITH WHITE STREAKS
	2.8		30	OVM=0 PPM			2.5Y 5/3 10YR 5/4	30 - 30.5 FT. ZONE IS SOFT, SANDY, MOIST
	3.0			OVM=0 PPM			10YR 4/2 10YR 8/2	31 FT. COLOR GRADES TO DARK GRAYISH BROWN OVERALL WITH WHITE STREAKS
	3.0		35				2.5Y 4/2 10YR 3/2 2.5YR 7/2	36 FT. COLOR DARKENS TO DARK GRAYISH BROWN OVERALL WITH VERY DARK GRAYISH BROWN SPECKS AND LIGHT GRAY STREAKS
			40					37 - 42.5 FT. DRILLED WITHOUT SAMPLING

F-40.1
(6-87) (3-88) (8-90)

Boring & Well Construction Log

Kennedy/Jenks Consultants

Project Name PACCAR Inc **Project Number** 000109.02 **Boring/Well Name** B-2

SAMPLES Type & No.	SAMPLES Recovery (Feet)	SAMPLES Penetr. Resist. Blows/6"	Drill Depth (Feet)	WELL CONSTRUCTION	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
								37 - 42.5 FT. DRILLED WITHOUT SAMPLING

37 FT. ENVIROCORE REFUSAL. PUSH SINGLE ROD WITH DISPOSABLE TIP TO 42.5 FT., INSERT 10 FT. OF PVC SCREEN, AND COLLECT RECONNAISSANCE GROUNDWATER SAMPLE.

NOTES

1. ALL CONTACTS ARE APPROXIMATE
2. VERTICAL SCALE IS 1-INCH = 2.5 FEET
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. BGS: BELOW GROUND SURFACE
6. OVM = ORGANIC VAPOR METER
7. PPM = PARTS PER MILLION
8. PP = POCKET PENETROMETER
9. TSF = TONS PER SQUARE FOOT

Boring & Well Construction Log

Kennedy/Jenks Consultants

BORING LOCATION: East of Building, downgradient of USTs		Boring/Well Name: B-3	
DRILLING COMPANY: Precision Sampling, Inc.	DRILLER: F. Ambriz	Project Name: PACCAR Inc	
DRILLING METHOD(S): Envirocore (XD-1)	DRILL BIT(S) SIZE: 2-inches	Project Number: 000109.02	
ISOLATION CASING: n/a	FROM n/a TO n/a FT.	ELEVATION AND DATUM: None	TOTAL DEPTH: Core: 28 ft. BGS
BLANK CASING: 1-inch PVC (temporary)	FROM + 0.5 TO 29 FT.	DATE STARTED: 8/31/00	DATE COMPLETED: 8/31/00
SLOTTED CASING: 1-inch PVC (temporary)	FROM 29 TO 39 FT.	STATIC WATER ELEVATION: n/a	
SIZE AND TYPE OF FILTER PACK: none	FROM n/a TO n/a FT.	LOGGED BY: M. McLeod	
SEAL: none	FROM n/a TO n/a FT.	SAMPLING METHODS: Envirocore	WELL COMPLETION: ☐ SURFACE HOUSING ☐ STAND PIPE n/a FT.
GROUT: Neat Cement	FROM 0.5 TO 39 FT.		

SAMPLES Type & No.	SAMPLES Recovery (Feet)	SAMPLES Penetr. Resist. Blows/6"	Drill Depth (Feet)	WELL CONSTRUCTION	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
								SILT (ML) VERY DARK GRAYISH BROWN OVERALL, SCATTERED WOOD FRAGMENTS, VERY STIFF, NO PLASTICITY, DRY, NO ODOR
			5				10YR 3/2	0 - 10 FT. DRILLED WITHOUT SAMPLING
					ML			
	0.5		10					
	0.1							14 FT. SCATTERED COARSE-GRAINED SAND
			15					
					CL		2.5Y 4/2	**CLAY (CL)** DARK GRAYISH BROWN WITH WHITE AND DARK BROWN STREAKS, MEDIUM STIFF (PP ~ 3 TSF), MEDIUM PLASTICITY, DRY, NO ODOR
							2.5Y	

Boring & Well Construction Log

Kennedy/Jenks Consultants

Project Name PACCAR Inc **Project Number** 000109.02 **Boring/Well Name** B-3

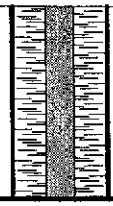
SAMPLES Type & No.	SAMPLES Recovery (Feet)	SAMPLES Penetr. Resist. Blows/6"	Drill Depth (Feet)	WELL CONSTRUCTION	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
	2.4			OVM=0 PPM			8/2 7.5YR 4/4 2.5Y 4/2	**CLAY (CL)** CONTINUED
	3.0		20				2.5Y 8/2 7.5YR 4/4 2.5Y 5/2	21 FT. DARK GRAYISH BROWN LIGHTENS SLIGHTLY TO GRAYISH BROWN
22.5/ 23.0	3.0			OVM=0.4 PPM OVM=44 PPM	CL			22-23 FT. COLOR INCLUDES GREENISH GRAY TINT (5G 5/1), SLIGHT HYDROCARBON ODOR 22 - 23 FT. 23 FT. COLOR GRADES TO LIGHT OLIVE BROWN, YELLOWISH BROWN, WITH WHITE STREAKS AND VERY DARK GRAYISH BROWN SPECKS
				OVM=0 PPM			2.5Y 5/3	
27.5/ 28.0	3.0		25				10YR 5/4 2.5Y 8/2 10YR 3/2	
				OVM=0 PPM				
			30					28 - 42.5 FT. DRILLED WITHOUT SAMPLING
			35					
			40					

F-40.1
(6-87) (3-88) (8-90)

Boring & Well Construction Log

Kennedy/Jenks Consultants

Project Name PACCAR Inc **Project Number** 000109.02 **Boring/Well Name** B-3

SAMPLES Type & No.	SAMPLES Recovery (Feet)	SAMPLES Penetr. Resist. Blows/6"	Drill Depth (Feet)	WELL CONSTRUCTION	USCS Log	Lithology	Color	SAMPLE DESCRIPTION and DRILLING REMARKS
								28 - 42.5 FT. DRILLED WITHOUT SAMPLING

28 FEET TERMINATE CORING. SEE LOGS FOR B-1 AND B-2 FOR LITHOLOGY FROM 28 TO 37 FT. ADVANCE ROD WITH DISPOSABLE TIP TO 42.5 FT., SET 10 FT. PVC SCREEN FROM 29 TO INSERTION REFUSAL AT 39 FT., AND COLLECT RECONNAISSANCE GROUNDWATER SAMPLE.

