



ISO 9001 Registered Company

ENVIRONMENTAL  
PROTECTION

98 NOV 18 PM 4:35

Mr. Scott Seery  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502

November 17, 1998

Dear Sir,

Enclosed you will find the report on our Underground Storage Tank Upgrade and Piping Removal.

In addition to the contractor's detailed report, this document contains drawings, inspection reports, equipment specifications, logs and analytical reports, including a copy of the independent analysis requested by National Airmotive Corporation.

This report is comprehensive and satisfies all the requirements necessary to meet state and federal regulations, which takes effect December 22, 1998, for upgrading one (1) ten thousand (10,000) gallon and two (2) eight thousand (8,000) gallon fuel tanks and associated piping. In the process of doing this upgrade soil contaminants were found. A follow up meet has been scheduled for Tuesday, November 24, 1998 at 2 PM hosted by National Airmotive Corporation in our offices. The purpose of this meeting is to determine and discuss what further post-upgrade actions may be needed. If you are unable to attend or if you have questions, please contact the undersigned at (510) 613-1017.

Sincerely,

A handwritten signature in dark ink, appearing to read "Woody Ano", is written over a light-colored background.

Woody Ano  
Manager, Facilities and Environmental

102606



PORT OF OAKLAND ENVIRONMENTAL DIVISION

NOV 18 1998 RECEIVE ENVIRONMENTAL DIVISION

November 13, 1998

Mr. Woody Ano
Facility Manager
National Airmotive Corporation
7200 Earhart Road
Oakland, CA 94621

Alameda County
OCT 24 2005
Environmental Health

Re: Report on Underground Storage Tank Upgrade and Piping Removal/Closure Activities
National Airmotive Corporation Engine Test Facility, Oakland, California

Dear Mr. Ano:

This report presents the results of underground storage tank (UST) upgrade and piping removal/closure activities performed by Foss Environmental Services (FES) at the National Airmotive Corporation (NAC) Engine Test Facility (the site) located at 6711 Lockheed Road in Oakland, California.

(Special note regarding the use of an incorrect site address: Based on site information provided to FES by NAC prior to the start of this project, FES understood that the street address of the work site, the Engine Test Facility, was 7200 Earhart Road.

The information in this report is presented in the following sections:

- Executive Summary
Background Information
Scope of Work
Regulatory Agency Permits
Site Activities
Waste Disposal
Laboratory Analytical Results
Closure

UL
NatAir
UST
11/13/98
10988

1605 Ferry Point Alameda, CA 94501

Phone 510.749.1390 24-HR Hotline 1 800 FE SPILL Fax 510.749.1391



*Always Ready*

November 13, 1998

Mr. Woody Ano  
Facility Manager  
National Airmotive Corporation  
7200 Earhart Road  
Oakland, CA 94621

**Re: Report on Underground Storage Tank Upgrade and Piping Removal/Closure Activities  
National Airmotive Corporation Engine Test Facility, Oakland, California**

Dear Mr. Ano:

This report presents the results of underground storage tank (UST) upgrade and piping removal/closure activities performed by Foss Environmental Services (FES) at the National Airmotive Corporation (NAC) Engine Test Facility (the site) located at 6711 Lockheed Road in Oakland, California. FES performed the work under a contract with NAC. The work was conducted in accordance with the scope of work and project assumptions described in the proposal by FES titled *Proposal for Underground Storage Tank Upgrade Services, National Airmotive Corporation Test Cell Facility, Oakland, California*, dated August 14, 1998.

**(Special note regarding the use of an incorrect site address:** Based on site information provided to FES by NAC prior to the start of this project, FES understood that the street address of the work site, the Engine Test Facility, was 7200 Earhart Road. FES used this address for the Engine Test Facility throughout this project on correspondence, permit applications, and other documents. Such use was incorrect; 7200 Earhart Road is actually the address of the neighboring NAC office facility. The correct address of the Engine Test Facility is 6711 Lockheed Road. NAC provided the correct address to FES on November 11, 1998.)

The information in this report is presented in the following sections:

- Executive Summary
- Background Information
- Scope of Work
- Regulatory Agency Permits
- Site Activities
- Waste Disposal
- Laboratory Analytical Results
- Closure

1605 Ferry Point ■ Alameda, CA 94501

Phone 510.749.1390 ■ 24-HR Hotline 1 800 FE SPILL ■ Fax 510.749.1391

Attached to this report are the following items:

- A site plan showing the location of facilities and field activities (Figure 1)
- A site plan illustrating sample collection locations (Figure 2)
- A diagram illustrating the construction of the free product recovery well (Figure 3)
- A copy of the tank upgrade construction plan as submitted to and approved by the City of Oakland Building Department and the City of Oakland Fire Prevention Bureau
- Copies of permits that were acquired for this project and permit-related agency inspection documents
- A list of the tank upgrade equipment installed by FES
- Copies of manufacturer's cut sheets for the installed equipment
- A copy of the Free Product Recovery log form
- Copies of laboratory analytical results
- Copies of waste disposal documentation

### Executive Summary

As a contractor hired by NAC, FES performed services at the site relating to upgrade of portions of the existing Jet A fueling system. The scope of work included acquiring agency permits required to perform the proposed work, providing and installing new equipment for the fuel system at the site, removing one section of underground fuel piping, and closing another section of underground fuel piping in place. The equipment to be installed (detailed in subsequent sections of this report and in attached documents) was intended to assist NAC in complying with the UST regulations regarding tank upgrades that are scheduled to take effect on December 22, 1998.

Prior to commencing work at the site, FES acquired the necessary permits from the City of Oakland Fire Prevention Bureau and the City of Oakland Building Department. On September 28, 1998, FES commenced performing work at the site.

As of November 10, 1998, FES had completed all the tasks included in the scope of work. All of the new equipment included in this scope of work had been installed in accordance with manufacturer's recommendations and agency requirements and was fully operational, and NAC personnel had been trained in operating and maintaining the equipment. One section of underground piping had been removed and another section of underground piping had been closed in place. All agency site inspections required by the tank upgrade permits had been performed and the relevant agencies had concurred that the work had been performed in accordance with the permit requirements and applicable regulations.

According to Chief Inspector Leroy Griffin of the City of Oakland Fire Prevention Bureau (the agency responsible for regulating underground storage tanks at the site) following his final inspection of the site on November 10, 1998, the fueling system as of that date was in full compliance with the upcoming December 22 requirements; no additional upgrade equipment or modifications would be required. Chief Inspector Griffin stated that he would issue tank compliance certifications (including the certification stickers to be mounted near the tanks to indicate the tanks were in compliance with the December 22, 1998, requirements and could legally be filled) following his receipt, review, and approval of an updated SWRCB Form B for each tank.

During performance of excavation and pipe removal activities within this scope of work, soil contaminated with petroleum hydrocarbons was encountered in several locations. In addition, floating product that appeared to be a petroleum product was observed on the surface of groundwater that was encountered in one excavated trench. Samples of soil and the floating product were collected in accordance with agency regulations and submitted to a California-certified laboratory for analysis for petroleum hydrocarbons. Copies of the laboratory analytical results are attached to this report.

Approximately 30 tons of soil contaminated with petroleum hydrocarbons was generated by the excavation activities performed at the site. A composite sample of the stockpiled soil was collected and submitted to a California-certified laboratory for analysis. Copies of the laboratory analytical results are attached to this report. The soil was transported off the site and disposed of at the Altamont Landfill and Resource Recovery Facility operated by Waste Management in Livermore, California, for use as Class II cover soil.

### **Background Information**

Three USTs at the site are used to store Jet A fuel for use in maintenance, repair, and testing of jet engines at the site. One UST (hereinafter referred to as UST #1) has a capacity of 10,000 gallons and is located beneath a concrete pad in an asphalt-paved area between Test Cell Two and Test Cell Three (Figure 1). Fuel from UST #1 is delivered through underground and aboveground piping to the engine test cells. The existing fuel piping was constructed of two-inch-diameter single-wall steel.

The other two USTs (hereinafter referred to as USTs #2 and #3) have a capacity of 8,000 gallons each and are located west of Test Cell Five. Fuel from USTs #2 and #3 is delivered through aboveground steel piping to the engine test cells.

### **Scope of Work**

The activities performed by FES at the site included the following items:

- Acquisition of regulatory agency permits required for the proposed activities
- Coordination of agency inspections required for permit compliance
- Installation of a containment sump for the turbine and product piping (UST #1)
- Removal of two runs of existing single-wall steel underground product piping (from UST #1: in Trench #1 directly west of UST #1 and Trench #3 directly west of Test Cell One) and replacement with double-wall piping
- Removal of existing single-wall steel underground vent piping (from UST #1: in Trench #1 directly west of UST #1) and replacement with single-wall fiberglass vent piping
- Installation of new in-tank monitoring probes in USTs #1, #2, and #3
- Installation of a new Veeder Root TLS-350 tank monitoring system
- Installation of new electrical conduit for the monitoring probe data wires
- Removal of one run of single-wall steel underground product piping (in Trench #2 approximately 75 feet northwest of UST #1)
- Closure in place of one run of single-wall steel underground product piping beneath Cell Three
- Installation of a free product recovery well and a passive oil collection device in the well
- Collection and laboratory analysis of soil and groundwater samples
- Offsite disposal of soil contaminated with petroleum hydrocarbons

The locations of the above activities are illustrated on the attached site plan (Figure 1). For additional details regarding the installed equipment, refer to the attached Equipment List and copies of the manufacturer's cut sheets for the installed equipment. In addition, a copy of the construction plan (as submitted to and approved by the City of Oakland Building Department and the City of Oakland Fire Prevention Bureau) is attached to this report. The construction plan includes details regarding equipment installation and construction methods and materials.

### Regulatory Agency Permits

The UST upgrade and piping removal/closure activities were performed in accordance with the City of Oakland Fire Services Agency Fire Prevention Bureau (OFPB), the City of Oakland Building Department (OBD), the City of Oakland Planning Department (OPD), the Alameda County Environmental Health Department (ACEHD), the Bay Area Air Quality Management District (BAAQMD), the California State Water Resources Control Board (SWRCB), the San Francisco Bay Regional Water Quality Control Board (RWQCB), and relevant construction codes. NO!

Acting as an agent of NAC, FES applied for and acquired the necessary permits from OFPB and OBD. FES prepared an Application for Permit to Install, Remove, or Repair Tanks and submitted the forms to OFPB on September 14, 1998. Tank Permit No. 150-78 was approved by OFPB on September 22, 1998. FES prepared required construction plans and submitted Building Permit Application No. B9803571 to OBD and OPD on September 22, 1998. As part of the permit review process, the permit application package was reviewed and approved by the Port of Oakland Engineering Services Department. An approved OBD permit was issued on October 5, 1998. Copies of the above documents are attached to this report.

As required by the above agencies, FES coordinated inspections of the site work by agency representatives. Inspector Stephen Craford of OFPB performed a site inspection on October 14, 1998, to inspect the tank upgrade work and witness the pressure tests on the newly-installed primary and secondary underground piping and the start of the 24-hour hydrostatic test of the piping sumps. Mr. Greg Bailey of OBD performed a site inspection on October 23, 1998, to inspect the equipment installation and construction materials and methods. Chief Inspector Leroy Griffin of OFPB performed a final site inspection of the upgraded system on November 10, 1998. Additional details regarding the results of the agency inspections are presented in the section of this report titled *Equipment Testing and Agency Inspections*.

### Site Activities

**Site Preparation:** Site work commenced on September 28, 1998. An electromagnetic survey of the work area was conducted by California Utility Surveys of San Ramon, California, to attempt to locate and avoid damage to underground utilities. Underground utilities found in the work areas included several metal water and electrical conduit lines running across the planned area of excavation of Trench #1.

**Excavation of UST and Piping:** A portion of the concrete slab above UST #1 was sawcut and removed. Excavated concrete was temporarily stockpiled on the site pending disposal at an off-site recycling facility. Backfill material (pea gravel) on top of the UST was excavated and removed by hand to allow access to the UST. The excavated pea gravel was stockpiled on the Site pending reuse to backfill the tank excavation. No staining or hydrocarbon odors were observed in the excavated area.

The concrete surfaces above Trench #1, Trench #2, and Trench #3 were sawcut and removed. Excavated concrete was temporarily stockpiled on the site pending disposal at an off-site recycling facility. Backfill material on top of and adjacent to the underground piping (typically base rock) was excavated and removed to allow access to the piping. Excavated backfill material was temporarily stockpiled on the site pending laboratory analysis. The product supply and vent lines were drained, dismantled, and removed. Field observations and additional activities at each trench are described below:

- Trench #1: Soil staining and hydrocarbon odors were observed in soil beneath the removed product piping (Figure 2). The piping appeared to be in good condition. No corrosion, loose fittings, free oil, or other indications that the pipes had leaked were observed. As required for installation of the new piping and probe wire conduit, additional soil to a total depth of approximately 30 inches was

excavated and removed from the trench. Soil staining and hydrocarbon odors were observed in the excavated soil and the soil at the excavation limits. Four samples (T1-1, T1-2, T1-3, and T1-4) of native soil were collected from the trench sidewalls just above the air-water interface. Excavated soil was temporarily stored in hazardous waste bins at the site pending laboratory analysis and off site disposal.

- Following excavation, groundwater seeped into Trench #1 and covered the bottom of the western half of the trench (the trench followed the slight slope of the ground surface, downwards toward the west; the groundwater varied from a deepest of approximately three inches at the western end of the trench to zero inches approximately 35 feet east of the western end). A layer of dark oil approximately 0.25-inch thick was observed floating on top of the water. A sample (T1-oil) of the floating product layer was collected.
- Trench #2: Soil staining and hydrocarbon odors were observed in the soil beneath the removed product piping (Figure 2). Six samples (T2-1, T2-2, T2-3, T2-4, T2-5, and T2-6) of native soil were collected approximately six inches beneath the bottom of the former pipe.
- Trench #3: No soil staining or hydrocarbon odors were observed in the soil beneath the removed product piping. As required for installation of the new piping and probe wire conduit, additional soil to a total depth of approximately 30 inches was excavated and removed from the trench. No soil staining or hydrocarbon odors were observed in the excavated soil and the soil at the excavation limits. Therefore, no soil samples were collected.

**Closure in Place of Cell Three Piping:** A run of underground fuel piping approximately ten feet long was abandoned in place due the pipe's location beneath the Cell Three building. The piping was disconnected from the fuel system and cut off approximately six inches above the existing concrete surface at both ends of the underground run. Following collection of a sample of soil from beneath the piping (see the next section of this report), the piping was abandoned in place by filling it under pressure with a cement grout mixture.

**Collection of Soil Samples:** Soil samples were collected and analyzed at a state-certified laboratory in accordance with the guidelines in the RWQCB document titled *Tri-Regional Board Staff Recommendations For Preliminary Investigation and Evaluation of Underground Tank Sites*, dated August 10, 1990. In addition to the locations described above, the following soil samples were collected:

- A sample (South Pipe) of native soil was collected from beneath the Cell Three piping (which was abandoned in place). The sample was collected by drilling a six-inch-diameter coring through the concrete surface adjacent to the pipe outside the west wall of the Cell Three building, then using a hand auger held at an angle to collect a sample of soil from approximately six inches beneath the pipe.
- Four samples from the stockpile of excavated soil (sample SP-1). These four samples were composited in the laboratory and analyzed as one sample.

The sampling method is described below:

Samples of native materials were collected manually or with the aid of a clean shovel. Care was taken to assure that the material retrieved represented undisturbed native soil and to avoid possible cross-contamination with other materials. Each sample was collected by scraping away several inches of the soil surface and pushing a two-inch-diameter brass tube into the area to be sampled. Upon retrieval, the soil sample was immediately sealed with Teflon sheeting and polyurethane caps, and wrapped with tape. Each sample was labeled with the project number, sample location, sample depth, sampler's initials, and date of collection. The sample was then placed in a cooler with ice at approximately 4 degrees Celsius (°C) prior to and during transport to the analyzing laboratory. Chain of custody documentation was completed in the field and accompanied the samples to the laboratory.

**Installation of Upgrade Equipment:** FES installed the tank upgrade equipment described in the section of this report titled Scope of Work. For additional details regarding the upgrade equipment, refer to the attached Equipment List and copies of the manufacturer's cut sheets for the installed equipment. In addition, a copy of the construction plan (as submitted to and approved by the City of Oakland Building Department and the City of Oakland Fire Prevention Bureau) is attached to this report. The construction plan includes details regarding equipment installation and construction methods and materials.

