E15, E16

UNDERGROUND STORAGE TANK OPERATING PERMIT APPLICATION and MONITORING, SPILL PREVENTION, AND EMERGENCY RESPONSE PLAN 209 Brush Street, Oakland

Prepared for:

PORT OF OAKLAND
Oakland, California

May 1990

Prepared by:

BASELINE ENVIRONMENTAL CONSULTING
5900 Hollis Street, Suite D
Emeryville, California 94608
(415) 420-8686

S9-134.16

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I. INTRODUCTION

This Underground Storage Tank (UST) Monitoring, Spill Prevention, and Emergency Response Plan documents the procedures and methods that are being undertaken at 209 Brush Street, Oakland for monitoring leaks and for preventing and controlling spills from two underground storage tanks. The site is operated by the Harbor Facilities Garage, Facilities Department of the PORT of Oakland. The site contains one 10,000-gallon unleaded gasoline tank and one 1,000-gallon diesel tank. The tanks are used to fuel PORT of Oakland service vehicles. This plan has been prepared in accordance with Chapter 6.7 of the California Health and Safety Code, Section 25280 *et seq*. Underground Storage of Hazardous Substances.

II. FACILITY INFORMATION

FACILITY

Facility Operator:	Harbor Facilities Garage Facilities Department PORT of Oakland
Facility Address:	209 Brush Street Oakland, CA 94607
Facility Phone Number:	(415) 444-3188 Ext. #420
Type of Business:	Equipment Servicing and Repair
Number of Tanks on Site:	Two
UST Supervisor:	Homer Hoglund, PORT Equipment Supervisor 8900 Earhart Road Oakland, CA 94621 Day: (415) 577-4045 Evening: (415) 223-8847
Normal Hours of Operation:	Monday through Friday, 7:00 a.m. to 4:30 p.m.
Computer-card Operation:	24 hours

PROPERTY OWNERSHIP

Property Owner: PORT of Oakland
530 Water Street
Oakland, CA 94604-2064

Contact Person: Michele Heffes, Environmental Compliance Section
530 Water Street
Oakland, CA 94604-2064
(415) 272-1178

MAP OF SITE

(See Figure 1 for regional location; see Figure 2 for site plan.)