NOTES

1. ALL CONTACTS ARE APPROXIMATE
2. VERTICAL SCALE IS 1-INCH = 2.5 FEET
3. SOIL CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM, ASTM D-2488-93
4. COLOR DESIGNATION IN ACCORDANCE WITH THE MUNSELL SOIL COLOR CHARTS (KOLLMORGEN INSTRUMENTS CORPORATION, 1990)
5. BGS: BELOW GROUND SURFACE
6. OVM = ORGANIC VAPOR METER
7. PPM = PARTS PER MILLION
8. PP = POCKET PENETROMETER
9. TSF = TONS PER SQUARE FOOT

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94588-5127 • PHONE (925) 484-2600 FAX (925) 462-3914

August 24, 2000

Ms. Meredith Durant
Kennedy/Jenks Consultants
622 Folsom Street
San Francisco, CA 94107

Dear Ms. Durant:

Enclosed is drilling permit 20146 for a contamination investigation at 7100 Regional Street in Dublin for Paccar Inc.

Please note that permit condition A-2 requires that a report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact me at extension 235 or Matt Katen at extension 234.

Sincerely,

Wyman Hong

Wyman Hong
Water Resources Technician II

Enc.

P:\WRE\GPOs\GPO1\GPO1.CONTAMINATION.wpd

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235
FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 7100 REGIONAL STREET
DUBLIN, CALIFORNIA (CORNER OF REGIONAL STREET & DUBLIN BLVD)

California Coordinates Source _____ ft Accuracy _____ ft.
CCN _____ ft. CCE _____ ft.
APN _____

CLIENT
Name PACCAR INC.
Address P.O. BOX 1518 Phone 425-468-7435
City BELLEVUE, WA Zip 98009

APPLICANT
Name KENNEDY/JENKS CONSULTANTS
ATTN: MIKE McLEOD Fax 415 896-0999
Address 622 FOLSOM STREET Phone 415 243 2150
City SAN FRANCISCO Zip 94107

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	9	General	9
Water Supply	9	Contamination	(9)
Monitoring	9	Well Destruction	9

PROPOSED WATER SUPPLY WELL USE

New Domestic	9	Replacement Domestic	9	NOT APPLICABLE
Municipal	9	Irrigation	9	
Industrial	9	Other _____	9	

DRILLING METHOD:

Mud Rotary	9	Air Rotary	9	Auger	9
Cable	9	Other	(9) DIRECT-PUSH RIG		

DRILLER'S LICENSE NO. EITHER: GREGG DRILLING C57 485165 OR, PRECISION C57 636387

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum Depth _____ ft.
Casing Diameter _____ in. Number _____
Surface Seal Depth _____ ft.
NOT APPLICABLE (D.)

GEOTECHNICAL PROJECTS
Number of Borings 3 Maximum
Hole Diameter 2-4 in. Depth 30 ft.

ESTIMATED STARTING DATE 31 AUGUST 2000
ESTIMATED COMPLETION DATE 31 AUGUST 2000

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Meredith G. Durzik Date 8/22/00
KENNEDY/JENKS CONSULTANTS

PERMIT NUMBER 20146
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4. A sample port is required on the discharge pipe near the wellhead.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

(D.) GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS

Approved Wyman Hong Date 8/24/00
Wyman Hong

8/6/99

Appendix B

Analytical Reports and Chain of Custody Reports

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 2000-09-0004
Date: September 11, 2043

Kennedy/Jenks-San Francisco
622 Folsom Street
San Francisco, CA 94107-1366

Attn.: Ms. Meredith Durant

Project: 000109.02
7100 Regional St.

Dear Meredith,

Attached is our report for your samples received on Thursday August 31, 2000
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after October 15, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: gcook@chromalab.com

Sincerely,

Gary Cook

Gary Cook

Diesel

Kennedy/Jenks-San Francisco

622 Folsom Street
San Francisco, CA 94107-1366

Attn: Meredith Durant

Phone: (415) 243-2534 Fax: (415) 896-0999

Project #: 000109.02

Project: 7100 Regional St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
B-3-22.5/23.0	Soil	08/31/2000 14:15	1
B-3-27.5/28.0	Soil	08/31/2000 14:20	2
B-2-25.5/26.0	Soil	08/31/2000 11:20	4
B-2-W	Water	08/31/2000 15:05	5
B-8/31-DUP	Water	08/31/2000 15:10	6
B-3-W	Water	08/31/2000 15:45	7
B-1-W	Water	08/31/2000 16:00	8

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015M
Prep Method: 3550/8015M
3510/8015M

Diesel

Sample ID:	**B-3-22.5/23.0**	Lab Sample ID:	**2000-09-0004-001**
Project:	000109.02 7100 Regional St.	Received:	08/31/2000 17:25
		Extracted:	09/06/2000 06:34
Sampled:	08/31/2000 14:15	QC-Batch:	2000/09/06-02.10
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1.5	1.0	mg/Kg	1.00	09/07/2000 19:34	ndp
Surrogate(s)						
o-Terphenyl	80.0	60-130	%	1.00	09/07/2000 19:34	

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015M
Prep Method: 3550/8015M
3510/8015M

Diesel

Sample ID: **B-3-27.5/28.0**
Project: 000109.02
7100 Regional St.
Sampled: 08/31/2000 14:20
Matrix: Soil

Lab Sample ID: **2000-09-0004-002**
Received: 08/31/2000 17:25
Extracted: 09/06/2000 06:34
QC-Batch: 2000/09/06-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	09/06/2000 22:31	
Surrogate(s)						
o-Terphenyl	77.7	60-130	%	1.00	09/06/2000 22:31	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015M
Prep Method: 3550/8015M
3510/8015M

Diesel

Sample ID: **B-2-25.5/26.0**
Project: 000109.02
7100 Regional St.
Sampled: 08/31/2000 11:20
Matrix: Soil

Lab Sample ID: **2000-09-0004-004**
Received: 08/31/2000 17:25
Extracted: 09/06/2000 06:34
QC-Batch: 2000/09/06-02.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	16	1.0	mg/Kg	1.00	09/06/2000 23:05	ndp
Surrogate(s)						
o-Terphenyl	76.8	60-130	%	1.00	09/06/2000 23:05	