**Installation of Free Product Recovery Well and Passive Recovery Device:** As directed by NAC, a free product recovery well (Recovery Well RW-1) was installed in Trench #1 prior to backfilling and resurfacing the trench. Well construction details are illustrated on the attached Figure 3. On November 11, 1998, a passive free product oil recovery device (a Homer EZ Skimmer Model 8001) was installed in the well. The passive recovery device contains a hydrophobic filter that allows oil to enter the collection chamber but prevents the entry of water. FES prepared a Free Product Recovery Log form on which to record the results of free product recovery activities and provided copies of the form to NAC. A copy of the Free Product Recovery Log form with the data from the date of installation of the passive recovery device (November 11, 1998) is attached to this report.

**Equipment Testing and Agency Inspections:** On October 14, 1998, Inspector Stephen Craford of OFPB performed a site inspection to verify that the proposed equipment had been installed in accordance with the construction plan and OFPB requirements and to witness pressure testing of the underground piping and the beginning of the 24-hour hydrostatic tests of the piping sumps. Following his inspection, Inspector Craford stated the equipment appeared to be installed as proposed and in accordance with OFPB requirements. A copy of the Inspection Report prepared that day by Inspector Craford is attached to this report.

On the same date (October 14, 1998), FES tested the installed runs of underground piping for tightness by charging the piping with compressed air and monitoring the air pressure in the piping for three hours. Primary piping was pressurized to 50 pounds per square inch (psi) of air pressure and secondary containment piping was pressurized to 5 psi of air pressure. Air pressure in each tested segment was continuously monitored using air pressure gauges that had ranges appropriate to the pressure ranges to be measured. The air pressure was maintained in each pipe for at least three hours. At the end of three hours, none of the pipes exhibited a drop in air pressure. The pressure tests were witnessed by Inspector Stephen Craford of OFPD.

On the same date (October 14, 1998), FES began the 24-hour hydrostatic test on the three piping sumps. The three sumps were filled with clean tap water to a level at least 6 inches above any piping or conduit penetrations. The water level was marked on the inside wall of the sumps using a permanent marker. Inspector Craford witnessed the filling of the sumps and stated that he was unavailable to return the next day to witness the conclusion of the hydrostatic tests. He asked that FES telephone him with the results of the hydrostatic tests. FES returned to the site the next day (October 15, 1998) and observed that none of the water levels in the sumps had dropped. FES telephoned Inspector Craford with the test results and was told by him that the piping and sumps had passed the required tests.

On October 23, 1998, Inspector Greg Bailey of OBD performed a site inspection to verify that the proposed equipment had been installed in accordance with the construction plan and OBD requirements. During the site inspection, Inspector Bailey stated that the site work that was performed appeared to conform with applicable building and electrical codes. He also stated that OBD had erred in requiring an inspection of the concrete slab since there was not a building or other structure to be constructed on the slab. He therefore did not sign off the OBD inspection form (the Permit Inspection Record) but noted on the back of the form that an inspection and sign-off were not required. Copies of the front and back of the Permit Inspection Record are attached to this report.



On November 11, 1998, Chief Inspector Leroy Griffin of OFPD performed a Final Inspection to verify that the proposed equipment had been installed in accordance with the construction plan and OFPB requirements. During the site inspection, Chief Inspector Griffin inspected all accessible portions of the installed equipment, including opening of the piping sumps and other equipment access facilities. He also observed while NAC personnel demonstrated the operation of the tank monitoring system.

After the inspection, Chief Inspector Griffin stated that the site work that was performed appeared to conform with applicable fire, building, and electrical codes, and the OFPB permit requirements. He signed off the Final Inspection section of the permit form (Tank Permit No. 150-78, a copy of which is attached to this report) and stated that the work performed on the tank system satisfied the requirements of the tank regulations due to take effect on December 22, 1998. Chief Inspector Griffin stated that he would issue tank compliance certifications (including the certification stickers to be mounted near the tanks to indicate the tanks were in compliance with the December 22, 1998, requirements and could legally be filled) following his receipt, review, and approval of an updated SWRCB Form B for each tank. FES will provide an updated Form B for each tank to NAC with this report.

**Backfilling and Resurfacing the Excavations:** The excavated areas were backfilled using the clean excavated pea gravel and clean imported pea gravel. The backfilled trench areas were then resurfaced with at least six inches of concrete. The area above UST #1 was resurfaced with a steel-reinforced concrete slab approximately eight inches thick. Two four-inch-diameter steel traffic barriers were installed adjacent to the new vent pipe at UST #1.

#### Waste Disposal:

On November 10, 1998, the stockpiled excavated soil was transported under an Altamont Landfill Waste Acceptance Form by Lutrel Trucking of Bakersfield, California, a licensed hazardous waste hauler, to the Altamont Landfill and Resource Recovery Facility operated by Waste Management in Livermore, California, for use as Class II cover soil. The quantity of soil disposed of was measured by weighing the loads on the landfill's certified truck scale and is reported on the Inbound Customer Waste Report provided by Waste Management to be 29.87 tons. Copies of the Altamont Landfill Waste Acceptance Form and the Inbound Customer Waste Report documenting the transportation and disposition of the soil are attached to this report.

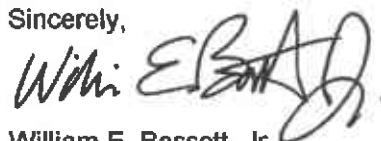
#### Laboratory Analytical Results

The soil and free product samples were analyzed at McCampbell Analytical, Inc., of Pacheco, California, a California-certified laboratory. Copies of laboratory analytical reports and chain of custody records are attached to this report.

#### Closure

The submittal of this report to NAC completes the scope of work to be performed by FES on this project. If you have any questions regarding this UST upgrade and piping removal/closure project, please call me at (510) 749-4131.

Sincerely,



William E. Bassett, Jr.  
Project Manager

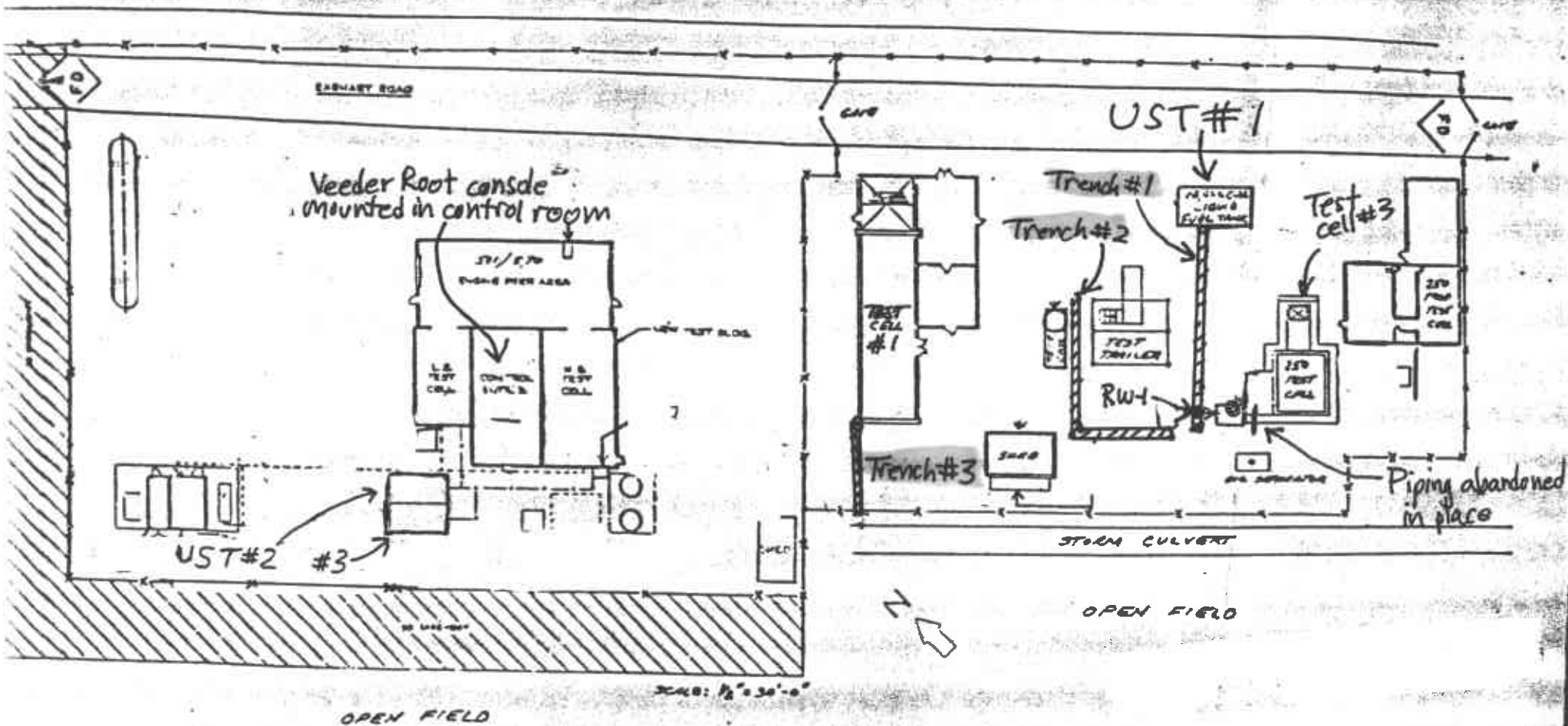
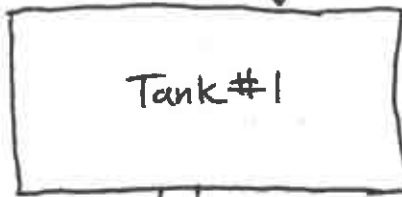


Figure 1  
 NATIONAL AIRMOTIVE CORP.  
 7200 LOCKHEED STREET  
 SITE LAYOUT DIAGRAM

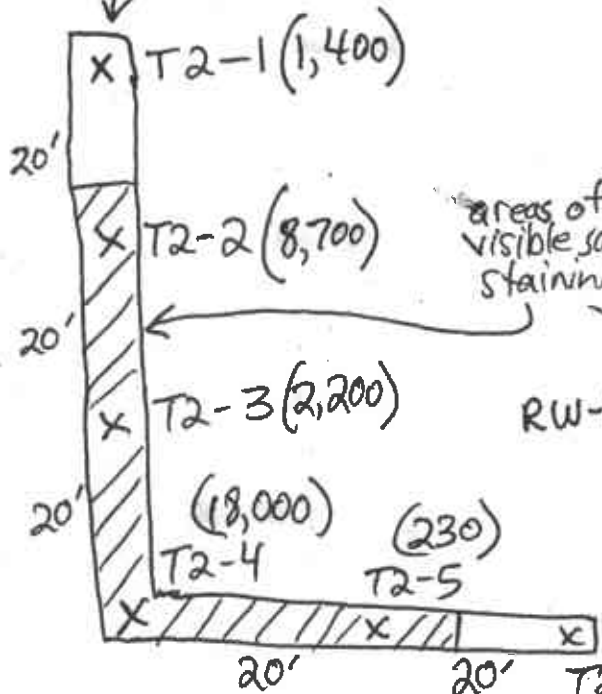
10,000 gallon tank under concrete pad

NORTH



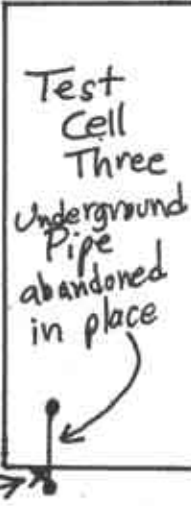
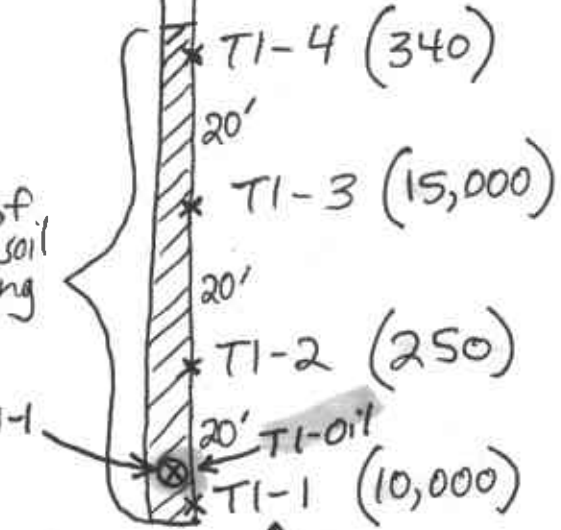
"South" french #1 underground piping replaced

"center" french #2 underground piping removed



areas of visible soil staining

RW-1



Sample name (results in parentheses)  
(TPH-jet fuel in mg/Kg)

Figure 2  
Sample Locations  
National Airmotive  
Test Facility  
Oakland, CA  
By Bill Bassett  
10/6/98

NOT TO SCALE

- ⊗ Location of T1-0il sample and Recovery Well RW-1
- x Location of soil sample



Figure 3

By: Bill Bassett

Date: 11-2-98

Project No. National Airmotive

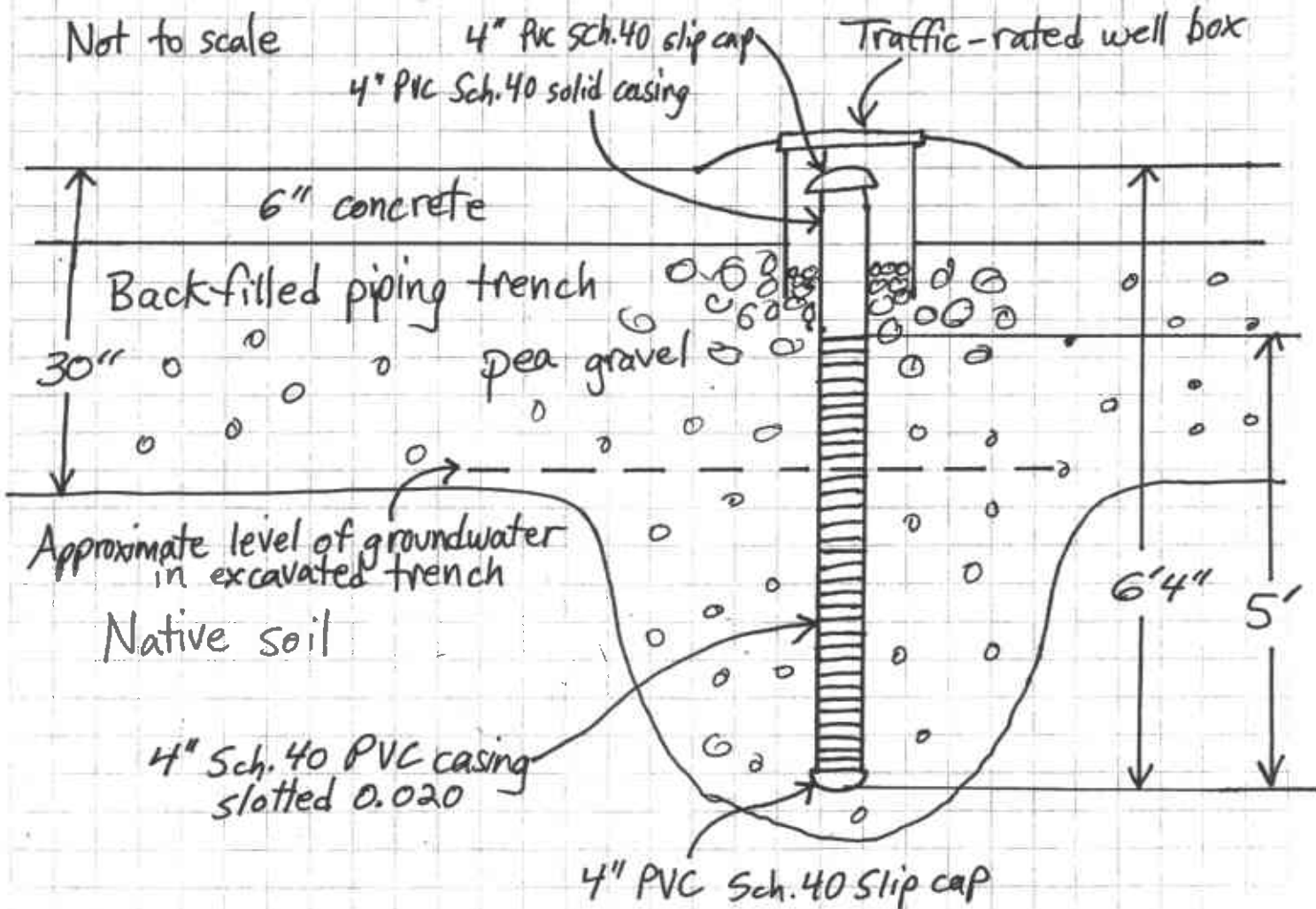
Sheet No. 1 of 1

### Construction Diagram Recovery Well RW-1

1/2" x 1/2"

at National Airmotive Test Facility  
7200 Earhart Rd., Oakland, CA

well installed  
10/16/98



**City Of Oakland**  
**FIRE PREVENTION**  
**BUREAU**

250 Frank Ogawa Plaza, Ste. 3341  
Oakland California 94612-2032  
510-238-3851



*Permit To Excavate And Install,  
Repair,  
Or Remove Inflammable Liquid Tanks*  
Oakland, California September 22, 1998

Tank Permit Number: 150-78

Permission Is Hereby Granted To:

Modify Jet A fuel Tank And Excavate Commencing: Feet Inside: property Line.

