HK2, Inc./SEMCO
70 CHEMICAL WAY • REDWOOD CITY, CALIFORNIA • (650) 261-1968 • (650) 261-0735 FAX
GENERAL ENGINEERING & ENVIRONMENTAL CONTRACTORS • LICENSE NO. 719103 (A, B, C57, C61/D40, HAZ, ASB)

ENVIRONMENTAL PROTECTION
98 MAY -4 PM 4:58

April 30, 1998

- start closure
- request site health & safety plan

Ms. Pamela Evans
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RE: Site Characterization and Remedial Excavation Activities at 701 San Pablo Avenue, Albany, California (HK2 Project 97-0247)

Dear Ms. Evans:

Enclosed is our report summarizing the site characterization and remedial excavation activities performed at the former Chevron Station at 701 San Pablo Avenue in Albany, California. Please call if you have any questions.

Sincerely,

HK2, Inc./SEMCO

Deno G. Milano, RG
Senior Geologist

cc: Ms. Ingrid Werner (1 copy)
Ms. Polly Higgins (3 copies)

97-0247.RE

SITE CHARACTERIZATION AND REMEDIAL EXCAVATION REPORT

Former Chevron Station
701 San Pablo Avenue
Albany, California

PREPARED BY:

HK2, Inc./SEMCO
70 Chemical Way
Redwood City, California 94063
(650) 261-1968 phone
(650) 261-0735 fax

Project No. 97-0247

April 1998

INTRODUCTION

This report presents the results of site characterization and remedial excavation activities performed by HK2, Inc./SEMCO (HK2) between May 1997 and February 1998 at the former Chevron Station located at 701 San Pablo Avenue in Albany, California. The site location is shown in Figure 1. Figure 2 is a site plan. The work was performed in accordance with the work plan dated March 26, 1997, and the activities recommended in our letter dated November 10, 1997.

SITE DESCRIPTION

The site is on the southeast corner of the intersection of San Pablo Avenue and Portland Avenue, approximately 0.5 mile east of San Francisco Bay and 0.3 mile south of Cerrito Creek (the nearest surface water bodies; Figure 1). Grade elevation is approximately 40 feet above mean sea level (National Geodetic Vertical Datum- 1929). The property is currently owned by Ms. Ingrid Werner (Alameda County Assessor's Parcel Number 66-2812-1-1). It was a Chevron Service Station prior to February 1979 and a pottery shop from 1979 to 1995. The site has been vacant since February 1995. According to the City of Albany, land use immediately north, south, and west of the site is zoned for commercial purposes. The property east of the site is zoned for residential use.

The property is in the East Bay Plain groundwater basin according to the Water Quality Control Plan prepared by the California Regional Water Quality Control Board (CRWQCB; 1995). Groundwater in this basin is designated beneficial for municipal, agricultural, and industrial uses. According to geologic maps published by the California Department of Conservation (1991) and United States Department of the Interior (1993), the site is underlain by clay- to gravel-sized alluvium (thickness not established) deposited on sandstones, shales, and conglomerates of the Mesozoic Franciscan Complex. These maps indicate the site is approximately 1.25 miles southwest of the Hayward Fault Zone.

BACKGROUND

In February 1979 Bay Excavators removed four underground gasoline storage tanks (one 2,000-gallon, two 3,000-gallon, and one 6,000-gallon) from the northern portion of the site (Figure 2) and backfilled the excavation with the excavated material and approximately 140 tons of quarry fill soil and Class II base rock. No soil samples were collected according to records prepared by Bay Excavators. The property was subsequently leased to a pottery shop.

In December 1988 Mr. Glen Hertzberg sold the property to Ms. Werner. It was not established if Mr. Hertzberg had previously purchased the property from Chevron or only leased the property to Chevron during the company's tenure. Ms. Werner subsequently extended the lease to the pottery shop.

On June 20, 1996, SEMCO removed one 285-gallon waste oil tank that had not been used since Chevron occupied the property. A soil sample collected at approximately 6.5 feet below grade (fbg;

approximately 2 feet beneath the former tank) contained 310 milligrams/kilogram (mg/kg) total petroleum hydrocarbons (TPH) as gasoline (TPH-G), 1,300 mg/kg TPH as diesel (TPH-D), 620 mg/kg total extractable petroleum hydrocarbons (TEPH), 0.46 mg/kg benzene, 9.9 mg/kg total semi-volatile organic compounds (SVOCs; naphthalene and 2-methylnaphthalene), and 720 mg/kg of lead. Halogenated volatile organic compound (HVOC) concentrations were below the laboratory reporting limit (0.025 to 0.25 mg/kg). The tank cavity was excavated to a depth of approximately 5 fbg and the excavated soil was stockpiled onsite. Additional details are in the SEMCO report dated July 1996. The laboratory results of soil sample analysis are summarized in Tables 1 and 2.

On October 4 and 9, 1996, SEMCO drilled six borings to evaluate the hydrocarbon content of soil and groundwater in the vicinity of the former underground gasoline storage tanks (B1 and B2), former waste oil tank (B3 and B4), and dispenser island (B5 and B6). The location of these borings is shown on Figure 2. Soil samples collected from B1 through B5 contained up to 2.2 mg/kg TPH-G, 56 mg/kg TPH-D, and 0.87 mg/kg benzene. The soil sample collected from B6 (southern end of the dispenser island) contained 3,600 mg/kg TPH-G and <0.005 mg/kg benzene. TEPH and SVOC concentrations in soil samples collected near the former waste oil tank (B3 and B4) were below the laboratory reporting limit. Groundwater samples collected from B1 through B3 contained ≤680 micrograms per liter (ug/l) TPH-G, <50 ug/l TPH-D, and ≤2 ug/l benzene. The groundwater collected from B3 contained 20,000 ug/l TEPH, but the TPH-G, TPH-D, benzene, and SVOC concentrations in this sample were below laboratory reporting limits. Depth to groundwater was between 6.6 and 14.5 fbg. Additional details are in the HK2 report dated December 31, 1996. The laboratory results of soil sample and groundwater analysis are summarized in Tables 1 through 4.

After reviewing the December 1996 report, Ms. Juliet Shin of the Alameda County Health Care Services Agency (ACHCSA), in a letter dated January 14, 1997 (Appendix A), requested a work plan to evaluate the hydrocarbon content of groundwater downgradient of Boring B1 and the lateral and vertical extent of TPH-G in the vicinity of B6. The work in the vicinity of B1 was requested because: 1) the soil benzene concentration measured in B1 (0.87 mg/kg) exceeded the 10^{-5} soil vapor intrusion into buildings and soil leachate groundwater protection Risk Based Screening Level (RBSL) listed for benzene in Designation E1739 published by the American Society for Testing and Materials (ASTM), 2) the dissolved-phase benzene concentration measured in B1 (2 ug/l) exceeded the CRWQCB municipal supply water quality objective for benzene (1 ug/l), and 3) the dissolved-phase TEPH concentration in B-3 was 20,000 ug/l.

HK2 was contracted by Ms. Werner to prepare the requested work plan. The work plan proposed to drill one boring adjacent to the northern edge of the former gasoline USTs instead of downgradient of B1 because: 1) the downgradient groundwater direction had not been established at this site, 2) the dissolved-phase benzene concentration near B1 approximated the CRWQCB municipal supply water quality objective, and 3) the lateral extent of hydrocarbon-affected soil and groundwater north of the former fuel tank USTs had not been assessed. The work plan was submitted to the ACHCSA on March 26, 1997, and approved by Ms. Shin on April 4, 1997. A copy of Ms. Shin's approval letter is in Appendix A. The implementation of the work plan is described below.

SITE ASSESSMENT AND REMEDIAL EXCAVATION

May 1997 Site Characterization

On May 6, 1997, HK2 drilled four 2-inch-diameter percussion borings (B7 to B10) to evaluate the lateral and vertical extent of hydrocarbon-affected soil (B7 and B8) and groundwater (B7 through B9) and the physical characteristics of soil beneath the site (B10). The location of these borings is shown on Figure 2. A copy of the boring permit is in Appendix A. General field procedures and a copy of each boring log is in Appendix B.

No soil samples were collected from B7 because tank cavity backfill was encountered (the boring was drilled in an attempt to evaluate native soil north of the former fuel tank cavity without having to obtain public right-of-way permits). No soil samples were collected from B9 because samples previously collected from B3 characterized the soil in this area. Soil samples were collected from B8 and B10 by repeatedly driving an 2-foot-long split-spoon sampler lined with a plastic tube. The samples were screened with an organic vapor analyzer, described using the Unified Soil Classification System, capped with Teflon tape and plastic caps, labeled, and placed in an ice chest chilled to approximately 4°C. Three samples collected from B8 were submitted to North State Environmental (NSE; a California certified laboratory) for analysis of TPH-G (Modified EPA Method 8015), benzene, toluene, ethylbenzene, and total xylenes (BTEX; EPA Method 8020), and methyl tert-butyl ether (MTBE; EPA Method 8020). Two samples from B10 characteristic of subsurface lithology were also submitted to Cooper Testing laboratories for analysis of porosity, moisture content, bulk density, and organic content. The laboratory reports and chain of custody records are in Appendix C. Tables 1 and 2 summarize the laboratory results of soil sample hydrocarbon and metal analyses performed to date.

Following soil sample collection, Borings B7 and B10 were backfilled with Portland cement (1 fbg to total depth) and asphalt (0 to 1 fbg) and 0.75-inch-diameter PVC casing (slotted casing below approximately 7 fbg) was placed in Borings B8 and B9. Groundwater was not observed in B8 and B9 until May 8, 1997. The water in B8 was sampled with a stainless steel bailer. The water in B9 (approximately 3 inches) was not sampled because we could not establish if the origin of the water was the saturated zone. The groundwater samples collected from B8 were labeled, placed in an ice chest chilled to approximately 4°C, and submitted to NSE for analysis of TPH-G (Modified EPA Method 8015), BTEX (EPA Method 8020), MTBE (EPA Method 8020), and total dissolved solids (TDS: EPA Method 160.1). Following sample collection, HK2 removed the PVC casing from Borings B8 and B9 and backfilled each boring with Portland cement. Approximately 6 gallons of equipment wash and rinse water was placed in a 55-gallon drum.

HK2 discussed the findings of the May 1997 investigation with Ms. Pamela Evans of the ACHCSA who superseded Ms. Shin as the lead regulatory contact for this site. Based on a review of previous work, HK2, in a letter dated November 10, 1997, proposed remedial excavation and additional site characterization activities, and requested the ACHCSA to proceed with case closure if low levels of hydrocarbons were measured in the soil and groundwater samples. The letter recommended: 1) drilling one boring into native soil north of the former fuel tank cavity, 2) excavating hydrocarbon-

affected soil previously encountered beneath the former dispenser island and waste oil tank cavity, 3) sampling the soil backfilled into the former fuel tank cavity, and 4) performing no further assessment of groundwater in the vicinity of B3. The letter was verbally approved by Ms. Evans in a telephone conversation dated November 14, 1997. Ms. Evans also approved HK2's request to delay the report on our May 1997 site characterization activities until the recommended activities could be incorporated. The implementation of the recommended work is described below.

January and February 1998 Characterization and Remedial Excavation

On January 23, 1998, HK2 drilled one 2-inch-diameter percussion boring (B11) to approximately 21 fbg and collected four samples from the waste oil tank cavity soil stockpile. B11 was drilled to evaluate the lateral and vertical extent of hydrocarbon-affected soil and groundwater north of the former fuel tank cavity. The stockpile samples were collected to profile the stockpile for disposal. The location of B11 is shown on Figure 2. A copy of the boring permit is in Appendix A. General field procedures and a copy of the boring log is in Appendix B.

Soil samples were collected from B11 by repeatedly driving an 2-foot-long split-spoon sampler lined with a plastic tube. The stockpile samples were collected by driving a brass tube into each quarter of the stockpile between approximately 1 to 2 fbg. The samples were screened with an organic vapor analyzer, described using the Unified Soil Classification System, capped with Teflon tape and plastic caps, labeled, placed in an ice chest chilled to approximately 4°C, and submitted to NSE. NSE analyzed four samples from B11 for TPH-G (Modified EPA Method 8015), BTEX (EPA Method 8020), and MTBE (EPA Method 8020). The samples collected at approximately 10 and 20 fbg were also analyzed for TPH-D and TPH as motor oil (TPH-MO; Modified EPA Method 8015). NSE also composited the soil stockpile samples and analyzed the composite sample for soluble lead (California Waste Extraction Test [WET] and Toxicity Characteristic Leaching Procedure [TCLP]), and reactivity, corrosivity, and ignitability (SW 846 approved methods). The laboratory reports and chain of custody records are in Appendix C. Tables 1 and 2 summarize the laboratory results of the hydrocarbon and metals analyses.

Following soil sample collection, HK2 installed 0.75-inch-diameter PVC casing in B11 (slotted casing below approximately 6 fbg) and collected groundwater samples using a stainless steel bailer. The groundwater samples were labeled, placed in an ice chest chilled to approximately 4°C, and submitted to NSE for analysis of TPH-G (Modified EPA Method 8015), BTEX (EPA Method 8020), and MTBE (EPA Method 8020). The laboratory report and chain of custody record is in Appendix C. The laboratory results are listed in Table 3. Following sample collection, HK2 removed the PVC casing from B11 and backfilled the boring up to 1 fbg with Portland cement. The balance of the boring was backfilled with asphalt. Approximately 6 gallons of equipment wash and rinse water was placed in the 55-gallon drum used to store the waste water generated during May 1997 drilling activities.

Between February 4 and 9, 1998, HK2 demolished the station building and removed the canopy structures as requested by Ms. Werner. A copy of the Bay Area Air Quality Management District asbestos demolition form and the City of Albany Demolition permit is in Appendix A.

On February 11, 1998, Clearwater Environmental Management (CEM) pumped approximately 575 gallons of rainwater from the former waste oil tank cavity to expose native soil and HK2: 1) removed the steel product line, 2) excavated a small opening in the former fuel tank cavity to evaluate the hydrocarbon content of tank cavity backfill, 3) remedially excavated the soil in the vicinity of the former dispenser island and waste oil tank cavity, and 4) collected confirmation samples to evaluate the effectiveness of the remediation. The soil surrounding the former dispenser island was excavated up to approximately 6 fbg. The soil in the vicinity of the former waste oil tank cavity was excavated to approximately 10 fbg. Soil sample locations and the location of the remedially excavated areas are shown in Figure 3. No permits were required for this work.

Soil samples were collected from the fuel tank cavity backfill (EX1), beneath the product line (EX9 and EX11), and the former dispenser island (EX2 through EX10) by scraping the soil from a cut sidewall into a labeled glass jar (the soil was too stiff to hand drive a metal tube into). No soil samples were collected from the excavation surrounding the former waste oil tank, as approved by the ACHCSA, because soil samples previously collected from the cavity and B4 have vertically characterized the soil in this area. The samples were screened with an organic vapor analyzer, described using the Unified Soil Classification System, capped with Teflon lined lids, placed in an ice chest chilled to approximately 4°C, and submitted to NSE. Except for EX4, NSE analyzed at least one sample from each sample locality for TPH-G (Modified EPA Method 8015), BTEX (EPA Method 8020), and MTBE (EPA Method 8020). In addition, the samples collected from EX1 (former fuel tank cavity) and one of the samples from EX9 (former product line) were analyzed for total lead (EPA Method 7420) and TPH-D/TPH-MO (Modified EPA Method 8015). The sample collected from EX1 at 7 fbg was additionally analyzed for polycyclic aromatic hydrocarbons (PAHs; EPA Method 8270). The laboratory reports and chain of custody records are in Appendix C. Tables 1 and 2 summarize the laboratory results. Figure 4 is a cross-section showing stratigraphy, structures, and soil sample laboratory results along the cross-section line shown in Figure 3.

Groundwater was observed in the excavation for EX1. HK2 sampled this groundwater with a disposable bailer, placed the labeled samples in an ice chest chilled to approximately 4°C, and submitted the samples to NSE for analysis of TPH-G (Modified EPA Method 8015), BTEX (EPA Method 8020), and MTBE (EPA Method 8020). Appendix C contains the laboratory report and chain of custody record. The laboratory results are listed in Table 3.