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015M
Prep Method: 3550/8015M
3510/8015M

Diesel

Sample ID:	**B-2-W**	Lab Sample ID:	**2000-09-0004-005**
Project:	000109.02 7100 Regional St.	Received:	08/31/2000 17:25
		Extracted:	09/05/2000 20:32
Sampled:	08/31/2000 15:05	QC-Batch:	2000/09/05-05.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	09/06/2000 22:52	
Surrogate(s)						
o-Terphenyl	70.2	60-130	%	1.00	09/06/2000 22:52	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015M
Prep Method: 3550/8015M
3510/8015M

Diesel

Sample ID:	**B-8/31-DUP**	Lab Sample ID:	**2000-09-0004-006**
Project:	000109.02 7100 Regional St.	Received:	08/31/2000 17:25
		Extracted:	09/05/2000 20:32
Sampled:	08/31/2000 15:10	QC-Batch:	2000/09/05-05.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	120	50	ug/L	1.00	09/06/2000 23:31	nhc
Surrogate(s)						
o-Terphenyl	74.6	60-130	%	1.00	09/06/2000 23:31	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015M
Prep Method: 3550/8015M
3510/8015M

Diesel

Sample ID: **B-3-W**
Project: 000109.02
7100 Regional St.
Sampled: 08/31/2000 15:45
Matrix: Water

Lab Sample ID: **2000-09-0004-007**
Received: 08/31/2000 17:25
Extracted: 09/05/2000 20:32
QC-Batch: 2000/09/05-05.10

Sample/Analysis Flag rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	300	71	ug/L	1.43	09/07/2000 00:09	nhc
Surrogate(s)						
o-Terphenyl	72.1	60-130	%	1.43	09/07/2000 00:09	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015M
Prep Method: 3550/8015M
3510/8015M

Diesel

Sample ID: **B-1-W**
Lab Sample ID: **2000-09-0004-008**

Project: 000109.02
7100 Regional St.

Received: 08/31/2000 17:25

Extracted: 09/05/2000 20:32

Sampled: 08/31/2000 16:00

QC-Batch: 2000/09/05-05.10

Matrix: Water

Sample/Analysis Flag rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	140	63	ug/L	1.25	09/07/2000 00:48	nhc
Surrogate(s)						
o-Terphenyl	67.9	60-130	%	1.25	09/07/2000 00:48	

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015m
Prep Method: 3510/8015M
3550/8015M

Batch QC Report
Diesel

Method Blank | **Soil** | **QC Batch # 2000/09/06-02.10**

MB: 2000/09/06-02.10-001 | Date Extracted: 09/06/2000 06:34

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	09/06/2000 19:06	
Surrogate(s)					
o-Terphenyl	76.5	60-130	%	09/06/2000 19:06	

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015m
Prep Method: 3510/8015M
3550/8015M

Batch QC Report
Diesel

Method Blank | **Water** | **QC Batch # 2000/09/05-05.10**

MB: 2000/09/05-05.10-001 | Date Extracted: 09/05/2000 20:32

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	09/06/2000 18:23	
Surrogate(s)					
o-Terphenyl	81.5	60-130	%	09/06/2000 18:23	

To: **Kennedy/Jenks-San Francisco**
Attn: Meredith Durant

Test Method: 8015m
Prep Method: 3510/8015M
3550/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2000/09/06-02.10**

LCS: 2000/09/06-02.10-002 Extracted: 09/06/2000 06:34 Analyzed 09/06/2000 19:40
LCSD: 2000/09/06-02.10-003 Extracted: 09/06/2000 06:34 Analyzed 09/06/2000 20:15

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	33.4	36.6	41.7	41.7	80.1	87.8	9.2	60-130	25		
Surrogate(s)											
o-Terphenyl	20.2	21.4	20.0	20.0	101.0	107.0		60-130			

To: **Kennedy/Jenks-San Francisco**
Attn: Meredith Durant

Test Method: 8015m
Prep Method: 3510/8015M
3550/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/09/05-05.10**

LCS: 2000/09/05-05.10-002 Extracted: 09/05/2000 20:32 Analyzed 09/07/2000 17:51
LCSD: 2000/09/05-05.10-003 Extracted: 09/05/2000 20:32 Analyzed 09/07/2000 17:17

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	991	888	1250	1250	79.3	71.0	11.0	60-130	25		
Surrogate(s)											
o-Terphenyl	20.4	17.7	20.0	20.0	102.0	88.5		60-130			

To: **Kennedy/Jenks-San Francisco**
Attn:Meredith Durant

Test Method: 8015M
Prep Method: 3510/8015M
3550/8015M

Legend & Notes

Diesel

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

nhc

Compounds reported are in this range but they do not exhibit a pattern characteristic of petroleum hydrocarbon.

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 2000-09-0004

Gas/BTEX and MTBE

Kennedy/Jenks-San Francisco
622 Folsom Street
San Francisco, CA 94107-1366
Attn: Meredith Durant
Phone: (415) 243-2534 Fax: (415) 896-0999
Project #: 000109.02
Project: 7100 Regional St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
B-3-22.5/23.0	Soil	08/31/2000 14:15	1
B-3-27.5/28.0	Soil	08/31/2000 14:20	2
B-2-25.5/26.0	Soil	08/31/2000 11:20	4
B-2-W	Water	08/31/2000 15:05	5
B-8/31-DUP	Water	08/31/2000 15:10	6
B-3-W	Water	08/31/2000 15:45	7
B-1-W	Water	08/31/2000 16:00	8