III. UNDERGROUND STORAGE TANK (UST) INFORMATION

TANK DESCRIPTION

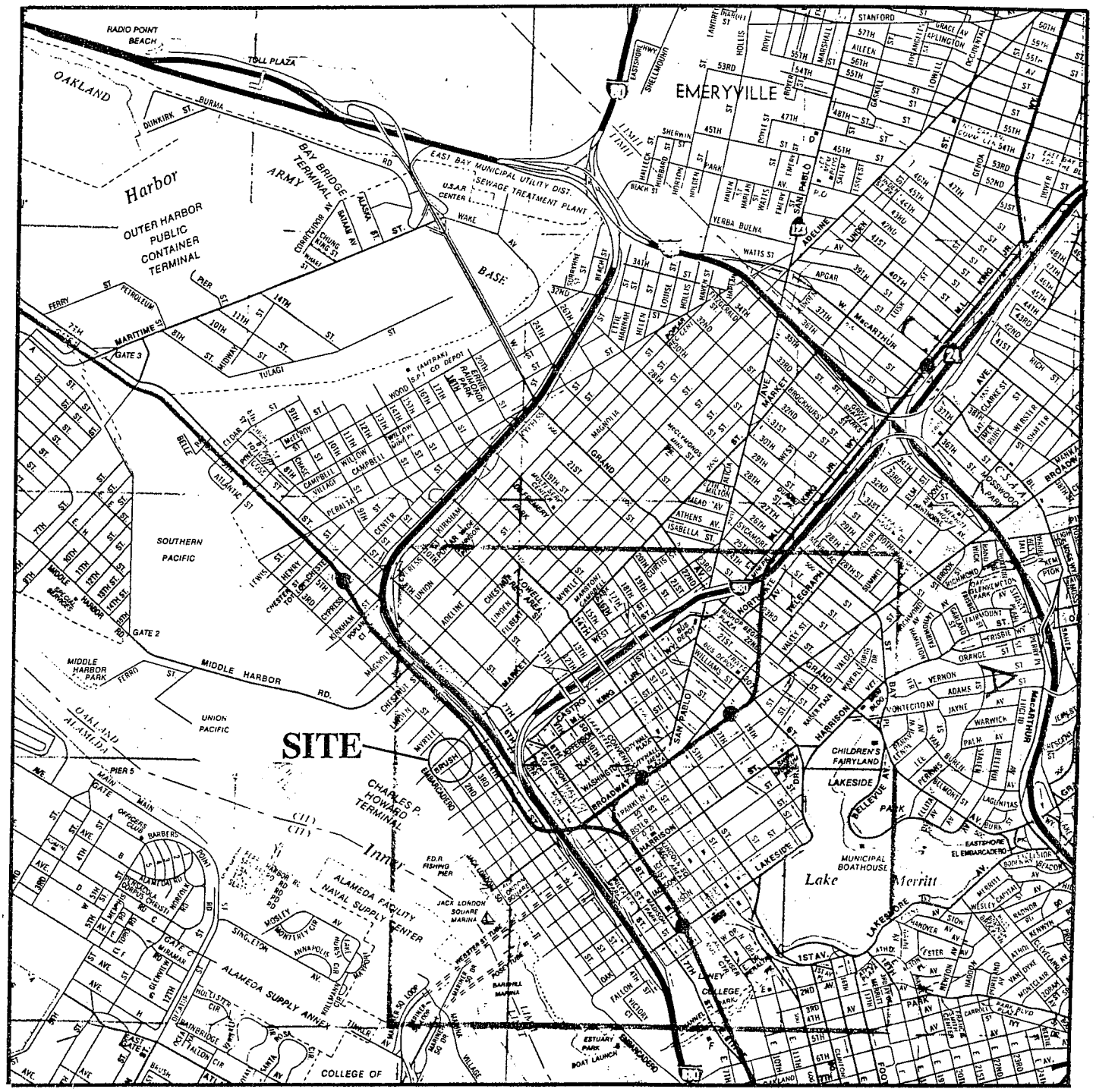
PORT Tank ID	Size	Manufacturer and Construction Material	Date Installed	Substances Stored	Monitoring Alternative	Leak Detection Equipment	Backup System
EF15	10,000 gallons	Joor Glassteel, Double-walled	1987	Unleaded gasoline	Electronic sensor monitoring	Universal Leak Alert System	Veedor-Root TLS-250 Inventory Reconciliation
EF16	1,000 gallons	Joor Glassteel, Double-walled	1987	#2 diesel	Electronic sensor monitoring	Universal Leak Alert System	Veedor-Root TLS-250 Inventory Reconciliation

IV. MONITORING PLAN

The underground storage tank monitoring program consists of continuous electronic sensor monitoring of the space between the primary and secondary containers by a Universal Leak Alert System. A control and alarm (visual and audible) panel is located in Building E-413 (see Figure 2). In the event of an alarm in the Leak Alert System, the UST Supervisor will investigate the cause and will notify Michele Heffes of the Environmental Compliance Section and Ed Lubrin, Harbor Facilities Supervisor Engineer.

