

**Underground Storage Tank Removal Report**  
**Sherwin-Williams Facility**  
**Emeryville, California**  
**March 15, 1996**  
**3637.00**  
Prepared for  
Sherwin-Williams Company  
101 Prospect Avenue Northwest  
Cleveland, Ohio 44115



March 15, 1996

LF 3637.00

Ms. Susan Hugo  
Hazardous Materials Specialist  
Alameda County Health Care Services Agency  
Department of Environmental Health  
Division of Hazardous Materials  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, California 94502

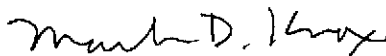
Subject: Underground Storage Tank Removal Report, The Sherwin-Williams Facility,  
Emeryville, California

Dear Ms. Hugo:

Levine-Fricke has prepared the enclosed report as requested by Sherwin-Williams Company on behalf of Southern Pacific Lines. The report describes the activities conducted to remove two underground storage tanks owned by Southern Pacific Lines and located on the Sherwin-Williams facility located in Emeryville, California. The report describes excavation, soil sampling, and waste disposal activities.

If you have any questions or comments regarding the report, please contact either of the undersigned or Roger Leventhal, P.E.

Sincerely,



Mark D. Knox, P.E.  
Principal Engineer



Shellie Fletcher  
Senior Staff Engineer

Enclosure

cc: Mr. Randal T. Smith, P.E., Southern Pacific Lines  
Mr. Larry Mencin, Sherwin-Williams

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## 1.0 INTRODUCTION AND BACKGROUND

Levine-Fricke, Inc. ("Levine-Fricke") has prepared this report documenting the removal of two underground storage tanks (USTs) from the Sherwin-Williams facility located in Emeryville, California ("the Site"; Figure 1). The work was performed by Levine-Fricke as directed by the Sherwin-Williams Company ("Sherwin-Williams") on behalf of Southern Pacific Lines (SPL), so as to expedite the tank removal process during the final stages of completion of capping activities at the Site. The work was coordinated with the Alameda County Health Care Services Agency (ACHCSA) with specific approval of analytical methods by Ms. Susan Hugo.

The two USTs were encountered at the Site during remedial activities being performed by Power Engineering of Palo Alto, California ("Power") for the Interim Remedial Measures (IRMs) on the Sherwin-Williams site. Soil around and above the tanks was removed by Power, revealing the tanks for observation, and was stockpiled adjacent to the UST excavation. Levine-Fricke personnel observed that approximately 5 cubic yards of soil was stockpiled. The "torpedo" tanks were located on Sherwin-Williams property and contained a heavy and viscous petroleum hydrocarbon.

## 2.0 FIELD ACTIVITIES

### 2.1 Product Sampling and Removal

On July 13, 1995, before removal of the two USTs from the excavation, Levine-Fricke sampled product from within the USTs (sample designations: North Tank and South Tank). The samples were submitted to Chromalab of Pleasanton, California, for analysis. The product samples were analyzed for the following priority pollutants on a 24-hour rush basis: volatile organic compounds (VOCs) using EPA Method 8240/8260, the RCRA 8 metals using EPA Method 3010A/6010/7470, and polychlorinated biphenyls (PCBs) using EPA Method 3550/8080 (Table 1). In addition, the samples were analyzed for total extractable petroleum hydrocarbons (TPHes) using EPA Method 3510/8015. Analytical test results indicated that no priority pollutant was present in the product. Analytical test results detected the presence of motor oil at a concentration of 370 milligrams per liter (mg/l) in product sample South Tank and an "unknown hydrocarbon in the motor oil range" at a concentration of 34,000 mg/l in product sample North Tank.

On July 18, 1995, approximately 540 gallons of product was removed from the tanks by Erickson Environmental of Richmond, California ("Erickson"), under the observation of Levine-Fricke personnel. Erickson transported the product to Evergreen Environmental Services of Hayward, California, for recycling.

## 2.2 UST Removal

Power, a state-licensed contractor for general construction and hazardous materials work, performed UST removal activities under the observation of Levine·Fricke personnel on July 20, 21, and 24, 1995. All field activities were performed in accordance with the Levine·Fricke Health and Safety Plan (HSP) for the Site. Tank removal activities were performed under a tank closure permit from the ACHCSA and under permit from the City of Emeryville Fire Department. Ms. Susan Hugo, ACHCSA Hazardous Materials Specialist, and Mr. George Warren, of the Emeryville Fire Department, observed removal of the two USTs.

Before the USTs were removed from the excavation, approximately 10 pounds of dry ice was inserted into each tank by Power to render the USTs inert. The USTs were then checked for the presence of combustible gases using an explosivity meter. In both tanks, the oxygen content was measured at less than 10% and the percentage of the lower explosive limit (%LEL) was less than 10%, in accordance with the City of Emeryville Fire Department regulations.

The USTs were removed from the excavation using a backhoe. Upon removal, the tanks were observed to be approximately 8 feet long and to have a diameter of approximately 22 inches. The tanks were estimated have a capacity of approximately 270 gallons and were observed to be constructed of heavy gauge steel. The bottom of the USTs were approximately 4.5 feet below ground surface (bgs). No apparent piping was observed attached to the tanks. Upon inspection of the USTs, no major pitting or corrosion of the UST steel was observed. An approximately 0.75-inch-diameter hole was observed on the top of the north UST. The hole did not appear to be the result of corrosion or pitting. The hole was situated approximately 3 feet from the east end of the UST.

After inspection, the USTs were wrapped with visquene, loaded, and transported off site by Erickson. The USTs were transported to Erickson's yard in Richmond for cleaning and scrapping.

## 2.3 Soil Excavation and Backfilling

After the USTs were removed, approximately 5 cubic yards of discolored soil was removed from the excavation. Excavation was limited at the Site by the SPL easement to the west and by a slurry cut-off wall to the east. The floor of the excavation was excavated to approximately 5 feet bgs.

Levine·Fricke personnel collected four soil samples from the UST excavation: one from each sidewall, except the east wall (sample designations: North, South, and West), and one from the floor of the excavation (sample designation: Floor). Soil sampling locations were selected based on visual indications of petroleum hydrocarbons, such as

discoloration and staining, and upon excavation geometry. Soil sampling locations are shown on Figure 2.

The samples were collected in clean brass tubes from soil removed from the excavation with a backhoe bucket. The brass tubes were sealed with Teflon tape, capped, labeled, and placed in a chilled ice chest. The samples were transported to Chromalab under strict chain-of-custody protocol. Analytical test results indicated that elevated concentrations of petroleum hydrocarbons were present in all four soil samples collected (Table 2); therefore, in accordance with a request from ACHCSA, an additional 4 cubic yards of affected soil was excavated from the tank pit. The final overexcavation was 14 feet long (east to west), 12 feet wide (north to south), and 6 feet deep. Additional soil samples were collected from the overexcavation sidewalls (see Figure 2), except from the east sidewall (sample designations: North-OE, South-OE, and West-OE), and from the floor (sample designation: Floor-OE). The samples were transported to American Environmental Network (AEN) of Pleasant Hill, California, for analysis on a standard turn-around time basis.

The excavation was backfilled with clean, imported 3/4-inch angular gravel fill. The placement of fill was not observed by Levine-Fricke. SPL disposed of the petroleum-affected soil at the Altamont Landfill in Livermore, California. Documentation for the transportation and disposal of the waste soil were supplied to Levine-Fricke by SPL and are presented in Appendix A. Laboratory certificates for all analytical results are presented in Appendix B.

## 2.4 Trench Product

In addition to the discovery of the USTs, a heavy black petroleum product was observed in a trench to the northeast of the USTs inside of the slurry wall. As requested by the ACHCSA, the product in this trench was sampled and analyzed (see lab results in Appendix B identified as "PRODUCT"). The analysis was performed on a rush basis so that Sherwin-Williams could complete IRM site work without demobilization. The results indicated that the product consisted of the longer chain petroleum hydrocarbons similar to the analysis around the UST. VOCs and semivolatile organic compounds (SVOCs) in the product were nondetectable. The product was located in an area which would be contained within the IRM slurry wall and cap. After the results were discussed with ACHCSA representatives, no further excavation was conducted and the trench was backfilled.

## 3.0 SOIL ANALYSIS

Table 2 presents analytical test results for soil samples.

### **3.1 Analysis Methods**

Initial excavation soil samples collected from the sidewalls and bottom of the UST excavation (sample designations: North, South, West, and Floor); all soil samples collected from the overexcavation of the USTs (sample designations: North-OE, South-OE, West-OE, and Floor-OE), and two soil samples collected from stockpiled soil (sample designations: STKPL-N and STKPL-O) were analyzed for TPHes (motor oil for all samples and kerosene and diesel for selected samples) using EPA Method 3550/8015.