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**B-3-22.5/23.0**	Lab Sample ID:	**2000-09-0004-001**
Project:	000109.02 7100 Regional St.	Received:	08/31/2000 17:25
		Extracted:	09/06/2000 22:33
Sampled:	08/31/2000 14:15	QC-Batch:	2000/09/06-01.01
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/06/2000 22:33	
Benzene	ND	0.0050	mg/Kg	1.00	09/06/2000 22:33	
Toluene	ND	0.0050	mg/Kg	1.00	09/06/2000 22:33	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/06/2000 22:33	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/06/2000 22:33	
MTBE	ND	0.0050	mg/Kg	1.00	09/06/2000 22:33	
Surrogate(s)						
Trifluorotoluene	68.2	53-125	%	1.00	09/06/2000 22:33	
4-Bromofluorobenzene-FID	64.3	58-124	%	1.00	09/06/2000 22:33	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**B-3-27.5/28.0**	Lab Sample ID:	**2000-09-0004-002**
Project:	000109.02 7100 Regional St.	Received:	08/31/2000 17:25
		Extracted:	09/06/2000 23:09
Sampled:	08/31/2000 14:20	QC-Batch:	2000/09/06-01.01
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/06/2000 23:09	
Benzene	ND	0.0050	mg/Kg	1.00	09/06/2000 23:09	
Toluene	ND	0.0050	mg/Kg	1.00	09/06/2000 23:09	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/06/2000 23:09	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/06/2000 23:09	
MTBE	ND	0.0050	mg/Kg	1.00	09/06/2000 23:09	
Surrogate(s)						
Trifluorotoluene	67.3	53-125	%	1.00	09/06/2000 23:09	
4-Bromofluorobenzene-FID	59.3	58-124	%	1.00	09/06/2000 23:09	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**B-2-25.5/26.0**	Lab Sample ID:	**2000-09-0004-004**
Project:	000109.02 7100 Regional St.	Received:	08/31/2000 17:25
		Extracted:	09/07/2000 19:06
Sampled:	08/31/2000 11:20	QC-Batch:	2000/09/07-01.04
Matrix:	Soil		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	6.1	1.0	mg/Kg	1.00	09/07/2000 19:06	g
Benzene	ND	0.0050	mg/Kg	1.00	09/07/2000 19:06	
Toluene	0.036	0.0050	mg/Kg	1.00	09/07/2000 19:06	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/07/2000 19:06	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/07/2000 19:06	
MTBE	ND	0.0050	mg/Kg	1.00	09/07/2000 19:06	
Surrogate(s)						
Trifluorotoluene	116.7	53-125	%	1.00	09/07/2000 19:06	
4-Bromofluorobenzene-FID	89.1	58-124	%	1.00	09/07/2000 19:06	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**B-2-W**	Lab Sample ID:	**2000-09-0004-005**
Project:	000109.02 7100 Regional St.	Received:	08/31/2000 17:25
		Extracted:	09/07/2000 22:26
Sampled:	08/31/2000 15:05	QC-Batch:	2000/09/07-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/07/2000 22:26	
Benzene	ND	0.50	ug/L	1.00	09/07/2000 22:26	
Toluene	ND	0.50	ug/L	1.00	09/07/2000 22:26	
Ethyl benzene	ND	0.50	ug/L	1.00	09/07/2000 22:26	
Xylene(s)	ND	0.50	ug/L	1.00	09/07/2000 22:26	
MTBE	ND	5.0	ug/L	1.00	09/07/2000 22:26	
Surrogate(s)						
Trifluorotoluene	81.9	58-124	%	1.00	09/07/2000 22:26	
4-Bromofluorobenzene-FID	84.8	50-150	%	1.00	09/07/2000 22:26	

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**B-8/31-DUP**	Lab Sample ID:	**2000-09-0004-006**
Project:	000109.02 7100 Regional St.	Received:	08/31/2000 17:25
		Extracted:	09/07/2000 23:00
Sampled:	08/31/2000 15:10	QC-Batch:	2000/09/07-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/07/2000 23:00	
Benzene	ND	0.50	ug/L	1.00	09/07/2000 23:00	
Toluene	ND	0.50	ug/L	1.00	09/07/2000 23:00	
Ethyl benzene	ND	0.50	ug/L	1.00	09/07/2000 23:00	
Xylene(s)	ND	0.50	ug/L	1.00	09/07/2000 23:00	
MTBE	ND	5.0	ug/L	1.00	09/07/2000 23:00	
Surrogate(s)						
Trifluorotoluene	64.7	58-124	%	1.00	09/07/2000 23:00	
4-Bromofluorobenzene-FID	69.5	50-150	%	1.00	09/07/2000 23:00	

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**B-3-W**	Lab Sample ID:	**2000-09-0004-007**
Project:	000109.02 7100 Regional St.	Received:	08/31/2000 17:25
		Extracted:	09/08/2000 18:23
Sampled:	08/31/2000 15:45	QC-Batch:	2000/09/08-01.01
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/08/2000 18:23	
Benzene	ND	0.50	ug/L	1.00	09/08/2000 18:23	
Toluene	ND	0.50	ug/L	1.00	09/08/2000 18:23	
Ethyl benzene	ND	0.50	ug/L	1.00	09/08/2000 18:23	
Xylene(s)	ND	0.50	ug/L	1.00	09/08/2000 18:23	
MTBE	ND	5.0	ug/L	1.00	09/08/2000 18:23	
Surrogate(s)						
Trifluorotoluene	78.9	58-124	%	1.00	09/08/2000 18:23	
4-Bromofluorobenzene-FID	74.5	50-150	%	1.00	09/08/2000 18:23	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID: **B-1-W**

Project: 000109.02
7100 Regional St.

Sampled: 08/31/2000 16:00

Matrix: Water

Lab Sample ID: **2000-09-0004-008**

Received: 08/31/2000 17:25

Extracted: 09/08/2000 18:57

QC-Batch: 2000/09/08-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/08/2000 18:57	
Benzene	ND	0.50	ug/L	1.00	09/08/2000 18:57	
Toluene	ND	0.50	ug/L	1.00	09/08/2000 18:57	
Ethyl benzene	ND	0.50	ug/L	1.00	09/08/2000 18:57	
Xylene(s)	ND	0.50	ug/L	1.00	09/08/2000 18:57	
MTBE	ND	5.0	ug/L	1.00	09/08/2000 18:57	
Surrogate(s)						
Trifluorotoluene	80.6	58-124	%	1.00	09/08/2000 18:57	
4-Bromofluorobenzene-FID	82.6	50-150	%	1.00	09/08/2000 18:57	

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Soil** | **QC Batch # 2000/09/06-01.01**

MB: 2000/09/06-01.01-001

Date Extracted: 09/06/2000 12:39

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	09/06/2000 12:39	
Benzene	ND	0.0050	mg/Kg	09/06/2000 12:39	
Toluene	ND	0.0050	mg/Kg	09/06/2000 12:39	
Ethyl benzene	ND	0.0050	mg/Kg	09/06/2000 12:39	
Xylene(s)	ND	0.0050	mg/Kg	09/06/2000 12:39	
MTBE	ND	0.0050	mg/Kg	09/06/2000 12:39	
Surrogate(s)					
Trifluorotoluene	66.0	53-125	%	09/06/2000 12:39	
4-Bromofluorobenzene-FID	66.4	58-124	%	09/06/2000 12:39	