After sample collection, HK2 backfilled the dispenser island and waste oil tank excavations with imported silty fine- to medium-grained sand (2 to 6 fbg and 7 to 10 fbg, respectively) and silty, gravelly sand (0 to 2 fbg and 0 to 7 fbg, respectively). Pothole excavation EX1 was backfilled with the excavated material.

On February 18, 1998, HK2 loaded the waste oil tank excavation stockpile into two roll-off bins provided by NSE. The bins were covered pending transport to a Class I disposal facility.

WASTE MANAGEMENT

No soil wastes were generated during May 1997 and January 1998 drilling activities because the percussion method does not generate soil cuttings and all soil samples were submitted to NSE for eventual disposal.

On February 11, 1998, CEM pumped the waste water in the 55-gallon drum into the tanker truck containing the rainwater removed from the former waste oil tank cavity and transported the waste water to the Alviso Independent Oil facility in Alviso, California. Also on February 11, 1998, Rich Hamilton Trucking transported the soil excavated from the dispenser island (approximately 55 tons) to the TPS Technologies Soil Recycling facility in Richmond, California. The waste manifests and scale logs are in Appendix D.

On March 17 and 18, 1998, NSE transported the soil roll-off bins to the Class I Chem Waste Management facility in Kettleman City, California. Approximately 26 tons of soil was landfilled at this facility. The waste manifests and scale logs are in Appendix D.

FINDINGS

- The site is in the East Bay Plain groundwater basin. Groundwater in this basin is designated beneficial for municipal, industrial, and agricultural uses. Depth to groundwater was approximately 6.6 (B3), 9.6 (B1), and 14.5 fbg (B2) in October 1996, 16 fbg in May 1997 (B8), and 19.5 fbg in January 1998 (B11). Groundwater gradient has not been established at this site. Free product was not observed on groundwater in any boring or excavation.

- Site stratigraphy generally consists of sandy clay (15 to 40% sand) up to approximately 20 feet below grade (maximum depth of soil sampling). The gravel layers observed during previous investigations were not observed during this investigation. The fraction of organic carbon in a soil sample collected from Boring B10 at 4.5 fbg was 3.1%. The average porosity, moisture content, and bulk density of the two soil samples collected from B10 was 32.7%, 17.3%, and 1.21 gm/cm^3, respectively (rough estimation due to sample collection method).

- Soil samples collected from Borings B8 and B11 contained up to 15 mg/kg TPH-G (B11 at 10 fbg), 8 mg/kg TPH-D (B11 at 10 fbg), 16 mg/kg TPH-MO (B11 at 20 fbg), and 0.024 mg/kg benzene (B11 at 10 fbg). However, according to NSE, the TPH-MO chromatogram contains discrete peaks and does not match the typical motor oil pattern. The MTBE concentration in these samples was below the laboratory reporting limit (0.005 mg/kg).

- Groundwater samples collected from Borings B8 and B11 contained ≤2 ug/L benzene (B11) and <50 ug/l TPH-G. The MTBE concentration was below the laboratory reporting limit (0.5 ug/l). The TDS concentration in B8 was 990 mg/L.

- Soil samples collected from EX1 (fuel tank cavity backfill) contained up to 360 mg/kg TPH-G (7 fbg), 400 mg/kg TPH-D (7 fbg), 0.25 mg/kg benzene (3 fbg), and100 mg/kg lead. The total concentration of PAHs measured in the 7 fbg sample was 2.79 mg/kg. Groundwater samples collected from this location contained 6,600 ug/L TPH-G and 22 ug/L benzene. EX1 soil and groundwater MTBE concentrations were below the laboratory reporting limit (0.005 mg/kg and 0.5 ug/L).

- The soil samples collected in the vicinity of the dispenser island to evaluate the effectiveness of remedial excavation activities (EX2 through EX10) contained up to 2.2 mg/kg TPH-G and 0.014 mg/kg benzene. Sample EX9 at 2 fbg contained 5 mg/kg of TPH-D and 51 mg/kg of TPH-MO. However, according to NSA, the TPH-MO chromatogram contains discrete peaks and does not match the typical motor oil pattern.

- Soil samples collected beneath the former product line (EX9 and EX11) contained up to 2.2 mg/kg TPH-G and 0.021 mg/kg benzene. The MTBE concentration in these samples was below the laboratory reporting limit (0.005 mg/kg).

- The soluble lead concentration in the composite soil sample from the stockpile generated from the excavation of the former waste oil tank cavity was 10 mg/L, as determined by the California WET method, and 1.1 mg/L, as determined by the TCLP. The cyanide and sulfide concentrations of this sample (a measure of reactivity) were below the laboratory reporting limit. The pH (measure of corrosivity) and flashpoint (measure of ignitability) results were 7.36 and >200°F, respectively.

CONCLUSIONS

- The vertical extent of hydrocarbon- and lead-affected soil beneath the former waste oil tank has been adequately remediated based on the depth of excavation and the laboratory analysis of soil and groundwater samples collected from Borings B4 and B3, respectively. Although B3 groundwater contained 20,000 ug/l TEPH, it appears this result does not represent waste oil range hydrocarbons because the TPH-G, TPH-D, BTEX, and SVOC concentrations in this sample were below laboratory reporting limits.

- The lateral and vertical extent of gasoline range hydrocarbons in the vicinity of the former dispenser island has been remediated to less than 2.2 mg/kg TPH-G and 0.014 mg/kg benzene based on the laboratory results of soil samples collected along the perimeter of the remedial excavation (EX2 through EX10). No further action appears to be warranted in this area because: 1) the TPH-G concentrations are less than 100 mg/kg, 2) 0.014 mg/kg benzene is less than the California corrected, commercial, 10^{-5} soil RBSLs listed for benzene in ASTM Designation E1739, and 3) the TPH-G and BTEX concentrations measured in B8 groundwater were below laboratory reporting limits.

- The lateral and vertical extent of hydrocarbon-affected soil surrounding the former fuel tank cavity and product line has been assessed to ≤15 mg/kg TPH-G, ≤56 mg/kg TPH-D, and ≤0.087 mg/kg based on the laboratory analysis of soil and groundwater samples collected from B1, B2, B11, EX9, and EX11. No further assessment appears to be warranted in these areas because: 1) the TPH-G and TPH-D concentrations are <100 mg/kg, 2) 0.087 mg/kg benzene approximates the California corrected, commercial, 10^{-5} soil RBSLs listed for benzene in ASTM Designation E1739, and 3) the dissolved-phase benzene concentrations measured in B1, B2, and B11 (≤2 ug/L) approximate the CRWQCB municipal supply water quality objective for benzene (1 ug/L).

- We were not able to establish if the hydrocarbon-affected soil and groundwater surrounding in the former fuel tank cavity was directly caused by a fuel tank release, tank overfilling, or indirectly caused by the hydrocarbon-affected soil that was backfilled into the excavation in 1979.

- It appears diesel fuel was released at this site based on the laboratory results of soil samples analyzed from B1, B2, B6, B11, EX1, and EX9 (Bay Excavators had only reported removing gasoline tanks).

- Sample laboratory results indicate cadmium, chromium, nickel, zinc, lead, and MTBE are not substances of concern at this site.

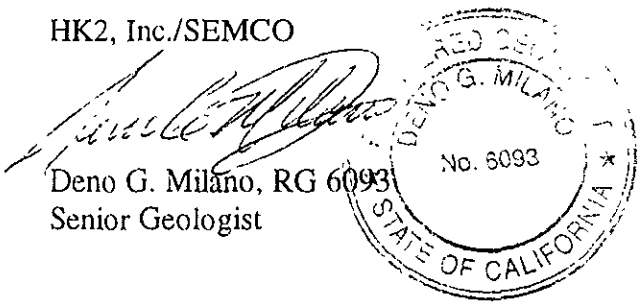
- Remediation or site specific risk assessment of the hydrocarbon-affected soil that was backfilled into the former fuel tank cavity in 1979 may be appropriate because soil TPH-G and TPH-D concentrations exceed 100 mg/kg, soil lead concentrations exceed 50 mg/ kg, and the dissolved-phase benzene concentration exceeds the CRWQCB municipal water quality objective by 21 ug/l. However, the risk posed by leaving this soil in place may be minimal because: 1) the maximum benzene concentration measured (0.25 mg/kg) is less than the California corrected, commercial, 10^{-4} soil RBSLs listed for benzene in ASTM Designation E1739, 2) the dissolved-phase benzene concentration (22 ug/l) is less than the California corrected, commercial, 10^{-5} groundwater RBSLs listed for benzene in ASTM Designation E1739, 3) the concentration of naphthalene and benzo(a)pyrene measured in this soil is less than the commercial 10^{-5} soil RBSLs listed for these compounds in ASTM Designation E1739, and 4) the lateral migration of hydrocarbons from the former fuel tank cavity appears to have been minimal or has been substantially degraded based on the age of the release (pre-February 1979) and the laboratory results of samples collected from B1, B2, and B11.

LIMITATIONS AND CERTIFICATION

The activities summarized in this report have been conducted in accordance with current practice and the standard of care exercised by geologists and engineers performing similar tasks in this area. No warranty, expressed or implied, is made regarding the conclusions and professional opinions presented in this report. The conclusions are based solely upon an interpretation of the observed

conditions. If actual conditions differ from those described in this report, our office should be notified and additional recommendations, if necessary, will be provided.

HK2, Inc./SEMCO



Deno G. Milano, RG 6093
Senior Geologist

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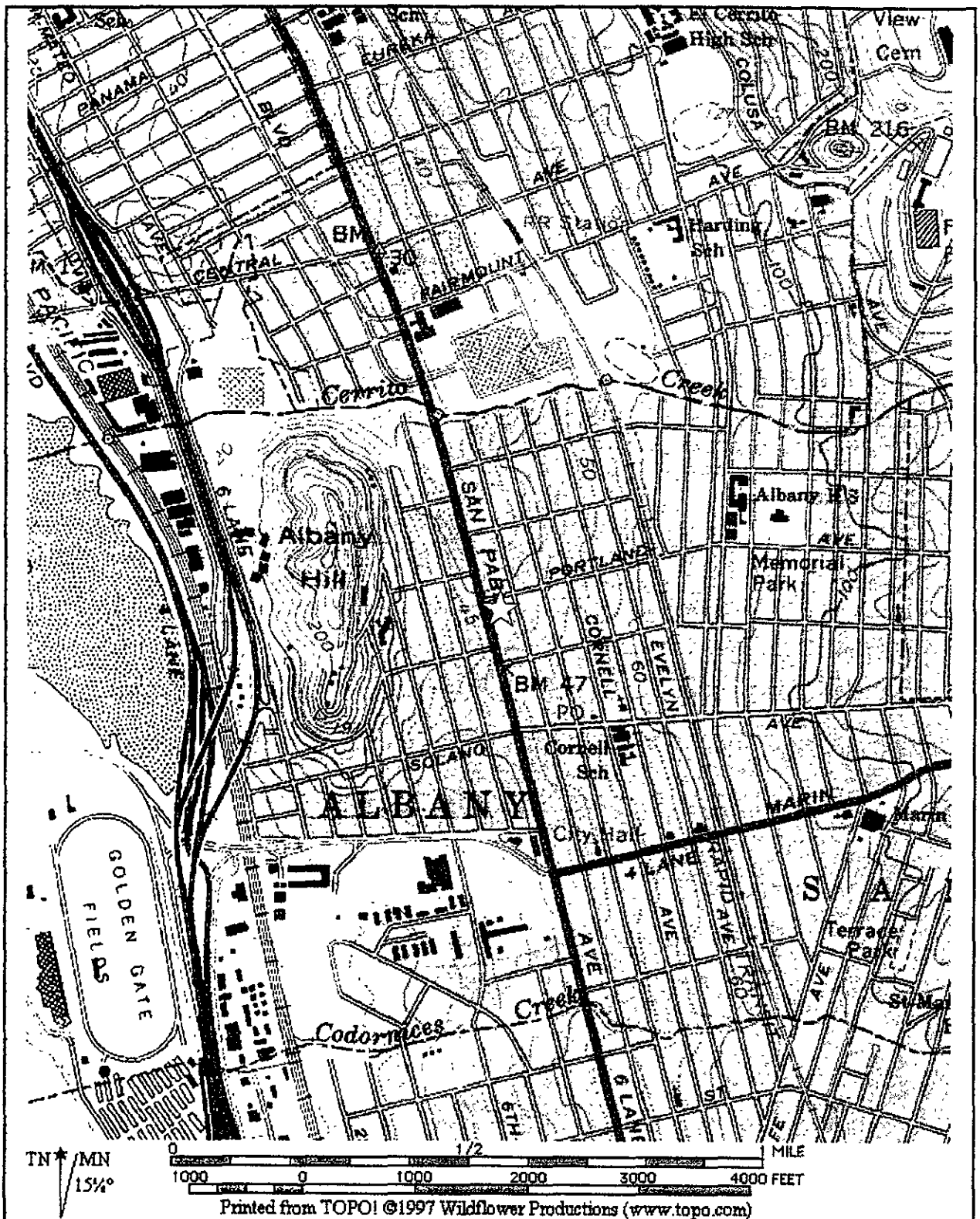