On The:

Site Address: 7200 Earhart Rd.

Present Storage: Jet A

Owner: National Airmotive

Address: 7200 Earhart Rd., Oakland 94621

Phone: 613-1017

Applicant: Foss Environmental Services

Address: 1605 Ferry Point Alameda, 94501

Phone: 749-4131

Dimensions Of Street (sidewalk) Surface To Be Disturbed : X No. Of Tanks 3 Capacity See Below Gallons, Each

Remarks Modify (2) tanks @ 8000 gal. and (1) tank @ 10,000 gal.

This Permit Is Granted In Accordance With Existing City Ordinances. Owner Hereby Agrees To Remove Tanks On Discontinuance Of Use Or When Notified By The City Authorities When Installing, Removing Or Repairing Tanks, No Open Flame To Be On Or Near Premises.

**CERTIFICATE OF TANK AND EQUIPMENT INSPECTION**

Approved: [Signature]

Tank Removal: Inspected And Passed On: N/A  
By: \_\_\_\_\_

Inspection Fee Paid: \$ N/A

Tank Installations/modifications:

Received By: [Signature]

Pressure Test: Inspected By: S. Crawford Date: 10/14/98  
Primary Piping Test: Inspected By: " " Date: " "

Secondary Containment & Sump Testing:

Inspected By: S. Crawford Date: " "  
Final: Inspected By: C. [Signature] Date: 11/10/98

Before Covering Tanks, Above Certification Must Be Signed When Ready For Inspection Notify Fire Prevention Bureau 238-3851

**THIS PERMIT MUST BE LEFT ON THE WORK SITE AS AUTHORITY THEREFORE**

OAKLAND FIRE SERVICES AGENCY/OFFICE OF EMERGENCY SERVICES

HAZARDOUS MATERIALS UNIT

505 - 14th Street, Oakland, CA 94612 (510) 238-3938

HAZARDOUS MATERIALS INSPECTION REPORT

Site Number	Facility Name	Facility Address	Zip Code
	NAC	7200 CARLIART	21

Inspection Report

2:30 pm ~ 3:45 pm

TANK RETROFIT

2x LONG RUNS CO-FLEX TO TEST CELL  
~ 2x 30 FEET

NEW TURBINE Sump-

WILL HAVE TCS 350 3 hrs. 3 hrs.

PRIMARY HOLD AT 50 lbs. ~ SECOND @ 5lbs


WILL GO 24-HR. LEAD TEST

+ ~~☆~~ ALL SPILLED HYDROCARBONS WILL  
NEED TO BE CLEARED BY ~~RWOCS~~  
(E 1st Sump- SPILLED LARGE VOLUME?)

+ OVERFLOW PILL ONLY 5 GALLONS

+ WILL NEED LABELING ON ABOVE GROUND  
RUN - ~ 75 FEET "JET A: FLAMMABLE"

410-1255

Facility Contact/ Print Name:	Inspected By:	<input type="checkbox"/> Insp. Griffin	238-7759
Tom Keese		<input type="checkbox"/> Insp. Johnson	238-3804
Facility Contact/ Signature:		<input checked="" type="checkbox"/> Insp. Craford	238-7758
		<input type="checkbox"/> Insp. Gomez	238-7253
	Date:	10.17.98	



**CITY OF OAKLAND • Office of Planning and Building**  
 1330 Broadway, 2nd Floor, Oakland, CA 94612 • Phone: (510) 238-2443 • FAX (510) 238-2263  
**PERMIT**

Job Site **7200 EARHART RD** Parcel# \_\_\_\_\_ Appl# **B9803571**  
 District: **BD-INSP 06A**  
 Descr **remove and replace portions of concrete slab to allow for upgrades to fuel tank system (mech./elec.)** Permit Issued **10/05/98**  
 To schedule inspection call **(510) 238-3444**

Incl Building: **YES** Electrical: **NO** Mechanical: **NO** Plumbing: **NO**  
 Work Type **ALTERATION** #Units \_\_\_\_\_ Plans **3** Energy Calcs \_\_\_\_\_  
 Sq Ft \_\_\_\_\_ #Stories \_\_\_\_\_ Survey \_\_\_\_\_ Struct Calcs \_\_\_\_\_  
 Est Value **\$7,500** Const Type **XX** Soil Report \_\_\_\_\_ Occup Codes **S-3**  
 Bldg Use **RETAINING WALL** Zoning \_\_\_\_\_  
 Applicant \_\_\_\_\_ Phone# **7856-1212** Lic# **716581 A** License Classes \_\_\_\_\_  
 Owner **NATIONAL AIRMOTIVE CORP**  
 Contractor **FOSS ENVIRONMENTAL SVCS CO**  
 Arch/Engr \_\_\_\_\_  
 Agent \_\_\_\_\_  
 Job Addr **1605 FERRY PT, ALAMEDA, CA, 94501-502**

<b>\$333.80 TOTAL FEES PAID AT PILING</b>	<b>\$0.00 TOTAL FEES PAID AT ISSUANCE</b>
\$41.00 Applic	\$32.00 State Regs
\$89.60 Process	\$.00 School
\$.00 Bedroom	\$.00 Plot Plan
\$.00 Address	\$.00 Electric
\$.50 SMIP	\$.00 Mechanical
\$25.60 Fire	\$.00 Plumbing
\$128.00 Permit	\$9.60 Recd Mgmt
\$.00 Invstg	\$7.50 Gen Plan
\$.00 Other	\$.00 Fld Chk
\$.00 Zone Insp	\$.00 Proc Coord

Processed By \_\_\_\_\_ Date \_\_\_\_\_ Permit Issued By MLW Date 10-5-98

Additional Inspections \_\_\_\_\_

<b>OWNER/BUILDER</b>	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 \$500.		I hereby affirm under penalty of perjury one of the following declarations: <input type="checkbox"/> I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. <input checked="" type="checkbox"/> I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are: Carrier _____ Policy Number _____	
	<input type="checkbox"/> 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 them, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.		(This section need not be completed if the permit is for one hundred dollars (\$100-) or less) <input type="checkbox"/> 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 worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.	
<input type="checkbox"/> I, as owner of the property, am exempt from the sale requirements of the above due to: 1) I am improving my principal place of residence or apartments therein, 2) the work will be performed prior to sale, 3) I have resided in the residence for the 12 months prior to the completion of the work, and 4) I have not claimed exemption in this subdivision on more than two structures more than once during any three-year period. (Section 7044, Business and Professions Code).		WARNING: Failure to secure worker's compensation is unlawful, and shall subject employer to criminal penalties and civil fines up to one hundred thousand dollars (\$100,000-). In addition to the cost of compensation, damages as provided for in Section 3706 of the Labor Code, interest, and attorney's fees.		
<input type="checkbox"/> I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code) and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law.		Signature of Owner or Authorized Agent: <u>William Bassett</u> Date: <u>10/5/98</u>		
<input type="checkbox"/> I am exempt under tier: _____ B&P.C. for this reason: _____		<input type="checkbox"/> I hereby affirm, under penalty of perjury, that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3007, Civ. C.).		
<b>APPLICANT</b>	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, EXCEPT IN THOSE CONSTRUCTION PROJECTS WHERE THE BUILDING OFFICIAL, DUE TO THE NATURE OF THE PROJECT, DEEMS THESE LIMITATIONS TO BE UNREASONABLE. EVERY PERMIT ISSUED BY THE BUILDING OFFICIAL, UNDER THE PROVISIONS OF THIS CODE, SHALL EXPIRE BY LIMITATION AND BECOME NULL AND VOID IF THE BUILDING OR WORK AUTHORIZED BY SUCH PERMIT DOES NOT RECEIVE AN APPROVAL OF A MAJOR INSPECTION AS FURTHER DESCRIBED IN SECTION 12.18 OF THIS CHAPTER, WITHIN 90 DAYS FOLLOWING THE ISSUANCE DATE OF SUCH PERMIT OR FOLLOWING THE APPROVAL DATE OF A PREVIOUS MAJOR INSPECTION, DO NOT COMEAL OR COVER ANY CONSTRUCTION UNITS, THE WORK IS INSPECTED AND THE INSPECTION IS RECORDED ON THE BACK OF THE JOB COPY OF THIS PERMIT. ALL INSPECTION REQUESTS ARE REQUIRED AT LEAST 48 HOURS IN ADVANCE OF THE INSPECTION.		City _____ State _____ Zip _____ Phone (____) _____	
	I hereby agree to accept, defend, indemnify and hold harmless the City of Oakland and its officers, employees, agents and volunteers from all actions, claims, demands, litigation or proceedings, including those for attorney's fees, against the City as a consequence of the granting of this permit, from the use or occupancy of any structure, tower or sub-structure or otherwise by virtue thereof, and I will not enter into any contract with the conditions under which this permit is granted.		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.	
	Contractor: <u>William Bassett</u> Date: <u>10/5/98</u> Signature of Contractor or Owner or Agent: <u>William Bassett</u> Date: <u>10/5/98</u>		License # and Class _____ City Business Tax # _____	
	Authorized Agent for Contractor: <u>William Bassett</u> Also PRINT NAME: _____ Address of Agent: <u>1605 Ferry Point, Alameda, CA 94501</u> (510) 749-4621		Contractor's Name: <u>William Bassett</u> Phone: _____ Signature: <u>William Bassett</u> Date: <u>10/5/98</u>	

DIST: DA ADDRESS: \_\_\_\_\_  
 WORKERS COMPENSATION: 7200 Earhart Rd.  
 LENDER: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_



CITY OF OAKLAND

# PERMIT INSPECTION RECORD

Inspections call:

(510) 238-3444

Weekdays

8:00 AM to 4:00 PM

**KEEP AVAILABLE WITH THE APPROVED PLANS**

Inspection Services  
250 Frank H. Owaga Plaza  
2nd Floor  
Oakland, CA 94612

JOBSITE ADDRESS <b>7200 EAKHART RD.</b>		TENANT/SUITE	ASSESSOR'S PARCEL NUMBER	
PERMITTEE <b>FOSS ENVIRONMENTAL SVCS</b>	LICENSE <b>716581</b>	CODE EDITION <b>1994</b>	PERMIT ISSUE DATE <b>10-5-98</b>	
DESCRIPTION OF WORK <b>R/R PORTION OF SLAB FOR UPGRADE TO</b>		OCCUPANCY <b>5.3</b>	FIRE SPRINKLER <b>NO</b>	
REQUIRED SPECIAL INSPECTIONS & MATERIALS TESTING (JBC SECTION 1701.5) <b>NO FUEL TANK SYSTEM</b>		CONST TYPE <b>-</b>	STORIES <b>-</b>	DISTRICT <b>06A</b>

- BUILD, ELECT, PLUMB, & MECH INSPECTIONS MUST BE SCHEDULED SEPARATELY (PLEASE CALL WELL IN ADVANCE).
- ALL PERMITS WILL EXPIRE UNLESS MAJOR INSPECTIONS ARE APPROVED BY THE CITY EVERY 6 MONTHS. (OR SOONER).
- DO NOT CONCEAL ANY WORK UNTIL "OK TO POUR" OR "OK TO COVER" HAS BEEN SIGNED & DATED BY THE CITY.
- "BEST MANAGEMENT PRACTICES" MUST BE USED DAILY TO PROTECT STORM WATER DRAINAGE SYSTEMS.

MAJOR INSPECTION	<b>B9803571</b> BUILDING	ELECTRICAL	PLUMBING	MECHANICAL	PLANNING/ DESIGN REVIEW
01 FOUNDATION (6 MONTHS MAXIMUM)	10 SETBACK	30 CONSTRUCT POWER			60 ORIG GRADE ELEV
	11 PIERS	31 UFER			61 LOT COVERAGE
	12 REPORT/ CERT/ FEE				
OK TO POUR	13 FTG/ SLAB/ EMBED	32 UNDER GROUND	40 UNDER GROUND	50 UNDER GROUND	62 SITE
02 FLOOR (6 MONTHS MAXIMUM)	14 REPORT/ CERT/ FEE				
	15 UNDER FLOOR	33 UNDER FLOOR	41 UNDER FLOOR	51 UNDER FLOOR	63 FLOOR ELEVATION
OK TO COVER					
03 FRAME (6 MONTHS MAXIMUM)	16 LATH/ CEILING	34 SUSPENDED CEILING	42 DWV PIPING	52 SUSPENDED CEILING	64 ROOF HEIGHT
	17 MASHRY/ RET WALL	35 PREMISES WIRING	43 GAS PIPING	53 FLUE	
	18 SHEARWALL/ ROOF	36 SUBPANEL	44 WATER PIPING	54 DUCT (LOW PRESS)	
	19 SHAFT/ FIREWALL	37 SERVICE/ MCC	45 CONDENSATE PIPING	55 DUCT (TYPE I HOOD)	
	20 TUB/ SHOWER WALL		46 TUB/ SHOWER PAN	56 FIRE DAMPER	
	21 REPORT/ CERT/ FEE		47 WATER SERVICE	57 MANUF FIREPLACE	
	22 ROUGH	38 ROUGH	48 ROUGH	58 ROUGH	68 ROUGH
	23 WALLBRD/ SHINGLE				
04 FINAL (6 MONTHS MAXIMUM)	29 REPORT/ CERT/ FEE	39 EMERG SYSTEMS	49 GAS TEST	59 EQUIPMENT/ HOOD	69 LANDSCAPE/ IRR
	80 UTILITY RELEASE	80 UTILITY RELEASE	80 UTILITY RELEASE	80 UTILITY RELEASE	
	81 FIRE PREVENTION/ 510/ 238 - 3851 <b>2A 11/9/98</b>	82 PUBLIC WORKS 510/ 238 - 3051	83 ENGR SERVICES 510/ 238 - 4770	84 COUNTY HEALTH 510/ 567 - 6700	85 OTHER AGENCY
OK TO OCCUPY	86 FINAL BUILDING	86 FINAL ELECTRICAL	86 FINAL PLUMBING	86 FINAL MECHANICAL	87 FINAL PLAN/ D.R.



OFFICIAL USE ONLY

88 STOP WORK  
92 NOT READY  
95 RE-INSPECT FEE

89 SUSPEND PERMIT  
93 ADDRESS NOT FOUND  
96 CORRECTION NOTICE

90 INSPECT NOT PERFORMED  
94 NO ACCESS/ APPROVED PLANS NOT AVAILABLE  
97 PARTIAL APPROVAL

91 INSPECT CANCELLED  
98 APPROVED

BUILDING

10/23/98 Permit not required for slab on  
grade - not part of a bldg. (566)

ELECTRICAL

PLUMBING/MECHANICAL

PLANNING, ZONING, DESIGN REVIEW, LANDSCAPING

# Equipment List

## National Airmotive

### UST Upgrade

1	42B-1685B Western Fiberglass 42" sump with bottom and water resistant lid.
2	MF0004 Total Containment 4" NPT mounting flange.
1	400-36RLE Baker Industries 36" round manhole with screws and gasket.
<del>1</del>	<del>400-18RL Baker Industries 18" round manhole with screws and gasket.</del>
1	847090-022 Veeder Root TLS-350 console with integral printer.
1	329356-002 Veeder Root four-input in-tank probe interface module.
1	329358-001 Veeder Root eight-input interstitial / liquid sensor interface module.
3	312020-952 Veeder Root 4" riser cap and ring kit.
3	847390-1xx Veeder Root 0.1 GPH magnetostrictive probe for ( ? ' ID tank )
3	849600-000 Veeder Root float kit with 5 ' cable. (gasoline)
3	794380-208 Veeder Root piping sump sensor. Shields, Harper TLS-350 start-up service mileage. and in-bound freight.
	Added 9/14/98
1	A1100-056 Emco Wheaton Guardian high level valve with 4" x 15 ' drop tube.