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 2000/09/07-01.01**

MB: 2000/09/07-01.01-001

Date Extracted: 09/07/2000 11:10

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	09/07/2000 11:10	
Benzene	ND	0.5	ug/L	09/07/2000 11:10	
Toluene	ND	0.5	ug/L	09/07/2000 11:10	
Ethyl benzene	ND	0.5	ug/L	09/07/2000 11:10	
Xylene(s)	ND	0.5	ug/L	09/07/2000 11:10	
MTBE	ND	5.0	ug/L	09/07/2000 11:10	
Surrogate(s)					
Trifluorotoluene	90.0	58-124	%	09/07/2000 11:10	
4-Bromofluorobenzene-FID	81.4	50-150	%	09/07/2000 11:10	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Method Blank | **Soil** | **QC Batch # 2000/09/07-01.04**

MB: 2000/09/07-01.04-001

Date Extracted: 09/07/2000 11:06

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	09/07/2000 11:06	
Benzene	ND	0.0050	mg/Kg	09/07/2000 11:06	
Toluene	ND	0.0050	mg/Kg	09/07/2000 11:06	
Ethyl benzene	ND	0.0050	mg/Kg	09/07/2000 11:06	
Xylene(s)	ND	0.0050	mg/Kg	09/07/2000 11:06	
MTBE	ND	0.0050	mg/Kg	09/07/2000 11:06	
Surrogate(s)					
Trifluorotoluene	67.6	53-125	%	09/07/2000 11:06	

To: **Kennedy/Jenks-San Francisco**

Attn.: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 2000/09/08-01.01**

MB: 2000/09/08-01.01-001

Date Extracted: 09/08/2000 11:03

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	09/08/2000 11:03	
Benzene	ND	0.5	ug/L	09/08/2000 11:03	
Toluene	ND	0.5	ug/L	09/08/2000 11:03	
Ethyl benzene	ND	0.5	ug/L	09/08/2000 11:03	
Xylene(s)	ND	0.5	ug/L	09/08/2000 11:03	
MTBE	ND	5.0	ug/L	09/08/2000 11:03	
Surrogate(s)					
Trifluorotoluene	80.8	58-124	%	09/08/2000 11:03	
4-Bromofluorobenzene-FID	80.0	50-150	%	09/08/2000 11:03	

To: **Kennedy/Jenks-San Francisco**

Attn: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2000/09/06-01.01**

LCS: 2000/09/06-01.01-002 Extracted: 09/06/2000 15:35 Analyzed 09/06/2000 15:35

LCSD: 2000/09/06-01.01-003 Extracted: 09/06/2000 16:10 Analyzed 09/06/2000 16:10

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	0.478	0.517	0.500	0.500	95.6	103.4	7.8	75-125	35		
Benzene	0.0923	0.0911	0.1000	0.1000	92.3	91.1	1.3	77-123	35		
Toluene	0.0899	0.0888	0.1000	0.1000	89.9	88.8	1.2	78-122	35		
Ethyl benzene	0.0900	0.0892	0.1000	0.1000	90.0	89.2	0.9	70-130	35		
Xylene(s)	0.267	0.267	0.300	0.300	89.0	89.0	0.0	75-125	35		
Surrogate(s)											
Trifluorotoluene	453	447	500	500	90.6	89.4		53-125			
4-Bromofluorobenzene-FI	373	421	500	500	74.6	84.2		58-124			

To: **Kennedy/Jenks-San Francisco**

Attn: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/09/07-01.01**

LCS: 2000/09/07-01.01-002 Extracted: 09/07/2000 11:45 Analyzed 09/07/2000 11:45

LCSD: 2000/09/07-01.01-003 Extracted: 09/07/2000 12:20 Analyzed 09/07/2000 12:20

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	549	576	500	500	109.8	115.2	4.8	75-125	20		
Benzene	89.3	87.1	100.0	100.0	89.3	87.1	2.5	77-123	20		
Toluene	87.9	85.4	100.0	100.0	87.9	85.4	2.9	78-122	20		
Ethyl benzene	87.7	85.0	100.0	100.0	87.7	85.0	3.1	70-130	20		
Xylene(s)	258	250	300	300	86.0	83.3	3.2	75-125	20		
Surrogate(s)											
Trifluorotoluene	449	425	500	500	89.8	85.0		58-124			
4-Bromofluorobenzene-FI	405	411	500	500	81.0	82.2		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**

Attn: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 2000/09/07-01.04**

LCS: 2000/09/07-01.04-002 Extracted: 09/07/2000 11:33 Analyzed 09/07/2000 11:33

LCSD: 2000/09/07-01.04-003 Extracted: 09/07/2000 12:01 Analyzed 09/07/2000 12:01

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	0.535	0.601	0.500	0.500	107.0	120.2	11.6	75-125	35		
Benzene	0.0823	0.0958	0.1000	0.1000	82.3	95.8	15.2	77-123	35		
Toluene	0.0802	0.0931	0.1000	0.1000	80.2	93.1	14.9	78-122	35		
Ethyl benzene	0.0799	0.0923	0.1000	0.1000	79.9	92.3	14.4	70-130	35		
Xylene(s)	0.231	0.267	0.300	0.300	77.0	89.0	14.5	75-125	35		
Surrogate(s)											
Trifluorotoluene	416	484	500	500	83.2	96.8		53-125			
4-Bromofluorobenzene-FI	354	393	500	500	70.8	78.6		58-124			

To: **Kennedy/Jenks-San Francisco**

Attn: Meredith Durant

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/09/08-01.01**

LCS: 2000/09/08-01.01-002 Extracted: 09/08/2000 11:37 Analyzed 09/08/2000 11:37

LCSD: 2000/09/08-01.01-003 Extracted: 09/08/2000 12:12 Analyzed 09/08/2000 12:12

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	521	428	500	500	104.2	85.6	19.6	75-125	20		
Benzene	87.8	86.8	100.0	100.0	87.8	86.8	1.1	77-123	20		
Toluene	85.8	86.1	100.0	100.0	85.8	86.1	0.3	78-122	20		
Ethyl benzene	84.7	86.2	100.0	100.0	84.7	86.2	1.8	70-130	20		
Xylene(s)	250	253	300	300	83.3	84.3	1.2	75-125	20		
Surrogate(s)											
Trifluorotoluene	432	437	500	500	86.4	87.4		58-124			
4-Bromofluorobenzene-FI	381	305	500	500	76.2	61.0		50-150			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0004