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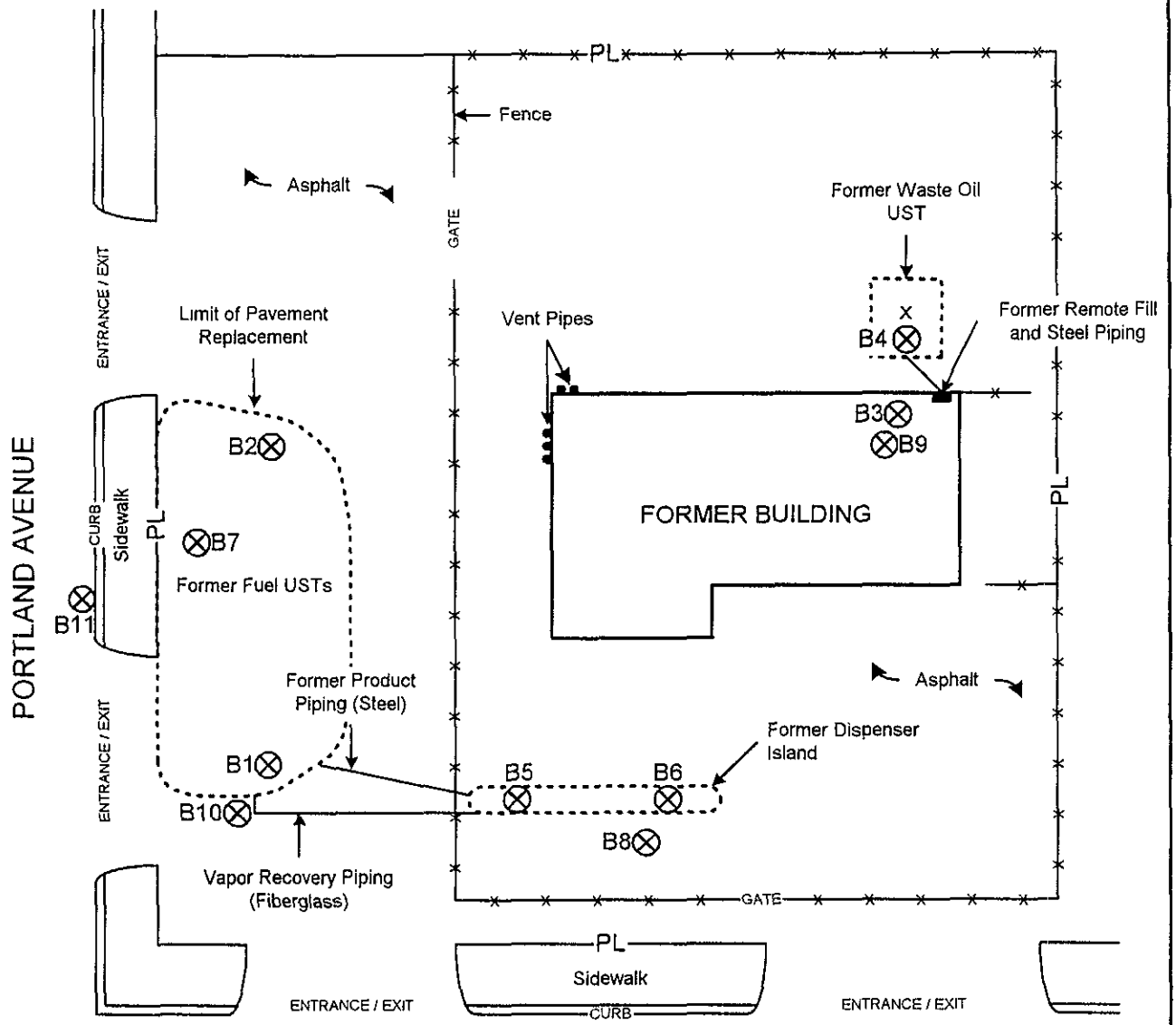
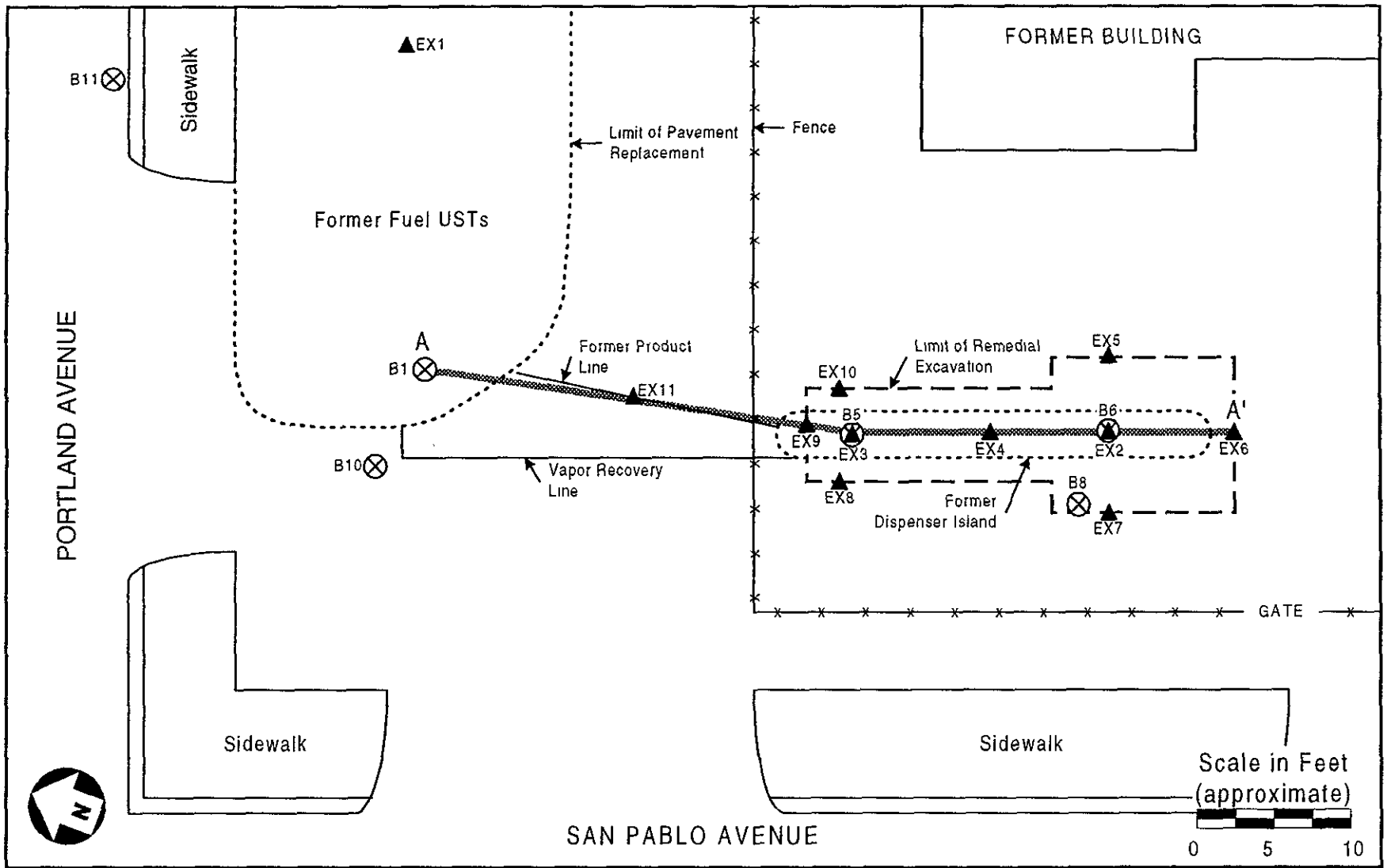
HK2, Inc./SEMCO 70 Chemical Way Redwood City, California FN: 97-0247.F1 Project: 97-0247.1	**LEGEND** ☆ = Site Location	**Site Location Map** 701 San Pablo Avenue Albany, California **Figure 1**



Note: Borings B1 and B2 penetrated native soil at less than 8 feet below grade (ie. the sidewalls of the excavation either slope toward the center of the excavation or the perimeter of resurfaced pavement is greater than the perimeter of the excavation.

HK2, Inc./SEMCO 70 Chemical Way Redwood City, California Project 97-0247 FN: 97-0247.F2 DWG: MWD 4/98	**LEGEND** ⊗ = Boring x = Soil sample collected during tank removal	**SITE PLAN** Former Chevron Station 701 San Pablo Avenue Albany, California **FIGURE 2**



HK2, Inc./SEMCO
70 Chemical Way
Redwood City, California

Project 97-0247

FN: 97-0247.F3 DWG: MWD 4/98

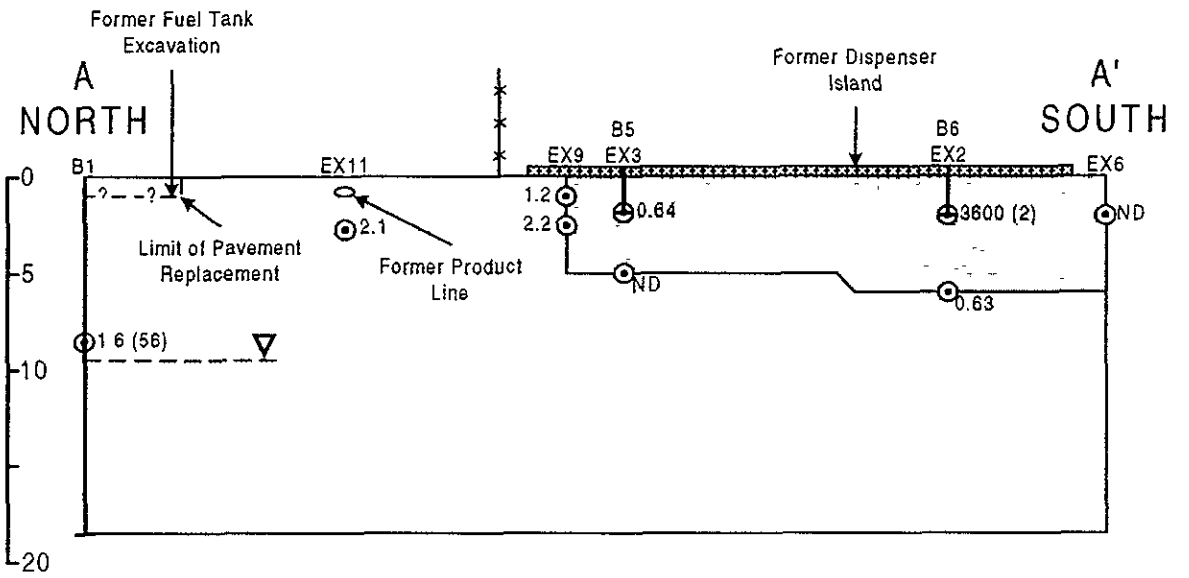
LEGEND

⊗ = Boring

▲ = Excavation soil sample

A — A' = Cross-Section Line

CONFIRMATION SAMPLE LOCATIONS
Former Chevron Station
701 San Pablo Avenue
Albany, California
FIGURE 3



Horizontal and Vertical Scale in Feet (approximate)

0 5 10

LEGEND

⊥ = Boring

⊙ = Soil sample showing TPH-G and (TPH-D) concentraion in mg/kg

▽ = Depth to groundwater measured in October 1996

▭ = Sandy clay

▭ = Class II baserock (0 to 2 fbg) underlain by silty sand

HK2, Inc./SEMCO
70 Chemical Way
Redwood City, California

Project 97-0247

FN: 97-0247 F4 DWG: MWD 4/98

CROSS SECTION A-A'
Former Chevron Station
701 San Pablo Avenue
Albany, California
FIGURE 4

Table 1

Laboratory Results of Soil Sample Hydrocarbon Analyses

Former Chevron Station

701 San Pablo Avenue, Albany, California

Sample Location	Depth (fbg)	TPH-G (mg/kg)	TPH-D (mg/kg)	TEPH/ [TPH-MO] (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	HVOCs (mg/kg)	SVOCs (mg/kg)
W.O. Tank	4	ND	ND	ND	ND	ND	ND	ND	--	ND (≤0.5)	ND
	6.5	310	1,300	620	0.46	5.5	2	8.3	--	ND (≤0.25)	9.9
	8*	6.2	15	--	0.036	0.14	0.088	0.314	--	ND	1.25
B1	8.5	1.6	56	--	0.087	1.1	3.8	470	--	--	--
B2	11.3	2.2	9	ND	0.049	0.180	0.22	0.039	--	--	--
B3	9.3	ND	ND	ND	ND	ND	ND	20	--	--	ND
B4	10	ND	ND	ND	ND	ND	ND	0.018	--	--	ND
B5	2	0.64	ND	ND	ND	ND	ND	0.035	--	--	--
B6	2	3,600	2	ND	ND	0.005	ND	0.045	--	--	--
B8	5	4.5	--	--	ND	ND	0.010	0.043	ND	--	--
	10	0.5	--	--	ND	ND	ND	ND	ND	--	--
	17	ND	--	--	ND	ND	ND	ND	ND	--	--
B11	6.5	ND	--	--	ND	ND	ND	ND	ND	--	--
	8	9	--	--	0.018	0.047	0.016	0.10	ND	--	--
	10	15	8	[ND]	0.024	0.15	0.048	0.074	ND	--	--
	20	0.72	4	[16] #	ND	ND	ND	ND	ND	--	--
Laboratory Reporting Limit		0.5	1.0	50 / [10]	0.005	0.005	0.005	0.010	0.005	≤0.025	≤1.5

LEGEND: TPH-G, TPH-D, TPH-MO = total petroleum hydrocarbons as gasoline, diesel, and motor oil (EPA Method 8015M); TEPH = total extractible petroleum hydrocarbons; B, T, E, X = benzene, toluene, ethylbenzene, and total xylenes, MTBE = methyl tert-butyl ether (EPA Method 8020), HVOCs = halogenated volatile organic compounds (EPA Method 8010); SVOCs = semi-volatile organic compounds (EPA Method 8270); fbg = feet below grade; mg/kg = milligrams per kilogram; ND = concentration less than the laboratory reporting limit; ( ) = laboratory reporting limit if different from value listed in last row of table; -- = sample not analyzed for this constituent; * = analyzed 30 to 35 days after sample collected; # = chromatogram does not match typical motor oil pattern.

Table 1 (continued)

Laboratory Results of Soil Sample Hydrocarbon Analyses

Former Chevron Station

701 San Pablo Avenue, Albany, California

Sample Location	Depth (fbg)	TPH-G (mg/kg)	TPH-D (mg/kg)	TEPH/ [TPH-MO] (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	HVOCs (mg/kg)	PAHs (mg/kg)
EX1	3	63	49	[ND]	0.25	0.16	1.3	0.22	ND	--	--
	7	360	400	[ND]	0.18	0.53	0.44	0.64	ND	--	2.79
EX2	6	0.63	--	--	ND	ND	ND	ND	ND	--	--
EX3	5	ND	--	--	ND	ND	ND	ND	ND	--	--
EX5	2	ND	--	--	ND	ND	ND	ND	ND	--	--
EX6	2	ND	--	--	ND	ND	ND	ND	ND	--	--
EX7	2	ND	--	--	ND	ND	ND	ND	ND	--	--
EX8	2	ND	--	--	ND	ND	ND	ND	ND	--	--
EX9	2	1.2	5	[51] #	ND	ND	ND	ND	ND	--	--
	5	2.2	--	--	0.014	0.016	ND	0.013	ND	--	--
EX10	2	ND	--	--	ND	ND	ND	ND	ND	--	--
EX11	3	2.1	--	--	0.021	0.007	ND	ND	ND	--	--
Laboratory Reporting Limit		0.5	1.0	50 / [10]	0.005	0.005	0.005	0.010	0.005	≤0.025	≤1.5

LEGEND: TPH-G, TPH-D, TPH-MO = total petroleum hydrocarbons as gasoline, diesel, and motor oil (EPA Method 8015M); TEPH = total extractible petroleum hydrocarbons; B, T, E, X = benzene, toluene, ethylbenzene, and total xylenes, MTBE = methyl tert-butyl ether (EPA Method 8020), HVOCs = halogenated volatile organic compounds (EPA Method 8010); PAHs = polycyclic aromatic hydrocarbons (EPA Method 8270); fbg = feet below grade; mg/kg = milligrams per kilogram; ND = concentration less than the laboratory reporting limit; ( ) = laboratory reporting limit if different from value listed in last row of table; – = sample not analyzed for this constituent; # = chromatogram does not match typical motor oil pattern.

Table 2

Laboratory Results of Soil Sample Metal Analyses

Former Chevron Station

701 San Pablo Avenue, Albany, California

Sample Location	Depth (feet)	Chromium (mg/kg)	Cadmium (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)	Lead (mg/kg)	Soluble Lead WET/TCLP (mg/L)
W.O. Tank	4	33	ND	42	26	14	--
	6.5	41	ND	57	92	720	--
	8	74	ND	75	59	20	--
W.O Stockpile	1.5	--	--	--	--	--	10 / 1.1
B1	8.5	--	--	--	--	12	--
B2	11.3	--	--	--	--	8	--
B3	9.3	43	ND	48	24	8	--
B4	10	35	ND	69	41	10	--
B5	2	--	--	--	--	18	--
B6	2	--	--	--	--	11	--
EX1	7	--	--	--	--	100	--
EX9	2	--	--	--	--	6.6	--
Laboratory Reporting Limit		5.0	2.0	5.0	1.0	1.0	0.1 / 0.1

LEGEND: mg/kg = milligrams per kilogram; mg/L = milligrams per liter; ND = concentration less than the laboratory reporting limit; -- = sample not analyzed for this constituent.

Table 3

Laboratory Results of Groundwater Sample Hydrocarbon Analyses

Former Chevron Station

701 San Pablo Avenue, Albany, California

Sample Location	Date	TPH-G (ug/L)	TPH-D (ug/L)	TEPH/ [TPH-MO] (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE (ug/L)	SVOCs (ug/L)	TDS (mg/L)
B-1	10-9-96	310	ND	--	2	3	2	5	--	--	--
B-2	10-9-96	680	ND	--	0.5	1	ND	18	--	--	--
B-3	10-24-96	ND	ND	20,000	ND	ND	ND	ND	--	ND	--
B-8	5-8-97	ND	--	--	ND	ND	ND	ND	ND	--	990
B-11	1-23-98	ND	--	--	2	3	3	9	ND	--	--
EX1	2-11-98	6,600	--	--	22	5	27	9	ND	--	--
CRWQCB MSWQO		none	none	none	1	150	700	1,750	none	varies	500
Lab Reporting Limit		50	50	5,000	0.5	0.5	0.5	1.0	0.5	≤500	1

LEGEND: TPH-G, TPH-D, TPH-MO = total petroleum hydrocarbons as gasoline, diesel, and motor oil (EPA Method 8015M); TEPH = total extractible petroleum hydrocarbons; B, T, E, X = benzene, toluene, ethylbenzene, and total xylenes, MTBE = methyl tert-butyl ether (EPA Method 8020), SVOCs = semi-volatile organic compounds (EPA Method 8270); TDS = total dissolved solids (EPA Method 160.1); ug/L = micrograms per liter; mg/L = milligrams per liter; CRWQCB MSWQO = California Regional Water Quality Control Board municipal supply water quality objective; ND = concentration less than the laboratory reporting limit; -- = sample not analyzed for this constituent.