FROM VEEDER-ROOT

# TLS-350 UST Monitoring System

*Integrated, Modular Design for Complete Regulatory Compliance and Business Management*



- ▶ **Modular design meets current business and regulatory requirements, with expansion capabilities for future needs.**
- ▶ **Integrated solution for centralized, single-system site monitoring.**
- ▶ **Programmable leak test features.**
- ▶ **2-line, 24-character-per-line liquid crystal display and 12-button keyboard step the operator through simple programming and operation functions.**

With its modular design, the TLS-350 lets you choose the exact set of compliance and fuel management features you need today. As regulatory requirements and your business needs change, the flexible TLS-350 platform allows you to add new features tomorrow. A safe investment. A smart decision.

#### **Leading-Edge Leak Detection Technology**

The TLS-350 has defined the industry standard for tank monitoring systems with: advanced magnetostrictive probe technologies offering 0.2 GPH monthly monitoring and 0.1 GPH volumetric tank testing; accurate, automatic electronic line leak detection; and, 4SITE Advanced Technology Sensors and a complete line of standard leak sensors to monitor double-wall tanks, containment sumps, and wet and dry wells.

Plus, for 24-hour stations and high-volume operations, Continuous Statistical Leak Detection (CSLD), the most advanced leak detection technology available today,

provides 24-hour, automatic leak detection *without* tank shutdown. No lost business. No lost operating time.

#### **Leading-Edge Business Management Features**

The TLS-350 takes business management a step beyond normal fuel inventory management. The SiteFax option provides auto-dial fax capability, letting you send up to 16 different reports to up to 8 separate fax machines on a programmable schedule and fax alarm messages instantaneously. The Graphic Remote Display option lets the operator view all inventory, alarm and system status information without leaving the counter or office unattended.

The optional fuel manager software available for the TLS-350 allows you to track average daily fuel usage, predict the days of remaining inventory, and improve delivery scheduling.

By utilizing Remote Control™ Veeder-Root's new tank management software, all inventory management and environmental compliance can be easily centralized on a personal computer in one location.

The use of these time and money saving options extend your investment in the TLS-350 beyond environmental compliance requirements, improving your bottom line.

#### **System Capabilities**

- ▶ **Continuous inventory monitoring.**
- ▶ **Fast, 0.1 GPH in-tank leak detection for up to 8 tanks.**
- ▶ **CSLD option for continuous 24-hour leak detection.**
- ▶ **Line leak detection for up to 8 lines.**
- ▶ **SiteFax auto-dial fax capability.**
- ▶ **Graphic Remote Display option.**
- ▶ **4SITE advanced technology sensor compatibility.**
- ▶ **Interstitial and piping sump leak sensing for up to 64 sensors.**
- ▶ **Vapor and groundwater monitoring for up to 40 wells.**
- ▶ **External inputs.**
- ▶ **Relay outputs.**
- ▶ **Programmable alarms.**
- ▶ **Data communications.**
- ▶ **All third-party tested. All proven in the field.**

#### **Emergency Generator Applications**

- ▶ **Selectable via programming.**
- ▶ **One system handles mix of standard and emergency generator tanks.**
- ▶ **Records generator activity.**
- ▶ **Complete inventory reports before and after generator operation.**

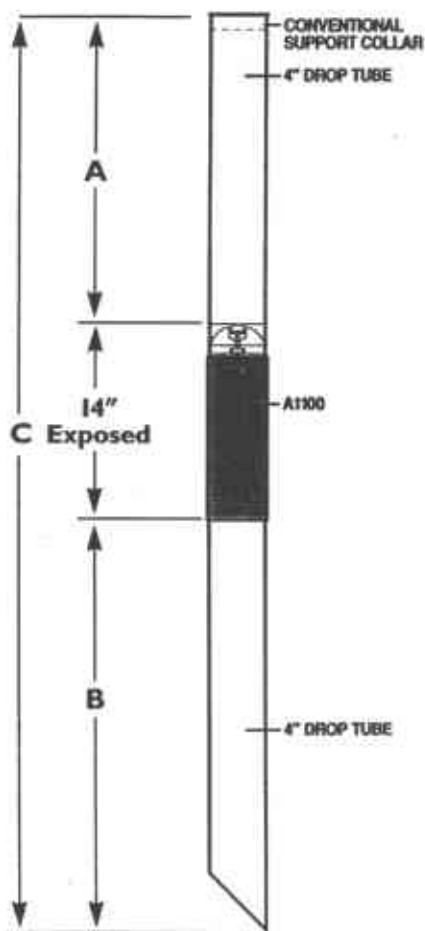
*There's Profit Beyond Compliance. With Veeder-Root.*

**JOB SITE**

# Overfill Prevention System

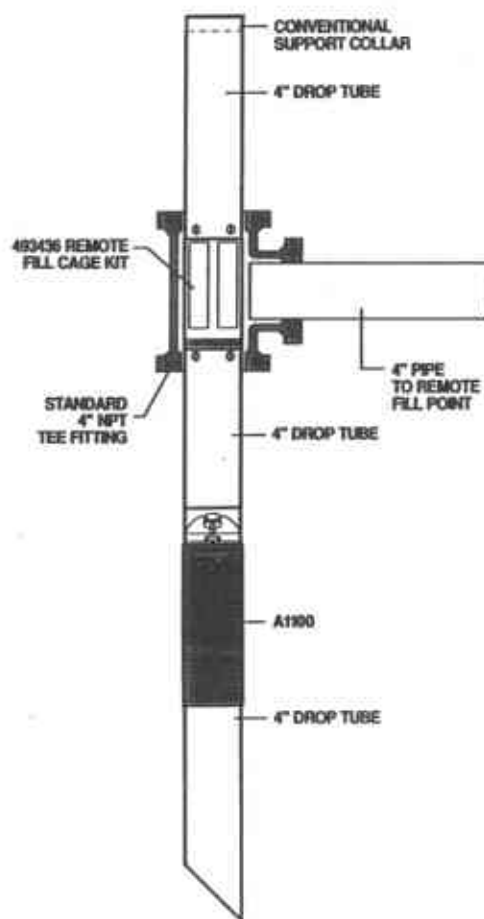
## A1100 Guardian Overfill Prevention Valve Systems

### Conventional and Dual Point Stage I Vapor Recovery



■ CARB certified

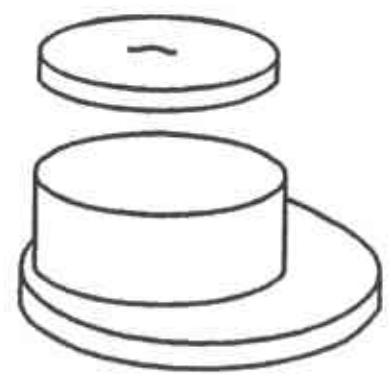
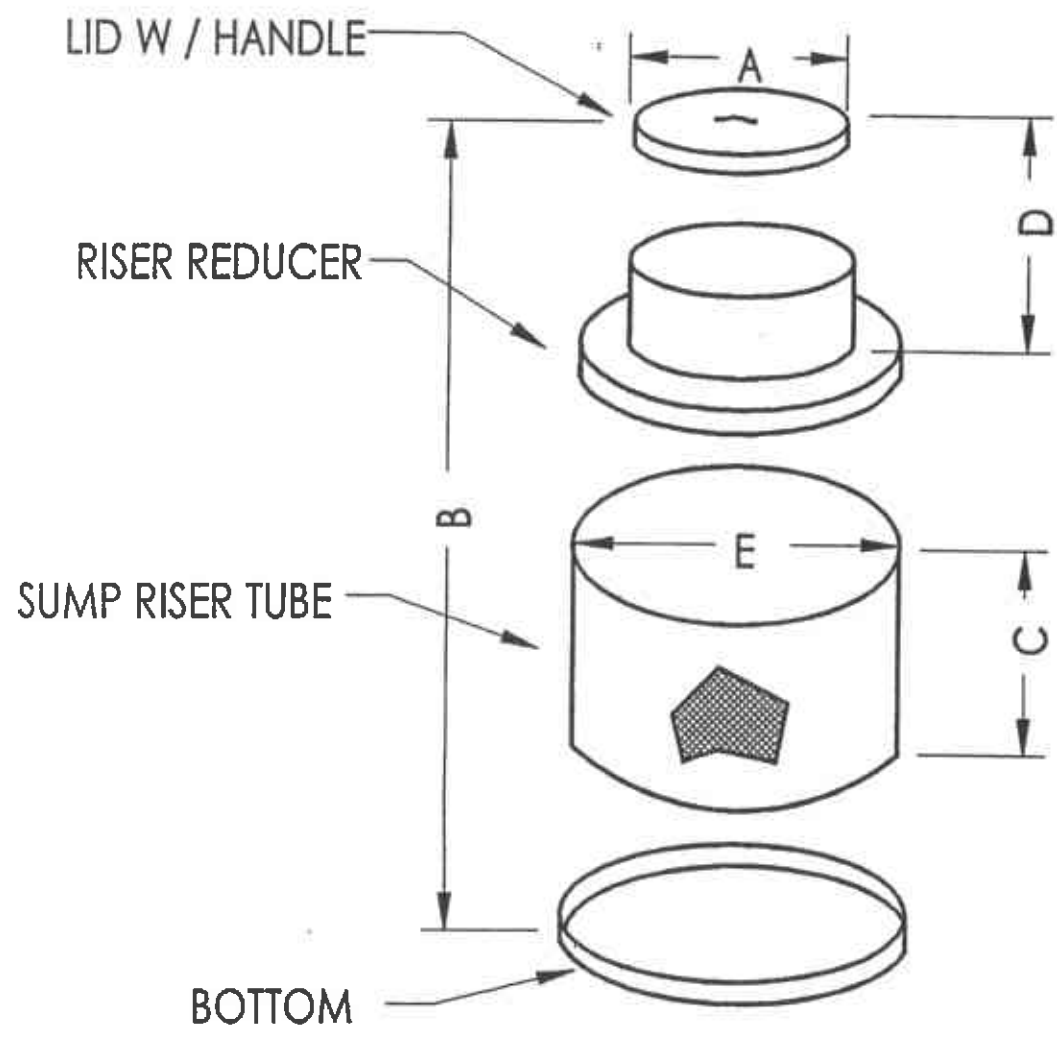
### Remote Fill Typical Application



OVERFILL PREVENTION  
SPILL CONTAINMENT

Model No.	Description	Upper Tube Length A	Lower Tube Length B	Overall Length C	Maximum Riser Length	Nominal Tank Diameter	Weight
A1100-010	Valve Only	N/A	N/A	N/A	N/A	N/A	4.5 lbs.
A1100-055	Dual Point	5 ft.	7 ft.	13 ft.	4.6 ft.	8 ft.	19.4 lbs.
A1100-056	Dual Point	6 ft.	8 ft.	15 ft.	5.5 ft.	10 ft.	21.6 lbs.
A1100-057	Dual Point	7 ft.	10 ft.	18 ft.	6.2 ft.	12 ft.	25.0 lbs.

Custom lengths available; please contact our customer service department.



**OFF-SET REDUCER**

REDUCER RISER TUBE MAY BE OFFSET TO SUIT

<b>SPECIFICATIONS/NOTES:</b>		<b>DETAIL:</b>		<b>WESTERN FIBERGLASS, INC.</b>	
SUMP SHOWN WITH "TC" LIFT/FRICTION TYPE LID. SEE DETAILS FOR OTHER LID SYSTEM OPTIONS.		<b>STANDARD TANK SUMP</b>		1555 COPPERHILL PARKWAY SANTA ROSA, CA 95403	
		<b>BINDER 97/98</b>		PH 707-523-2050 FX 707-523-2046 - WWW.WESTERNFG.COM	
THIS DRAWING AND ITS CONTENTS ARE THE PROPERTY OF WESTERN FIBERGLASS, INC., AND MAY BE USED ONLY WITH WRITTEN PERMISSION. USA AND INTERNATIONAL DESIGN AND UTILITY PATENTS PENDING. ALL RIGHTS RESERVED		APPROVED BY:		BY: <b>R. LEWIS</b>	
				FILE/DRAWING# <b>930081</b>	
				SCALE: <b>NTS</b>	
				SHEET NO: <b>1</b>	

## Polyethylene Tank Sump Accessories

### Mounting Flange

Steel extension nipple installed into a tank's fitting to mount any size tank sump with a bottom. Includes male-threaded nipple, compression ring and necessary nuts, washers and gasket.

Part #	Description
ME0004	4" Mounting Flange
MF0006	6" Mounting Flange
MF0415	4" Mounting Flange (BSPT)

### Mounting Ring

Provides easy and cost effective means of mounting Total Containment® Sumps using Total Containment Close-Off Fittings.

Part #	Description
MR0200	2" Mounting Ring
MR0400	4" Mounting Ring
MR0600	6" Mounting Ring

### Manway Mount Kits

Kits used to fasten and seal Total Containment Tank Sumps to fiberglass or steel tank manways. Includes three-piece compression rings and gaskets.

Part #	Description
MK0022	22" Kit (1 ring; 2 gaskets)
MK0024	24" Kit (1 ring; 2 gaskets)
MK0042	42" Kit (1 ring; 1 gasket)
MK0042A	42" Kit (2 rings; 1 gasket; & bolt kit)

Note: 42" kits should not be used on any 42" all-FRP reverse-flange collars unless approved by Total Containment.

### Sump Mounting Kit

Kit used to fasten and seal Total Containment Tank Sumps to Total Containment Tanks built with reverse flange manway. Includes one (1) three-piece powder-coated compression ring, one (1) gasket, nuts and washers.

Part #	Description
MK0036	Sump Mounting Kit

### Manway Gaskets

Gaskets standard with manways.

Part #	Description
MG0022	22" Manway Gasket
MG0024	24" Manway Gasket
MG0042	42" Manway Gasket

### Tank Sump Lids and Accessories

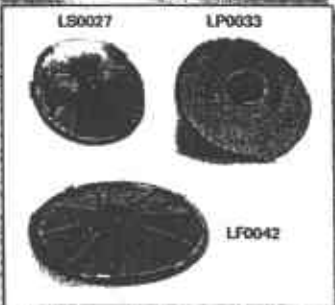
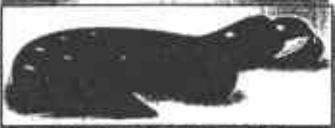
Replacement parts used for liquid-resistant sump access.

Part #	Description
OC0008	Observation Cap (port for cap must be precut at Total Containment)
27" Lids	
LP0027	27" Sump Lid Assembly (lid, gasket, observation cap)
LS0027	27" Sump Lid with Gasket
BK2727	Bolt-down Lid Kit (4 hooks)
LG0922E1	27" Lid Gasket
33" Lids	
LP0033	33" Sump Lid Assembly (lid, gasket, observation cap)
LS0033	33" Sump Lid with Gasket
BK3333	Bolt-down Lid Kit (8 hooks)
LG0875E1	33" Lid Gasket
42" Lids	
LP0042	42" Sump Lid Assembly (lid, gasket, observation cap)
LF0042	42" Fiberglass Lid with Gasket
BK3333	Bolt-down Lid Kit (8 hooks)
LG0942E1	42" Lid Gasket

### Backfill Container

Installed between sump and tank to prevent backfill erosion.

Part #	Description
BC0048	Backfill Container



Designates new product

# FLEXIBLE UNDERGROUND PIPING AND FITTINGS

## Commercial, Retail and Marina Fueling Applications

### Primary Piping

Flexible primary pipes run in continuous lengths between submersible pumps and dispensers or between tanks and vent stacks for proper venting of tank vapors. Compatible with fuels up to 100% alcohol. Sold in random lengths. Pressure pipe can be used in suction applications.

#### Part # Description

##### Enviroflex® Retractable Pipe

- PP1501 1-1/2" Pressure Pipe
- PP2500 2-1/2" Pressure Pipe (rated for petroleum products only)
- PP2501 2-1/2" Pressure Pipe

##### Omniflex® Direct-Bury Coaxial Pipe\*

- ➔ CP1502 1-1/2" Coaxial Pressure Pipe
  - ➔ CP1502B 1-1/2" Black UV Resistant Coaxial Pressure Pipe for use in Marinas (Marinaflex™)
- Monoflex™ Retractable or Direct-Bury Pipe for Suction, Tank Vent and Stage II Vapor Recovery**
- ➔ SP1501 1-1/2" Single Wall Pipe for Suction Applications
  - ➔ SP2501 2-1/2" Single Wall Pipe for Suction, Tank Vent and Stage II Applications

\* The Omniflex coaxial piping system is recommended for use with uncuffed tank and dispenser sumps.