REGIONAL LOCATION

Figure 1

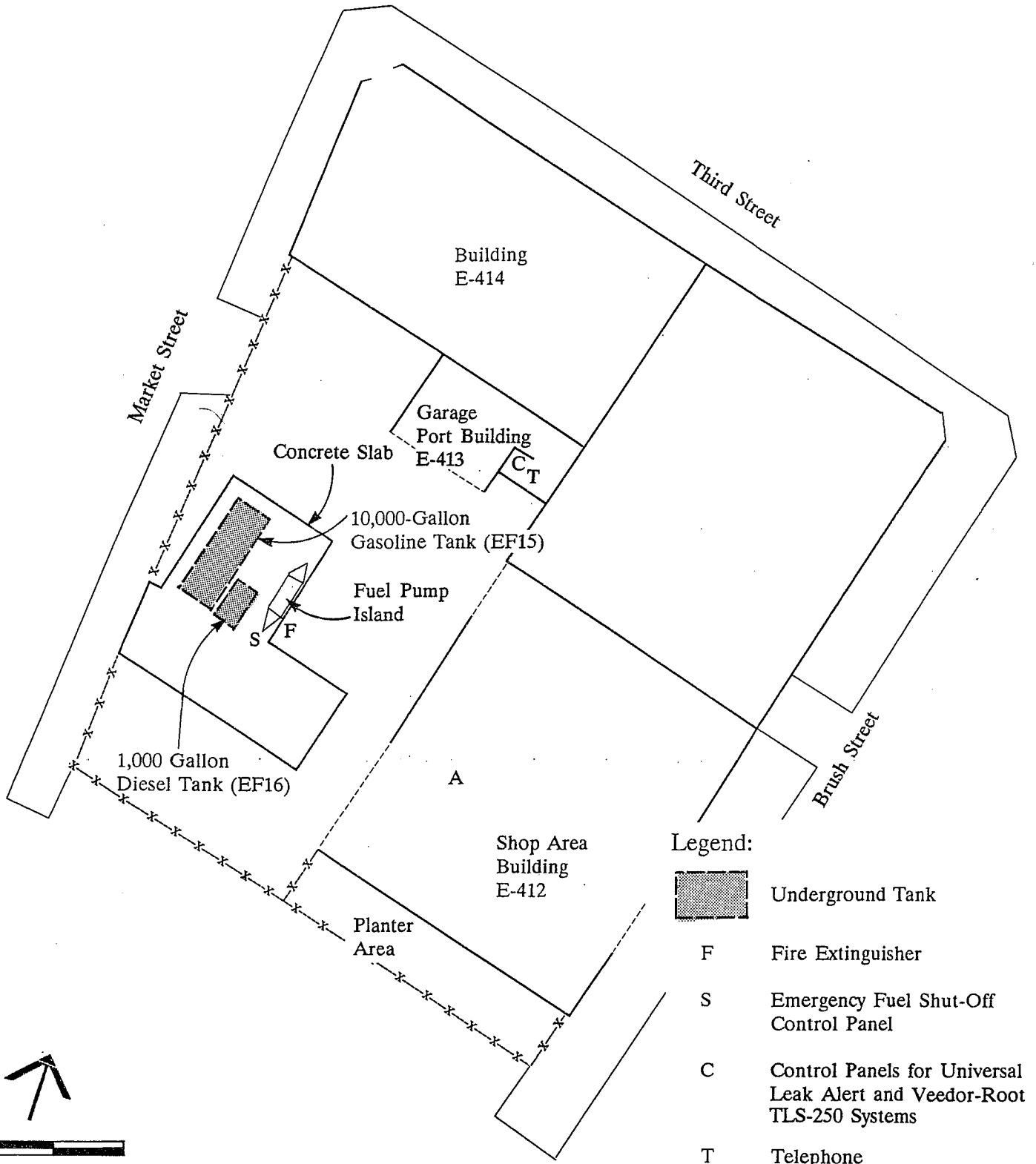


209 Brush Street
Oakland, California

BASELINE

SITE LOCATION
209 Brush Street
Oakland, California

Figure 2



Source: Port of Oakland, 1989

BASELINE

For a backup leak detection system, Veedor-Root TLS-250 inventory electronic probes provide in-tank leak detection monitoring and tank testing to identify losses as small as 0.2 gallon per hour on a routine basis. A TLS-250 control panel is located in Building E-413. The monitoring device will be checked daily for proper functioning. All electronic and/or mechanical devices will be tested annually and all faulty equipment will be replaced as needed.

V. SPILL PREVENTION PLAN

To minimize the possibility of a spill, the following procedures will be followed:

During product delivery:

- Deliver fuel during daylight working hours whenever possible.
- Gauge tanks before delivery to ascertain whether there is sufficient capacity for the load.
- Assign one employee to gauge tanks and to order fuel.
- Request the truck driver to gauge tanks prior to unloading fuel from the truck and to remain in attendance during the delivery.
- Inspect the tank area before and after each delivery for any sign of a spill.

On a routine basis:

- Lock all tank openings at all times except for gauging and filling activities.
- Tag tanks with product and capacity information.
- Periodically inspect visible pipelines for signs of wear and leakage.
- Cap or flange all unused fuel lines.
- Promptly remove any significant accumulation of water.
- Restrict site access and light tank area in the evenings where possible.
- Allow only authorized personnel access to starter controls on fuel pumps.

VI. EMERGENCY RESPONSE PLAN

EMERGENCY CONTACTS

Harbor Facilities Section:

- Ed Lubrin, Harbor Facilities Supervisor Engineer — Day: (415) 444-3188 Ext. #420; Beeper: (415) 484-2363

UST Supervisor:

- Homer Hoglund, PORT Equipment Supervisor — Day: (415) 577-4045, Evening: (415) 223-8847

Oil Spill Response Coordination:

- Michele Heffes, PORT Environmental Compliance Section — Day: (415) 272-1178, Evening: (415) 655-5493

EMERGENCY EQUIPMENT

Emergency equipment is listed below; and Figure 2 identifies the location of the equipment.