The soil sample Floor from the initial excavation was also analyzed for semivolatile organic compounds (SVOCs) using EPA Method 3550/8270, and for CAM 17 metals using EPA Method 3050. The soil sample Floor-OE was analyzed for total petroleum hydrocarbons (TPH) by the California WET method using deionized water.

### **3.2 Analytical Test Results**

#### **3.2.1 Total Extractable Petroleum Hydrocarbons**

Motor oil was detected above laboratory detection limits in each sample analyzed for motor oil, at concentrations ranging from 810 milligrams per kilogram (mg/kg; sample North) to 1,700 mg/kg (sample West-OE). Kerosene and diesel were detected in all of the selected soil samples analyzed for these constituents. Concentrations of kerosene ranged from 110 mg/kg in sample North-OE to 530 mg/kg in sample West-OE. Concentrations of diesel ranged from 170 mg/kg in sample North-OE to 760 mg/kg in sample West-OE.

#### **3.2.2 Other Analyses**

No SVOCs or TPHes by the California WET method were detected above laboratory detection limits. None of the CAM 17 metals were detected above regulatory thresholds.

## **4.0 CONCLUSIONS AND RECOMMENDATIONS**

Two 270-gallon USTs were removed from the Site, along with approximately 10 cubic yards (in-place measure) of affected backfill. Analytical test results of product samples indicate that the USTs contained a heavy petroleum hydrocarbon. Analytical test results of soil samples indicate that soils in the vicinity of the former USTs are also affected with a heavy petroleum hydrocarbons in the oil and grease range.

The tank excavation has been backfilled with clean import fill. No further action is recommended for soil remediation around the tank. Future ground-water monitoring should be addressed by SPL and the ACHCSA.

**Table 1**  
**Product Sampling Analytical Results**  
**Sherwin-Williams**  
**Emeryville, California**

Sample ID	Sample Date	Unit of Measure	Kerosene	Diesel	Motor Oil
(North Tank) 1	13-Jul-95	mg/kg	< 600	< 600	< 6000 <sup>1</sup>
(South Tank) 2	13-Jul-95	ug/l	< 5000	< 5000	370,000

Data entered by CTH 18-Oct-95. Proofed by SRF. QA/QC by MJL

**Notes**

<sup>1</sup>Unknown hydrocarbons in the motor oil range of 34,000 mg/kg reported by Chromalab.

Also tested for presence of PCBs, VOCs, and metals. PCBs were non-detect. Metals were not detected above regulatory thresholds. VOCs were non-detect except the North Tank which had low levels of benzene (0.22 mg/kg), toluene (0.26 mg/kg) and total xylenes (1.7 mg/kg). For test results, refer to Appendix A.



**Table 2**  
**Soil Sampling Analytical Results**  
**Sherwin-Williams**  
**Emeryville, California**

*All results expressed in mg/kg*

Sample ID	Sample Date	Kerosene	Diesel	Motor Oil
Floor	3-Aug-95	150	400	1400
South	3-Aug-95	NA	NA	1000
North	3-Aug-95	NA	NA	810
West	3-Aug-95	NA	NA	1200
STKPL-N	3-Aug-95	NA	NA	1000
STKPL-O	3-Aug-95	NA	NA	870
North-OE	11-Aug-95	110	170	910
South-OE	11-Aug-95	150	280	940
West-OE	11-Aug-95	530	760	1700

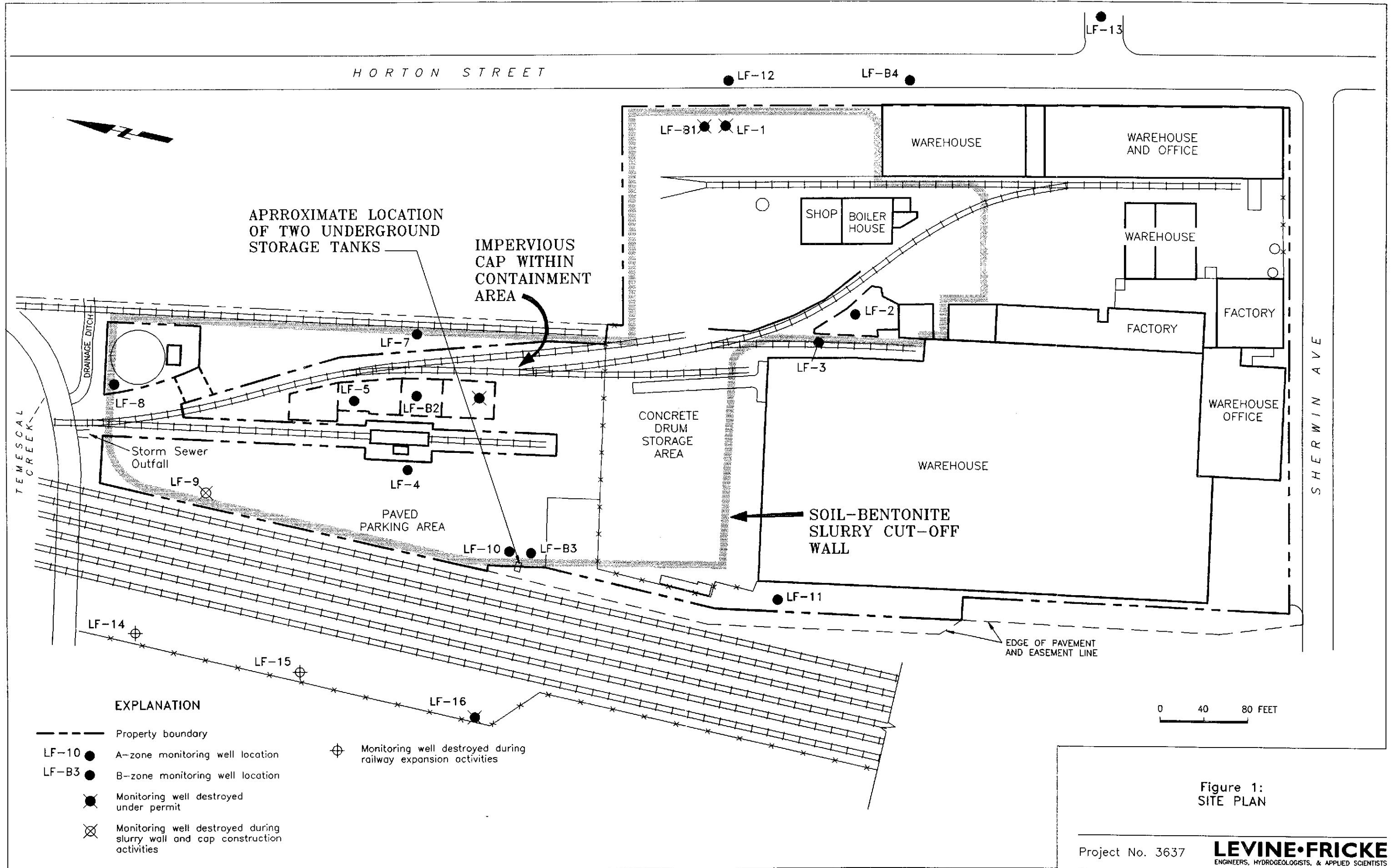
Data entered by CTH 18-Oct-95. Proofed by SRF. QA/QC by mjl

**Notes**

Sample Floor also tested for presence of SVOCs and metals. All were non-detect, except for metals, which were not detected above regulatory thresholds. For test results, refer to Appendix A.

Sample Floor-OE tested for TPHe by the California WET test using deionized water. Sample results were non-detect.

NA = Not Analyzed



**EXPLANATION**

- Property boundary
- LF-10 A-zone monitoring well location
- LF-B3 B-zone monitoring well location
- ⊗ Monitoring well destroyed under permit
- ⊗ Monitoring well destroyed during slurry wall and cap construction activities
- ⊕ Monitoring well destroyed during railway expansion activities