### Secondary Containment Pipe

Corrugated flex pipes run in continuous lengths between tank sumps and dispenser sumps to provide secondary containment of primary pipe.

#### Part # Description

- ➔ SP2501 2-1/2" Containment Pipe for 1-1/2" Enviroflex Primary Pipe
- SP4500 4-1/2" Containment Pipe
- ➔ VP2501B 2-1/2" Black UV Resistant Containment Pipe for use in Marinas (Marinaflex)
- ➔ SP4500B 4-1/2" Black UV Resistant Containment Pipe for use in Marinas (Marinaflex)

### Primary Couplings

Couplings installed on each end of the flexible primary pipe by a certified contractor using Total Containment® Coupling Machines. Monoflex "VC" couplings do not require a coupling machine.

#### Part # Description

##### Enviroflex®

- FC1500 1-1/2" Female Coupling
- FC2500 2-1/2" Male Coupling

##### Omniflex®

- FC1501 1-1/2" Female Retractable Coupling (may also be used with 1-1/2" Enviroflex)

##### Monoflex®

- ➔ FC2520 2" Female Coupling for Suction (NPT)
- ➔ FC2521 2" Female Coupling for Suction (BSPT)
- VC2520 2" Plastic Coupling for Tank Vent (NPT)
- VC2521 2" Plastic Coupling for Tank Vent (BSPT)
- VC2500 3" Brass Coupling for Stage II (NPT)
- VC2501 3" Brass Coupling for Stage II (BSPT)

### Primary Coupling Washers

Washers used with each Enviroflex and Omniflex coupling to seal primary pipe joints. No washers required for Monoflex couplings.

#### Part # Description

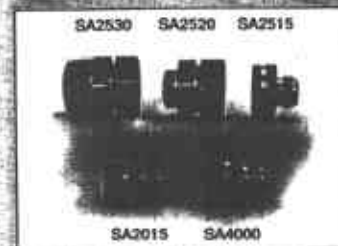
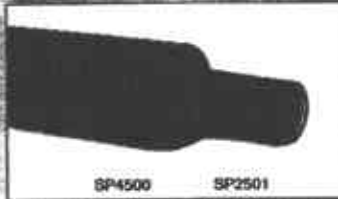
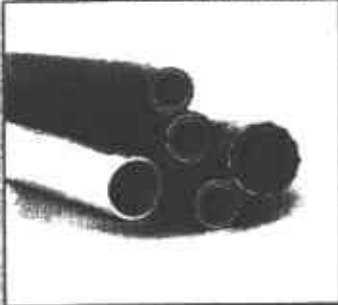
- WS1000 1-1/2" Coupling Washer
- WS2500 2-1/2" Coupling Washer

### Primary Adaptors

Adaptors used to transition Enviroflex and Omniflex Couplings to NPT openings on pumps or ball valves. No special adaptors are required for Monoflex system.

#### Part # Description

- SA2015 1-1/2" EF to 1-1/2" Male (NPT)
- SA1515 1-1/2" EF to 1-1/2" Male (BSPT)
- SA4000 1-1/2" EF to 2" Male (NPT)
- SA2020 1-1/2" EF to 2" Male (BSPT)
- SA2515 2-1/2" EF to 1-1/2" EF
- SA2520 2-1/2" EF to 2" Male (NPT)
- SA2521 2-1/2" EF to 2" Male (BSPT)
- SA2530 2-1/2" EF to 3" Male (NPT)
- SA2531 2-1/2" EF to 3" Male (BSPT)



# BAKER INDUSTRIES NORTHWEST, INC.

12428 Highway 99 South • Unit 56 • Everett, WA 98204

Phone (206) 745-6130 • FAX (206) 353-6788

## ROUND ACCESS BOXES

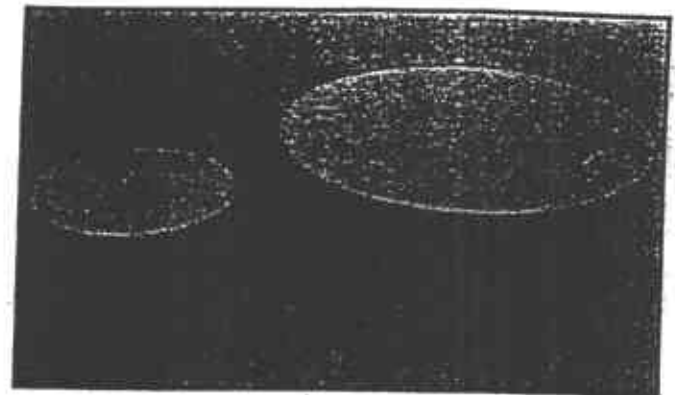
For Grade Level Applications

### DESIGN FEATURES OF 400 SERIES:

- Heavy Duty Steel Diamond Plate Lid, Rated For H20 Axle Loads.
- Fully Recessed Steel Handle, Watertight.
- Galvanized Steel Skirt.
- Formed STEEL Support Ring.
- BUNA-N Lid Gasket, Watertight Lid.
- Recessed STAINLESS STEEL Security Bolts In Lid.
- Manufactured In Everett, WA.

**NOTE:** 300 Series Models 300-12RL thru 300-42RL same as above except do not include lid gasket or security bolts. (not a watertight lid)

### DISTRIBUTED BY:



Model 400-16R

Model 400-36R

### DESCRIPTION

MODEL	SKIRT I.D.	LID O.D.	HEIGHT
400-12RL	12"	15"	10"
400-16R	16"	19"	13"
400-16RL	16"	19"	10"
400-18R	18"	21"	13"
400-18RL	18"	21"	10"
400-24R	24"	27"	13"
400-24RL	24"	27"	10"
400-30R	30"	33"	13"
400-30RL	30"	33"	10"
400-36R	36"	39"	13"
400-36RL	36"	39"	10"
400-42R	42"	45"	13"
400-42RL	42"	45"	10"

\* 'L' models are 10" rather than 13" high.

\* 12"-18" sizes do not include recessed handle unless specified.

\* Dimensions are approximate.

\* Other sizes produced on request.

\* 20" x 20" and 24" x 24" square access boxes available.





(800) 443-0711

# HORNER'S EZY SKIMMER™

- ◆ Simple
- ◆ Effective
- ◆ Inexpensive

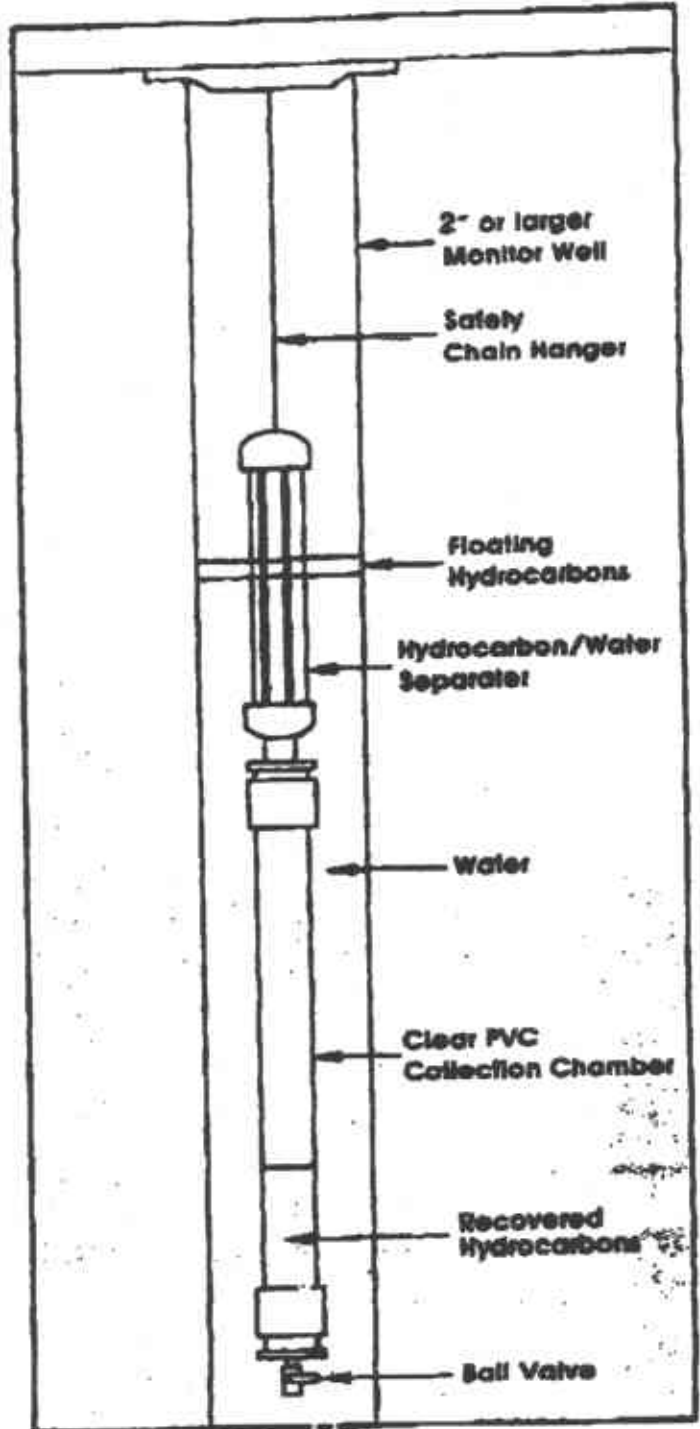
Horner's EZY SKIMMER continuously and automatically syphons floating hydrocarbons from the water surface in a monitoring well without electronics, pumps, valves or man-hours.

Floating hydrocarbons are absorbed and collected through a special filtering process. Recovered hydrocarbons are stored in the collection chamber. When the chamber is full you simply pull the skimmer out and drain the hydrocarbons back into the tank. No pumping or mixture of water and hydrocarbons to dispose of.

- ◆ Special designs available upon request.



Horner Creative Products, Inc.



DISTRIBUTED BY:

DISTRIBUTED BY  
 ENVIROSUPPLY  
 & SERVICE

(800) 201-8150



Horner provides four standard ESY Skimmer models. They are as follows:

Model 6000: Fits in a 2" (51 mm) or larger well with a standard capacity of 0.10 gallon (.38 litre). The pipe diameter is 1" (25.4 mm). Total length is 47" (1,194 mm) with approximately 10" (254 mm) of the length floating above the liquid level. [REDACTED]

Model 6001: Fits in a 4" (102 mm) or larger well with a standard capacity of 0.30 gallon (1.14 litre). The pipe diameter is 2" (51 mm). Total length is 46" (1,168 mm) with approximately 10" (254 mm) of the length floating above the liquid level. [REDACTED]

Model 6003: Fits in a 4" (102 mm) or larger well with a standard capacity of 1.0 gallon (3.8 litre). The pipe diameter is 3" (76.2 mm). Total length is 60" (1,524 mm) with approximately 10" (254 mm) of the length floating above the liquid level. [REDACTED]

Model 6004: Fits in a 4" (102 mm) or larger well with a standard capacity of 1.35 gallon (5.1 litre). The pipe diameter is 3" (76.2 mm). Total length is 68" (1,727 mm) with approximately 10" (254 mm) of the length floating above the liquid level. [REDACTED]

All ESY Skimmers come complete with a 10' retrieval chain and two "S" hooks.

*EnviroSupply & Service*





**McCAMPBELL ANALYTICAL INC.**

110 2nd Ave. South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
<http://www.mccampbell.com> E-mail: [main@mccampbell.com](mailto:main@mccampbell.com)

Foss Environmental Infrastructure 1605 Ferry Point Alameda, CA 94501	Client Project ID: #A8723-06; Nat Air	Date Sampled: 10/01/98
		Date Received: 10/06/98
	Client Contact: Bill Bassett	Date Extracted: 10/06/98
	Client P.O:	Date Analyzed: 10/06/98

10/13/98

Dear Bill:

Enclosed are:

- 1). the results of 11 samples from your #A8723-06; Nat Air project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director



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Foss Environmental Infrastructure 1605 Ferry Point Alameda, CA 94501	Client Project ID: #A8723-06; Nat Air	Date Sampled: 10/01/98
		Date Received: 10/06/98
	Client Contact: Bill Bassett	Date Extracted: 10/06/98
	Client P.O:	Date Analyzed: 10/06-10/12/98

**Jet Fuel Range (C9-C18) Extractable Hydrocarbons as Jet Fuel \***

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(jf) <sup>+</sup>	% Recovery Surrogate
96408	T1-1	S	10,000,b,g	100
96409	T1-2	S	250,b,g	100
96410	T1-3	S	15,000,e	95
96411	T1-4	S	340,g,e	96
96412	T2-1	S	1400,b,g	100
96413	T2-2	S	8700,e,g	102
96414	T2-3	S	2200,b	95
96415	T2-4	S	18,000,e,g	98
96416	T2-5	S	230,g,b	96
96417	T2-6	S	1600,b,f	94
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W		50 ug/L	
	S		1.0 mg/kg	

\* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

# cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

\*The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (Jet Fuel-A?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.



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110 2nd Avenue South, #D7, Pacheco, CA 94553  
 Tele: 510-798-1620 Fax: 510-798-1622

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/05/98-10/06/98

Matrix: SOIL

Analyte	Concentration (mg/kg) Sample (#90404)			Amount Spiked	% Recovery		RPD
	MS	MSD	MSD		MS	MSD	
TPH (gas)	0.000	1.851	1.809	2.03	91	89	2.3
Benzene	0.000	0.204	0.198	0.2	102	99	3.0
Toluene	0.000	0.206	0.200	0.2	103	100	3.0
Ethylbenzene	0.000	0.210	0.204	0.2	105	102	2.9
Xylenes	0.000	0.632	0.614	0.6	105	102	2.9
TPH(diesel)	0	344	338	300	115	113	1.7
TRPH (oil and grease)	0.0	21.4	21.4	20.8	103	103	0.0

\* Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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110 2nd Avenue South, #D7, Pacheco, CA 94553  
Tele: 510-798-1620 Fax: 510-798-1622

## QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/09/98-10/10/98

Matrix: SOIL

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		RPD
	Sample (#90410)	MS	MSD		MS	MSD	
TPH (gas)	0.000	2.292	1.958	2.03	113	96	15.7
Benzene	0.000	0.206	0.208	0.2	103	104	1.0
Toluene	0.000	0.226	0.216	0.2	113	108	4.5
Ethylbenzene	0.000	0.208	0.202	0.2	104	101	2.9
Xylenes	0.000	0.596	0.584	0.6	99	97	2.0
TPH(diesel)	0	342	352	300	114	117	3.0
TRPH (oil and grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