Table 4

Laboratory Results of Groundwater Sample Metal Analyses

Former Chevron Station

701 San Pablo Avenue, Albany, California

Sample Location	Date	Cadmium (mg/L)	Chromium (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Lead (mg/L)
B-1	10-9-96	--	--	--	--	ND
B-2	10-9-96	--	--	--	--	ND
B-3	10-24-96	ND	ND	ND	ND	ND
CRWQCB MSWQO		0.005	0.05	0.1	5	0.05
Laboratory Reporting Limit		0.01	0.015	0.01	0.02	0.01

LEGEND: mg/L = milligrams per liter; CRWQCB MSWQO = California Regional Water Quality Control Board municipal supply water quality objective; ND = concentration less than the laboratory reporting limit; -- = sample not analyzed for this constituent.

APPENDIX A

REGULATORY CORRESPONDENCE AND PERMITS

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION (LOP
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

January 14, 1997

Ingrid & Frank Werner
22 Kensington Court
Kensington, CA 94707

STID 5347

Re: Required investigations at 701 San Pablo Avenue, Albany, California

Dear Ingrid & Frank Werner,

This office has reviewed HK2, Inc./SEMCO's (HK2) Phase II Site Investigations Report, dated December 29, 1996, for the above site. The following is an outline of the various concerns this office has in response to our review of the investigation results:

1) The benzene concentration identified in the soil sample collected from Sample #5, located at the northwest corner of the site, exceeds the threshold value for the "Soil Vapor Intrusion Into Buildings" and "Soil Leachate into Groundwater" exposure pathways for a 10^{-5} excess cancer risk at a commercial site, per the Tier 1 table of the American Society for Testing and Materials' Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites (E 1739-95). Additionally, the groundwater sample collected from this location identified 2 parts per billion (ppb) benzene, which exceeds the California Drinking Water Standard.

2) Elevated levels of Total Petroleum Hydrocarbons as gasoline (TPHg), at 3,600 parts per million (ppm), were identified in the shallow soil sample collected from beneath the former pump islands. The extent of this soil contamination and the degree to which this soil contamination may have impacted groundwater is still unknown.

3) Elevated levels of Total Extractable Petroleum Hydrocarbons (TEPH), at 20,000 ppb, was identified in the groundwater sample collected from Boring B3, located near the former waste oil tank. Page 10 of HK2's report implies that the detected TEPH concentrations are from a biogenic source, however, this office has insufficient evidence to indicate that this is the case.

Considering the above concerns, this office is recommending that one permanent monitoring well be placed downgradient of Sample #5 and be sampled continuously for two to four quarters to determine whether the observed groundwater contaminant plume is stable. Groundwater samples collected from this location should be analyzed for TPHg and BTEX. Additionally, the initial groundwater sample collected from this well location should also be analyzed for Total

Dissolved Solids (TDS) to determine whether the groundwater beneath the site is potable. According to groundwater information obtained from other sites in the vicinity (namely 431 San Pablo Ave., 500 San Pablo Ave., and 718 San Pablo Ave.), the local groundwater gradient appears to fluctuate between northwest to southwest.

Due to the uncertainties associated with the extent and severity of the shallow soil contamination near the former pump islands, this office is requesting that an additional boring be placed immediately downgradient of Sample PI-S to characterize the vertical and lateral extent of the observed soil contamination, and to determine whether groundwater has been impacted from these soil concentrations. Both soil and groundwater samples collected from this location should be analyzed for TPHg and BTEX.

For the initial groundwater samples collected from the monitoring well and boring, a TEPH analysis should be included to determine whether the TEPH groundwater contaminant plume observed near the former waste oil tank has significantly migrated. As part of the TEPH analysis, a silica gel cleanup should be applied in order to eliminate any interference from potential biogenic materials. Additionally, some fuel fingerprinting interpretations should be attempted of the chromatogram in order to identify the exact contaminant (s).

A work plan addressing the above work should be submitted to this office within 60 days of the date of this letter (i.e., by March 11, 1997). (If you have applied to the State Trust Fund, please be reminded to check with the State to see whether it requires three bids for this phase.)

Lastly, this office is requesting that you submit information indicating when Chevron vacated the site and/or when you purchased the site. If Chevron vacated the site after 1983, then the analysis for Methyl Tertiary Butyl Ether (MTBE), an oxygenate additive to gasoline whose use was widespread after 1983, should be included for any groundwater samples.

If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

Juliet Shin
Senior Hazardous Materials Specialist

cc: Stanley L. Klemetson, HK2, Inc./SEMCO, 1751 Leslie St., San Mateo, CA 94402
Acting Chief

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

April 4, 1997

Ingrid & Frank Werner
22 Kensington Court
Kensington, CA 94707

STID 5347

Re: Work plan for investigations at 701 San Pablo Avenue, Albany, California

Dear Mr. & Mrs. Werner,

This office has reviewed SEMCO/HK2, Inc.'s March 26, 1997 workplan for further investigations at the above site. This workplan is acceptable to this office. Please be reminded that the proposed borings must screen across the water table and the slotted casing length should be between 5- and 15-feet long in order to collect accurate groundwater samples.

If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

Juliet Shin
Senior Hazardous Materials Specialist

cc: Deno G. Milano
SEMCO/HK_2, Inc.
1751 Leslie Street
San Mateo, CA 94402

Acting Chief

City of Albany

ENCROACHMENT PERMIT
PERMANENT/TEMPORARY CONSTRUCTION
WITHIN CITY RIGHT OF WAY

PERMIT NO. 97-182

AX

(652) 261-0735

LOCATION: 701 San Pablo Avenue, Albany, California

Name	Address	Phone Nos Normal/Emergency	Business Lic. No Workers Comp. No.
Applicant: HKE, Inc./SEMCO	94063 30 Chemical Way, Redwood City, CA	650-261-1966	BUS ID: HKE000 1 BUS LIC: 4196 WORK COMP NUMBER
Owner: Mr. Engelwarner	94707 22 Kensington Court, Kensington, CA	510-525-9335	N/A
Engineer/Architect: N/A	N/A	N/A	N/A
Contractor/Consultant: HKE, Inc./SEMCO	94063 30 Chemical Way, Redwood City, CA	650-261-1966	BUS ID: HKE000 1 BUS LIC: 4196 WORK COMP NUMBER

Type of Work	Description of Work
= Sidewalk = Curb & Gutter = Sewer = Sewer Type = Storm Co = Permanent Structure X Other	Temporary (4-inch-maximum-diameter) encroachment to: boring in the parking lane of Portland Avenue (see attached site plan) to collect soil and groundwater samples. The boring will be back filled with Portland type I-II cement and the affected surface area will be restored with asphalt concrete.

General Conditions

1. All work shall be in accordance with the attached standard conditions.
2. No refund after 120 days or work begins, 70% of fee refundable within 120 days provided no work has begun.
3. Permanent structures require City Council approval (City Code 14-2).

Applicant's Signature: [signature] HKE, Inc./SEMCO Date: DEC. 1, 1997

STAFF USE ONLY

NOTICE! REQUEST FOR INSPECTION REQUIRED 48 HOURS IN ADVANCE

Permit Fee Computation	
Total construction cost subject to fee:	$ 1200.00
New construction at 5% of construction cost	
Reconstruction at 5% of construction cost	
In-lieu slurry seal fee (when street is cut)	
Minimum fee per schedule (if greater than % fee)	$ 100.00
Total Fee Due (transfer to fee schedule form) Utilities to be billed, copy of permit to Finance)	$ 00.00

Special Conditions: _____

Issued by: [signature] Date: 12-4-97

Permit Expiration Date: _____ (not to exceed 180 days for date issued)

FINAL SIGN OFF BY: _____ DATE: _____

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 701 San Pablo Avenue
Albany, California

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

CLIENT
Name Mr. David Werner
Address 22 Kensington Court Phone (510) 525-9335
City Kensington, CA Zip 94707

APPLICANT
Name ITRC, Inc. / SEMCO
Fax (650) 261-9735
Address 70 Chesapeake Way Phone (650) 261-1968
City Redwood City, CA Zip 94063

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☒ TEMPORARY SOIL BORINGS
Monitoring	☐	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other _____	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☒
Cable	☐	Other	☐		

DRILLER'S LICENSE NO. C57 719103

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

GEOTECHNICAL PROJECTS
Number of Borings 2 Maximum
Hole Diameter 6 in. Depth 15 ft.

ESTIMATED STARTING DATE DEC. 17, 1997
ESTIMATED COMPLETION DATE DEC. 17, 1997

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

APPLICANT'S SIGNATURE Mark Dynst DATE DEC. 1, 1997

FOR OFFICE USE

PERMIT NUMBER 97WR224
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A) GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA 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.

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 _____ DATE 12/9/97

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE, PLEASANTON, CALIFORNIA 94588-5127 PHONE (510) 484-2600 X235
FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 701 San Pablo Ave, Albany Ca

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

CLIENT
Name Ingrid Weaver
Address 701 San Pablo Ave Phone 510 525-9335
City Albany Ca Zip _____

APPLICANT
Name SEMCO/HK2
Fax (415) 572-9734
Address 751 Leslie St Phone (415) 572-8033
City San Mateo Ca Zip 94402

TYPE OF PROJECT
Construction
- Cathodic Protection ☐
- Water Supply ☐
- Monitoring ☒

Geotechnical Investigation
- General ☐
- Contamination ☒
- Well Destruction ☐

PROPOSED WATER SUPPLY WELL USE
- New Domestic ☐
- Municipal ☐
- Industrial ☐
- Replacement Domestic ☐
- Irrigation ☐
- Other Temp well ☒

DRILLING METHOD:
- Mud Rotary ☐
- Cable ☐
- Air Rotary ☐
- Other ☐
- Auger ☒

DRILLER'S LICENSE NO. C57 719103

WELL PROJECTS
- Drill Hole Diameter 2.5 in.
- Casing Diameter 2 in.
- Surface Seal Depth — ft.
- Maximum Depth 15 ft.
- Number 3

GEOTECHNICAL PROJECTS
- Number of Borings _____
- Hole Diameter _____ in.
- Maximum Depth _____ ft.

ESTIMATED STARTING DATE May 2, 1997
ESTIMATED COMPLETION DATE May 2, 1997

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

APPLICANT'S SIGNATURE Keith B Craig Date 4-22-97

FOR OFFICE USE

PERMIT NUMBER 97271
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

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

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement gro placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industr wells or 20 feet for domestic and irrigation wells unless lesser depth is specially approved.

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

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

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

F. WELL DESTRUCTION. See attached.

G. SPECIAL CONDITIONS

Approved Wyman Hong Date 2 May 97
Wyman Hong

1018

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

J# 26177

JAN 7, 1998

HK2, Inc./Semco
70 Chemical Way
Redwood City, CA 94063

ACKNOWLEDGEMENT

Bay Area Air Quality Management District acknowledges receipt of your Asbestos Demolition/ Renovation Plan described as: Demolition

site address	701 San Pablo Ave Albany, CA 94706
start date	Feb 1, 1998
completion date	Feb 28, 1998
removal amounts	0 linear ft. 0 square ft. friable acm

Should it become necessary to revise this plan, please do so in the spaces provided below and immediately send a copy to the District by fax or by mail. Do not revise notifications which are exempt or for which you have not yet received acknowledgement.

ASBESTOS NOTIFICATION REVISION BAAQMD J# 26177

revision #	start date	completion date	removal amounts
1	1/26/98	2/28/98	0 lin. ft. C sq. ft.
2	__/__/__	__/__/__	_____ lin. ft. _____ sq. ft.
3	__/__/__	__/__/__	_____ lin. ft. _____ sq. ft.
4	__/__/__	__/__/__	_____ lin. ft. _____ sq. ft.
5	__/__/__	__/__/__	_____ lin. ft. _____ sq. ft.

NOTE: This form is not intended as a verification of either the completeness of your original notification or of its compliance with District Regulation 11-2 .

PERMIT APPLICATION
City of Albany

1000 SAN PABLO, ALBANY CA. 94706
PUBLIC WORKS OFFICE

FOR INSPECTION - PHONE: 528-5760

A P NO

PERMIT NO. 1-1957

DATE 1-12-98

TOTAL FEES, TAXES AND DEPOSITS $1.25

FOR APPLICANT TO FILL IN

BUILDING PROJECT IDENTIFICATION

OWNER

Address of Building 701 San Pablo Ave.
Owner(s) Name Trevor Wagner
Telephone No. 510-525-9225

ARCH ENGR

Contractor's Name HKA Enc. / Service
Contractor's Mailing Address 71 Mandell Way, #10
Ph [illegible] City Bus. Lic. 4988
Architect and/or Engineer
Architect and/or Engineer's Address
Ph Lic. No.

CONTRACTOR

LICENSED CONTRACTORS DECLARATION

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class C-20/HVAC Lic. Number 719163
Exp. Date 3/99 Licensed Engineer

OWNER / BUILDER

OWNER-BUILDER DECLARATION

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code), or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars ($500).)

☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale.)

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044 Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.). All such Construction must obtain City Bus. Lic.
☐ I am exempt under Sec. _____ B. & P.C. for this reason _____

Signature of owner Date

WORKERS' COMPENSATION

WORKERS' COMPENSATION DECLARATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation insurance, or a certified copy thereof (Sec. 3800, Labor Code).

Policy No. 7107134 34-8 Company Name California Comp
☒ Certified copy is hereby furnished.
☐ Certified copy is filed with the city building inspection department.
Applicant Date

CERTIFICATE OF EXEMPTION FROM WORKERS' COMPENSATION INSURANCE

(This section need not be completed if the permit is for one hundred dollars ($100) or less.)
I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Signature Date

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked.

LENDER

CONSTRUCTION LENDING AGENCY

I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civil Code).
LENDERS NAME
LENDERS ADDRESS

APPLICANT

DO NOT CONCEAL OR COVER ANY CONSTRUCTION UNTIL THE WORK IS INSPECTED AND THE INSPECTION IS RECORDED. ALL INSPECTION REQUESTS ARE REQUIRED 24 HOURS IN ADVANCE OF THE INSPECTION.

I CERTIFY THAT I HAVE READ THIS APPLICATION AND STATE THAT THE INFORMATION GIVEN IS TRUE AND CORRECT. I AGREE TO COMPLY WITH ALL LOCAL ORDINANCES AND STATE LAWS RELATING TO BUILDING CONSTRUCTION AND I MAKE THIS STATEMENT UNDER PENALTY OF LAW. I HEREBY AUTHORIZE REPRESENTATIVES OF THIS CITY TO ENTER UPON THE ABOVE MENTIONED PROPERTY FOR INSPECTION PURPOSES. I AGREE TO SAVE, INDEMNIFY AND HOLD HARMLESS THE CITY OF ALBANY AGAINST ALL LIABILITIES, JUDGEMENTS, COSTS AND EXPENSES WHICH MAY IN ANY WAY ACCRUE AGAINST SAID CITY AS A RESULT OF THE GRANTING OF THIS PERMIT.

Signature of Applicant/or Agent 1-8-98 Date

NOTE: When properly validated this form constitutes a Building Permit. This permit expires and becomes null and void should work not be commenced within 180 days from the date of approval, or should authorized construction be suspended or abandoned for a period of 180 days after work is commenced.