Figure 1:  
SITE PLAN

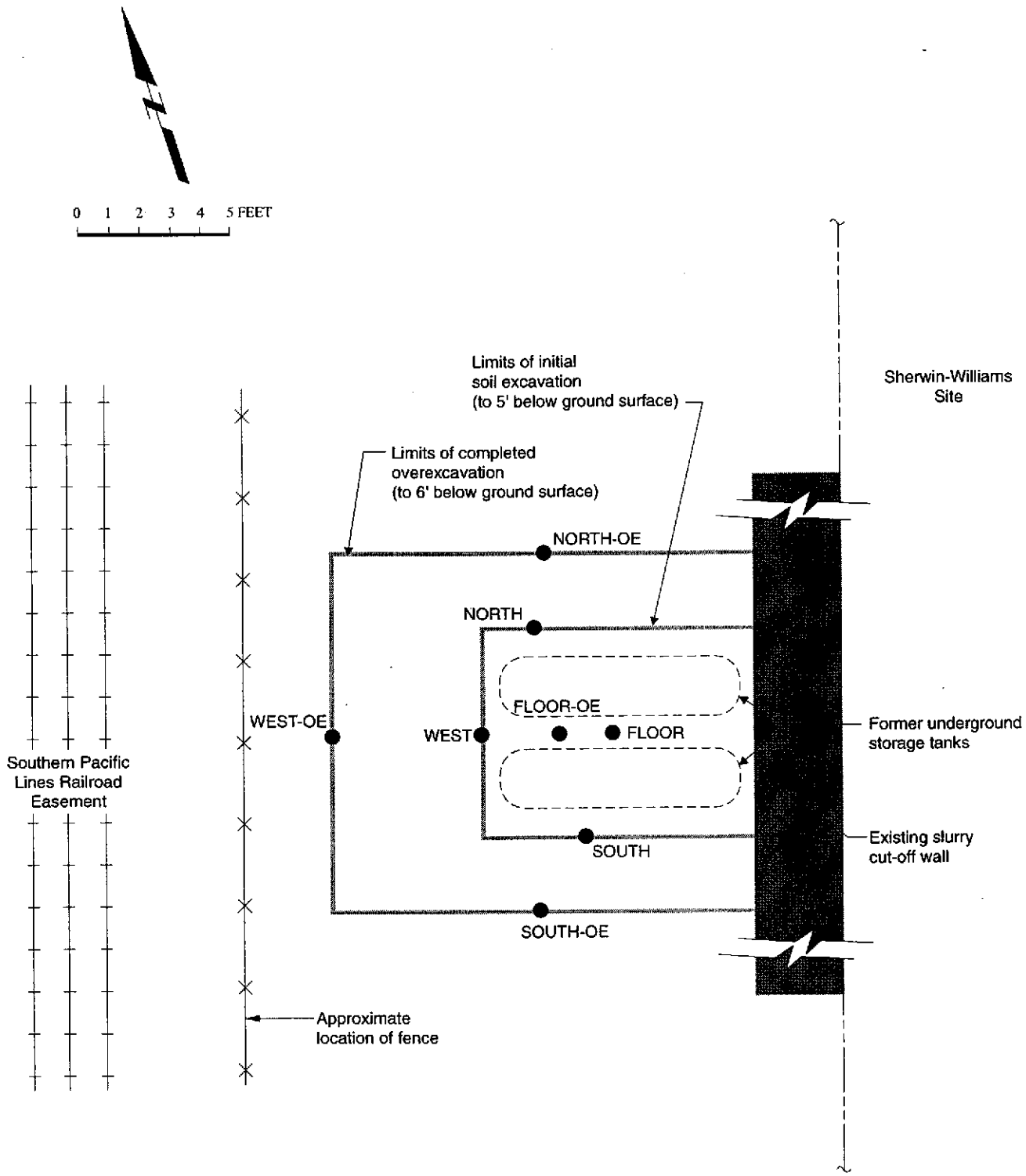


Figure 2 : EXCAVATION OF USTS AND SOIL SAMPLING LOCATIONS

**APPENDIX A**

**LABORATORY CERTIFICATES**

# CHAIN OF CUSTODY / ANALYSES REQUEST FORM

SBBN #: 9507115 REP: PM  
 CLIENT: L-F  
 DRE: 07/14/95  
 REF #: 22876

Project No.: 2616.95      Field Logbook No.: \_\_\_\_\_      Date: 7/13/95 S  
 Project Name: Stewart Williams      Project Location: \_\_\_\_\_

SAMPLES					ANALYSES						SAMPLERS:				
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	EPA 601	EPA 624	TEPH	8240	PCB	METALS	PCBS	HOLD	RUSH	REMARKS
						1	7/13			7	U			✓	
2	7/13			7	W			✓	✓	✓	✓	✓	✓	✓	SOUTH TANK
24-HOUR RUSH FOR TEPH 9 PCB METALS PCBs EPA 8240															
* Sample Received at room Temp.															
<h1 style="font-size: 2em; margin: 0;">RUSH</h1>															

RELINQUISHED BY: (Signature) <u>P. Carstee</u>	DATE	TIME	RECEIVED BY: (Signature) <u>Dean Adin</u>	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		
Sample Collector: LEVINE-FRICKE 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500			Analytical Laboratory: <u>CHUMKAD</u>		

# CHROMALAB, INC.

Environmental Services (SDB)

July 14, 1995

Submission #: 9507115

LEVINE-FRISKE - EMERYVILLE  
Atten: ROGER LEVENTHAL  
Project: SHERWIN WILLIAMS

Project#: 3637.00-001

Received: July 13, 1995

re: One sample for Volatile Organic Compounds analysis.

Method: EPA 8240/8260

Client Sample ID: (SOUTH TANK) 2

Matrix: WATER

Sample #: 95631

Sampled: July 13, 1995

Run: 7636-A

Analyzed: July 14, 1995

Analyte	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	4.0	N.D.	--
BENZENE	N.D.	2.0	N.D.	107
BROMODICHLOROMETHANE	N.D.	2.0	N.D.	--
BROMOFORM	N.D.	2.0	N.D.	--
BROMOMETHANE	N.D.	2.0	N.D.	--
METHYL ETHYL KETONE	N.D.	2.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	2.0	N.D.	--
CHLOROBENZENE	N.D.	2.0	N.D.	99
CHLOROETHANE	N.D.	2.0	N.D.	--
2-CHLOROETHYL VINYL ETHER	N.D.	2.0	N.D.	--
CHLOROFORM	N.D.	2.0	N.D.	--
CHLOROMETHANE	N.D.	2.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	2.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	2.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	2.0	N.D.	88
CIS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.	--
TRANS-1,2-DICHLOROETHENE	N.D.	2.0	N.D.	--
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.	--
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--
ETHYLBENZENE	N.D.	2.0	N.D.	--
2-HEXANONE	N.D.	2.0	N.D.	--
METHYLENE CHLORIDE	N.D.	2.0	N.D.	--
METHYL ISOBUTYL KETONE	N.D.	2.0	N.D.	--
STYRENE	N.D.	2.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.	--
TETRACHLOROETHENE	N.D.	2.0	N.D.	--
TOLUENE	N.D.	2.0	N.D.	93
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.	--
TRICHLOROETHENE	N.D.	2.0	N.D.	92
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.	--
VINYL ACETATE	N.D.	2.0	N.D.	--
VINYL CHLORIDE	N.D.	2.0	N.D.	--
TOTAL XYLENES	N.D.	2.0	N.D.	--

Ali Kharrazi  
Organic Manager

Ali Kharrazi  
Organic Manager

## LEVINE-FRICKE

SAMPLE ID: WEST-OE  
AEN LAB NO: 9508161-04  
AEN WORK ORDER: 9508161  
CLIENT PROJ. ID: 3637.00

DATE SAMPLED: 08/11/95  
DATE RECEIVED: 08/11/95  
REPORT DATE: 09/05/95

---

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3550	-		Extrn. Date	08/22/95
TPH as Diesel	GC-FID	760 *	5 mg/kg		08/24/95
TPH as Kerosene	GC-FID	530 *	5 mg/kg		08/24/95
TPH as Oil	GC-FID	1,700 *	30 mg/kg		08/30/95

---

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit

\* = Value at or above reporting limit

AEN (CALIFORNIA)  
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9508161

CLIENT PROJECT ID: 3637.00

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

D: Surrogates diluted out.

#: Indicates result outside of established laboratory QC limits.



QUALITY CONTROL DATA

METHOD: EPA 3550 GCFID

AEN JOB NO: 9508161  
AEN LAB NO: 0822-BLANK  
DATE EXTRACTED: 08/22/95  
DATE ANALYZED: 08/23-24/95  
INSTRUMENT: C  
MATRIX: SOIL

Method Blank

---

Analyte	Result (mg/kg)	Reporting Limit (mg/kg)
Diesel	ND	1

---

QUALITY CONTROL DATA  
METHOD: EPA 3550 GCFID

AEN JOB NO: 9508161  
DATE EXTRACTED: 08/22/95  
INSTRUMENT: C  
MATRIX: SOIL

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
08/24/95	NORTH-OE	02	99
08/24/95	SOUTH-OE	03	96
08/24/95	WEST-OE	04	102
QC Limits:			45-110

DATE EXTRACTED: 08/22/95  
DATE ANALYZED: 08/23/95  
SAMPLE SPIKED: SAND  
INSTRUMENT: C

Laboratory Control Sample Recovery

Analyte	Spike Added (mg/kg)	Average Percent Recovery	QC Limits Percent Recovery
Diesel	40.6	76	53-103

LEVINE-FRICKE

DATE SAMPLED: 08/11/95  
DATE RECEIVED: 08/11/95  
REPORT DATE: 09/05/95

SAMPLE ID: FLOOR-OE  
AEN LAB NO: 9508161-01  
AEN WORK ORDER: 9508161  
CLIENT PROJ. ID: 3637.00

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
---------	-----------------	--------	--------------------	-------	------------------