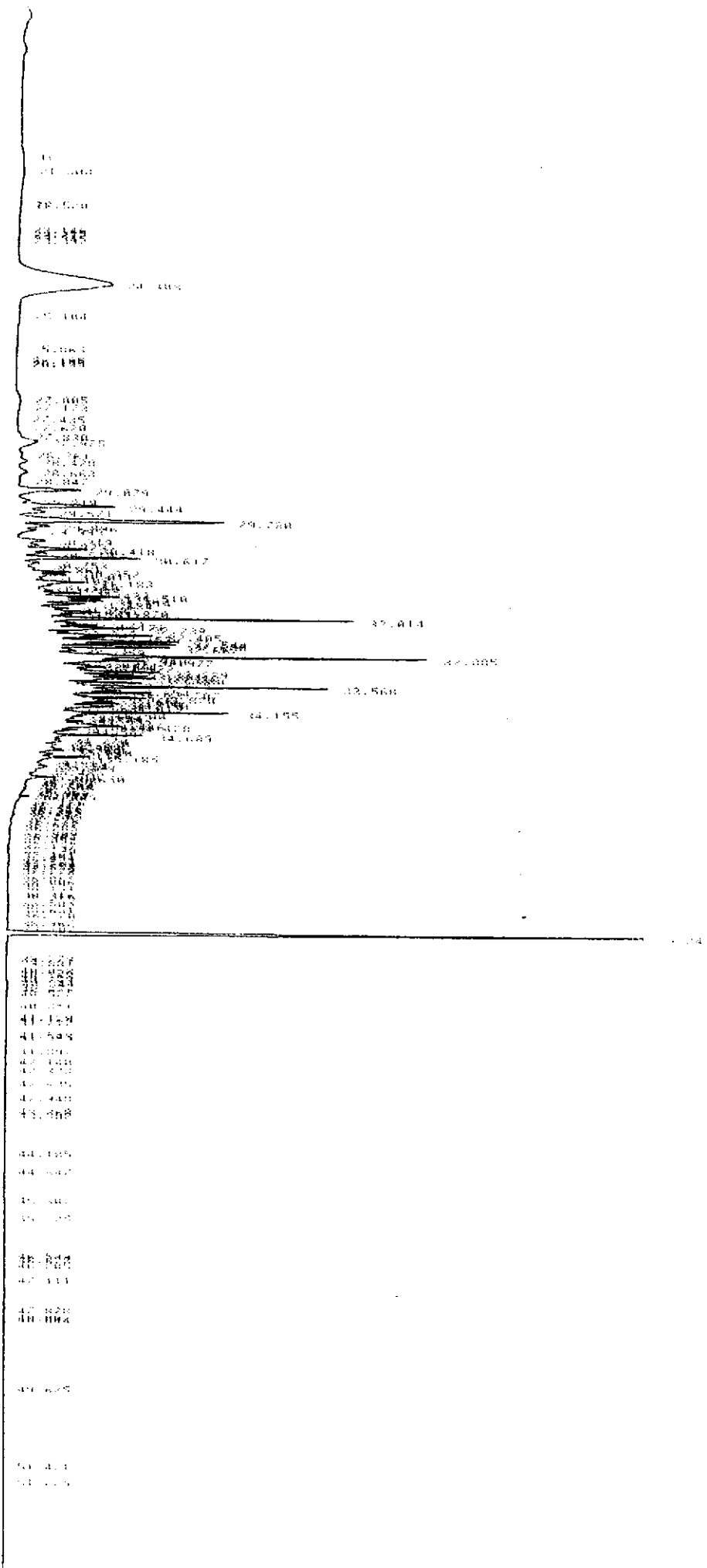
$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$



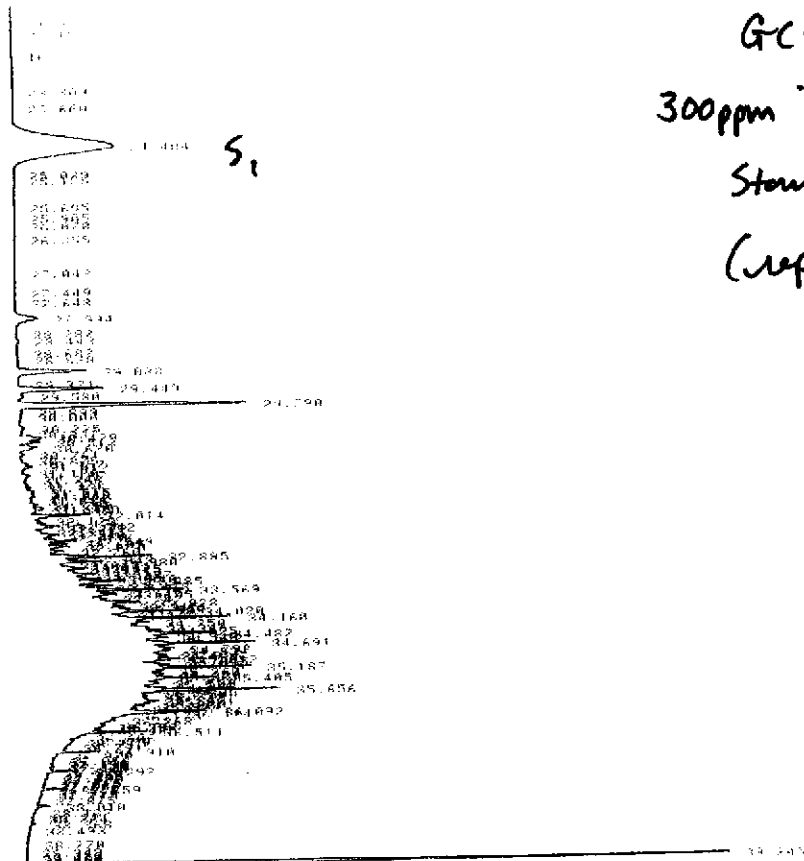


101798 GC6(R) JET FUEL A STANDARD

300ppm  
(replst)



GC-6A  
 300ppm Diesel  
 Standard  
 (replot)



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McCAMPBELL ANALYTICAL INC.

110 2<sup>nd</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME      
RUSH 24 HOUR 48 HOUR 5 DAY

Report To: Bill Bassett Bill To:  
Company: Foss Environmental Services Co.  
1605 Ferry Point  
Alameda, CA 94501  
Tele: (510) 749-4131 Fax: (510) 749-1391  
Project #: A 8723-06 Project Name: Nat Air  
Project Location: Oakland, CA  
Sampler Signature: Bill Bassett

Analysis Request Other Comments

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO <sub>3</sub>	Other				
T1-1	Trench #1	10-1-98		1	BT	X					X							
T1-2	Trench #1			1		X					X							
T1-3	↓			1	↓	X					X							
T1-4	↓			1	↓	X					X							
T2-1	Trench #2			1	BT	X					X							
T2-2	↓			1		X					X							
T2-3	↓			1		X					X							
T2-4	↓			1	↓	X					X							
T2-5	↓			1	↓	X					X							
T2-6	↓			1	↓	X					X							
T1-oil	Trench #1			1	L	X					X						X	

BTEX & TPH as Gas (602/8020 + 8015) MTBE																			
TPH as Dissolved (8016) Jet A	X																		
Total Petroleum Oil & Grease (S) E&F(B&F)	X																		
Total Petroleum Hydrocarbons (418.1)	X																		
EPA 601 / 8010																			
BTEX ONLY (EPA 602 / 8020)																			
EPA 608 / 8080																			
EPA 608 / 8080 PCB's ONLY																			
EPA 624 / 8240 / 8260																			
EPA 625 / 8270																			
PAH's / PNA's by EPA 625 / 8270 / 8310																			
CAM-17 Metals																			
LUFT 5 Metals																			
Lead (72407421/239.2/6010)																			
RCI																			
Fuel fingerprint																			

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Relinquished By: Bill Bassett Date: 10/6/98 Time: 11:40am Received By: Nick Tucca  
Relinquished By: Date: Time: Received By:  
Relinquished By: Date: Time: Received By:

Remarks:  
ICE/GOOD CONDITION   
HEAD SPACE ABSENT   
PRESERVATION APPROPRIATE CONTAINERS   
VOAS | O&G | METALS | OTHER

ALTAMONT LANDFILL & RRF  
INBOUND CUSTOMER WASTE REPORT  
11/10/1998 TO 11/10/1998

11/04/98 13:54  
page 1

CUSTOMER ACCOUNT: 38257 - FOSS ENVIR FOSS ENVIRONMENTAL SERVICES

WASTE: C2C CLASS II COVER SOIL-YELLOW

TICKET	DATE	TIME	PROFILE	TRUCK	UNIT	NO.OF UNITS	PCT	TONS
99085	11/10/1998	12:47	53785500	L59	Tons	14.67	100	14.67
99153	11/10/1998	16:07	53785500	L59	Tons	15.20	100	15.20

WASTE: CLASS II COVER SOIL-YELLOW TOTALS TONS 29.87

Loads: 2

SUBTOTAL:38257 - FOSS ENVIRONMENTAL SERVICES 29.87

Loads: 2

Total Loads: 2 29.87

510-749-1391

## ALTAMONT LANDFILL WASTE ACCEPTANCE FORM

CUSTOMER NAME: FOSS ENVIRONMENTAL SERVICES

CUSTOMER: #38257

PROFILE: #53785500

GENERATOR NAME: NATIONAL AIRMOTIVE CORPORATION

MATERIAL DESCRIPTION: CLASS II COVER SOIL

WASTE SOURCE (County / City location) - OAKLAND

FLAG COLOR: YELLOW

- 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 Landfill scale house collector.
- This form is for Altamont Landfill 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 LANDFILL COLLECTOR USE ONLY:

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

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

DATE \_\_\_\_\_

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







McCAMPBELL ANALYTICAL INC.

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PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

12875 x Fos 8  
CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH  24 HOUR  48 HOUR  5 DAY

Report To: **Bill Bassett** Bill To:  
Company: **Foss Environmental Services**  
**1605 Ferry Point**  
**Alameda, CA 94501**  
Tele: **(510) 749-1390** Fax: **(510) 749-1391**  
Project #: **A8723** Project Name: **Nat Air**  
Project Location: **Nat Air, Oakland**  
Sampler Signature: **[Signature]**

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED						
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO <sub>3</sub>	Other			
South Pipe	Cell 3 Pipe	10/19/98		1	BT	X					X						
Bin 1	Two (2) waste bins	11/1/98		1	BT	X					X						
Bin 1				1		X					X						
Bin 1				1			X					X					
Bin 1				1			X					X					

STEX & TRIM Gas (602020 + 8015) ATBE  
STEX in 2000 Jet A

Analysis Request	Other	Comments
Total Petroleum Hydrocarbons (418.1)		
EPA 601 / 8010		
STEX ONLY (EPA 602 / 8020)		
EPA 603 / 8060		
EPA 608 / 8080 PCB'S ONLY		
EPA 624 / 8240 / 8260		
EPA 625 / 8270		
PAH'S / PNA'S By EPA 625 / 8270 / 8310		
CAM-17 Metals		
LUFT 5 Metals		
Lead (7240/7421/239 2/6010)		
PCl		

Composite 4 tubes in the lab and analyze as one  
Hold tubes for possible additional analyses

98019  
98020

ICE/GOOD CONDITION/HEAD SPACE ABSENT   
PRESERVATION APPROPRIATE CONTAINERS   
VOAS ORG METALS OTHER

Relinquished By: **[Signature]** Date: **11/1/98** Time: **12:30 PM**  
Received By: **Dina A Butler**  
Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received By: \_\_\_\_\_  
Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received By: \_\_\_\_\_

Remarks: Call results on Rush Jet-A to Bill Bassett @ (510) 719-1249



Curtis & Tompkins Ltd.

<b>TEH-Tot Ext Hydrocarbons</b>	
<b>Client:</b> National Aeromotive Corp.	<b>Analysis Method:</b> EPA 8015M
	<b>Prep Method:</b> CA LUFT

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
136116-001	PETRO PRODUCT	44404	10/15/98	10/30/98	11/05/98	

Matrix: Miscell.

<b>Analyte</b>	<b>Units</b>	136116-001	
Diln Fac:		40	
Jet Fuel A C10-C16	mg/Kg	900000	
Diesel C12-C22	mg/Kg	440000	YL
<b>Surrogate</b>			
Hexacosane	µREC	DO	

- DO: Surrogate diluted out
- Y: Sample exhibits fuel pattern which does not resemble standard
- L: Lighter hydrocarbons than indicated standard

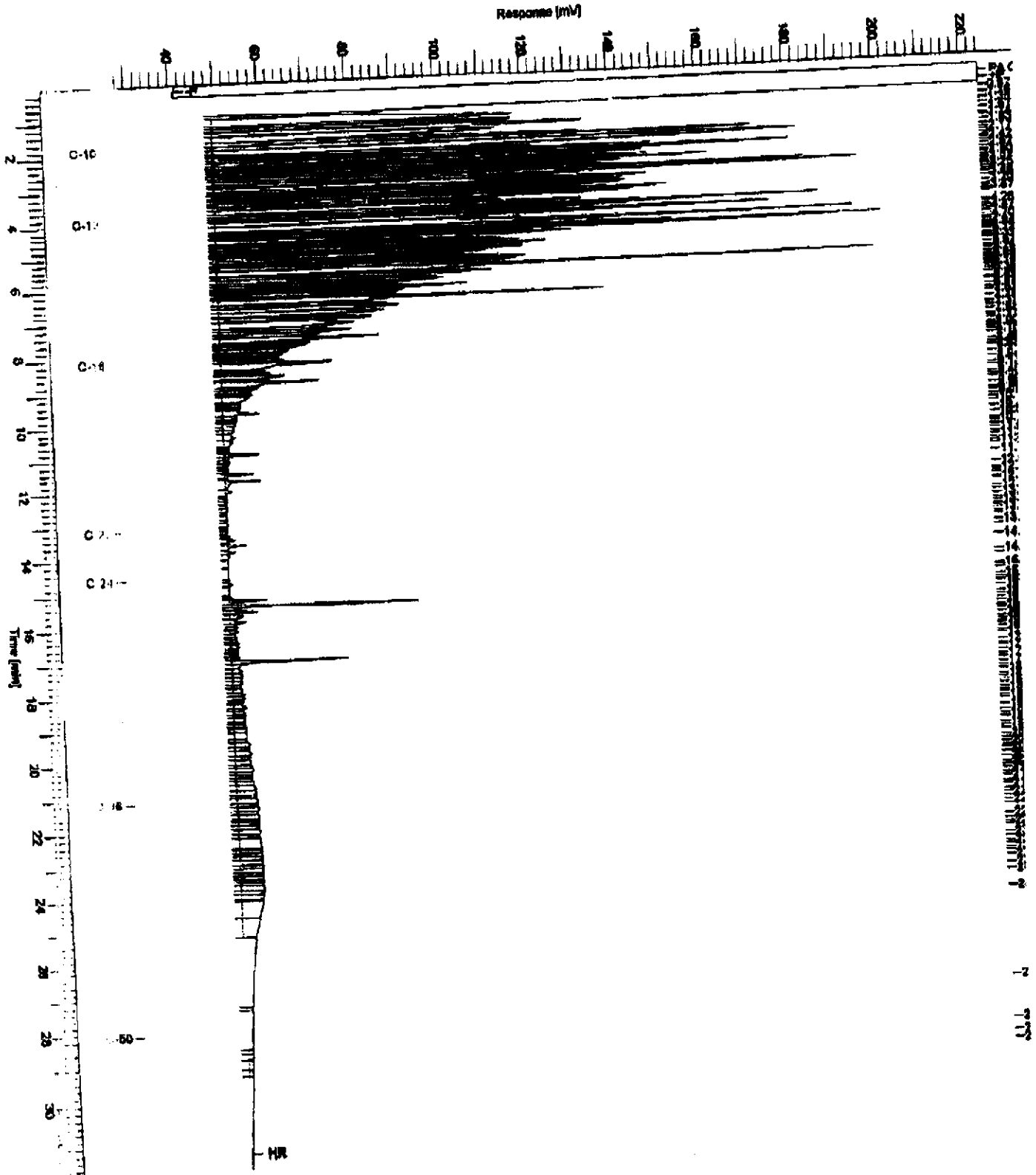
### Chromatogram

Sample Name: 126116.D\11\_44404  
 FileName: NA\_GC19.CH\BA3098003.raw  
 Date: 11/05/98 02:54:11 PM  
 Method: Peak302.mpl  
 Start Time: 0.01 min  
 Scale Factor: 0.0

Sample #: 44404

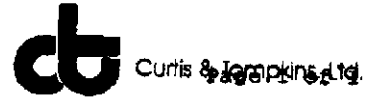
Page 1 of 1

Time of Injection: 11/05/98 02:19:53 PM  
 Low Point: 26.44 mV  
 High Point: 224.92 mV  
 Plot Offset: 26.44 mV  
 Plot Scale: 107.0 mV









TVH-Total Volatile Hydrocarbons	
Client: National Aeromotive Corp.	Analysis Method: EPA 8015M Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
136116-001	PETRO PRODUCT	44275	10/15/98	10/28/98	10/28/98	

Matrix: Miscell.