DESCRIPTION OF WORK

Demolition of one (1) wood
framed detached structure
(circa 1920)

PLUMBING PERMIT

CONTRACTOR
STATE LICENSE NO. AND CLASSIFICATION FEE $

WC	LAV	BATH T	SHOWER	SINK	DISHWASHER	LAUNDRY T	SPA
CLOTHES WASHER		FLOOR SINK	URINAL	DRINKING FOUNTAIN	GAS SYSTEMS OUTLETS		WATER HTR
WASTE INTERCEPTER		SEWER C.O.		SEWER	BTW PIPING SYSTEMS	OTHER	PER 100 SQ FT

ELECTRICAL PERMIT

CONTRACTOR
STATE LICENSE NO. AND CLASSIFICATION FEE $

SERVICE AMP	CIRCUITS	OUTLETS	FUTURES	SWITCHES	WATER HTR	RANGE	DRYER
DISPOSAL	DISHWASHER	SPA	FANS/MOTORS	PER 100 SQ FT			

HEATING / COOLING PERMIT

CONTRACTOR
STATE LICENSE NO. AND CLASSIFICATION FEE $

FURN.	SUP/RUE	HOOD	COMP.	AIR COND.	OTHER	PER 100 SQ FT

DEPARTMENT USE ONLY

Plans received by Date
Value of Project $
Construction Permit Fee Demo $1.25
Plumbing Permit Fee $
Electrical Permit Fee $
Heating/Cooling Permit Fee $
Plan Check Fee $
Sewer Connection Fee $
S.M.I.P. $
Capital Improvement Fee $
School Impact Tax $
Right of Way Usage Fee $
Fire Department Fee $
Other $
Surcharges $
Total $1.25
Comments

APPROVALS

PLANNING
ENGINEERING
FIRE
OTHER
PERMIT APPROVED William Thomas
DATE 1/12/98

Yellow - File Pink - Inspector White - Job

COMMUNITY DEVELOPMENT AND ENVIRONMENTAL RESOURCES PERMIT

JOB LOCATION: 701 San Pablo Ave.

PROPERTY OWNER: Ingrid Werner TEL 525.9335

ADDRESS: _____ **CITY:** _____ **ZIP.** _____

PERMIT NO. 64839

DATE: 1-12-98 **VALUE:** _____

BY: JM

CONTRACTOR/BUILDER:

NAME: Hkz, Inc / Seimco **STATE LIC. NO.:** _____

ADDRESS: 70 Chemical Way **CITY:** Redwood City

PHONE: 650-261-1968 **CITY BUSINESS NO.:** 4298 **CONTACT:** _____

JOB DESCRIPTION: Demolish one (1) steel assembled structure

COMMUNITY DEVELOPMENT & ENVIRONMENTAL RESOURCES DEPARTMENT (510) 528-5760

THIS CARD MUST BE ACCESSIBLE TO THE INSPECTOR ON THE DAY OF YOUR INSPECTION OR AS REQUESTED BY THE INSPECTOR. THE REQUIRED APPROVAL OF ALL INSPECTIONS IS NECESSARY BEFORE PROCEEDING. BE SURE THAT YOUR PERMIT IS SIGNED BEFORE PROCEEDING WITH FURTHER WORK. ANY WORK DONE WITHOUT PROPER INSPECTIONS WILL BE CONSIDERED AS ILLEGAL CONSTRUCTION AND WILL NOT BE ACCEPTED. NOTE: ***PERMIT WILL BECOME VOID IF THE WORK HAS NOT COMMENCED WITHIN 180 DAYS OF PERMIT ISSUANCE, IF WORK HAS BEEN SUSPENDED FOR 180 DAYS DURING CONSTRUCTION OR IF NO LEGITIMATE INSPECTION HAS BEEN CALLED FOR WITHIN ANY OF THE 180 DAY PERIODS.***

INSPECTION	DATE	INSPECTOR	COMMENTS
TEMP. CONST. POWER POLE			
SETBACKS			
FORMS-STEEL			
ANCHOR BOLTS			
HOLDOWN BOLTS			
SLAB REINFORCEMENT			
FIREPLACE FOOTING			
UFER, GRD. Y N TYPE			
WALL STEEL			
BOND BEAM			
UNDER SLAB ELECTRICAL			
UNDER SLAB PLUMBING			
UNDER SLAB WATER			
UNDERGROUND FLUSH F.D.			
DO NOT PLACE CONCRETE UNTIL THE ABOVE ITEMS HAVE BEEN APPROVED			
UNDER FLOOR FRAME			
UNDER FLOOR PLUMBING			
UNDER FLOOR MECHANICAL			
UNDER FLOOR INSULATION			
DO NOT APPLY FLOOR SHEATHING UNTIL THE ABOVE ITEMS HAVE BEEN APPROVED			
SHEAR NAIL			
ROOF NAIL			
RE-ROOF TEAROFF			
RE-ROOF FINAL			
FLOOR SHEATHING			
ROUGH FRAMING			
ROUGH ELECTRICAL			
ROUGH PLUMBING-DWV			
ROUGH PLUMBING WATER			
SHOWER PAN			
STORM DRAINS			
ROOF/FLOOR DRAINS			
ROUGH MECHANICAL			
GAS PIPING INSTALLATION			
GAS PIPING TEST			
FIRE ALARM SYS PLACEMENT			
FIRE SPRINKLER PLACEMENT			
DO NOT INSTALL INSULATION UNTIL THE ABOVE ITEMS HAVE BEEN APPROVED			
INSULATION WALLS			
INSULATION CEILING			
DO NOT APPLY WALLBOARD UNTIL THE ABOVE ITEMS HAVE BEEN APPROVED			
DRYWALL			
WETWALL			
BATHROOM GREENBOARD			
INTERIOR LATH			
DO NOT CONCEAL FASTENERS UNTIL THE ABOVE ITEMS HAVE BEEN APPROVED			
EXTERIOR LATH			
DO NOT APPLY STUCCO UNTIL THE ABOVE ITEMS HAVE BEEN APPROVED			
FINAL CRB, GTR, SWK.			
FINAL SEWER LATERAL			
FINAL ZONING			
FINAL ENV. RESOURCES			
FINAL PLANNING			
SMOKE DET. PLACEMENT			
SMOKE DET. TEST			
FIRE SPRINKLER TEST			
FIRE ALARM TEST			
LIFE SAFETY INSP.			
FINAL FIRE DEPT.			
THE ABOVE CLEARANCES MUST BE SIGNED OFF PRIOR TO CALLING FOR A FINAL INSPECTION			
FIVE DAY NOTIFICATION REQUIRED FOR ALL FINAL INSPECTIONS			
SERVICE CHANGE			
TEMP. PERM. POWER			
FINAL BUILDING			
FINAL MECHANICAL			
FINAL PLUMBING			
FINAL ELECTRICAL			
FINAL ELECTRICAL TAG			
INSULATION CERT.			
INSTALLATION CERT.			
FINAL GAS TAG			

APPENDIX B

GENERAL FIELD PROCEDURES AND BORING LOGS

GENERAL FIELD PROCEDURES

SOIL SAMPLING

Borings are either percussion drilled (typically 2.5-inch-diameter borings) or drilled with solid- or hollow-stem augers (typically 6- to 8-inch-diameter borings). In percussion drilling, soil samples are collected by hydraulically hammering a 2-foot-long, 1-inch-inner-diameter split-spoon sampler that contains a hollow acetate tube. The acetate tube is removed from the sampler, cut, and the open ends covered with Teflon tape and plastic caps. If solid-stem auger is used, soil samples are either collected by hand driving a metal tube-lined slide hammer into the bottom of the borehole after the auger is withdrawn or by driving a metal tube into the soil cuttings adhering to the auger flight. The tubes are then capped with teflon tape and plastic caps. If hollow-stem augers are used, soil samples are typically collected by driving a split-spoon sampler with a 140-pound hammer falling 30 inches. Again, the samples are placed in a metal tube which is capped with teflon tape and plastic caps.

Soil samples are collected at a minimum frequency of once every 5 feet, but may also be collected at changes in lithology or within the capillary fringe. The date, project number, and sample identification number are written on each sample, then the sample is placed in a cooler chilled to approximately 4° C. The same information is also recorded on a chain of custody form. Soil adjacent to the sample is screened by an organic vapor analyzer and described using the Unified Soil Classification System. Drilling rods, augers, and samplers are cleaned in a hot water pressure washer or cleaned with a phosphate free TSP solution and rinsed with water prior to drilling each boring or collecting each sample.

FLUID-LEVEL MONITORING AND GROUNDWATER SAMPLING

Fluid-levels in monitoring wells are measured using an electronic probe or fiberglass tape coated with pastes that indicate the presence of water or free product. Depth to fluid is measured from the top of the well casing which is typically surveyed to a local Bench Mark.

Monitoring wells are sampled in accordance with the guidelines established by the lead agency. If well purging is required before the well water can be sampled, then the temperature, pH, and specific conductance of the well water is measured before the well is purged and after every ½ casing or borehole volume of well water is purged from the well. Well purging is terminated when successive physical parameter measurements vary by less than 10%, the well does not recharge to 80% of its pre-purged volume within two hours, or when three well casing or borehole volumes of fluid have been removed. The purged water is either pumped directly into a vacuum truck or into labeled drums which are temporarily stored onsite.

Groundwater samples are collected immediately after purging is terminated. The samples are generally collected by lowering a bottom-fill, check-valve-equipped, stainless steel or disposable

Teflon bailer into the well to just below the water level. The samples are carefully transferred from the bailer to 40-milliliter or 1-liter glass containers, filled to zero-headspace, and fitted with Teflon-lined caps. The project and sample number, date of collection, and sampler's initials are written on each sample and the chain of custody record. The samples are placed in a cooler and chilled to approximately 4° C until they are delivered to a state-certified laboratory for analysis.

WASTE GENERATION AND DISPOSAL

Soil cuttings generated during drilling activities are either temporarily stored onsite in 55-gallon drums or temporarily stockpiled onsite. If the cuttings are drummed, then a label is affixed to each drum indicating contents, accumulation date, consultant, consultant phone number, and site address. If the cuttings are stockpiled, then they are placed on and covered by visqueen. The drummed or stockpiled soil is either disposed of onsite (if permitted by the lead regulatory agency) or transported to an appropriate disposal facility following receipt of the laboratory results of soil sample analyses. A copy of each waste manifest is submitted to the lead regulatory agency.

Well purge water and equipment wash and rinse water is pumped into a vacuum truck or temporarily stored onsite in labeled 55-gallon drums. The label indicates drum contents, accumulation date, consultant, consultant phone number, and site address. The fluid in the drums is either discharged onsite (if permitted by the lead regulatory agency), discharged to the sewer (if permitted by the local wastewater agency), or transported to an appropriate disposal facility following receipt of the laboratory results of groundwater sample analyses. A copy of each waste manifest is submitted to the lead regulatory agency.

Depth (Feet)	Recovery/ Sample ID	Blow Counts	Organic Vapor (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1				GP	Asphalt and Class II Baserock Gravel	Asphalt Portland Type I-II Cement 2 inches
5						
10						
15						
20						
25						

BORING NUMBER:	B7
LOCATION:	Former Chevron Station 701 San Pablo Ave. Albany, CA
PROJECT NO:	97-0247
DRILLING CONTRACTOR:	HK2, Inc./SEMCO
DRILLING METHOD:	Percussion
DRILLING DATE:	5-6-97
LOGGED BY:	K. Craig

REMARKS:

Boring terminated at 2 feet below grade

Depth (Feet)	Recovery/ Sample ID	Organic Vapor (ppm)	TPH-G (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1					Concrete and Class II Baserock	Portland Type I-II Cement
5	B8-5		4.5	CL	Damp, moderate yellowish brown (10YR 5/4) and light olive gray (5Y 5/2) sandy CLAY	
10	B8-10		0.5	CL	Damp, moderate yellowish brown (10YR 5/4) and light olive gray (5Y 5/2) sandy CLAY Moist, grayish olive (10Y 4/2), silty, very sandy CLAY	
15	B8-17		ND	CL	Damp to moist, moderate yellowish brown (10YR 5/4) sandy CLAY	2 inches
20						
25						

BORING NUMBER:	B8
LOCATION:	Former Chevron Station 701 San Pablo Ave. Albany, CA
PROJECT NO:	97-0247
DRILLING CONTRACTOR:	HK2, Inc./SEMCO
DRILLING METHOD:	Percussion
DRILLING DATE:	5-6-97
LOGGED BY:	K. Craig

REMARKS:

Boring terminated at 17.5 feet below grade
TPH-G = total petroleum hydrocarbons as gasoline
ppm = parts per million
ND = TPH-G concentration below laboratory reporting limit

Depth (Feet)	Recovery/ Sample ID	Organic Vapor (ppm)	TPH-G (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1					Concrete and Class II Baserock	Portland Type I-II Cement
				CL	Damp, moderate brown (5YR 4/4) sandy CLAY	
5						
					No soil samples were collected because samples collected from boring B3 previously characterized this area.	
10						
15						
20						2 inches
25						

BORING NUMBER:	B9
LOCATION:	Former Chevron Station 701 San Pablo Ave. Albany, CA
PROJECT NO:	97-0247
DRILLING CONTRACTOR:	HK2, Inc./SEMCO
DRILLING METHOD:	Percussion
DRILLING DATE:	5-6-97
LOGGED BY:	K. Craig

REMARKS:

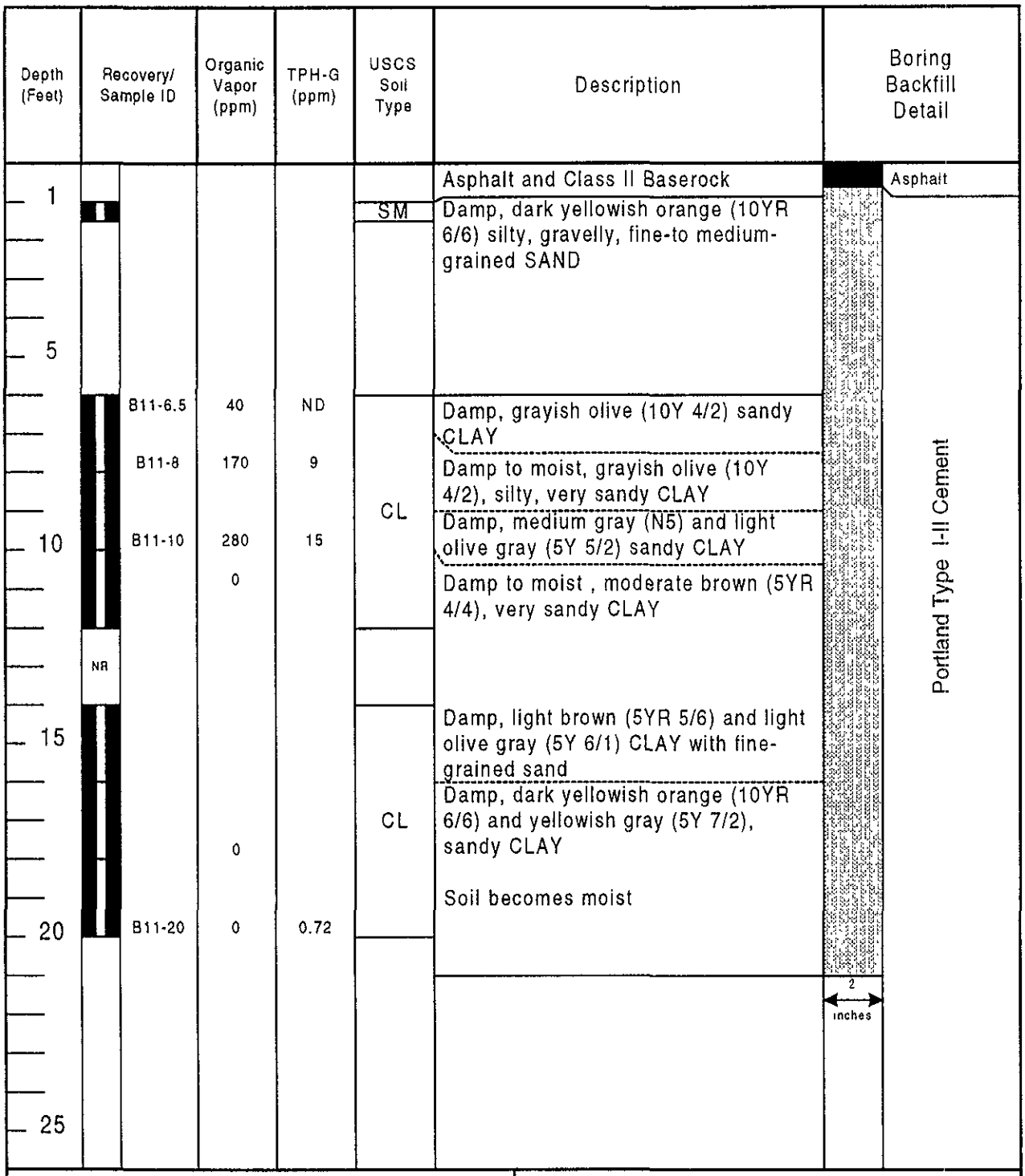
Boring terminated at 20 feet below grade
TPH-G = total petroleum hydrocarbons as gasoline
ppm = parts per million