Emergency Equipment[1]	Location
Power Supply: Emergency Fuel Shut-Off Control Panel (S)	South End of Fuel Pump Island
Telephone(s) (T)	Inside Building E-413
Absorbent Material Storage (A)	Inside Shop Area, Tool Storage Section, Building E-412
Fire Extinguisher (F)	South End of Fuel Pump Island
Universal Leak Alert Control Panel (C)	Inside Building E-413
Veedor-Root TLS-250 Control Panel (C)	Inside Building E-413

[1] Letter in parentheses indicates symbol used to depict location in Figure 2.

NOTIFICATION OF REGULATORY AGENCIES

In case of an imminent fire and explosion hazard or a major spill, the Harbor Facilities Supervisor Engineer or Environmental Compliance will notify the following agencies as deemed necessary and appropriate:

- City of Oakland Fire Department — 911
- National Oil Spill Resource Center — (800) 424-8802
- California Department of Emergency Services — (800) 852-7550
- Alameda County Department of Environmental Health — (415) 271-4320
- City of Oakland Police Department — 911
- Bay Area Air Quality Management District — (415) 771-6000

The Oakland Fire Department, National Oil Spill Response Center, and California Department of Emergency Services will be notified as soon as possible. The remaining agencies will be notified by Environmental Compliance as soon as practicable. Information to be reported to the agencies include the following:

- Time of spill or time first observed.
- Source of spill, if known.
- Type of product spilled.
- Estimate of amount spilled.
- On-scene weather conditions.
- Any known fire or health hazards posed by the spill.
- Movement of spill material.
- Action being taken to contain and clean up the spill.
- Factual information requested by the agency contacted (no unsubstantiated information should be supplied regarding the potential impacts of the spill).

All telephone calls and contacts will be recorded on a Spill Notification Log Form (Appendix I). All recordable leak and spill records will be maintained on the site and at the Environmental Compliance Section of the PORT (530 Water Street, Oakland).

SPILL CATEGORIES

- *Imminent fire and explosion hazard* is defined as a fuel spill that presents an immediate and real fire and explosion danger. Examples include incidents, involving a ruptured pressure product line or overturned tanker.
- *Major spill* is defined as a fuel spill that is difficult to control or clean up but does not present an imminent fire and explosion hazard. This includes incidents involving a leaking underground storage tank, leaking pipelines, or fuel leaks into the subsurface environment.
- *Minor spill* is defined as a fuel spill that can be contained or cleaned up easily and there is no imminent fire and explosion hazard (generally less than one gallon). Some examples are:

  - Overfilling from dispenser nozzle;
  - Overfilling during fuel delivery;
  - Spillage from fuel filter;
  - Holes or loose joints in vent line;
  - Spill from primary into secondary container.

PROCEDURES IN THE EVENT OF A MAJOR SPILL

- Notify UST Supervisor.
- Shut off fuel source if safe to do so.
- Notify Michele Heffes of Environmental Compliance.
  - Environmental Compliance will call local, state, and federal agencies.
- If Environmental Compliance cannot be contacted, UST Supervisor must call local, state, and federal agencies.
  - Complete Spill Notification Log Form and give to Environmental Compliance.
- Contact private spill contractor (contacted by UST Supervisor and/or Environmental Compliance) to clean up spill.
- Record incident in Operator's Monitoring Incident Report Form.
- Environmental Compliance will complete and submit an Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report, an Operator's Monitoring Incident Report Form, and a Spill Notification Log Form to Alameda County Department of Environmental Health.
- Critique incident (with Environmental Compliance).

PROCEDURES IN THE EVENT OF A MINOR SPILL

- Notify UST Supervisor.
- Notify Michele Heffes of Environmental Compliance.
- Clean up spill using absorbent material.
- Used absorbent material must be stored in labeled, DOT-approved containers and disposed of as hazardous waste under direction of Environmental Compliance.
- Record incident in Operator's Monitoring Incident Report Form.

PROCEDURES IN THE EVENT OF AN IMMINENT FIRE AND EXPLOSION HAZARD

- Call Aircraft Rescue and Fire Fighting at (415) 577-4080
- Shut off power to dispenser and pumps if safe to do so.
- Eliminate ignition sources.
- Notify Airport Facilities Supervisor Engineer.
- Notify the UST Supervisor.