#CA MET w/Deionized Water	CA Title 22	-	-	Extrn Date	08/16/95
---------------------------	-------------	---	---	------------	----------

#Extraction for TPH DI H20	EPA 3510	-	-	Extrn Date	08/22/95
----------------------------	----------	---	---	------------	----------

TPH as Oil in DI/WET Ext	GC-FID	ND	0.8 mg/L		08/23/95
--------------------------	--------	----	----------	--	----------

TPH Diesel in DI/WET Ext	GC-FID	ND	0.2 mg/L		08/23/95
--------------------------	--------	----	----------	--	----------

TPH Kerosene in DI/WET Ext	GC-FID	ND	0.2 mg/L		08/23/95
----------------------------	--------	----	----------	--	----------

ND = Not detected at or above the reporting limit  
\* = Value at or above reporting limit

# American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

PAGE 1

LEVINE-FRICKE  
1900 POWELL ST. 12TH FL.  
EMERYVILLE, CA 94608

ATTN: SHELLIE FLETCHER

CLIENT PROJ. ID: 3637.00

CLIENT PROJ. NAME: SHERWIN WILLMS

C.O.C. NUMBER: 013714

REPORT DATE: 09/05/95

DATE(S) SAMPLED: 08/11/95

DATE RECEIVED: 08/11/95

AEN WORK ORDER: 9508161

## PROJECT SUMMARY:

On August 11, 1995, this laboratory received 4 soil sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysts are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysts, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

*Larry Klein*  
Larry Klein  
Laboratory Director

SEP - 5

QUALITY CONTROL DATA  
METHOD: EPA 3510 GCFID

AEN JOB NO: 9508161  
AEN LAB NO: 0822-BLANK  
DATE EXTRACTED: 08/22/95  
DATE ANALYZED: 08/23/95  
INSTRUMENT: C  
MATRIX: WET

Method Blank

---

Analyte	Result (mg/L)	Reporting Limit (mg/L)
Diesel	ND	1

---

QUALITY CONTROL DATA  
METHOD: EPA 3510 GCFID

AEN JOB NO: 9508161  
DATE EXTRACTED: 08/22/95  
INSTRUMENT: C  
MATRIX: WET

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery	
			n-Pentacosane	
08/23/95	FLOOR-OE	01	86	
QC Limits:			59-118	

DATE EXTRACTED: 08/21/95  
DATE ANALYZED: 08/23/95  
SAMPLE SPIKED: DI WATER  
INSTRUMENT: C

Method Spike Recovery Summary

Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	QC Limits	
				Percent Recovery	RPD
Diesel	2.03	83	5	58-107	15

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

9508161

Project No.: **3637.00** Field Logbook No.: \_\_\_\_\_ Date: **8/11/95** Serial No.: **No 013714**  
 Project Name: **Sherwin Williams** Project Location: **EMERYVILLE.**

SAMPLER (Signature):					ANALYSES						SAMPLERS:		REMARKS
SAMPLES					EPA 601	EPA 624	TRAC	TCLP	WET DI	HOLD	RUSH	SRF	
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE								
FLOOR-DE	8/11/95		D1A	1	SOIL			X	X				
NORTH-OE	↓		D2A	1	"			X				RUN TCLP w/ DI H <sub>2</sub> O	
SOUTH-OE	↓		D3A	1	"			X				RUN leachate from	
WEST-OE	↓		D4A	1	"			X				WET TCLP for TPH.	
												DI Diesel, oil, kerosene	
												NORMAL TAT	
												RESULTS to	
												Shellie Fletcher	
												8/15/95 Change TCLP DI	
												to a WET DI per	
												Shelly Fletcher R. Byars	

RELINQUISHED BY: (Signature) <i>Shellie Fletcher</i>	DATE <b>8/11/95</b>	TIME <b>12:00</b>	RECEIVED BY: (Signature) <i>Michael E. Kuller</i>	DATE <b>8/11/95</b>	TIME <b>17:15</b>
RELINQUISHED BY: (Signature) <i>Michael E. Kuller</i>	DATE <b>8/11/95</b>	TIME <b>16:20</b>	RECEIVED BY: (Signature) <i>Debbie Harrington</i>	DATE <b>8/11/95</b>	TIME <b>18:20</b>
RELINQUISHED BY: (Signature) _____	DATE _____	TIME _____	RECEIVED BY: (Signature) _____	DATE _____	TIME _____
METHOD OF SHIPMENT: _____	DATE _____	TIME _____	LAB COMMENTS: _____		
Sample Collector: <b>LEVINE-FRICKE</b> 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500	Analytical Laboratory: <b>AEN</b>				

# CHROMALAB, INC.

Environmental Services (SDB)

August 10, 1995

Submission #: 9508121

LEVINE-FRICKE - EMERYVILLE

COCT#13836

Atten: Shellie Fletcher

Project: SHERWIN WILLIAMS  
Received: August 9, 1995

Project#: ~~8637.00~~

re: 1 sample for Gasoline analysis.  
Method: EPA 5030/8015M

Sampled: August 9, 1995

Matrix: OIL

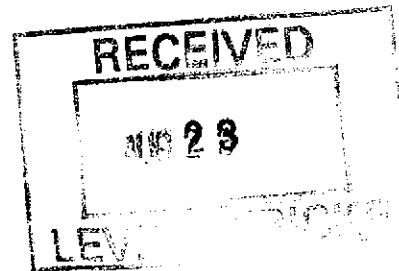
Run: 7965-2

Analyzed: August 10, 1995

Spl #	Sample ID	GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
98532	PRODUCT	N.D.	17000	N.D.	111

*Jack Kelly*  
Jack Kelly  
Chemist

*Ali Kharrazi*  
Ali Kharrazi  
Organic Manager





# CHROMALAB, INC.

Environmental Services (SDB)

August 10, 1995

Submission #: 9508121

LEVINE-FRICKE - EMERYVILLE

Atten: Shellie Fletcher

Project: SHERWIN WILLIAMS

Project#: 3637.00

Received: August 9, 1995

re: 1 sample for Total Extractable Petroleum Hydrocarbons (TEPH) analysis.

Method: EPA 3550/8015M

Sampled: August 9, 1995

Matrix: OIL

Extracted: August 9, 1995

Run: 7966-D

Analyzed: August 9, 1995

Spl #	Sample ID	Kerosene (mg/Kg)	Diesel (mg/Kg)	Motor Oil (mg/Kg)
98532	PRODUCT	N.D.	210000	490000
For above sample: REPORTING LIMITS RAISED 5000X DUE TO DILUTION.				

Reporting Limits

5000

5000

50000

Blank Result

N.D.

N.D.

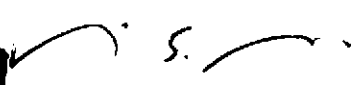
N.D.

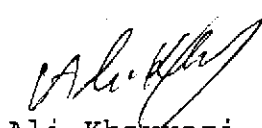
Blank Spike Result (%)

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Dennis Mayugba  
Chemist

  
Ali Khavrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

August 10, 1995

Submission #: 9508121

LEVINE-FRICKE - EMERYVILLE

Atten: Shellie Fletcher

Project: SHERWIN WILLIAMS

Project#: 3637.00

Received: August 9, 1995

re: One sample for Volatile Organic Compounds analysis.

Method: EPA 8240/8260

SampleID: PRODUCT

Sample #: 98532

Matrix: OIL

Sampled: August 9, 1995

Run: 7977-0

Analyzed: August 9, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(ug/Kg)	LIMIT	RESULT	RESULT
		(ug/Kg)	(ug/Kg)	(%)
ACETONE	N.D.	10000	N.D.	--
BENZENE	N.D.	5000	N.D.	101
BROMODICHLOROMETHANE	N.D.	5000	N.D.	--
BROMOFORM	N.D.	5000	N.D.	--
BROMOMETHANE	N.D.	5000	N.D.	--
2-BUTANONE	N.D.	5000	N.D.	--
CARBON TETRACHLORIDE	N.D.	5000	N.D.	--
CHLOROBENZENE	N.D.	5000	N.D.	102
CHLOROETHANE	N.D.	5000	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5000	N.D.	--
CHLOROFORM	N.D.	5000	N.D.	--
CHLOROMETHANE	N.D.	5000	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5000	N.D.	--
1,1-DICHLOROETHANE	N.D.	5000	N.D.	--
1,2-DICHLOROETHANE	N.D.	5000	N.D.	--
1,1-DICHLOROETHENE	N.D.	5000	N.D.	93
1,2-DICHLOROETHENE (CIS)	N.D.	5000	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5000	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5000	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5000	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5000	N.D.	--
ETHYL BENZENE	N.D.	5000	N.D.	--
2-HEXANONE	N.D.	5000	N.D.	--
METHYLENE CHLORIDE	N.D.	5000	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5000	N.D.	--
STYRENE	N.D.	5000	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5000	N.D.	--
TETRACHLOROETHENE	N.D.	5000	N.D.	--
TOLUENE	N.D.	5000	N.D.	93
1,1,1-TRICHLOROETHANE	N.D.	5000	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5000	N.D.	--
TRICHLOROETHENE	N.D.	5000	N.D.	99
TRICHLOROFLUOROMETHANE	N.D.	5000	N.D.	--
VINYL ACETATE	N.D.	5000	N.D.	--
VINYL CHLORIDE	N.D.	5000	N.D.	--
TOTAL XYLENES	N.D.	5000	N.D.	--