To: **Kennedy/Jenks-San Francisco**

Test Method: 8020
8015M

Attn.: Meredith Durant

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Matrix Spike (MS / MSD) **Water** **QC Batch # 2000/09/07-01.01**

Sample ID: **B-2-W** Lab Sample ID: 2000-09-0004-005

MS: 2000/09/07-01.01-004 Extracted: 09/07/2000 23:35 Analyzed: 09/07/2000 23:35 Dilution: 1.0

MSD: 2000/09/07-01.01-005 Extracted: 09/08/2000 00:10 Analyzed: 09/08/2000 00:10 Dilution: 1.0

Compound	Conc. [ug/L]			Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	[%]	Recovery	RPD	MS	MSD
Gasoline	567	539	ND	500	500	113.4	107.8	5.1	65-135	20		
Benzene	86.0	84.3	ND	100.0	100.0	86.0	84.3	2.0	65-135	20		
Toluene	84.4	82.6	ND	100.0	100.0	84.4	82.6	2.2	65-135	20		
Ethyl benzene	83.7	81.4	ND	100.0	100.0	83.7	81.4	2.8	65-135	20		
Xylene(s)	248	241	ND	300	300	82.7	80.3	2.9	65-135	20		
Surrogate(s)												
Trifluorotoluene	423	414		500	500	84.6	82.8		58-124			
4-Bromofluorobenzene-F	421	410		500	500	84.2	82.0		50-150			

To: **Kennedy/Jenks-San Francisco**

Attn:Meredith Durant

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

CHROMALAB

Change request received by:_____ Date Requested:___/___/___

SAMPLE STATUS CHANGE FORM				Requested by
Submission#	Client Samp.ID	Old Status Description	Description of Changes	(Client's name)
09-0004	1, 2, 4	HOLD	G/B/M Diesel	K-J
Changes were done in lims by(login):_____ On:___/___/___				
CC: ___ Lab.Director ___ Dept.manager ___ Analyst ___Proj.Manager				

SEP. 1.2000 2:15PM KENNEDY JENKS CONSUL NO.899 P.2

Kennedy/Jenks Consultants

Sample Chain-Of-Custody Analysis Request

☐ 200 New Stine Road, #115, Bakersfield, CA 93309
☐ 530 South 336th Street, Federal Way, WA 98003
☐ 2151 Michelson Drive, #100, Irvine, CA 92612-1311
☐ 2191 East Bayshore Rd., #200, Palo Alto, CA 94303
☐ 2828 SW Naito Parkway, #350, Portland, OR 97201
☐ 5190 Neil Road, #300, Reno, NV 89502
☐ 3336 Bradshaw Road, #140, Sacramento, CA 95827
☑ 622 Folsom St., San Francisco, CA 94107
☐ 1000 Hill Road, #200, Ventura, CA 93003

POSSIBLE HAZARDS: Analytes

Date 8/31/00 Report To M. Durant

Source of Samples 7100 Regional St Company K/J

Sampler Name M McLeod Address 622 Folsom St

Phone 415-243-2508

Project No. 000109.02 Phone 415-243-2534

Lab Destination Chromalab

Address 1220 Quarry Ln, Pleasanton

Phone 925-484-1919

Carrier/Way Bill No. n/a

(5) ANALYSES REQUESTED: BTEX + MTBE (8021); TPH-g (8015M); TPH-d (8015M)

(1) Lab ID No.	(1) Client ID No.	Collection Date	Collection Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	BTEX + MTBE (8021)	TPH-g (8015M)	TPH-d (8015M)						Comments (Container type, volume, etc.)
	B-3-22.5/22.0	8/31	1415	S		N.	4°C	STD	X	X	X						~~HOLD~~ Run MM 9/1/00
	B-3-27.5/28.0	8/31	1420	S		N.	"	"	X	X	X						~~HOLD~~ run MM 9/1/00
	B-2-24.0/24.5	"	1105	"		"	"	"	~~X~~	~~X~~	~~X~~						HOLD
	B-2-25.5/26.0	"	1120	"		"	"	"	X	X	X						~~HOLD~~ Run MM 9/1/00
	B-2-W	"	1505	W		"	"	"	X	X	X						1, 1-L amber
	B 8/31-Dup	"	1510	"		"	"	"	X	X	X						3 VOAS - no Pres. 1, 1-L amber
	B-3-W	"	1545	"		"	"	"	X	X	X						No Pres. in HCl VOA'S. 1 L
	B-1-W	"	1600	"		"	"	"	X	X	X						

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

SAMPLE RELINQUISHED BY: SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time	Print Name	Signature	Company	Date	Time
Phil McLeod	[signature]	K/J	8/31	1725	D. HARRINGTON	Denise Harrington	Chromalab	8/31	1725

g:\ls-group\admin\guides\forms\paper\custody2.fm

Fax Transmittal

Kennedy/Jenks Consultants
622 Folsom Street
San Francisco, California 94107
415-243-2150; 415-896-0999 (Fax)

To: Gary Cook
Chromalab

FROM: MICHAEL McLEOD
DATE: 9/1/00
K/J JOB #: ~~000164~~ 000109.02
SUBJECT:

Telephone: 925 484 1919
Fax: 925- 484-1096
Total Number Of Pages (including this cover) 2

REMARKS:

Gary,

Please see attached C-of-C.