- Notify Michele Heffes of Environmental Compliance.
  - Environmental Compliance will call local, state, and federal agencies.
- If Environmental Compliance cannot be contacted, the Airport Facilities Supervisor Engineer must call local, state, and federal agencies.
  - Complete Spill Notification Log Form and give to Environmental Compliance.
- Contact private spill contractor to clean up spill.
- Record incident in Operator's Monitoring Incident Report Form.
- Environmental Compliance will complete and/or submit an Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report, an Operator's Monitoring Incident Report Form, and a Spill Notification Log Form to Alameda County Department of Environmental Health.
- Critique incident (with Environmental Compliance).

VII. RECORDKEEPING

The UST Supervisor will be responsible for maintaining all UST records. These records shall be kept for a minimum of three (3) years. Upon request, these records will be made available to the Alameda County Department of Environmental Health.

The following recording forms will be completed at the specified frequency:

Reporting Form	Frequency
• Leak Alert Monitoring Sheet (Appendix E)	Daily
• Delivery Recording Sheet (Appendix F)	Delivery dates
• Operator's Monitoring Incident Report Form (Appendix G)	All spill incidents
• UST Unauthorized Release (Leak)/Contamination Site Report Form (Appendix H)	Unauthorized releases that cannot be cleaned up within 8 hours (major spill)
• Spill Notification Log Form (Appendix I)	All major spills

VIII. PERSONNEL TRAINING

Site personnel responsible for operation of the underground tanks will receive annual training in the proper operation and maintenance of equipment to prevent and detect unauthorized discharges. Training will include the following:

- Regulatory Framework
- UST Monitoring Plan
- Spill Prevention Plan
- Emergency Response Plan
- Recordkeeping

IX. STATEMENT OF POLICY

It is the policy of the PORT of Oakland to take such action as necessary to prevent the accidental release of hydrocarbon products into the environment. In the event an accidental release occurs, the effect of such a release is to be mitigated using equipment and techniques that are available and practical for such use and in cooperation with appropriate regulatory agencies whenever possible.

This information is true and correct to the best of our knowledge. If there is any change which would materially affect this Plan, we will apply for an appropriate amendment.

Concur: James McGrath — Signature — 5-18-90 — Date

Approved: [signature] — Signature — 5/18/90 — Date

APPENDIX A

FORM A

FACILITY/SITE INFORMATION AND/OR PERMIT APPLICATION
(IN POCKET)

APPENDIX B

FORM B

TANK PERMIT APPLICATION INFORMATION
(IN POCKET)

APPENDIX C

MATERIAL SAFETY DATA SHEET FOR UNLEADED PREMIUM GRADE GASOLINE

MATERIAL SAFETY DATA SHEET

CORPORATE RESEARCH & DEVELOPMENT

SCHENECTADY, N. Y. 12305

MATERIALS INFORMATION SERVICES

No. 467

AUTOMOTIVE GASOLINE, LEAD-FREE

Date October 1981

SECTION I. MATERIAL IDENTIFICATION

MATERIAL NAME: AUTOMOTIVE GASOLINE, LEAD-FREE
DESCRIPTION: A volatile blend of hydrocarbons for automotive fuel
OTHER DESIGNATIONS: Petrol, CAS #008 006 619, ASTM D439
MANUFACTURER: Available from several suppliers.

SECTION II. INGREDIENTS AND HAZARDS	%	HAZARD DATA
Gasoline A hydrocarbon blend that can include normal and branched chain alkanes, cycloalkanes, alkenes, aromatics and other additives.** (Lead max 0.013 g/L, phosphorus max 0.0013 g/L, sulfur max 0.10 wt%. May contain benzene, <5%; see ASTM D3606). *ACGIH 1981 TLV (Intended Changes List). See also Am. Ind. Hyg. A. 39 110-117 (1978) **The composition of fuel is varied with altitude and seasonal requirements for a locality. The blend must meet antiknock requirements. (Antiknock Index min 85, ASTM D439.)	100	8-hr TWA 300 ppm or 900 mg/m^3* Man Eye: 500 ppm/1H Moderate irritation Inhalation: TCLo 900 ppm/1H TFX:CNS

SECTION III. PHYSICAL DATA

Distillation at 1 atm, Initial, deg C >39
50% distilled - 77-121
End point ----- <240
Vapor density (Air=1) ---------- 3.0-4.0
Solubility in water ---------- Insoluble

Specific gravity, 60/60 F - 0.72-0.76
Melting point, deg C ------ -90.5-95.4
Evaporation rate --------- N/A

Appearance and Odor: A clear, mobile liquid with a characteristic odor which can be recognized at about 10 ppm in air. (Gasoline may be colored with dye.)