*Oleg Nemtsov*

Oleg Nemtsov  
Chemist

*Ali Kharrazi*

Ali Kharrazi  
Organic Manager

LEVINE-FRICKE

DATE SAMPLED: 08/11/95  
 DATE RECEIVED: 08/11/95  
 REPORT DATE: 09/05/95

SAMPLE ID: SOUTH-OE  
 AEN LAB NO: 9508161-03  
 AEN WORK ORDER: 9508161  
 CLIENT PROJ. ID: 3637.00

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
---------	-----------------	--------	--------------------	-------	------------------

#Extraction for TPH	EPA 3550	-	-	Extrn. Date	08/22/95
TPH as Diesel	GC-FID	280 *	5 mg/kg		08/24/95
TPH as Kerosene	GC-FID	150 *	5 mg/kg		08/24/95
TPH as Oil	GC-FID	940 *	30 mg/kg		08/24/95

Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit  
 \* = Value at or above reporting limit

LEVINE-FRICKLE

DATE SAMPLED: 08/11/95  
 DATE RECEIVED: 08/11/95  
 REPORT DATE: 09/05/95

SAMPLE ID: NORTH-OE  
 AEN LAB NO: 9508161-02  
 AEN WORK ORDER: 9508161  
 CLIENT PROJ. ID: 3637.00

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
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#Extraction for TPH	EPA 3550	-	-	Extrn. Date	08/22/95
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TPH as Diesel	GC-FID	170 *	5 mg/kg		08/24/95
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TPH as Kerosene	GC-FID	110 *	5 mg/kg		08/24/95
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TPH as Oil	GC-FID	910 *	30 mg/kg		08/24/95
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Reporting limits elevated due to high levels of target compounds. Sample run at dilution.

ND = Not detected at or above the reporting limit  
 \* = Value at or above reporting limit

# CHROMALAB, INC.

Environmental Services (SDB)

August 10, 1995

Submission #: 9508121

LEVINE-FRICKE - EMERYVILLE

Atten: Shellie Fletcher

Project: SHERWIN WILLIAMS

Project#: 3637.00

Received: August 9, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.

Method: EPA 3550/8270

SampleID: PRODUCT

Sample #: 98532

Matrix: OIL

Extracted: August 9, 1995

Sampled: August 9, 1995

Run: 7968-A

Analyzed: August 9, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	600	N.D.	--
BIS (2-CHLOROETHYL) ETHER	N.D.	600	N.D.	--
2-CHLOROPHENOL	N.D.	600	N.D.	--
1,3-DICHLOROBENZENE	N.D.	600	N.D.	--
1,4-DICHLOROBENZENE	N.D.	600	N.D.	--
BENZYL ALCOHOL	N.D.	600	N.D.	--
1,2-DICHLOROBENZENE	N.D.	600	N.D.	--
3-METHYLPHENOL	N.D.	600	N.D.	--
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	600	N.D.	--
4-METHYLPHENOL	N.D.	600	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	600	N.D.	--
HEXACHLOROETHANE	N.D.	600	N.D.	--
NITROBENZENE	N.D.	600	N.D.	--
ISOPHORONE	N.D.	600	N.D.	--
2-NITROPHENOL	N.D.	600	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	600	N.D.	--
BIS (2-CHLOROETHOXY) METHANE	N.D.	600	N.D.	--
2,4-DICHLOROPHENOL	N.D.	600	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	600	N.D.	--
NAPHTHALENE	N.D.	600	N.D.	--
4-CHLOROANILINE	N.D.	600	N.D.	--
HEXACHLOROBUTADIENE	N.D.	600	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	1200	N.D.	--
2-METHYLNAPHTHALENE	N.D.	600	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	600	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	600	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	600	N.D.	--
2-CHLORONAPHTHALENE	N.D.	600	N.D.	--
2-NITROANILINE	N.D.	600	N.D.	--
DIMETHYL PHTHALATE	N.D.	600	N.D.	--
ACENAPHTHYLENE	N.D.	600	N.D.	--
3-NITROANILINE	N.D.	600	N.D.	--
ACENAPHTHENE	N.D.	600	N.D.	--
2,4-DINITROPHENOL	N.D.	3000	N.D.	--
4-NITROPHENOL	N.D.	600	N.D.	--
DIBENZOFURAN	N.D.	600	N.D.	--
2,4-DINITROTOLUENE	N.D.	600	N.D.	--
2,6-DINITROTOLUENE	N.D.	600	N.D.	--
DIMETHYL PHTHALATE	N.D.	600	N.D.	--

# CHROMALAB, INC.

Environmental Services (SDB)

August 10, 1995

Submission #: 9508121  
page 2

LEVINE-FRICKE - EMERYVILLE

Atten: Shellie Fletcher  
Project: SHERWIN WILLIAMS  
Received: August 9, 1995

Project#: 3637.00

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis,  
continued.

Method: EPA 3550/8270

SampleID: PRODUCT

Sample #: 98532

Matrix: OIL

Extracted: August 9, 1995


Sampled: August 9, 1995


Run: 7968-A

Analyzed: August 9, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
4-CHLOROPHENYL PHENYL ETHER	N.D.	600	N.D.	--
FLUORENE	N.D.	600	N.D.	--
4-NITROANILINE	N.D.	600	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	3000	N.D.	--
N-NITROSO-DI-N-PHENYLAMINE	N.D.	600	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	600	N.D.	--
HEXACHLOROBENZENE	N.D.	600	N.D.	--
PENTACHLOROPHENOL	N.D.	3000	N.D.	--
PHENATHRENE	N.D.	600	N.D.	--
ANTHRACENE	N.D.	600	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	600	N.D.	--
FLUORANTHENE	N.D.	600	N.D.	--
PYRENE	N.D.	600	N.D.	--
BUTYL BENZYL PHTHALATE	N.D.	600	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	1200	N.D.	--
BENZO (A) ANTHRACENE	N.D.	600	N.D.	--
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	600	N.D.	--
CHRYSENE	N.D.	600	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	600	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	600	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	600	N.D.	--
BENZO (A) PYRENE	N.D.	600	N.D.	--
INDENO (1,2,3 C,D) PYRENE	N.D.	600	N.D.	--
DIBENZ (A,H) ANTHRACENE	N.D.	600	N.D.	--
BENZ (G,H,I) PERYLENE	N.D.	600	N.D.	--

For above sample: REPORTING LIMITS RAISED DUE TO MATRIX INTERFERENCE

  
Alex Tam  
Chemist

  
Ali Kharrazi  
Organic Manager

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

3290

Project No.: 3637 00  
 Field Logbook No.:  
 Date: 8/9/95  
 Project Name: Sherwin Williams  
 Project Location: EMERYVILLE

SUBM #: 9508121 REP: MC  
 CLIENT: L-F  
 DUE: 08/10/95  
 REF #: 23296

SAMPLES				ANALYSES							REMARKS		
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CON-TAINERS	SAMPLE TYPE	8270 EPA 801	8240 EPA 824	TPH g	TPH %	TPH P		MOTOR OIL	HOLD
Product	8/9/95			5	Prod	+					X	X	
<b>RUSH</b>													
run sample for 8270 8240 TPH g TPH P MOTOR OIL													
on 24 hr TURN													
Results to													
Shellie Fletcher													

RELINQUISHED BY: (Signature) <i>Shellie Fletcher</i>	DATE: 8/9/95	TIME: 10:20	RECEIVED BY: (Signature) <i>Suminder Sidhu</i>	DATE: 8/10/95	TIME: 10:20 AM
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		
Sample Collector: LEVINE-FRICKE 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500	Analytical Laboratory: <i>Chroma Lab</i>				

# CHROMALAB, INC.

Environmental Services (SDB)

August 3, 1995

Submission #: 9508031

LEVINE-FRICKE - EMERYVILLE

Atten:

Project: SHERWIN WILLIAMS  
Received: August 2, 1995

Project#: 3637.00

re: 5 samples for Motor oil analysis.  
Method: EPA 3550/8015M

Sampled: August 2, 1995


Matrix: SOIL

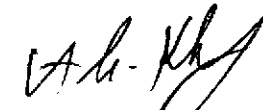
Extracted: August 3, 1995

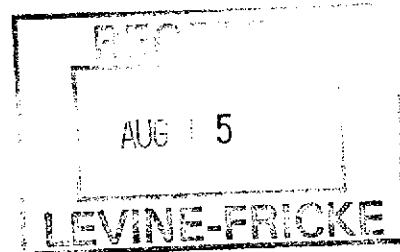
Run: 7896=D

Analyzed: August 3, 1995

Spl #	Sample ID	MOTOR OIL (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
97837	SOUTH For above sample:	1000	200	N.D.	82
		REPORTING LIMIT RAISED 20X DUE TO DILUTION.			
97838	NORTH For above sample:	810	200	N.D.	82
		REPORTING LIMIT RAISED 20X DUE TO DILUTION.			
97840	WEST For above sample:	1200	200	N.D.	82
		REPORTING LIMIT RAISED 20X DUE TO DILUTION.			
97841	STKP1-N For above sample:	1000	200	N.D.	82
		REPORTING LIMIT RAISED 20X DUE TO DILUTION.			
7842	STKP1-O For above sample:	870	200	N.D.	82
		REPORTING LIMIT RAISED 20X DUE TO DILUTION.			