Depth (Feet)	Recovery/ Sample ID	Organic Vapor (ppm)	TPH-G (ppm)	USCS Soil Type	Description	Boring Backfill Detail
1					Asphalt and Class II Baserock	Portland Type I-II Cement
	B10-4.5			CL	Damp, moderate brown (5YR 4/4) sandy CLAY	
5						
	B10-10			CL	Damp, light olive gray (5Y 5/2) sandy CLAY	2 inches
10						
15						
20						
25						

BORING NUMBER: B10
LOCATION: Former Chevron Station, 701 San Pablo Ave., Albany, CA
PROJECT NO: 97-0247
DRILLING CONTRACTOR: HK2, Inc./SEMCO
DRILLING METHOD: Percussion
DRILLING DATE: 5-6-97
LOGGED BY: K. Craig

REMARKS:

Boring terminated at 10 feet below grade
TPH-G = total petroleum hydrocarbons as gasoline
ppm = parts per million



BORING NUMBER:	B11
LOCATION:	Former Chevron Station 701 San Pablo Ave. Albany, CA
PROJECT NO:	97-0247
DRILLING CONTRACTOR:	HK2, Inc./SEMCO
DRILLING METHOD:	Percussion
DRILLING DATE:	1-23-98
LOGGED BY:	D. Milano

REMARKS:

Boring terminated at 21 feet below grade (fbg)
Depth to water was approximately 19.5 fbg
TPH-G = total petroleum hydrocarbons as gasoline
ppm = parts per million
ND = TPH-G concentration below laboratory reporting limit
NR = no recovery

APPENDIX C

LABORATORY REPORTS AND CHAIN OF CUSTODY RECORDS

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 97-398
Client: Semco HK2
Project: 701 San Pablo Ave.,Albany, CA

Date Reported: 05/22/97

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Total Disolved Solids By Method 160.1
HOLD

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 97-398-01	Client ID: B-8-5'			05/15/97	SOIL
Gasoline	8015M	4.5	mg/Kg		05/19/97
Benzene	8020	ND			
Ethylbenzene	8020	0.010	mg/Kg		
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	0.043	mg/Kg		
Sample: 97-398-03	Client ID: B-8-10'			05/15/97	SOIL
Gasoline	8015M	0.5	mg/Kg		05/19/97
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Sample: 97-398-07	Client ID: B-8-17'			05/06/97	SOIL
Gasoline	8015M	ND			05/19/97
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			

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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 97-398
Client: Semco HK2
Project: 701 San Pablo Ave.,Albany, CA

Date Reported: 05/22/97

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Total Disolved Solids By Method 160.1
HOLD

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 97-398-08 Client ID: B-8-W				05/06/97	WATER
Gasoline	8015M	ND			05/19/97
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Solids	160.1	990	mg/L		05/21/97

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Chemical Waste Disposal · Trucking Consulting

CERTIFICATE OF ANALYSIS

Quality Control/Quality Assurance

Lab Number: 97-398
Client: Semco HK2
Project: 701 San Pablo Ave.,Albany, CA

Date Reported:05/22/97

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Total Disolved Solids By Method 160.1
HOLD

Analyte	Method	Reporting Limit	Unit	Blank	MS/MSD Recovery	RPD
Gasoline	8015M	0.5	mg/Kg	ND	91	2
Benzene	8020	.005	mg/Kg	ND	84	9
Ethylbenzene	8020	.005	mg/Kg	ND	89	8
Toluene	8020	.005	mg/Kg	ND	89	9
Xylenes	8020	.010	mg/Kg	ND	85	5
MTBE	8020	.005	mg/Kg	ND	93	16
Gasoline	8015M	50	ug/L	ND	105	1
Benzene	8020	0.5	ug/L	ND	81	3
Ethylbenzene	8020	0.5	ug/L	ND	88	3
Toluene	8020	0.5	ug/L	ND	86	1
Xylenes	8020	1.0	ug/L	ND	85	1
MTBE	8020	0.5	ug/L	ND	84	1

ELAP Certificate NO:1753
Reviewed and Approved

John A.Murphy,Laboratory Director

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North State Environmental Analytical Laboratory

Phone: (415) 588-9652 Fax: (415) 588-1950

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page ___ of ___

Client: SEMCO	Report to: Keith Cadby	Phone: (415) 512-8033	Turnaround Time: Standard
Mailing Address: 1751 Leslie St. San Mateo, Ca. 94402	Billing to: SAME	Fax:	Date: May 1997
		PO# / Billing Reference:	Sampler: Keith Cadby

Project / Site Address: 701 San Pablo Ave Albany Ca

Analysis Requested

	Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	8015(M) TPH-gasoline	8020 BTEX / MTBE	Total Dissolved Solids	Comments/Hazards
1	B-8-5'	Soil	Acetate Liner		5-6-97 1310	X	X		Run
2	B-8-9'	↓	↓		1330				Hold
3	B-8-10'				1330	X	X		Run
4	B-8-12'				1335				Hold
5	B-8-14'				1410				Hold
6	B-8-16'				1420				Hold
7	B-8-17.0'	↓	↓		1530	X	X		Run
8	B-8-W	Water	1 Amber liter	NO	5-8-97			X	Run if all Run
9	B-8-W	↓	2 40ml VOA	NO	↓	X	X		Run
	B-9-W	↓	1 Amber liter	NO	↓				Hold

Relinquished by: Keith B Cadby	Date: 5-9-97	Time: 1300	Received by:	Lab Comments: NSEAL
Relinquished by:	Date:	Time:	Received by:	
Relinquished by:	Date:	Time:	Received by:	

COOPER TESTING LABORATORY

[illegible]

[illegible]

Tel: 415 968-9472 FAX: 415 968-4228

LETTER OF TRANSMITTAL

TO: N. State FNV Lab.
1751 Leslie St.
San Mateo, CA 94402
Attn: Deno Milano

DATE: May 20, 1997

PROJECT: Werner

CTL#: 295-001

ENCLOSED: Laboratory soil test data.

REMARKS:

COOPER TESTING LAB

Organic Content
ASTM D2974

Cooper Testing Lab

JOB NO.: 295-001					
CLIENT: North State Env. Lab			DATE:	05/14/97	
PROJECT 97-0247			BY:	DC	
BORING:	B-10				
SAMPLE:					
DEPTH, ft.:	4.5				
SOIL CLASSIFICATION: (visual)	brown sandy CLAY				
SOIL, ORGANICS & DISH, gm:	155.56				
SOIL & DISH, gm:	153.37				
DISH, gm:	84.54				
SOIL, gm:	68.83	0	0	0	0
SOIL & ORGANICS, gm:	71.02	0	0	0	0
% ORGANICS:	3.1	ERR	ERR	ERR	ERR

COOPER TESTING LABS

MOISTURE DENSITY - POROSITY DATA SHEET

Job #	295-001				
Client	North State Env. Lab				
Project/Location	97-0247				
Date	5/13/97				
Boring #	B-10	B-10			
Depth (ft)	4.5	10			
Soil Type	brown sandy CLAY	olive gray, mottled brown sandy CLAY			
Specific Gravity	2.70 ASSUMED	2.75 ASSUMED			
Volume Total cc	129.645	236.088			
Volume of Solids	83.512	165.923			
Volume of Voids	46.133	70.165			
Void Ratio	0.552	0.423			
Porosity %	35.6%	29.7%			
Saturation %	94.3%	99.5%			
Moisture %	19.3%	15.3%			
Dry Density (pcf)	108.6	120.7			

Remarks

North State Environmental Analytical Laboratory

Phone: (415) 588-9652 Fax: (415) 588-1950

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 1 of 1

Client: HK2, Inc. / SEMCO	Report to: DENO G. MILANO	Phone: 415.572.8033	Turnaround Time: STANDARD
Mailing Address: (Mail Report to) 1751 LESLIE STREET SAN MATEO, CA. 94402	Billing to: SEMCO 1217 So. 7th STREET MODESTO, CA. 95351	Fax: 415.572.9734	
		PO# / Billing Reference: 97-0247	Date:
			Sampler:

Project / Site Address: WERNER 701 SAN PABLO AV., ALBANY, CA

Analysis Requested

Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	Moisture & Dry Bulk Density	Fraction Organic Carbon	Comments/Hazards
B10-4.5	SOIL	1 / METAL TUBE	NO	5.6.97	X		
B10-10	SOIL	1 / METAL TUBE	NO	5.6.97	X	X	

STRONG ODOR GAS

1 SAMPLE

Relinquished by: Keith Craig	Date: 5-7-97	Time: 1630	Received by: D. Lopez	16:30	Lab Comments
Relinquished by:	Date:	Time:	Received by:		
Relinquished by:	Date:	Time:	Received by:		

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 98-088
Client: Semco HK2
Project: #97-0247 / Werner, 701 San Pablo Ave

Date Reported: 02/06/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Reactive Cyanide by SW-846 Chapter 7,Section 7.3.3.2
Reactive Sulfide by SW-846 Chapter 7,Section 7.3.4.2
pH of soil Wastes by Method 9045
Flashpoint by Method 1010
Lead by Method 7420,AA Spectroscopy
CA WET Extraction,TCLP Extraction & Lead by AA Spectroscopy

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-088-01	Client ID: B11-6.5			01/23/98	SOIL
Gasoline	8015M	ND			01/29/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Sample: 98-088-02	Client ID: B11-8			01/23/98	SOIL
Gasoline	8015M	9.0	mg/Kg		01/29/98
Benzene	8020	0.018	mg/Kg		
Ethylbenzene	8020	0.016	mg/Kg		
MTBE	8020	ND			
Toluene	8020	0.047	mg/Kg		
Xylenes	8020	0.10	mg/Kg		
Sample: 98-088-03	Client ID: B11-10			01/23/98	SOIL
Gasoline	8015M	15	mg/Kg		01/29/98
Benzene	8020	0.024	mg/Kg		
Ethylbenzene	8020	0.048	mg/Kg		
MTBE	8020	ND			
Toluene	8020	0.15	mg/Kg		
Xylenes	8020	0.074	mg/Kg		

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North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 98-088
Client: Semco HK2
Project: #97-0247 / Werner, 701 San Pablo Ave

Date Reported: 02/06/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Reactive Cyanide by SW-846 Chapter 7,Section 7.3.3.2
Reactive Sulfide by SW-846 Chapter 7,Section 7.3.4.2
pH of soil Wastes by Method 9045
Flashpoint by Method 1010
Lead by Method 7420,AA Spectroscopy
CA WET Extraction,TCLP Extraction & Lead by AA Spectroscopy

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-088-03	Client ID: B11-10			01/23/98	SOIL
Lead	7420	10	mg/Kg		01/28/98
Diesel	8015M	8	mg/Kg		01/29/98
Motor Oil	8015M	ND			
Sample: 98-088-04	Client ID: B11-20			01/23/98	SOIL
Gasoline	8015M	0.72	mg/Kg		01/29/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Diesel	8015M	4	mg/Kg		01/29/98
Motor Oil	8015M	16	mg/Kg		
Sample: 98-088-05	Client ID: S-WO			01/23/98	SOIL
Flashpoint	1010	ND>200	F		02/04/98
TCLP Lead	7420	1.1	mg/L		02/06/98
pH	9040	7.36			02/04/98
Cyanide	CH7,7.3.3.2	ND			02/04/98
Sulfide	CH7,7.3.4.2	ND			02/04/98
STLC Lead	7420	10	mg/L		02/02/98

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North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 98-088
Client: Semco HK2
Project: #97-0247 / Werner, 701 San Pablo Ave

Date Reported: 02/06/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Reactive Cyanide by SW-846 Chapter 7,Section 7.3.3.2
Reactive Sulfide by SW-846 Chapter 7,Section 7.3.4.2
pH of soil Wastes by Method 9045
Flashpoint by Method 1010
Lead by Method 7420,AA Spectroscopy
CA WET Extraction,TCLP Extraction & Lead by AA Spectroscopy

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-088-06 Client ID: B11-W				01/23/98	WATER
Gasoline	8015M	ND			01/29/98
Benzene	8020	2	ug/L		
Ethylbenzene	8020	3	ug/L		
MTBE	8020	ND			
Toluene	8020	3	ug/L		
Xylenes	8020	9	ug/L		

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North State Environmental
Chemical Waste Disposal · Trucking · Consulting

CERTIFICATE OF ANALYSIS

Quality Control/Quality Assurance

Lab Number: 98-088
Client: Semco HK2
Project: #97-0247 / Werner, 701 San Pablo Ave

Date Reported:02/06/98

Analyte	Method	Reporting Limit	Unit	Blank	MS/MSD Recovery	RPD
Lead	7420	2	mg/Kg	ND	107	1
Diesel	8015M	1	mg/Kg	ND	103	1
Motor Oil	8015M	10	mg/Kg	ND	103	1
Gasoline	8015M	0.5	mg/Kg	ND	80	1
Benzene	8020	.005	mg/Kg	ND	88	8
Ethylbenzene	8020	.005	mg/Kg	ND	97	10
Toluene	8020	.005	mg/Kg	ND	95	8
Xylenes	8020	.010	mg/Kg	ND	96	5
MTBE	8020	.005	mg/Kg	ND	112	1
Gasoline	8015M	50	ug/L	ND	80	1
Benzene	8020	0.5	ug/L	ND	88	8
Ethylbenzene	8020	0.5	ug/L	ND	97	10
Toluene	8020	0.5	ug/L	ND	95	8
Xylenes	8020	1.0	ug/L	ND	96	5
MTBE	8020	0.5	ug/L	ND	112	1
Lead	7420	0.1	mg/L	ND	119/75	46
Cyanide	CH7,7.3.3.	20	mg/Kg	ND	7.7	NA
Sulfide	CH7,7.3.4.	10	mg/Kg	ND	36	NA

ELAP Certificate NO:1753
Reviewed and Approved

John A.Murphy,Laboratory Director

P O Box 5624 • South San Francisco, California 94083 • 650-588-2838 FAX 588-1950

98-088

North State Environmental Analytical Laboratory

Phone: (415) 588-9652 Fax: (415) 588-1950

Chain of Custody / Request for Analysis

Lab Job No.: ____ Page 1 of 1

Client: HKZ, Inc.	Report to: HKZ	Phone: 650.261.1968	Turnaround Time: Standard
Mailing Address: 70 Chemical Way, Redwood City, CA. 94063	Billing to: Same	Fax: 650.261.0735	Date: 1-23-98
		PO# / Billing Reference: 97-0247	Sampler: R. Milano & M. Dysert

Project / Site Address: Werner (97-0247) 701 San Pablo Av., Albany

Analysis Requested

	Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	TPH-G/ BTEX/ MTBE	TPH-D/ TPH-MO	R.C.I	Soluble Pb (Calif. WET)	Total Pb	TCLP Lead		Comments/Hazards
1-	B11-6.5	Soil	1 / Plastic Tube	Ice	1.23.98	X							
2-	B11-8	↓	↓	↓	↓	X							
3-	B11-10					X	X			X			
	B11-12												Hold
	B11-15												Hold
	B11-18												Hold
4-	B11-20		↓			X	X				+		
5-	S-WO	↓	4 / Glass Jar					X	X		↑		JM
6-	B11-W	Water	3 / Glass VOA	↓	↓	X	~~X~~ NO				See FAX 1-28-98		

Checked/Suyak [illegible]
7 x Plastic Tubes
4 x glass jars
3 x VOA ND

Relinquished by: [signature]	Date: 1/26/98	Time: 9:05	Received by: [signature]
Relinquished by: [signature]	Date: 1/26/98	Time: 9:40	Received by: [signature] NSE Labs
Relinquished by:	Date:	Time:	Received by:

Lab Comments

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 98-158
Client: Semco HK2
Project: 97-0247.1 / 701 San Pablo Ave, Albany

Date Reported: 02/18/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Lead by Method 7420,AA Spectroscopy

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-158-01	Client ID: EX1-3			02/11/98	SOIL
Gasoline	8015M	63	mg/Kg		02/13/98
Benzene	8020	0.25	mg/Kg		
Ethylbenzene	8020	1.3	mg/Kg		
MTBE	8020	*ND			
Toluene	8020	0.16	mg/Kg		
Xylenes	8020	0.22	mg/Kg		
Diesel	8015M	49	mg/Kg		02/13/98
Motor Oil	8015M	ND			
Sample: 98-158-02	Client ID: EX1-7			02/11/98	SOIL
Gasoline	8015M	360	mg/Kg		02/13/98
Benzene	8020	0.18	mg/Kg		
Ethylbenzene	8020	0.44	mg/Kg		
MTBE	8020	ND			
Toluene	8020	0.53	mg/Kg		
Xylenes	8020	0.64	mg/Kg		
Lead	7420	100	mg/Kg		02/18/98
Diesel	8015M	400	mg/Kg		02/13/98
Motor Oil	8015M	ND			

*Confirmed by GC/MS method 8260.