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air % by volume	LOWER	UPPER
-45 F	536-853 F		1.4	7.6

Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam. Use of water may be ineffective to extinguish fire, but use water spray for cooling fire-exposed drums and tanks to prevent pressure rupture. It is a dangerous fire and explosion hazard when exposed to heat and flames. Vapors can flow along surfaces, reach distant ignition sources and flash back. Can react violently with oxidizing agents.
Firefighters should wear self-contained breathing apparatus and full protective clothing.

SECTION V. REACTIVITY DATA

This is a stable material in closed containers at room temperature under normal storage and handling conditions. It does not undergo hazardous polymerization.
This is an OSHA Class IA flammable liquid. A mixture of gasoline vapors and air can be explosive. It is incompatible with oxidizing agents.
Thermal-oxidative degradation can yield carbon monoxide and partially oxidized hydrocarbons.

SECTION VI. HEALTH HAZARD INFORMATION

TLV 300 ppm (See Sect. II)

Inhalation causes intense burning of the mucous membranes, throat and respiratory tract; overexposure to vapors can lead to bronchopneumonia. Inhalation of high conc. can cause fatal pulmonary edema. Repeated or prolonged skin exposure causes dermatitis. Can cause blistering of skin due to its defatting properties. Exposure to eyes can cause hyperemia of the conjunctiva.

Ingestion or excessive vapors can cause inebriation, drowsiness, blurred vision, vertigo, confusion, vomiting and cyanosis (2000 ppm produces mild anesthesia in 30 min, higher conc. are intoxicating in less time.) Aspiration after ingestion causes bronchitis, pneumonia, or edema which can be fatal.

FIRST AID:

Eye Contact: Flush thoroughly with running water for 15 min. including under eyelids.

Skin Contact: Remove contaminated clothing. Wash affected area with soap and water.

Inhalation: Remove to fresh air. Restore breathing and administer oxygen if needed.

Ingestion: Do not induce vomiting. Aspiration hazard. Contact physician.

Seek prompt medical assistance for further treatment, observation and support.

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Notify safety personnel of leaks or spills. Remove sources of heat or ignition. Provide adequate ventilation. Clean-up personnel require protection against liquid contact and vapor inhalation. If a leak or spill has not ignited, use water spray to disperse vapors and to protect men attempting to stop the leakage. Contain spill. Do not allow to enter sewer or surface water. Add absorbent solid to small spills or residues and pick up for disposal.

DISPOSAL: Burn scrap material in an approved incinerator. Burn contaminated liquid by spraying into an incinerator. Follow Federal, State, and Local regulations.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Use general and local exhaust ventilation (explosion-proof) to keep vapors below the TLV requirements in the workplace. Respirators should be available for nonroutine or emergency use above the TLV.

Avoid eye contact by use of chemical safety goggles and/or full faceshield where splashing is possible. Wear protective clothing appropriate for the work situation to minimize skin contact such as rubber gloves and boots. Clothing to be changed daily and laundered.

Eyewash fountains, showers and washing facilities should be readily accessible

Provide suitable training to those handling and working with this material.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Store in closed containers in a cool, dry, well-ventilated area away from sources of heat, ignition and strong oxidizing agents. Protect containers from physical damage. Avoid direct sunlight. Storage must meet requirements of OSHA Class IA liquid.

Outdoor or detached storage preferred. No smoking in areas of use. Prevent static electric sparks and use explosion-proof electrical services. (Must meet code.)

Avoid skin and eye contact. Avoid inhalation of vapors. Wear clean work clothing daily.

Indoor use of this material requires exhaust ventilation to remove vapors.

ICC Flammable Liquid, Red Label. LABEL: Flammable Liquid DOT I.D. No. UN 1203.

DOT Classification: FLAMMABLE LIQUID

DATA SOURCE(S) CODE: 2,4-9,34,37

APPROVALS: MIS CRD J. M. Quinn

Industrial Hygiene and Safety 10-29-81

MEDICAL REVIEW: 14 November 1981

APPENDIX D

MATERIAL SAFETY DATA SHEET FOR DIESEL FUEL