  
Dennis Mayugba  
Chemist

  
Ali Khazrazi  
Organic Manager



Diesel is used for spike recoveries.

1220 Quarry Lane • Pleasanton, California 94566-4756

(510) 484-1919 • Facsimile (510) 484-1096

Federal ID #68-0140157



# CHROMALAB, INC.

Environmental Services (SDB)

August 3, 1995

Submission #: 9508031

LEVINE-FRICKE - EMERYVILLE

Atten:

Project: SHERWIN WILLIAMS

Project#: 3637.00

Received: August 2, 1995

re: 1 sample for Total Extractable Petroleum Hydrocarbons (TEPH) analysis.

Method: EPA 3550/8015M

Sampled: August 2, 1995

Matrix: SOIL

Extracted: August 3, 1995

Run: 7896-D

Analyzed: August 3, 1995

Spl #	Sample ID	Kerosene (mg/Kg)	Diesel (mg/Kg)	Motor Oil (mg/Kg)
97839	FLOOR	150	400	1400
For above sample: REPORTING LIMIT RAISED 20X DUE TO DILUTION.				

Reporting Limits

1.0

1.0

10

Blank Result

N.D.

N.D.

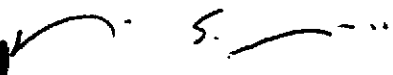
N.D.


Blank Spike Result (%)

--

82

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Dennis Mayugba  
Chemist

  
Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

August 3, 1995

Submission #: 9508031

LEVINE-FRICKE - EMERYVILLE

Atten:

Project: SHERWIN WILLIAMS  
Received: August 2, 1995

Project#: 3637.00

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.  
Method: EPA 3550/8270

SampleID: FLOOR

Sample #: 97839

Sampled: August 2, 1995

Matrix: SOIL

Run: 7885-A

Extracted: August 2, 1995

Analyzed: August 2, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROETHYL) ETHER	N.D.	10	N.D.	--
2-CHLOROPHENOL	N.D.	10	N.D.	72
1,3-DICHLOROBENZENE	N.D.	10	N.D.	--
1,4-DICHLOROBENZENE	N.D.	10	N.D.	--
BENZYL ALCOHOL	N.D.	10	N.D.	--
1,2-DICHLOROBENZENE	N.D.	10	N.D.	--
2-METHYLPHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	10	N.D.	--
4-METHYLPHENOL	N.D.	10	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	10	N.D.	73
HEXACHLOROETHANE	N.D.	10	N.D.	--
NITROBENZENE	N.D.	10	N.D.	--
ISOPHORONE	N.D.	10	N.D.	--
2-NITROPHENOL	N.D.	10	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	10	N.D.	--
BIS(2-CHLOROETHOXY) METHANE	N.D.	10	N.D.	--
2,4-DICHLOROPHENOL	N.D.	10	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	10	N.D.	57
NAPHTHALENE	N.D.	10	N.D.	--
4-CHLOROANILINE	N.D.	10	N.D.	--
HEXACHLOROBUTADIENE	N.D.	10	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	20	N.D.	60
2-METHYLNAPHTHALENE	N.D.	10	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	10	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	10	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	10	N.D.	--
2-CHLORONAPHTHALENE	N.D.	10	N.D.	--
2-NITROANILINE	N.D.	10	N.D.	--
DIMETHYL PHTHALATE	N.D.	10	N.D.	--
ACENAPHTHYLENE	N.D.	10	N.D.	--
3-NITROANILINE	N.D.	10	N.D.	--
ACENAPHTHENE	N.D.	10	N.D.	68
2,4-DINITROPHENOL	N.D.	50	N.D.	--
4-NITROPHENOL	N.D.	10	N.D.	--
DIBENZOFURAN	N.D.	10	N.D.	--
2,4-DINITROTOLUENE	N.D.	10	N.D.	--
2,6-DINITROTOLUENE	N.D.	10	N.D.	--
DIETHYL PHTHALATE	N.D.	10	N.D.	--

# CHROMALAB, INC.

Environmental Services (SDB)

August 3, 1995

Submission #: 9508031

page 2

LEVINE-FRICKE - EMERYVILLE

Atten:

Project: SHERWIN WILLIAMS

Project#: 3637.00

Received: August 2, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis, continued.

Method: EPA 3550/8270

SampleID: FLOOR

Sample #: 97839

Matrix: SOIL

Extracted: August 2, 1995

Sampled: August 2, 1995

Run: 7885-A

Analyzed: August 2, 1995

Analyte	RESULT	-REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
		(mg/Kg)	(mg/Kg)	(%)
4-CHLOROPHENYL PHENYL ETHER	N.D.	10	N.D.	--
FLUORENE	N.D.	10	N.D.	--
4-NITROANILINE	N.D.	10	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	50	N.D.	--
N-NITROSO-DI-N-PHENYLAMINE	N.D.	10	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	10	N.D.	--
HEXACHLOROBENZENE	N.D.	10	N.D.	--
PENTACHLOROPHENOL	N.D.	50	N.D.	48
PHENATHRENE	N.D.	10	N.D.	--
ANTHRACENE	N.D.	10	N.D.	--
1-N-BUTYL PHTHALATE	N.D.	10	N.D.	--
FLUORANTHENE	N.D.	10	N.D.	--
PYRENE	N.D.	10	N.D.	73
BUTYL BENZYL PHTHALATE	N.D.	10	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	20	N.D.	--
BENZO (A) ANTHRACENE	N.D.	10	N.D.	--
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	10	N.D.	--
CHRYSENE	N.D.	10	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	10	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	10	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	10	N.D.	--
BENZO (A) PYRENE	N.D.	10	N.D.	--
INDENO (1,2,3 C,D) PYRENE	N.D.	10	N.D.	--
DIBENZ (A,H) ANTHRACENE	N.D.	10	N.D.	--
BENZ (G,H,I) PERYLENE	N.D.	10	N.D.	--

For above sample: REPORTING LIMITS RAISED BY 200X DUE TO MATRIX INTERFERENCE

Alex Tam  
Chemist

Ali Kharfazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

August 3, 1995

Submission #: 9508031

LEVINE-FRICKE - EMERYVILLE

Atten:

Project: SHERWIN WILLIAMS  
Received: August 2, 1995

Project#: 3637.00

re: One sample for CAM 17 Metals analysis.  
Method: EPA 3050A M/6010/7471

SampleID: FLOOR

Sample #: 97839

Sampled: August 2, 1995


Matrix: SOIL

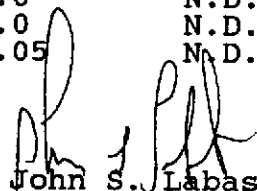
Run: 7887-D

Extracted: August 3, 1995

Analyzed: August 3, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
ANTIMONY	N.D.	2.0	N.D.	106
ARSENIC	8.7	1.0	N.D.	101
BARIUM	58	1.0	N.D.	102
BERYLLIUM	N.D.	0.5	N.D.	102
CADMIUM	N.D.	0.5	N.D.	102
CHROMIUM	16	1.0	N.D.	102
COBALT	4.7	1.0	N.D.	104
COPPER	11	1.0	N.D.	102
LEAD	5.1	1.0	N.D.	103
OLYBDENUM	N.D.	1.0	N.D.	102
NICKEL	28	1.0	N.D.	102
SELENIUM	N.D.	2.0	N.D.	103
SILVER	N.D.	1.0	N.D.	100
THALLIUM	N.D.	2.0	N.D.	112
VANADIUM	18	1.0	N.D.	104
ZINC	31	1.0	N.D.	100
MERCURY	N.D.	0.05	N.D.	103