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North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 98-158
Client: Semco HK2
Project: 97-0247.1 / 701 San Pablo Ave, Albany

Date Reported: 02/18/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Lead by Method 7420,AA Spectroscopy

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-158-03	Client ID: EX1-W			02/11/98	WATER
Gasoline	8015M	6600	ug/L		02/13/98
Benzene	8020	22	ug/L		
Ethylbenzene	8020	27	ug/L		
MTBE	8020	ND			
Toluene	8020	5	ug/L		
Xylenes	8020	9	ug/L		
Sample: 98-158-04	Client ID: EX2-6			02/11/98	SOIL
Gasoline	8015M	0.63	mg/Kg		02/13/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Sample: 98-158-05	Client ID: EX3-5			02/11/98	SOIL
Gasoline	8015M	ND			02/13/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			

*Confirmed by GC/MS method 8260.

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North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 98-158
Client: Semco HK2
Project: 97-0247.1 / 701 San Pablo Ave, Albany

Date Reported: 02/18/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Lead by Method 7420,AA Spectroscopy

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-158-06	Client ID: EX5-2			02/11/98	SOIL
Gasoline	8015M	ND			02/13/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Sample: 98-158-07	Client ID: EX6-2			02/11/98	SOIL
Gasoline	8015M	ND			02/13/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Sample: 98-158-08	Client ID: EX7-2			02/11/98	SOIL
Gasoline	8015M	ND			02/13/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			

*Confirmed by GC/MS method 8260.

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North State Environmental
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C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 98-158
Client: Semco HK2
Project: 97-0247.1 / 701 San Pablo Ave, Albany

Date Reported: 02/18/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Lead by Method 7420,AA Spectroscopy

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-158-09 Client ID: EX8-2				02/11/98	SOIL
Gasoline	8015M	ND			02/13/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Sample: 98-158-10 Client ID: EX9-2				02/11/98	SOIL
Gasoline	8015M	1.2	mg/Kg		02/13/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Lead	7420	6.6	mg/Kg		02/18/98
Diesel	8015M	5	mg/Kg		02/13/98
Motor Oil	8015M	51	mg/Kg		

*Confirmed by GC/MS method 8260.

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North State Environmental
Chemical Waste Disposal · Trucking · Consulting

C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 98-158
Client: Semco HK2
Project: 97-0247.1 / 701 San Pablo Ave, Albany

Date Reported: 02/18/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Lead by Method 7420,AA Spectroscopy

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 98-158-11 Client ID: EX9-5				02/11/98	SOIL
Gasoline	8015M	2.2	mg/Kg		02/13/98
Benzene	8020	0.014	mg/Kg		
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	0.016	mg/Kg		
Xylenes	8020	0.013	mg/Kg		
Sample: 98-158-12 Client ID: EX10-2				02/11/98	SOIL
Gasoline	8015M	ND			02/13/98
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Sample: 98-158-13 Client ID: EX11-3				02/11/98	SOIL
Gasoline	8015M	2.1	mg/Kg		02/13/98
Benzene	8020	0.021	mg/Kg		
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	0.007	mg/Kg		
Xylenes	8020	ND			

*Confirmed by GC/MS method 8260.

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North State Environmental
Chemical Waste Disposal · Trucking · Consulting

CERTIFICATE OF ANALYSIS

Quality Control/Quality Assurance

Lab Number: 98-158
Client: Semco HK2
Project: 97-0247.1 / 701 San Pablo Ave, Albany

Date Reported: 02/18/98

Gasoline,BTEX and MTBE by Methods 8015M and 8020
Diesel, Motor Oil Hydrocarbons by Method 8015M
Lead by Method 7420,AA Spectroscopy

Analyte	Method	Reporting Limit	Unit	Blank	MS/MSD Recovery	RPD
Diesel	8015M	1	mg/Kg	ND	86	3
Motor Oil	8015M	10	mg/Kg	ND	86	3
Gasoline	8015M	50	ug/L	ND	99	5
Benzene	8020	0.5	ug/L	ND	101	25
Ethylbenzene	8020	0.5	ug/L	ND	100	10
Toluene	8020	0.5	ug/L	ND	102	18
Xylenes	8020	1.0	ug/L	ND	112	5
MTBE	8020	0.5	ug/L	ND	79	4
Gasoline	8015M	0.5	mg/Kg	ND	73	9
Benzene	8020	.005	mg/Kg	ND	86	13
Ethylbenzene	8020	.005	mg/Kg	ND	96	7
Toluene	8020	.005	mg/Kg	ND	96	9
Xylenes	8020	.010	mg/Kg	ND	92	4
MTBE	8020	.005	mg/Kg	ND	106	5
Lead	7420	2	mg/Kg	ND	113/107	5

ELAP Certificate NO:1753
Reviewed and Approved

John A.Murphy,Laboratory Director

P. O. Box 5624 • South San Francisco, California 94083 • 650-588-2838 FAX 588-1950

T8 158 12

North State Environmental Analytical Laboratory

Phone: (415) 588-9652 Fax: (415) 588-1950

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 1 of 2

Client: HKZ/SEMCO	Report to: HKZ/DENO MILANO	Phone: 650.261.1968	Turnaround Time: STANDARD
Mailing Address: 70 CHEMICAL WAY REDWOOD CITY, CA. 94063	Billing to: HKZ	Fax: 650.261.0735	
		PO# / Billing Reference: 97-0247.1	Date:
			Sampler: M. DYSERT

Project / Site Address: 97.0247.1 701 SAN PABLO AVE., ALBANY, CA.

Analysis Requested

	Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	TPH-G/BTEX/MTBE	TPH-D/MO	TOTAL Pb					Comments/Hazards
1-	EX1-3	SOIL	1 / GLASS JAR	BLUE ICE	2-11-98	X	X						
2-	EX1-7	SOIL	1 / GLASS JAR	"	"	X	X	X					
3-	EX1-W	WATER	3 / 40ml. VOAs	"	"	X	(X)						Do not run diesel
4-	EX2-6	SOIL	1 / GLASS JAR	"	"	X							
5-	EX3-5	"	"	"	"	X							
	EX4-5	"	"	"	"								HOLD
6-	EX5-2	"	"	"	"	X							
	EX5-6	"	"	"	"								HOLD
7-	EX6-2	"	"	"	"	X							
	EX6-6	"	"	"	"								HOLD
8-	EX7-2	"	"	"	"	X							
	EX7-6	"	"	"	"								HOLD
9-	EX8-2	"	"	"	"	X							
	EX8-5	"	"	"	"								HOLD

				Lab Comments
Relinquished by: Mark Dysart	Date: 2-12-98	Time: 12:25 PM	Received by:	
Relinquished by:	Date:	Time:	Received by: LABS	
Relinquished by:	Date:	Time:	Received by:	

98-158 2

North State Environmental Analytical Laboratory

Phone: (415) 588-9652 Fax: (415) 588-1950

Chain of Custody / Request for Analysis

Lab Job No.: _____ Page 2 of 2

Client: HK2 / SEMCO	Report to: HK2 / DENO MILANO	Phone: 650.261.1968	Turnaround Time: STANDARD
Mailing Address: 70 CHEMICAL WAY REDWOOD CITY, CA. 94063	Billing to: HK2	Fax: 650.261.0735	
		PO# / Billing Reference: 97-0247.1	Date:
			Sampler: M. DYSERT

Project / Site Address: 97-0247.1 701 SAN PABLO AVE, ALBANY, CA.

Analysis Requested

	Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	TPH-G/BTEX/MTBE	TPH-D/MO	TOTAL PB					Comments/Hazards
10	EX9-2	SOIL	1 / GLASS JAR	BLUE ICE	2.11.98	X	X	X					
11	EX9-5	"	"	"	"	X							
12	EX10-2	"	"	"	"	X							
	EX10-5	"	"	"	"								HOLD
13	EX 11-3	"	"	"	"	X							

JOHN —

① PLEASE REPORT TPH-D/MO RESULTS ON EX1-3, EX1-7, AND EX9-2 WITHIN 7 DAYS SO I CAN DECIDE IF I NEED TO ANALYZE FOR POLYCYCLIC AROMATICS.

② PLEASE COMMENT ON WHETHER TPH-D/MO CHROMATOGRAMS REPRESENT TYPICAL TPH-D/MO (if present)

Relinquished by: Mal Aynn	Date: 2.12.98	Time: 12:28 PM	Received by:	Lab Comments
Relinquished by:	Date:	Time:	Received by: LAB	
Relinquished by:	Date:	Time:	Received by:	

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

North State Environmental
P.O.Box 5624
South San Francisco, CA 94083

Date: 05-MAR-98
Lab Job Number: 132501
Project ID: N/A
Location: N/A

Reviewed by: _____

Reviewed by: _____

This package may be reproduced only in its entirety.

Polynuclear Aromatic Hydrocarbons by GC/MS

Client:	North State Environmental	Analysis Method:	EPA 8270B
		Prep Method:	EPA 3550
Field ID:	98-158-02/EX1-7	Sampled:	02/11/98
Lab ID:	130501-001	Received:	02/27/98
Matrix:	Soil	Extracted:	03/02/98
Batch#:	39334	Analyzed:	03/02/98
Units:	ug/Kg		
Diln Fac:	1		

Analyte	Result	Reporting Limit
Naphthalene	230	50
Acenaphthylene	ND	50
Acenaphthene	120	50
Fluorene	120	50
Phenanthrene	210	50
Anthracene	ND	50
Fluoranthene	130	50
Pyrene	180	50
Benzo(a)anthracene	160	50
Chrysene	270	50
Benzo(b,k)fluoranthene	420	50
Benzo(a)pyrene	370	50
Indeno(1,2,3-cd)pyrene	230	50
Dibenz(a,h)anthracene	110	50
Benzo(g,h,i)perylene	240	50

Surrogate	%Recovery	Recovery Limits
Nitrobenzene-d5	85	32-117
2-Fluorobiphenyl	86	38-121
Terphenyl-d14	86	29-143

Lab #: 132501

BATCH QC REPORT

Curtis & Tompkins, Ltd.

Polynuclear Aromatic Hydrocarbons by GC/MS

Client:	North State Environmental	Analysis Method:	EPA 8270B
		Prep Method:	EPA 3550

METHOD BLANK

Matrix:	Soil	Prep Date:	03/02/98
Batch#:	39334	Analysis Date:	03/02/98
Units:	ug/Kg		
Diln Fac:	1		

MB Lab ID: QC65108

Analyte	Result	Reporting Limit
Naphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	ND	50
Fluorene	ND	50
Phenanthrene	ND	50
Anthracene	ND	50
Fluoranthene	ND	50
Pyrene	ND	50
Benzo(a)anthracene	ND	50
Chrysene	ND	50
Benzo(b,k)fluoranthene	ND	50
Benzo(a)pyrene	ND	50
Indeno(1,2,3-cd)pyrene	ND	50
Dibenz(a,h)anthracene	ND	50
Benzo(g,h,i)perylene	ND	50

Surrogate	%Rec	Recovery Limits
Nitrobenzene-d5	103	32-117
2-Fluorobiphenyl	98	38-121
Terphenyl-d14	88	29-143

Polynuclear Aromatic Hydrocarbons by GC/MS

Client: North State Environmental

Analysis Method: EPA 8270B
Prep Method: EPA 3550

LABORATORY CONTROL SAMPLE

Matrix: Soil
Batch#: 39334
Units: ug/Kg
Diln Fac: 1

Prep Date: 03/02/98
Analysis Date: 03/02/98

LCS Lab ID: QC65109

Analyte	Result	Spike Added	%Rec #	Limits
Acenaphthene	1421	1667	85	26-127
Pyrene	1161	1667	70	23-125

Surrogate	%Rec	Limits
Nitrobenzene-d5	95	32-117
2-Fluorobiphenyl	90	38-121
Terphenyl-d14	80	29-143

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 2 outside limits

Curtis & Tompkins Ltd.

Polynuclear Aromatic Hydrocarbons by GC/MS

Client: North State Environmental

Analysis Method: EPA 8270B
Prep Method: EPA 3550

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 132488-005
Matrix: Soil
Batch#: 39334
Units: ug/Kg dry weight
Diln Fac: 4

Sample Date: 02/26/98
Received Date: 02/26/98
Prep Date: 03/02/98
Analysis Date: 03/03/98
Moisture: 19%

MS Lab ID: QC65110

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Acenaphthene	2058	10080	17380	354 *	34-128
Pyrene	2058	11290	16860	271 *	21-152

Surrogate	%Rec	Limits
Nitrobenzene-d5	95	32-117
2-Fluorobiphenyl	97	38-121
Terphenyl-d14	99	29-143

MSD Lab ID: QC65111

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Acenaphthene	2058	14820	230 *	34-128	16	43
Pyrene	2058	15180	189 *	21-152	10	50

Surrogate	%Rec	Limits
Nitrobenzene-d5	89	32-117
2-Fluorobiphenyl	92	38-121
Terphenyl-d14	92	29-143

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 2 outside limits
Spike Recovery: 4 out of 4 outside limits

to C+T

North State Environmental Analytical Laboratory

Phone: (415) 588-9652 Fax: (415) 588-1950

Chain of Custody / Request for Analysis

Lab Job No.: 13256 Page ___ of ___

Client: NSE	Report to: S. Murphy	Phone: 650.266.4563	Turnaround Time: STD
Mailing Address: 90 S. Spruce SSFCA 94083	Billing to:	Fax:	
		PO# / Billing Reference: 96-158	Date.
			Sampler:

Project / Site Address:

Analysis Requested: 8270 (BATX)

Sample ID	Sample Type	Container No. / Type	Pres.	Sampling Date / Time	Comments / Hazards
96-158-02/EX1-7	Soil	165	—	2/4/98	

Relinquished by: I. Brodskaya	Date: 2/27/98	Time: 1:30 pm	Received by:
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by:

Lab Comments

APPENDIX D

WASTE MANIFESTS

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

~~44 03345~~
Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No.	Manifest Document No	2. Page 1 of	Information in the shaded areas is not required by Federal law.
CAC001074472	19747		

GENERATOR

3. Generator's Name and Mailing Address: Werner Property, ATTN: Ms. Ingrid Werner, 22 Kensington Ct, Kensington CA 94707-1010

4. Generator's Phone: (510) 525-9335

A. State Manifest Document Number: 96619747

B. State Generator's ID:

5. Transporter 1 Company Name: Clearwater Environmental

6. US EPA ID Number: CAR000070013

C. State Transporter's ID:

D. Transporter's Phone: 510-797-8511

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address: Alviso Independent Oil, 5002 Archer St., Alviso, CA 95002

10. US EPA ID Number: CAL000161743

G. State Facility's ID: CAL000161743

H. Facility's Phone: 510-797-8511

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. OILY WATER NON-RCRA HAZARDOUS WASTE, LIQUID	001	TT	00575	G	State 223 EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above: a. 14 b. c. d.