Analyte	Units	136116-001
Diln Fac:		10000
Gasoline C7-C12	mg/Kg	150000 YH
Surrogate		
Trifluorotoluene	%REC	70
Bromofluorobenzene	%REC	120

Y: Sample exhibits fuel pattern which does not resemble standard  
 H: Heavier hydrocarbons than indicated standard

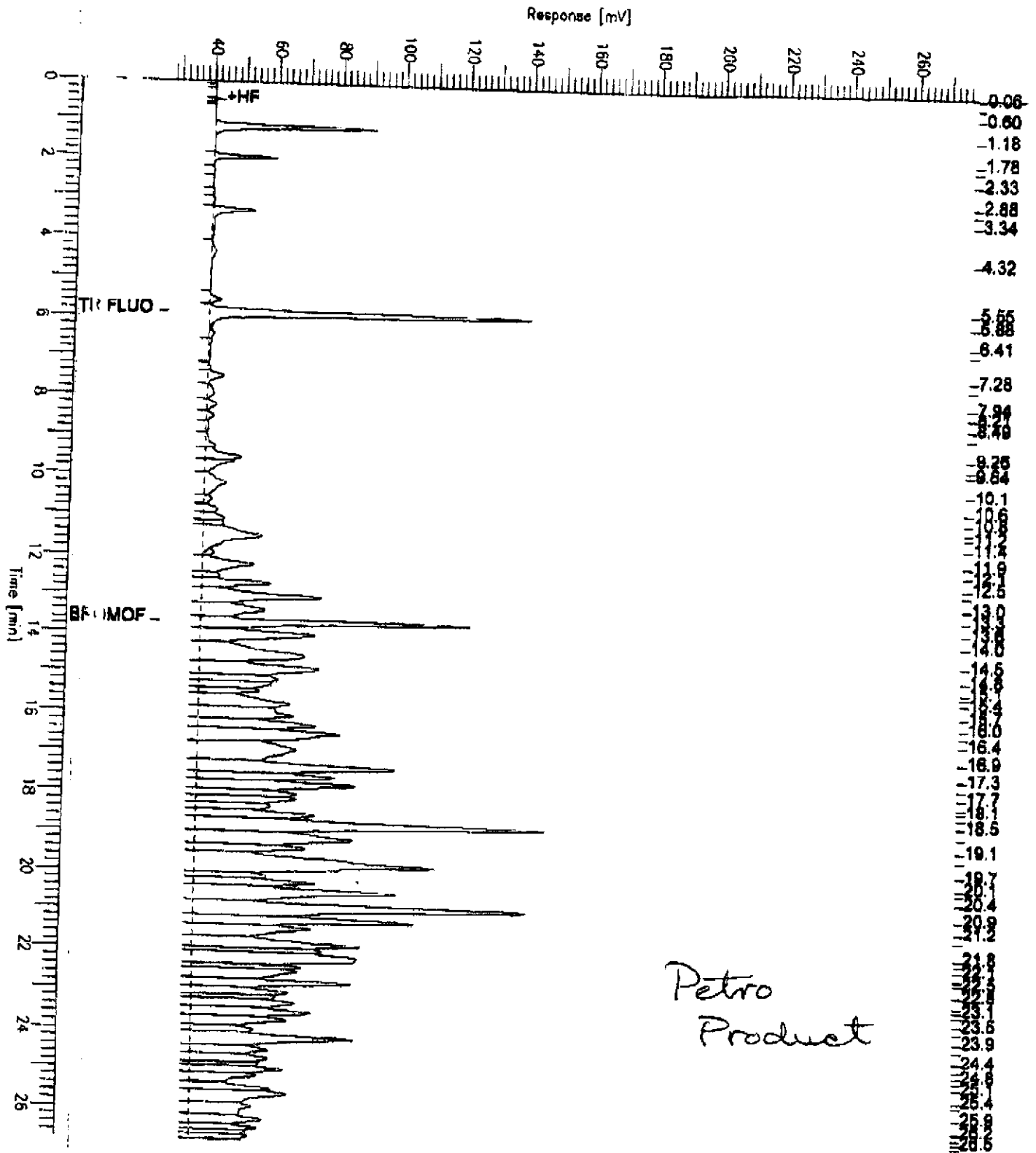
Sample No.: RR,D,136116-001,46275,TVR ONLY,  
 FileName: G:\GCDS\DATA\1010007.RAW  
 Method:  
 Start Time: 0.00 min  
 Scale Factor: -1.0

End Time: 25.00 min  
 Plot Offset: 28 mv

Sample #:  
 Date: 10/28/98 04:03 AM  
 Time of Injection: 10/28/98 03:24 AM  
 Low Point: 27.67 mV  
 Plot Scale: 250.0 mV

Page 1 of 1

High Point: 277.67 mV



Petro Product

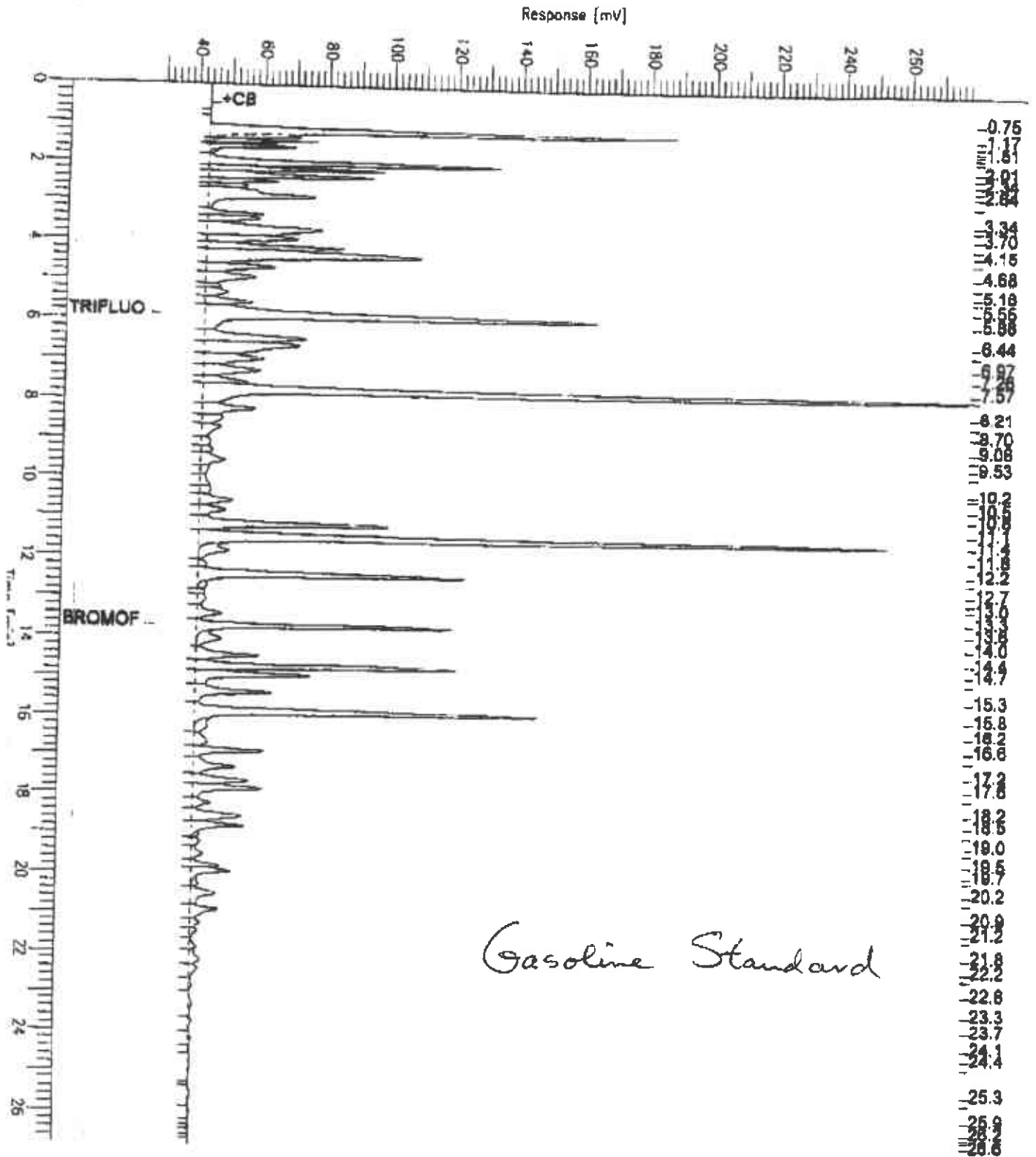
Sample Name : GCV/LCS,GC83254,98W06477,44275.  
 File Name : G:\GC05\DATA\3010003.raw  
 Method : TVHSTKS  
 Start Time : 0.00 min  
 Scale Factor : -1.0

End Time : 36.00 min  
 Plot Offset: 30 mV

Sample #: GAS  
 Date : 10/20/98 12:30 AM  
 Time of Injection: 10/20/98 12:11 AM  
 Low Point : 29.68 mV  
 Plot Scale: 250.0 mV

Page 1 of 1

High Point : 279.68 mV







Volatile Organics by GC/MS

<b>Client:</b> National Aeromotive Corp.	<b>Analysis Method:</b> EPA 8260
	<b>Prep Method:</b> EPA 5030
<b>Field ID:</b> PETRO PRODUCT	<b>Sampled:</b> 10/15/98
<b>Lab ID:</b> 136116-001	<b>Received:</b> 10/15/98
<b>Matrix:</b> Miscell.	<b>Extracted:</b> 10/23/98
<b>Batch#:</b> 44166	<b>Analyzed:</b> 10/23/98
<b>Units:</b> ug/Kg	
<b>Diln Fac:</b> 2500	

Analyte	Result	Reporting Limit
Chloromethane	ND	25000
Vinyl Chloride	ND	25000
Bromomethane	ND	25000
Chloroethane	ND	25000
Trichlorofluoromethane	ND	13000
Acetone	ND	50000
Freon 113	ND	13000
1,1-Dichloroethene	ND	13000
Methylene Chloride	ND	50000
Carbon Disulfide	ND	13000
trans-1,2-Dichloroethene	ND	13000
Vinyl Acetate	ND	130000
1,1-Dichloroethane	ND	13000
2-Butanone	ND	25000
cis-1,2-Dichloroethene	ND	13000
Chloroform	ND	13000
1,1,1-Trichloroethane	ND	13000
Carbon Tetrachloride	ND	13000
1,2-Dichloroethane	ND	13000
Benzene	ND	13000
Trichloroethene	ND	13000
1,2-Dichloropropane	ND	13000
Bromodichloromethane	ND	13000
4-Methyl-2-Pentanone	ND	25000
cis-1,3-Dichloropropene	ND	13000
Toluene	ND	13000
trans-1,3-Dichloropropene	ND	13000
1,1,2-Trichloroethane	ND	13000
2-Hexanone	ND	25000
Tetrachloroethane	ND	13000
Dibromochloromethane	ND	13000
Chlorobenzene	ND	13000
Ethylbenzene	11000 J	13000
m,p-Xylenes	ND	13000
o-Xylene	ND	13000
Styrene	ND	13000
Bromoform	ND	13000
1,1,2,2-Tetrachloroethane	ND	13000
Surrogate	%Recovery	Recovery Limits
1,2-Dichloroethane-d4	97	75-130
Toluene-d8	103	89-110
Bromofluorobenzene	105	83-117

J: Estimated Value



Curtis &amp; Tompkins, Ltd.

## Semivolatile Organics by GC/MS

Client: National Aeromotive Corp.

Analysis Method: EPA 8270B

Prep Method: EPA 3550

Field ID: PETRO PRODUCT

Sampled: 10/15/98

Lab ID: 136116-001

Received: 10/15/98

Matrix: Miscell.

Extracted: 10/29/98

Batch#: 44322

Analyzed: 11/03/98

Units: ug/Kg

Diln Fac: 20

Analyte	Result	Reporting Limit
N-Nitrosodimethylamine	ND	4000000
Phenol	ND	4000000
Aniline	ND	4000000
bis(2-Chloroethyl) ether	ND	4000000
2-Chlorophenol	ND	4000000
1,3-Dichlorobenzene	ND	4000000
1,4-Dichlorobenzene	ND	4000000
Benzyl alcohol	ND	4000000
1,2-Dichlorobenzene	ND	4000000
2-Methylphenol	ND	4000000
bis(2-Chloroisopropyl) ether	ND	4000000
3,4-Methylphenol	ND	4000000
N-Nitroso-di-n-propylamine	ND	4000000
Hexachloroethane	ND	4000000
Nitrobenzene	ND	4000000
Isophorone	ND	4000000
2-Nitrophenol	ND	20000000
2,4-Dimethylphenol	ND	4000000
Benzoic acid	ND	20000000
bis(2-Chloroethoxy)methane	ND	4000000
2,4-Dichlorophenol	ND	4000000
1,2,4-Trichlorobenzene	ND	4000000
4-Chloroaniline	ND	4000000
Hexachlorobutadiene	ND	4000000
4-Chloro-3-methylphenol	ND	4000000
3-Methylnaphthalene	5100000	4000000
Hexachlorocyclopentadiene	ND	20000000
2,4,6-Trichlorophenol	ND	4000000
2,4,5-Trichlorophenol	ND	4000000
2-Chloronaphthalene	ND	4000000
2-Nitroaniline	ND	20000000
Dimethylphthalate	ND	4000000
Acenaphthylene	ND	4000000
2,6-Dinitrotoluene	ND	4000000
3-Nitroaniline	ND	20000000
Acenaphthene	ND	4000000
2,4-Dinitrophenol	ND	20000000



## Semivolatile Organics by GC/MS

Field ID: PETRO PRODUCT	Sampled: 10/15/98
Lab ID: 136116-001	Received: 10/15/98
Matrix: Miscell.	Extracted: 10/29/98
Batch#: 44322	Analyzed: 11/03/98
Units: ug/Kg	
Diln Fac: 20	

Analyte	Result	Reporting Limit
4-Nitrophenol	ND	20000000
Dibenzofuran	ND	4000000
2,4-Dinitrotoluene	ND	4000000
Diethylphthalate	ND	4000000
Fluorene	ND	4000000
4-Chlorophenyl-phenylether	ND	4000000
4-Nitroaniline	ND	20000000
4,5-Dinitro-2-methylphenol	ND	20000000
N-Nitrosodiphenylamine	ND	4000000
Azobenzene	ND	4000000
4-Bromophenyl-phenylether	ND	4000000
Hexachlorobenzene	ND	4000000
Pentachlorophenol	ND	4000000
Phenanthrene	ND	4000000
Anthracene	ND	4000000
Di-n-butylphthalate	ND	4000000
Fluoranthene	ND	4000000
Benzidine	ND	4000000
Pyrene	ND	4000000
Butylbenzylphthalate	ND	4000000
3,3'-Dichlorobenzidine	ND	20000000
Benzo(a)anthracene	ND	4000000
Chrysene	ND	4000000
bis(2-Ethylhexyl)phthalate	ND	4000000
Di-n-octylphthalate	ND	4000000
Benzo(b,k)fluoranthene	ND	4000000
Benzo(a)pyrene	ND	4000000
Indeno(1,2,3-cd)pyrene	ND	4000000
Dibenz(a,h)anthracene	ND	4000000
Benzo(g,h,i)perylene	ND	4000000

Surrogate	%Recovery	Recovery Limits
2-Fluorophenol	DO*	25-120
Phenol-d5	DO*	29-118
2,4,6-Tribromophenol	DO*	13-113
Nitrobenzene-d5	DO*	32-117
2-Fluorobiphenyl	DO*	38-121
Terphenyl-d14	DO*	29-143

J: Estimated Value

\* Values outside of QC limits

DO: Surrogate diluted out



Curtis &amp; Tompkins, Ltd.

SAMPLE ID: PETRO PRODUCT  
 LAB ID: 136116-001  
 CLIENT: National Aeromotive Corp.  
 MATRIX: Miscell.