  
Doina Danet  
Chemist

  
John S. Labash  
Inorganic Supervisor

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

2315

Project No.: 3637.00	Field Logbook No.:	Date: 8/2/95	Serial No.:
Project Name: Sherwin Williams	Project Location: Emeryville		No: 013834

SAMPLES						ANALYSES								REMARKS
SAMPLE NO.	DATE	TIME	LAB SAMPLE NO.	NO. OF CONTAINERS	SAMPLE TYPE	EPA 601	EPA 624	MOTOR OIL	8270	CLR 17	MPX 15	TPHE	HOLD	
South	8/2/95			1	Soil			X	*				X	
NORTH	↓			↓	↓			X	X	X			X	
FLOOR													X	
WEST													X	
STK p1-N													X	
STK p1-O	↓			↓	↓			X					X	

Samplers: STP / JIA

TPHE = extractable hydrocarbons

**BUSH**

SUBM #: 9508031 REP: 1  
 CLIENT: L-F  
 DUE: 08/03/95  
 REF #: 23195

RELINQUISHED BY: (Signature) <i>Shelley Fletcher</i>	DATE: 8/2/95	TIME: 4:10	RECEIVED BY: (Signature) <i>[Signature]</i>	DATE: 8-2-95	TIME: 1:10
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
METHOD OF SHIPMENT:	DATE	TIME	LAB COMMENTS:		

Sample Collector: LEVINE-FRICKE 1900 Powell Street, 12th Floor Emeryville, California 94608 (510) 652-4500	Analytical Laboratory: <i>Chromalab</i>
---	--

# CHROMALAB, INC.

Environmental Services (SDB)

July 14, 1995

LEVINE-FRICKE - EMERYVILLE

Atten: ROGER LEVENTHAL

Project: SHERWIN WILLIAMS  
Received: July 13, 1995

Project#: 3637.00-001

Submission #: 9507115  
Revised from July 14, 1995  
Coc # 32

re: One sample for RCRA (8) Metals analysis.  
Method: EPA 3050A M/6010/7471

Client Sample ID: (NORTH TANK) 1

Sample #: 95628

Matrix: OIL --


Extracted: July 14, 1995

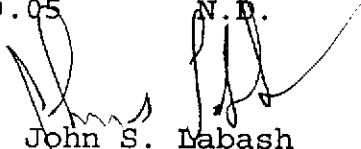
Sampled: July 13, 1995

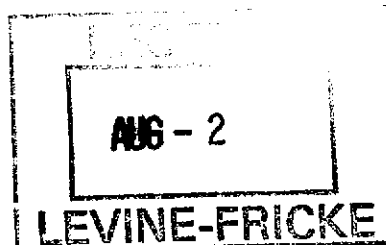
Run: 7623-D

Analyzed: July 14, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
ARSENIC	N.D.	1.0	N.D.	115
BARIUM	N.D.	1.0	N.D.	106
CADMIUM	N.D.	0.5	N.D.	114
CHROMIUM	N.D.	1.0	N.D.	108
LEAD	3.9	1.0	N.D.	112
SELENIUM	N.D.	2.0	N.D.	110
SILVER	N.D.	1.0	N.D.	109
MERCURY	N.D.	0.05	N.D.	93

  
Doina Danet  
Chemist

  
John S. Labash  
Inorganic Supervisor



# CHROMALAB, INC.

Environmental Services (SDB)

July 14, 1995

Submission #: 9507115  
Revised from July 14, 1995

LEVINE-FRICKE - EMERYVILLE

Atten: ROGER LEVENTHAL

Project: SHERWIN WILLIAMS  
Received: July 13, 1995

Project#: 3637.00-001

re: One sample for RCRA (8) Metals analysis.  
Method: EPA 3010A M/6010/7470

Client Sample ID: (SOUTH TANK) 2

Sample #: 95631

Matrix: WATER


Extracted: July 14, 1995


Sampled: July 13, 1995

Run: 7628-D

Analyzed: July 14, 1995

Analyte	RESULT (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE RESULT (%)
ARSENIC	N.D.	0.01	N.D.	103
BARIUM	1.4	0.01	N.D.	97
CADMIUM	N.D.	0.005	N.D.	97
CHROMIUM	0.11	0.01	N.D.	96
LEAD	1.1	0.01	N.D.	100
SELENIUM	N.D.	0.01	N.D.	97
SILVER	N.D.	0.01	0.0480	87
MERCURY	0.001	0.001	N.D.	88

  
Doina Danet  
Chemist

  
John S. Labash  
Inorganic Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

July 14, 1995

Submission #: 9507115

LEVINE-FRICKE - EMERYVILLE

Atten: ROGER LEVENTHAL

Project: SHERWIN WILLIAMS  
Received: July 13, 1995

Project#: 3637.00-001

re: 1 sample for Total Extractable Petroleum Hydrocarbons (TEPH) analysis.

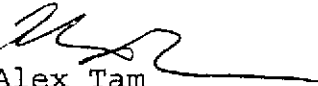
Method: EPA 3510/8015M  
Sampled: July 13, 1995


Matrix: WATER      Extracted: July 13, 1995  
Run: 7630-A      Analyzed: July 13, 1995

<u>Spl #</u>	<u>Client</u>	<u>Sample ID</u>	<u>Kerosene</u> <u>(ug/L)</u>	<u>Diesel</u> <u>(ug/L)</u>	<u>Motor Oil</u> <u>(ug/L)</u>
95631	(SOUTH TANK)	2	N.D.	N.D.	370000

Reporting Limits  
Blank Result  
Blank Spike Result (%)

5000	5000	50000
N.D.	N.D.	N.D.
--	71	--

  
Alex Tam  
Chemist

  
Ali Kharrazi  
Organic Manager



# CHROMALAB, INC.

Environmental Services (SDB)

July 14, 1995

Submission #: 9507115

LEVINE-FRICKE - EMERYVILLE

Atten: ROGER LEVENTHAL

Project: SHERWIN WILLIAMS

Project#: 3637.00-001

Received: July 13, 1995

re: 1 sample for Total Extractable Petroleum Hydrocarbons (TEPH) analysis.

Method: EPA 3550/8015M

Sampled: July 13, 1995

Matrix: OIL

Extracted: July 13, 1995


Run: 7631-A

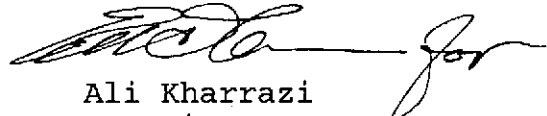
Analyzed: July 13, 1995

Spl #	Client Sample ID	Kerosene (mg/Kg)	Diesel (mg/Kg)	Motor Oil (mg/Kg)
95628	(NORTH TANK) 1	N.D.	N.D.	N.D.
For above sample:		Unknown hydrocarbons in the Motor Oil range, conc.= 3400mg/Kg.		

Reporting Limits  
Blank Result  
Blank Spike Result (%)

600	600	6000
N.D.	N.D.	N.D.
--	--	--

  
Alex Tam  
Chemist

  
Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

July 14, 1995

Submission #: 9507115

LEVINE-FRICKE - EMERYVILLE

Atten: ROGER LEVENTHAL

Project: SHERWIN WILLIAMS  
Received: July 13, 1995

Project#: 3637.00-001

re: One sample for Polychlorinated Biphenyls (PCBs) analysis.  
Method: MOD. EPA 3510/608

Client Sample ID: (SOUTH TANK) 2

Sample #: 95631

Matrix: WATER

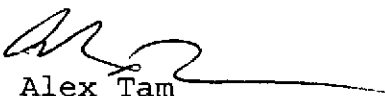
Extracted: July 13, 1995

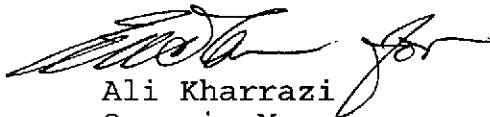
Sampled: July 13, 1995

Run: 7639-A

Analyzed: July 13, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(ug/L)	LIMIT	RESULT	RESULT
	(ug/L)	(ug/L)	(ug/L)	(%)
AROCLOR 1016	N.D.	5	N.D.	--
AROCLOR 1221	N.D.	5	N.D.	--
AROCLOR 1232	N.D.	5	N.D.	--
AROCLOR 1242	N.D.	5	N.D.	--
AROCLOR 1248	N.D.	5	N.D.	--
AROCLOR 1254	N.D.	5	N.D.	--
AROCLOR 1260	N.D.	5	N.D.	94

  
Alex Tam  
Chemist

  
Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

July 14, 1995

Submission #: 9507115

LEVINE-FRICKE - EMERYVILLE

Atten: ROGER LEVENTHAL

Project: SHERWIN WILLIAMS

Project#: 3637.00-001

Received: July 13, 1995

re: One sample for Polychlorinated Biphenyls (PCBs) analysis.  
Method: EPA 3550/8080M