15. Special Handling Instructions and Additional Information
WEAR PPE
ERG 171
Emergency Contact 510-797-8511
ATTN: Kirt Hayward

site location: 701 San Pablo Ave
Albany, CA

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

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

Printed/Typed Name	Signature	Month	Day	Year
Steven Ducharme for Werner Property	Steven Ducharme	02	11	98

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Steven Ducharme	Steven Ducharme	02	11	98

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year
Yvette Easter	Yvette Easter	02	11	98

DO NOT WRITE BELOW THIS LINE.

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

96619747

DTSC 8022A (4/97)
EPA 8700—22

White: TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS
To: P.O. Box 3000, Sacramento, CA 95812

Manifest

TPS Technologies Soil Recycling
Non-Hazardous Soils

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPS:	Load #
	Consultant		A04	00248	001

Generator and/or Consultant

Generator's Name and Billing Address:	Generator's Phone #:	Generator's US EPA ID No
Werner Property/Ms. Ingrid Werner 21 Kensington Court Kensington, CA 94707-1240	(510) 525-9335 Person to Contact:	Customer Account Number with TPS: AVERUE7

Consultant's Name and Billing Address	Consultant's Phone #	
HK2/Semco 70 Chemical Way Redwood city, CA 94063 USA	(650) 261-1368 Person to Contact: Deno Miliano FAX#: (650) 261-0735	Customer Account Number with TPS: 1003107

Generation Site (Transport from): *(name & address)*	Site Phone #:	BTEX Levels
HK2, Semco/Wernere 701 San Pablo Ave. Albany, CA 94706 USA	~~(510) 525-9335~~ Person to Contact: Ms. Ingrid Werner FAX#:	TPH Levels ✓ AVG. Levels

Designated Facility (Transport to): *(name & address)*	Facility Phone #:	Facility Permit Numbers
TPS TECHNOLOGIES INC. 20 Recycling Lane Richmond, CA 94801 USA	510-236-3778 Person to Contact: D. Murashima/D. Tuchsen FAX#: 510-231-4154	

Transporter Name and Mailing Address:	Transporter's Phone #:	Transporter's US EPA ID No.:
	Person to Contact:	Transporter's DOT No.:
	FAX#	Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐			70400	33240	37160
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					12.58

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐	Signature and date:	Month	Day	Year

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
DAVID CRAWFORD	David Crawford	2	11	98

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
	Debra Tuchsen 2/11/98

TPS INVOICING COPY

Manifest — TPS Technologies Soil Recycling

Non-Hazardous Soils

U.S. Manifest #

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPS:	Load #
	Consultant		A04	00248	002

Generator and/or Consultant

Generator's Name and Billing Address:	Generator's Phone #	Generator's US EPA ID No.
Werner Property/Ms. Ingrid Werner 22 Kensington Court Kensington, CA USA	(510) 525-9335 Person to Contact: FAX#: 510 527-1956	Customer Account Number with TPS: AWERNGR

Consultant's Name and Billing Address:	Consultant's Phone #	
HK2/Semco 70 Chemical Way Redwood city, CA 94063 USA	(650) 261-1368 Person to Contact: Dero Milano FAX#: (650) 261-0735	Customer Account Number with TPS: 1003107

Generation Site (Transport from): *(name & address)*	Site Phone #	BTEX Levels
HK2, Semco/Werners 701 San Pablo Ave. Albany, CA 94706 USA	(510) 525-9335 Person to Contact: Ms. Ingrid Werner FAX: (510) 527-1956	TPH Levels AVG. Levels

Designated Facility (Transport to): *(name & address)*	Facility Phone #	Facility Permit Numbers
TPS TECHNOLOGIES INC. 20 Recycling Lane Richmond, CA 94801 USA	510-235-9778 Person to Contact: D. Murashima/D. Tuchsen FAX#: 510-231-4154	

Transporter Name and Mailing Address:	Transporter's Phone #	Transporter's US EPA ID No.:
	Person to Contact:	Transporter's DOT No.:
	FAX#:	Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐			18880	33640	15240
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					17.62

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data-Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name. Generator ☐ Consultant ☐	Signature and date:	Month	Day	Year

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
James Jack	James Jack	2	11	98

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
	Debra Tuchsen 2/11/98

TPS INVOICING COPY

Manifest

TPS Technologies Soil Recycling
Non-Hazardous Soils

Date of Shipment:	Responsible for Payment:	Transporter Truck #:	Facility #:	Given by TPS:	Load #
2-11-98	Consultant	#990	A04	00248	903

Generator and/or Consultant

Generator's Name and Billing Address:	Generator's Phone #:	Generator's US EPA ID No.
Werner Property/Ms. Ingrid Werner 22 Kenilworth Court Kensington, CA 94707-1140 USA	(510) 525-9335 Person to Contact: Ms. Ingrid Werner FAX#: (510) 527-1356	N/A Customer Account Number with TPS: 4WERNER

Consultant's Name and Billing Address:	Consultant's Phone #:	
HK2/Semco 70 Chemical Way Redwood city, CA 94063 USA	(650) 261-1968 Person to Contact: Deno Milano FAX#: (650) 261-0735	Customer Account Number with TPS: 1003107

Generation Site (Transport from): *(name & address)*	Site Phone #:	BTEX Levels
HK2, Semco/Werners 701 San Pablo Ave. Albany, CA 94706 USA	(510) 525-9335 Person to Contact: Ms. Ingrid Werner FAX#: (510) 527-1356	TPH Levels AVG. Levels

Designated Facility (Transport to): *(name & address)*	Facility Phone #:	Facility Permit Numbers
TPS TECHNOLOGIES INC. 20 Recycling Lane Richmond, CA 94801 USA	510-235-8778 Person to Contact: D. Murashima/D. Tuchsen FAX#: 510-231-4154	

Transporter

Transporter Name and Mailing Address:	Transporter's Phone #:	Transporter's US EPA ID No.:
RKH HAMILTON TRUCKING 1217 7th ST. MODESTO, CA	(209) 578-4100 Person to Contact: SCOTT FAX#:	Transporter's DOT No.: 686196 Customer Account Number with TPS:

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☒ Other ☐	0 - 10% ☒ 10 - 20% ☐ 20% - over ☐	Gas ☒ Diesel ☐ Other ☐	15yd.	GASOLINE AFFECTED SOIL	10460	8340	2120
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					18.61

List any exception to items listed above:

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name:	Generator ☐	Consultant ☒	Signature and date:	Month	Day	Year
MARK DYSERT FOR HK - Inc /Semco				02	11	98

Transporter

Transporter's certification: I/We acknowledge receipt of the soil described above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that this soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
X DAVID CRAWFORD	X David Crawford	2	11	98

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
	Debra Tuchsen 2/11/98

TPS INVOICING COPY

Customer Job Report

Gross & Tare Weight Codes: M=Manual; S=Scale; T=Trk File

Job Number	Name	SiteAddress	SiteCity	State	ZipCode
A04 -- 00248	HK2.Semco/Werners	701 San Pablo Ave.	Albany	CA	94706

Load #	Date & Time Out	Transporter #	Truck & Trailer Number	Gross (lb)	Tare (lb)	Net (lb)	Net Wt (tons)
1	02/11/98 11:02			70,400M	33,240M	37,160	18.58
2	02/11/98 11:46			68,880M	33,640M	35,240	17.62
3	02/11/98 12:29			70,460M	33,240M	37,220	18.61

Completed Loads	Manifests Received	Completed Weight	Estimated Weight	TOTAL Net Wt:
50.00%	3	52.20%	105.00(tons)	54.81 (tons)

fornia—Environmental Protection Agency
d OMB No. 2050-0039 (Expires 9-30-99)
ot type. Form designed for use on elite (12-pitch) typewriter.

-R-1 C

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
C A C 0 0 1 3 9 0 5 7 6	9 0 6 9 0		

3. Generator's Name and Mailing Address	A. State Manifest Document Number
Ingrid Werner 70 Chemical Way Redwood City CA 94063 4. Generator's Phone (510) 525-9335 Site Address 701 San Pablo Avenue Albany CA 94706	96790690 B. State Generator's ID EXEMPT

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
North State Environmental	C A D 0 0 0 6 0 3 7 3 8	0539 D. Transporter's Phone (415) 588-2838
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility's ID H. Facility's Phone
Chemical Waste Management, Inc. 35251 Old Skyline Road Kettleman City CA 93239	C A T 0 0 0 6 4 6 1 1 7	C A T 0 0 0 6 4 6 1 1 7 (800) 222-2964

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Numbers
a. Hydrocarbon and lead affected soil, Non-RCRA hazardous waste solid	1	CM	16	Y	State 611 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above — emergency code
1) Hydrocarbon and lead affected soil

K. Handling Codes for Wastes Listed Above
a: B3

15. Special Handling Instructions and Additional Information

Emergency Contact:
Ingrid Werner (510) 525-9335
(650) 261-1968
Trans 1 address: 90 S. Spruce Ave., South San Francisco, CA 94080
Trans 2 address:

a: BN b: c: d:

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

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

Printed/Typed Name	Signature	Month	Day	Year
L Courtney For Sanco	(For Sanco)	03	16	98

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name	Signature	Month	Day	Year
L. Courtney		03	16	98
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

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

Printed/Typed Name	Signature	Month	Day	Year
L. Courtney		03	17	98

DO NOT WRITE BELOW THIS LINE.

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS. (Generators who submit hazardous waste for transport out-of-state, produce completed copy of this copy and send to DTSC within 30 days.)

DTSC 8022A (4/97)
EPA 8700—22

GENERATOR

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER (800) 424-8802

SARCVO2 CHANGE KETTLEMAN HILLS FACILITY ASPRCWMENV 3/27/98 13:19:26

Edit Load

Receipt Number 000179101

S/A Receipt Problem Status No Problems

Comments Exist?

Truck Arrival:	Date	3/17/98	Time 15:14	User	WM0813CWG
Truck Weigh-in:	Date	3/17/98	Time 15:31	User	WM0813CWG
Truck Unloaded:	Date	3/17/98	Time 15:46	User	WM0813CWG
Truck Weigh-Out:	Date	3/17/98	Time 16:20	User	WM0813CWG
Paperwork Review:	Date	3/17/98	Time 15:32	User	WM0813CWG

Chargeable Demurrage: Hours Spec Grav/Dens:

Weights: Gross . . .	77540.00	Actual Qty . :	16.00	Cubic Yards
Tare	42660.00	Accepted Qty :	16.00	Cubic Yards
Net . . . :	34880.00	Site Status		
Adjustment .		(LBS) OR Percentage:		
Adj. Net . :	34880.00	Cell Coord. 818 -	1222	768

Wgt Adjustment Comment

Priority: 1 Scheduled On-time Type: RO Rolloff

Transporter: NORTH Local Transporter N/A

104-8-216 NORTH STATE ENVIRONMENTAL SOUTH SAN FRANCISCO CA

State EPA Id:

Truck # Trlr/Cntnr #1 #2 #3

F1=Prt1 F2=Wst Inv F3=Exit F4=Chklst F6=Curr Dte/Tm F7=C/A/R F8=Prt2 F9=DrmRpt
F10=Lbl F11=Del F12=Pmpt F15=Prb F16=Sts F20=Recalc F22=Cmt F23=Ln Itm F24=Ooc

17.44 tons (34,880 lbs.)

B-10

California—Environmental Protection Agency
Approved OMB No 2050-0039 (Expires 9-30-99)
Please print or type. Form designed for use on elite (12-pitch) typewriter

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1 Generator's US EPA ID No	Manifest Document No.	2 Page 1 of 1	Information in the shaded areas is not required by Federal law
CAC001390576	96790691		

3 Generator's Name and Mailing Address
Ingrid Werner
70 Chemical Way
Redwood City CA 94063
4 Generator's Phone (510) 525-9335

Site Address
701 San Pablo Avenue
Albany
CA 94706

A. State Manifest Document Number 96790691

B. State Generator's ID TAX-EXEMPT

5 Transporter 1 Company Name North State Environmental
6 US EPA ID Number CAD006037338
C. State Transporter's ID 0539
D. Transporter's Phone (415) 588-2838

7 Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9 Designated Facility Name and Site Address
Chemical Waste Management, Inc.
35251 Old Skyline Road
Kettleman City CA 93239
10 US EPA ID Number CAT000646117
G. State Facility's ID CAT000646117
H. Facility's Phone (800) 222-2964

11 US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12 Containers No	12 Containers Type	13 Total Quantity	14 Unit Wt/Vol	I. Waste Number
a. Hydrocarbon and lead affected soil, Non-RCRA hazardous waste solid	1	CM	5	Y	State 611 / / EPA/Other nrm
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
a dz2511 hydrocarbon and lead affected soil — emer. code nrm

K. Handling Codes for Wastes Listed Above
a. 15/03 b. c. d.

15 Special Handling Instructions and Additional Information
Emergency Contact:
Ingrid Werner (510) 525-9335
(650) 261-1968
Trans 1 address: 90 S.Spruce Ave., South San Francisco, CA 94080
Trans 2 address:
a: BW b: c: d:

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

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

Printed/Typed Name	Signature	Month	Day	Year
L Cavaliere (For Series)	(For Series)	03	16	98

17 Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
L Cavaliere		03	16	98

18 Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19 Discrepancy Indication Space
Lic Vs Solid Received w/ Dina Millan as HK 2 on 3/18/98

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

Printed/Typed Name	Signature	Month	Day	Year
W. Gentry		03	18	98

DO NOT WRITE BELOW THIS LINE.

GENERATOR — TRANSPORTER — FACILITY

DTSC 8022A (4/97)
EPA 8700—22

White TSDF SENDS THIS COPY TO DTSC WITHIN 30 DAYS
To P.O. Box 806, Sacramento, CA 95812

SARCV02 CHANGE KETTLEMAN HILLS FACILITY ASPROWMENV 3/27/98 13:19:15
Edit Load

Receipt Number 000179172 Problem Status Resolved
S/A Receipt Comments Exist?

Truck Arrival:	Date	3/18/98	Time 13:12	User WM0813VRS	
Truck Weigh-in:	Date	3/18/98	Time 13:28	User WM0813VRS	
Truck Unloaded:	Date	3/18/98	Time 16:09	User WM0813VRS	
Truck Weigh-Out:	Date	3/18/98	Time 16:40	User WM0813VRS	
Paperwork Review:	Date	3/18/98	Time 14:05	User WM0813VRS	
Chargeable Demurrage:	Hours		Spec Grav/Dens:		
Weights: Gross . . .		62540.00	Actual Qty . :	5.00	Cubic Yards
Tare		45960.00	Accepted Qty :	5.00	Cubic Yards
Net . . . :		16580.00	Site Status		
Adjustment .			(LBS) OR Percentage:		
Adj. Net . :		16580.00	Cell Coord. fsu -	bn3	

Wgt Adjustment Comment
Priority: 1 Scheduled On-time Type: RO Rolloff
Transporter: NORTH Local Transporter N/A
104-8-216 NORTH STATE ENVIRONMENTAL SOUTH SAN FRANCISCO CA
State EPA Id:
Truck # Trlr/Cntnr #1 #2 #3
F1=Prt1 F2=Wst Inv F3=Exit F4=Chklst F6=Curr Dte/Tm F7=C/A/R F8=Prt2 F9=DrmRpt
F10=Lbl F11=Del F12=Pmpt F15=Prb F16=Sts F20=Recalc F22=Cmt F23=Ln Itm F24=Doc

8.29 Tons (16580 lbs)

TO: Deno

From: Jenny

2 pgs