DATE SAMPLED: 10/15/98  
 DATE RECEIVED: 10/15/98  
 DATE REPORTED: 11/05/98

## California TITLE 26 Metals

Compound	Result (mg/Kg)	Reporting Limit (mg/Kg)	IDF	QC Batch	Method	Analysis Date
Antimony	ND	3.0	1	44241	EPA 6010A	11/04/98
Arsenic	ND	0.25	1	44241	EPA 6010A	11/04/98
Barium	4.7	0.50	1	44241	EPA 6010A	11/04/98
Beryllium	ND	0.10	1	44241	EPA 6010A	11/04/98
Cadmium	0.46	0.10	1	44241	EPA 6010A	11/04/98
Chromium (total)	2.5	0.50	1	44241	EPA 6010A	11/04/98
Cobalt	1.7	1.0	1	44241	EPA 6010A	11/04/98
Copper	3.9	0.50	1	44241	EPA 6010A	11/04/98
Lead	15	0.15	1	44241	EPA 6010A	11/04/98
Mercury						
Molybdenum	ND	1.0	1	44241	EPA 6010A	11/04/98
Nickel	22	1.0	1	44241	EPA 6010A	11/04/98
Selenium	0.56	0.25	1	44241	EPA 6010A	11/04/98
Silver	ND	0.50	1	44241	EPA 6010A	11/04/98
Thallium	ND	0.25	1	44241	EPA 6010A	11/04/98
Vanadium	11	0.50	1	44241	EPA 6010A	11/04/98
Zinc	7.5	1.0	1	44241	EPA 6010A	11/04/98

ND = Not detected at or above reporting limit



**Underground Storage Upgrade Status Report**  
(Please complete one report for each tank)

Tank Owner: National Airmotive (NAC)  
 Facility Address: 7200 Earhart Road, Oakland, CA 94621  
 Phone # 510-613-1000 Owner's Tank ID# Unleaded fueling  
 Tank Capacity 4000 gal Contents Unleaded Gas

Options to meet the 1998 Deadline Choose A, B, or C then enter the target or actual completion date(s) as appropriate.		Completion Dates	
		Target 1st qtr	Actual Same
	A) Permanent closure or removal of tank and piping system		
	B) Replacement of the tank and piping with a double-walled tank, double walled piping and dispenser containment. (Required for non-motor vehicle fuel tanks).	1999	
	C) Tank and piping upgrade as follows:		
	1) Installation of striker plate(s) in tank.	<u>N/A</u>	<u>    </u>
	2) Installation of a 15 gallon spill container at the fill tube.	<u>N/A</u>	<u>    </u>
	3) Installation of an overfill prevention device with one of the following:		
	a) Automatic shutoff device.	<u>N/A</u>	<u>    </u>
	b) Ball float valve.	<u>N/A</u>	<u>    </u>
	c) Audible and visual overfill alarm.	<u>N/A</u>	<u>    </u>
	4) Corrosion protection for the tank provided by one of the following:		
	a) Tank made of non-corrodible material (such as fiberglass).	<u>N/A</u>	<u>    </u>
	b) Steel tank upgraded interior lining and exterior cathodic protection.	<u>N/A</u>	<u>    </u>
	c) Steel tank upgraded with interior lining, exterior cathodic protection, and a bladder system.	<u>N/A</u>	<u>    </u>
	5) Corrosion protection for the associated piping provided by one of the following:		
	a) Piping made of non-corrodible, double walled piping and dispenser containment.	<u>N/A</u>	<u>    </u>
	b) Installation of new fiberglass or other non-corrodible, double walled piping and dispenser containment.	<u>N/A</u>	<u>    </u>
	c) Steel piping with corrosion-resistant coating and cathodic protection.	<u>N/A</u>	<u>    </u>
	d) Steel piping upgraded with cathodic protection.	<u>N/A</u>	<u>    </u>
	6) Installation of a line leak with an automatic shutoff system/device.	<u>N/A</u>	<u>    </u>

Tank owner/operator/agent Signature: National Airmotive Date signed: 9/24/98  
(please use)  
 Woody Ann. Mex Facilities Department

STATE OF CALIFORNIA  
STATE WATER RESOURCES CONTROL BOARD  
**UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B**



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input checked="" type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: National Airmotive Engine Test Facility

**I. TANK DESCRIPTION** COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.# <u>2</u>	B. MANUFACTURED BY: <u>Owens Corning</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>1980s</u>	D. TANK CAPACITY IN GALLONS: <u>8,000</u>

**II. TANK CONTENTS** IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input checked="" type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input checked="" type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 1c MIDGRADE UNLEADED	<input checked="" type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 8 M85
			<input type="checkbox"/> 2 LEADED	<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)	

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED Jet A C. A. S. #:

**III. TANK CONSTRUCTION** MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM	B. TANK MATERIAL (Primary Tank)	C. INTERIOR LINING OR COATING	
<input checked="" type="checkbox"/> 2 SINGLE WALL	<input checked="" type="checkbox"/> 3 FIBERGLASS	<input checked="" type="checkbox"/> 6 UNLINED	
<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 1 RUBBER LINED	
<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 2 ALKYD LINING	
<input type="checkbox"/> 4 SINGLE WALL IN A VAULT	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 3 EPOXY LINING	
	<input type="checkbox"/> 8 POLYVINYL CHLORIDE	<input type="checkbox"/> 4 PHENOLIC LINING	
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 95 UNKNOWN	
	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 99 OTHER	
	<input type="checkbox"/> 95 UNKNOWN	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___	

D. EXTERIOR CORROSION PROTECTION	E. SPILL AND OVERFILL, etc.	OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>1990</u>
<input checked="" type="checkbox"/> 91 NONE	SPILL CONTAINMENT INSTALLED (YEAR) <u>1990</u>	DISPENSER CONTAINMENT YES <u>N/A</u>
<input type="checkbox"/> 1 POLYETHYLENE WRAP	DROP TUBE YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	STRIKER PLATE YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
<input type="checkbox"/> 2 COATING		
<input type="checkbox"/> 3 VINYL WRAP		
<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC		
<input type="checkbox"/> 95 UNKNOWN		
<input type="checkbox"/> 99 OTHER		

**IV. PIPING INFORMATION** CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	B. CONSTRUCTION	C. MATERIAL AND CORROSION PROTECTION	D. LEAK DETECTION
<u>A</u> U 1 SUCTION	<u>A</u> U 2 DOUBLE WALL	<u>A</u> U 1 BARE STEEL	<input type="checkbox"/> 1 MECHANICAL LINE LEAK DETECTOR
<u>A</u> U 2 PRESSURE	<u>A</u> U 3 LINED TRENCH	<u>A</u> U 2 STAINLESS STEEL	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING
<u>A</u> U 3 GRAVITY	<u>A</u> U 95 UNKNOWN	<u>A</u> U 8 CONCRETE	<input type="checkbox"/> 3 CONTINUOUS INTERSTITIAL MONITORING
<u>A</u> U 4 FLEXIBLE PIPING	<u>A</u> U 99 OTHER	<u>A</u> U 7 STEEL W/ COATING	<input type="checkbox"/> 4 ELECTRONIC LINE LEAK DETECTOR
<u>A</u> U 99 OTHER		<u>A</u> U 9 GALVANIZED STEEL	<input type="checkbox"/> 5 AUTOMATIC PUMP SHUTDOWN
		<u>A</u> U 10 CATHODIC PROTECTION	<input checked="" type="checkbox"/> 99 OTHER <u>Visual</u>
		<u>A</u> U 95 UNKNOWN	
		<u>A</u> U 99 OTHER	

**V. TANK LEAK DETECTION**

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 MANUAL INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input checked="" type="checkbox"/> 4 AUTOMATIC TANK GAUGING
<input type="checkbox"/> 7 CONTINUOUS INTERSTITIAL MONITORING	<input type="checkbox"/> 8 SIR	<input type="checkbox"/> 9 WEEKLY MANUAL TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
			<input type="checkbox"/> 6 ANNUAL TANK TESTING
			<input type="checkbox"/> 10 MONTHLY TANK TESTING
			<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER

**VI. TANK CLOSURE INFORMATION** (PERMANENT CLOSURE IN-PLACE)

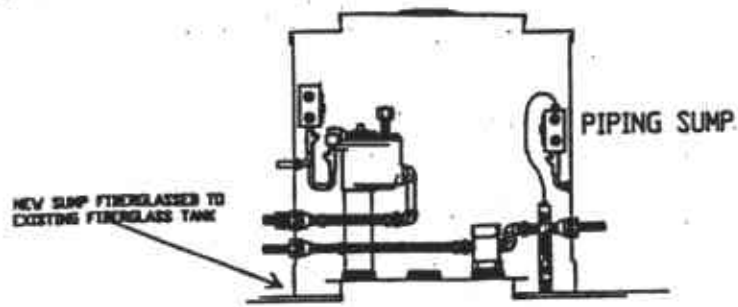
1. ESTIMATED DATE LAST USED (MO/DAY/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING _____ GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input type="checkbox"/>
---	--	--

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNERS NAME (PRINTED & SIGNATURE) <u>National Airmotive Corp</u>	DATE <u>11-13-98</u>
---	----------------------

**LOCAL AGENCY USE ONLY** THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
[ ] [ ] [ ] [ ]	[ ] [ ]	[ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ] [ ] [ ]	[ ] [ ] [ ] [ ] [ ] [ ]
PERMIT NUMBER	PERMIT APPROVED BY/DATE		PERMIT EXPIRATION DATE	

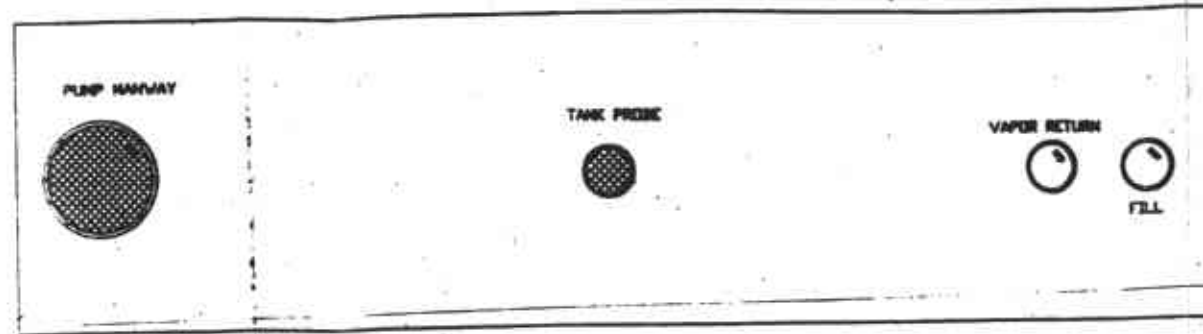


EXISTING FIBERGLASS TANK

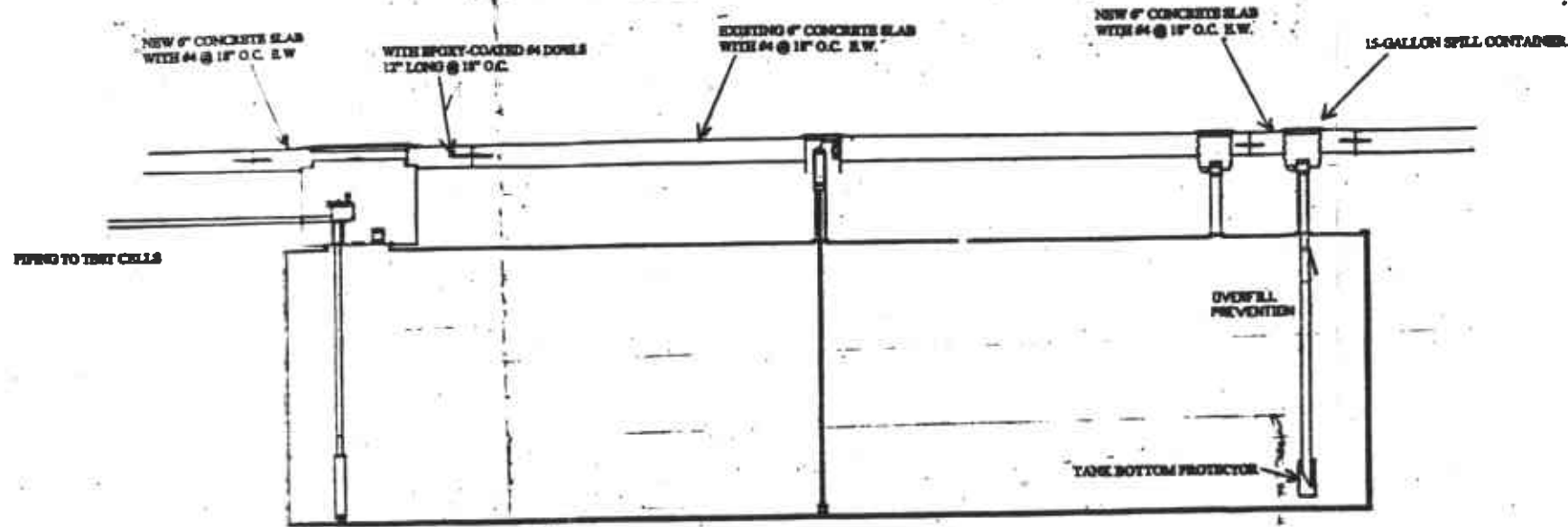
Reference to Permit and the City of Oakland for details on this and other projects.

ALL WORK SHALL COMPLY WITH THE 1991 UPC, AND BE APPROVED AND PERMITTED BY THE CITY OF OAKLAND, IN ACCORDANCE WITH THE CITY OF OAKLAND, IN ACCORDANCE WITH THE CITY OF OAKLAND, IN ACCORDANCE WITH THE CITY OF OAKLAND.

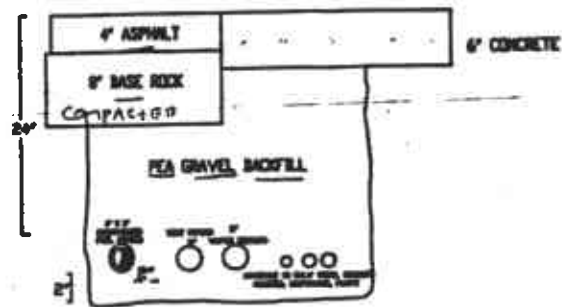
PLAN VIEW



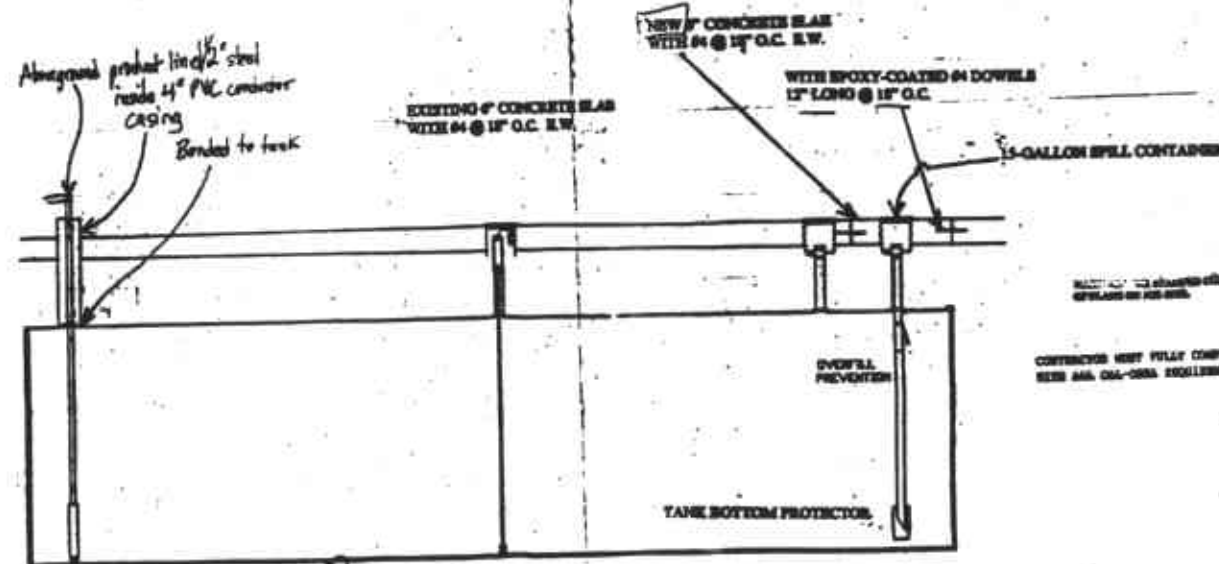
APPROVED  
OAKLAND  
CITY SERVICES  
CIVIL DIVISION  
9/22/98  
182



TYPICAL TANK VIEW CROSS SECTION TANK #1 (10,000 gallons)



PIPE TRENCH



TYPICAL TANK VIEW CROSS SECTION TANK #1 and #2 (10,000 gallons)

APPROVED  
CITY OF OAKLAND  
DEVELOPMENT SERVICES  
PLAN CHECK SECTION  
9/22/98

CITY OF OAKLAND PERMIT ROUTING	
DEPARTMENT	DATE
Public Works	9/22/98
Public Safety	9/22/98
Public Utilities	9/22/98
Public Works	9/22/98

B9803571

Post of Oakland  
SEP 23 1998

- SEPARATE PERMIT REQUIRED FROM FIRE DEPARTMENT PERMITS FOR:
- Fixed Fire Retention System Fans
  - Coating Surfaces, Tanks, and Docks
  - Spray Booths, and Boats
  - Compartments or other protection
- Fuel Storage tank removed per UFC 80,  
- Obtain Ebot. permit for hazardous materials.  
- Contact Has. Hall for UFC 80.

Electrical  
All electrical wiring and components to comply with relevant building codes and manufacturer's installation instructions.

954  
287  
Karen @ SMC ENV  
(650) 363-1921

7200 EARHART RD.

NATIONAL AIRMOTIVE	
DETAILS	
FOSS ENVIRONMENTAL	
DATE 9/13/98	SCALE NONE
BY [Signature]	REV.
FILE TurboCad v4 Bay Alarm Details D07	

JOB SITE