Client Sample ID: (NORTH TANK) 1

Sample #: 95628

Matrix: OIL

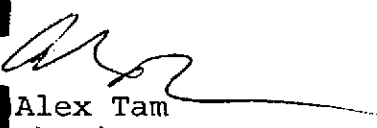
Extracted: July 13, 1995

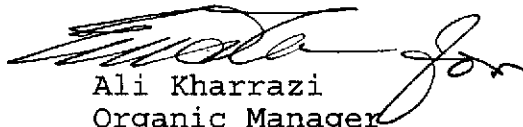
Sampled: July 13, 1995

Run: 7638-A

Analyzed: July 13, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(mg/Kg)	LIMIT	RESULT	RESULT
		(mg/Kg)	(mg/Kg)	(%)
AROCLOR 1016	N.D.	0.5	N.D.	--
AROCLOR 1221	N.D.	0.5	N.D.	--
AROCLOR 1232	N.D.	0.5	N.D.	--
AROCLOR 1242	N.D.	0.5	N.D.	--
AROCLOR 1248	N.D.	0.5	N.D.	--
AROCLOR 1254	N.D.	0.5	N.D.	--
AROCLOR 1260	N.D.	0.5	N.D.	--

  
Alex Tam  
Chemist

  
Ali Kharrazi  
Organic Manager

# CHROMALAB, INC.

Environmental Services (SDB)

July 14, 1995

Submission #: 9507115

LEVINE-FRICKE - EMERYVILLE

Atten: ROGER LEVENTHAL

Project: SHERWIN WILLIAMS

Project#: 3637.00-001

Received: July 13, 1995

re: One sample for Volatile Organic Compounds analysis.

Method: EPA 8240/8260

Client Sample ID: (NORTH TANK) 1

Sample #: 95628

Matrix: OIL

Sampled: July 13, 1995

Run: 7636-A

Analyzed: July 14, 1995

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(ug/Kg)	LIMIT	RESULT	RESULT
		(ug/Kg)	(ug/Kg)	(%)
ACETONE	N.D.	240	N.D.	--
BENZENE	220	120	N.D.	107
BROMODICHLOROMETHANE	N.D.	120	N.D.	--
BROMOFORM	N.D.	120	N.D.	--
BROMOMETHANE	N.D.	120	N.D.	--
2-BUTANONE	N.D.	120	N.D.	--
CARBON TETRACHLORIDE	N.D.	120	N.D.	--
CHLOROBENZENE	N.D.	120	N.D.	99
CHLOROETHANE	N.D.	120	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	120	N.D.	--
CHLOROFORM	N.D.	120	N.D.	--
CHLOROMETHANE	N.D.	120	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	120	N.D.	--
1,1-DICHLOROETHANE	N.D.	120	N.D.	--
1,2-DICHLOROETHANE	N.D.	120	N.D.	--
1,1-DICHLOROETHENE	N.D.	120	N.D.	88
1,2-DICHLOROETHENE (CIS)	N.D.	120	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	120	N.D.	--
1,2-DICHLOROPROPANE	N.D.	120	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	120	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	120	N.D.	--
ETHYL BENZENE	N.D.	120	N.D.	--
2-HEXANONE	N.D.	120	N.D.	--
METHYLENE CHLORIDE	N.D.	120	N.D.	--
4-METHYL-2-PENTANONE	N.D.	120	N.D.	--
STYRENE	N.D.	120	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	120	N.D.	--
TETRACHLOROETHENE	N.D.	120	N.D.	--
TOLUENE	260	120	N.D.	93
1,1,1-TRICHLOROETHANE	N.D.	120	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	120	N.D.	--
TRICHLOROETHENE	N.D.	120	N.D.	92
TRICHLOROFLUOROMETHANE	N.D.	120	N.D.	--
VINYL ACETATE	N.D.	120	N.D.	--
VINYL CHLORIDE	N.D.	120	N.D.	--
TOTAL XYLENES	1700	120	N.D.	--

  
Aaron McMichael  
Chemist

  
Ali Kharrazi  
Organic Manager

**APPENDIX B**

**SOIL DISPOSAL DOCUMENTATION**

9838 Old Placerville Road, Suite 100  
Sacramento, California 95827-3559  
(916) 369-8971  
Facsimile (916) 369-8370

To: Levin-Fricke  
1/0 Barbara Baer  
1900 Powell St. 12th Floor  
Emergyville, Ca. 94608

Date: 10-20-95 IC Project No. 05100680

IC Project Name: Emergyville UST

Re: Soil Disposal  
Sherwin-Williams Site

We are sending you:  Attached  Under Separate Cover

By:  Mail  Overnight  Courier  Facsimile

Copies	Date	Description
1		Copies of disposal data weight tickets

Remarks: Please call if questions.

Copies to: Rondy Smith  
SPT Co.

Industrial Compliance  
Carl Taylor  
By: Carl Taylor

WEIGHMASTER CERTIFICATE  
THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

ALTAMONT LANDFILL & RRF  
10840 ALTAMONT PASS RD.  
LIVERMORE, CA.  
INDUSTRIAL COMPLIANCE  
1357 5TH ST  
AKLAND, CA  
Source: EMERYVILLE

/70137

Truck No. 127 Rt. :

DATE: SEP 25, 1995 11:52:35  
Price/Unit:  
Commodity: CLASS II COVER - SOIL  
: \$0.00  
Total Charge:  
Tendered: \$0.00  
Change: \$0.00

68640 Gross Weight Lbs.  
32100 (M) Tare Weight Lbs.  
36540 Net Weight Lbs.

BROWN, KEN JR. 20316

DEPUTY WEIGHMASTER

DRIVER:

WEIGHMASTER CERTIFICATE  
THIS IS TO CERTIFY that the following described commodity was weighed, measured or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

ALTAMONT LANDFILL & RRF  
10840 ALTAMONT PASS RD.  
LIVERMORE, CA.  
INDUSTRIAL COMPLIANCE  
1357 5TH ST  
AKLAND, CA  
Source: EMERYVILLE

/70137

Truck No. 84 Rt. :

DATE: SEP 25, 1995 10:28:40  
Price/Unit:  
Commodity: CLASS II COVER - SOIL 368842  
: \$0.00  
Total Charge:  
Tendered: \$0.00  
Change: \$0.00

69940 Gross Weight Lbs.  
31000 (M) Tare Weight Lbs.  
38940 Net Weight Lbs.

HALL, LUOLA

DEPUTY WEIGHMASTER

20264

DRIVER:



9-20-75

P.O. 20928  
PROJECT # 0510680  
MOORE & SON  
TRUCKING  
END DUMP  
CA 13788

# ALTAMONT LANDFILL WASTE ACCEPTANCE FORM

CUSTOMER NAME: Industrial Compliance

CUSTOMER # - 70137

MATERIAL DESCRIPTION: Class II Cover - Soil

PROFILE #- 368842

WASTE SOURCE (County / City location) - Emeryville

- The information listed above is necessary for acceptance of special waste at the Altamont Landfill.
- A copy of this form must be presented with each load to the Altamont scale house collector.
- This form is for Altamont waste tracking use and is not intended to serve as a customer shipping document.
- Drivers will receive a weight ticket for confirmation of disposal.
- An alternative shipping record may be used in lieu of this form if it includes the above information.
- If shipping form is a multiple part form, please notify landfill of which copies to return with the driver, if not otherwise noted on the form.

**FOR ALTAMONT COLLECTOR USE ONLY:**

FILL IN TAG# ASSOCIATED WITH LOAD (USE OUTBOUND# FOR UNFARED LOADS)

SCALE HOUSE TAG # - \_\_\_\_\_

DATE \_\_\_\_\_

TRUCK # \_\_\_\_\_





7-25-78

2101  
P.O. 20928  
PROJECT # 5700680  
ROYDATT  
TRACKING  
CAL 7 149073

# ALTAMONT LANDFILL WASTE ACCEPTANCE FORM

CUSTOMER NAME: Industrial Compliance

CUSTOMER # - 70137

MATERIAL DESCRIPTION: Class II Cover - Soil

PROFILE # - 368842

WASTE SOURCE (County / City location) - Emeryville

- The information listed above is necessary for acceptance of special waste at the Altamont Landfill.
- A copy of this form must be presented with each load to the Altamont scale house collector.
- This form is for Altamont waste tracking use and is not intended to serve as a customer shipping document.
- Drivers will receive a weight ticket for confirmation of disposal.
- An alternative shipping record may be used in lieu of this form if it includes the above information.
- If shipping form is a multiple part form, please notify landfill of which copies to return with the driver, if not otherwise noted on the form.

-----  
**FOR ALTAMONT COLLECTOR USE ONLY:**

FILL IN TAG# ASSOCIATED WITH LOAD (USE OUTBOUND# FOR UNFARED LOADS)

SCALE HOUSE TAG # - \_\_\_\_\_

DATE \_\_\_\_\_

TRUCK # \_\_\_\_\_