Three add'l samples

Signed: Mike McLeod

Copies To:

Kennedy/Jenks Consultants

□ 200 New Stine Road, #115, Bakersfield, CA 93309
□ 530 South 336th Street, Federal Way, WA 98003
□ 2151 Michelson Drive, #100, Irvine, CA 92612-1311
□ 2495 Bayshore Rd., #200, Palo Alto, CA 94303
□ 2828 SW Naito Parkway, #350, Portland, OR 97201
□ 5190 Neil Road, #300, Reno, NV 89502
□ 3336 Bradshaw Road, #140, Sacramento, CA 95827
X 822 Folsom St., San Francisco, CA 94107
□ 1000 Hill Road, #200, Ventura, CA 93003

Sample Chain-Of-Custody Analysis Request

2000-09-0004

POSSIBLE HAZARDS: Analytes

Date 8/31/00 | Report To M. Durant

Source of Samples 7100 Regional St | Company KJ

Sampler Name M. McLaud | Address 822 Folsom St

Phone 415-243-2508 | Phone 415-243-2534

Project No. 000109.02

Lab Destination Chromalab

Address 1220 Quarry Ln
Pleasanton

Phone 925-484-1919

Carrier/Way Bill No. n/a

(1) Lab ID No.	(1) Client ID No.	COLLECTION Date	COLLECTION Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	(5) ANALYSES REQUESTED: BTEX + MTBE (EPA 8260)	TPH-g (8015M)	TPH-d (8015M)						Comment/Conditions (Container type, container number, etc.)
	B-3-22.5/23.0	8/31	1415	S		No	4°C	STD	X	X	X						HOLD
	B-3-27.5/28.0	8/31	1420	S		No	"	"	X	X	X						HOLD
	B-2-24.0/24.5	"	1105	"		"	"	"	X	X	X						HOLD
	B-2-29.5/26.0	"	1120	"		"	"	"	X	X	X						HOLD
	B-2-W	"	1505	W		"	"	"	X	X	X						1, 1-L amber
	B 8/31-Dup	"	1510	"		"	"	"	X	X	X						3 VOA's - no Pres. 1, 1-L amber
	B-3-W	"	1545	"		"	"	"	X	X	X						No Pres. in ~~Hcl~~ VOA's. 1 L
	B-1-W	"	1600	"		"	"	"	X	X	X						

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

4.0°C

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Mike McLaud	Mike McLaud	KJ	8/31	1725

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time
D. HARRINGTON	Denise Harrington	Chromalab	8/31/00	1725

g:\ls-group\admin\guides\forms\paper\custody2.frm

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 2000-09-0181
Date: September 19, 2000

Kennedy/Jenks-San Francisco
622 Folsom Street
San Francisco, CA 94107-1366

Attn.: Ms. Meredith Durant

Project: 0000109.02
7100 Regional St.

Dear Meredith,

Attached is our report for your samples received on Thursday August 31, 2000
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after October 15, 2000 unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: gcook@chromalab.com

Sincerely,

Gary Cook

Gary Cook

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0181

Diesel with Silica Gel Clean-up

Kennedy/Jenks-San Francisco

622 Folsom Street
San Francisco, CA 94107-1366

Attn: Meredith Durant

Phone: (415) 243-2534 Fax: (415) 896-0999

Project #: 0000109.02

Project: 7100 Regional St.

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
B-1-W,2nd 1-l amber	Water	08/31/2000	1

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 2000-09-0181

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015M
Prep Method: 3510/8015M

Diesel with Silica Gel Clean-up

Sample ID:	**B-1-W,2nd 1-l amber**	Lab Sample ID:	**2000-09-0181-001**
Project:	0000109.02 7100 Regional St.	Received:	08/31/2000 11:02
		Extracted:	09/12/2000 07:02
Sampled:	08/31/2000	QC-Batch:	2000/09/12-01.10
Matrix:	Water		

Sample/Analysis Flag rl (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	63	ug/L	1.25	09/13/2000 12:39	
Surrogate(s)						
o-Terphenyl	78.0	60-130	%	1.25	09/13/2000 12:39	

To: **Kennedy/Jenks-San Francisco**
Attn.: Meredith Durant

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report
Diesel with Silica Gel Clean-up

Method Blank | **Water** | **QC Batch # 2000/09/12-01.10**

MB: 2000/09/12-01.10-001 | Date Extracted: 09/12/2000 07:02

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	09/12/2000 23:39	
Surrogate(s)					
o-Terphenyl	82.5	60-130	%	09/12/2000 23:39	

To: **Kennedy/Jenks-San Francisco**

Attn: Meredith Durant

Test Method: 8015M

Prep Method: 3510/8015M

Batch QC Report

Diesel with Silica Gel Clean-up

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 2000/09/12-01.10**

LCS: 2000/09/12-01.10-002 Extracted: 09/12/2000 07:02 Analyzed 09/13/2000 00:17

LCSD: 2000/09/12-01.10-003 Extracted: 09/12/2000 07:02 Analyzed 09/13/2000 00:56

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	979	980	1250	1250	78.3	78.4	0.1	60-130	25		
Surrogate(s)											
o-Terphenyl	17.7	17.5	20.0	20.0	88.5	87.5		60-130			

To: **Kennedy/Jenks-San Francisco**
Attn: Meredith Durant

Test Method: 8015M
Prep Method: 3510/8015M

Legend & Notes

Diesel with Silica Gel Clean-up

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

ADD ON/CHANGE ORDER

2000-09-0181
New Submission No:

Order No: 4401

Original Submission Info

Client Name: Kennedy/Jenks-SF

Project Mgr: Meredith Durant

Project Name: 7100 Regional St

Project No: 000109.02

PO#:

Date Received: 08/31/00

Submission No: 2000-09-0004

Name of Caller: Michael McLeod

Call Date: 09/12/00 Time:

Add on Due Date: 09/19/00 Date Sampled

Comments: Holding time up 09/14/00

Sampled on 08/31/00. (Diesel with silica gel cleanup.)

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH-(EPA 8015, 8020) ☐ Gas w/ ☐ BTEX ☐ MTBE	PURGEABLE AROMATICS BTEX (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPH (EPA 8015M) with Silica Gel ☐ Diesel ☐ M.O. ☐ Other	PURGEABLE HALOCARBONS (HVOCs) (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMIVOLATILES (EPA 8270)	Oil & Grease ☐ Petrol ☐ Total ☐ 1664		☐ PESTICIDES(EPA 8080) ☐ PCB'S (EPA 8080)	PNA's by ☐ 8270 ☐ 8310	☐ Spec. Cond. ☐ TSS ☐ TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 6010/7470/7471)	TOTAL LEAD	☐ W.E.T. (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24 hr hold time for H20)				NUMBER OF CONTAINERS
B-1-W-2nd12	08/31		water					X																	
#8																									

Fax Transmittal

Kennedy/Jenks Consultants
622 Folsom Street
San Francisco, California 94107
415-243-2150; 415-896-0999 (Fax)

To: Surinda Sidhu
Chromalab

FROM: MICHAEL McLEOD
DATE: 9/12
K/J JOB #:
SUBJECT: 415-243-2508

Telephone: 925-484-1919
Fax: 484-1096

Total Number Of Pages (including this cover) 2

REMARKS:

Surinda,

Please see amended C-of-C

Samples were collected on 8/31/00 so time is short. STD. TAT

Thanks

Signed: Michael McLeod

Copies To:

1810.60

09-0181

SEP. 12. 2000 9:59AM KENNEDY JENKS CONSUL NO. 262 P. 2

Kennedy/Jenks Consultants

Sample Chain-Of-Custody Analysis Request

- 200 New Stine Road, #115, Bakersfield, CA 93309
- 530 South 336th Street, Federal Way, WA 98003
- 2151 Michelson Drive, #100, Irvine, CA 92612-1311
- 2191 East Bayshore Rd., #200, Palo Alto, CA 94303
- 2828 SW Naito Parkway, #350, Portland, OR 97201
- 5190 Neil Road, #300, Reno, NV 89502
- 3336 Bradshaw Road, #140, Sacramento, CA 95827
- 622 Folsom St., San Francisco, CA 94107
- 1000 Hill Road, #200, Ventura, CA 93003

POSSIBLE HAZARDS: Analytes

Date 8/31/00

Source of Samples 7100 Regional St

Sampler Name M. McLeod

Phone 415-243-2508

Project No. 000109.02

Report To M. Durant

Company K/J

Address 622 Folsom St

Phone 415-243-2534

Lab Destination Chromalab

Address 1220 Quarry Ln Pleasanton

Phone 925-484-1919

Carrier/Way Bill No. n/a

(1) Lab ID No.	(1) Client ID No.	Collection Date	Collection Time	(2) Type	Depth	(3) Comp.	(4) Pres.	Turn around	(5) Analyses Requested: BTEX + MTBE (8021B)	TPH-g (8015M)	TPH-d (8015M)	Si-Gel Cleanup					Comments/Conditions (Container type, container number, etc.)
	B-3-22.5/23.0	8/31	1415	S		N.	4°C	STD	X	X	X						~~HOLD~~ Run MM ~~8/31~~ 9/1/00
	B-3-27.5/28.0	8/31	1420	S		N.	"	"	X	X	X						~~HOLD~~ run MM 9/1/00
	B-2-24.0/24.5	"	1105	"		"	"	"	~~X~~	~~X~~	~~X~~						HOLD
	B-2-25.5/26.0	"	1120	"		"	"	"	X	X	X						~~HOLD~~ Run MM 9/1/00
	B-2-W	"	1505	W		"	"	"	X	X	X						1, 1-l amber
	B 8/31-Dup	"	1510	"		"	"	"	X	X	X						3 VOA's - no Pres. 1, 1-l amber
	B-3-W	"	1545	"		"	"	"	X	X	X						No Pres. in ~~HCl~~ VOA's. 1 l
	B-1-W	"	1600	W		"	"	"	X	X	X						
	B-1-W, 2nd 1-l amber							STD			(X)	(X)					9/12/00 Run 2nd liter w/ Si Gel cleanup

(1) Write only one sample number in each space.
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.
(4) Preservation of sample.
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

SAMPLE RELINQUISHED BY: Print Name	Signature	Company	Date	Time	SAMPLE RECEIVED BY: Print Name	Signature	Company	Date	Time
M. McLeod	[signature]	K/J	8/31	1725	D. HARRINGTON	Denise Harrington	Chromalab	8/31/00	1725

ChromaLab, Inc. **2000-09-0004**

Logged on : 09/05/2000 @ 16:41 by gcook Due: Friday 09/08/2000 @ 17:00

09-018

Client	Bill To	Report To
Kennedy/Jenks-San Francisco 622 Folsom Street San Francisco, CA 94107-1366	Kennedy/Jenks San Francisco 622 Folsom St. San Francisco, CA 94107-1366	Kennedy/Jenks-San Francisco 622 Folsom Street San Francisco, CA 94107-1366
Contact: Meredith Durant	Contact: Accounts Payable	Contact: Meredith Durant

Project: 000109.02
7100 Regional St.
Site:
PO#:
Quote#:

Rcvd: 08/31/2000 @ 17:25
TAT: 5 Day
Disp: 10/15/2000

Temp: 4.0°C **PM:** Gary Cook

#	Matrix	Sample Name		Date Sampled	Analysis	BaseMatrix
1	Soil	B-3-22.5/23.0		08/31/2000 @ 14:15	SO	
		5 Day	Due: 09/08/2000 @ 17:00	DIESEL	REGULAR	
		5 Day	Due: 09/08/2000 @ 17:00	GBTEX+MT	REGULAR	
2	Soil	B-3-27.5/28.0		08/31/2000 @ 14:20	SO	
		5 Day	Due: 09/08/2000 @ 17:00	DIESEL	REGULAR	
		5 Day	Due: 09/08/2000 @ 17:00	GBTEX+MT	REGULAR	
3	Soil	B-2-24.0/24.5		08/31/2000 @ 11:05	SO	HOLD
4	Soil	B-2-25.5/26.0		08/31/2000 @ 11:20	SO	
		5 Day	Due: 09/08/2000 @ 17:00	DIESEL	REGULAR	
		5 Day	Due: 09/08/2000 @ 17:00	GBTEX+MT	REGULAR	
5	Water	B-2-W		08/31/2000 @ 15:05	WA	
		5 Day	Due: 09/08/2000 @ 17:00	DIESEL	REGULAR	
		5 Day	Due: 09/08/2000 @ 17:00	GBTEX+MT	REGULAR	
6	Water	B-8/31-DUP		08/31/2000 @ 15:10	WA	
		5 Day	Due: 09/08/2000 @ 17:00	DIESEL	REGULAR	
	A:A	5 Day	Due: 09/08/2000 @ 17:00	GBTEX+MT	REGULAR	
7	Water	B-3-W		08/31/2000 @ 15:45	WA	
		5 Day	Due: 09/08/2000 @ 17:00	DIESEL	REGULAR	
	A:A	5 Day	Due: 09/08/2000 @ 17:00	GBTEX+MT	REGULAR	
8	Water	B-1-W		08/31/2000 @ 16:00	WA	
		5 Day	Due: 09/08/2000 @ 17:00	DIESEL	REGULAR	
	A:A	5 Day	Due: 09/08/2000 @ 17:00	GBTEX+MT	REGULAR	

Analysis Comments:

A:A /*VOAS UNPRES*/

Sub-x : Subcontracted Out, MS : Must run Matrix Spike on this Sample, DUP : Must run Duplicate on this Sample