DATE 8/1/92

CONTACT LOG

FROM: Juliet Shin AFFILIATION: Alameda County

TITLE: PHONE:

TO: RICH HIETT AFFILIATION: RWQCB

TITLE: PHONE: 464-4359

RE: STID 3816 - Duffy Duer, 1700 Webster St, Alameda.

Rich Hiett verified that Cynthia Chapman, who was previously overseeing the site for Alameda County, was planning to have the site closed. Mr. Hiett also feels that site can be closed. He suggested that I speak to Cynthia Chapman at (510) 287-1627.

Mr. Hiett was suprised that closure request letter was not written by Cynthia C.

Although ~~verification~~ initial samples were only analyzed for lighter hydrocarbons and not for $C_{12}-C_{22}$, lighter hydrocarbons are usually what indicates the presence of the heavier hydrocarbons.

DATE 4/1/92

CONTACT LOG

FROM: Cynthia Chapman AFFILIATION: EBMUD

TITLE: PHONE:

TO: Juliet Shin AFFILIATION: Alameda County

TITLE: PHONE:

RE: STID 3816

Yes, the site was intended to be recommended for closure by Cynthia Chapman. Rich Hiett also approved, at the meeting, that recommendations should be made for closure.

DATE: 2/24/92

TO : **Local Oversight Program**

FROM: JEFF

SUBJ: **Transfer of Elligible Oversight Case**

Site name: Ogden Service Corporation

Address: 1700 Webster City Alameda Zip 94501

Closure plan attached? (Y) N DepRef remaining $_____

DepRef Project # 4038 STID #(if any) ~~4038~~ 3816

Number of Tanks: 1 removed? (Y) N Date of removal 4/18/91

Leak Report filed? (Y) N Date of Discovery 4/18/91

Samples received? (Y) N Contamination: Yes

Petroleum (Y) N Types: Avgas Jet leaded unleaded Diesel
fuel oil (waste oil) kerosene solvents

Monitoring wells on site None Monitoring schedule? Y (N)

Briefly describe the following:

Preliminary Assessment ND

Remedial Action Excavation of Soil

Post Remedial Action Monitoring _____

Enforcement Action _____

Comments: Cindy's notes Recommend closure of this case. The results verify Her Conclusion.

593. Phosphorus (amorphous, red) (T,F,R)
594. *Phosphorus (white or yellow) (T,F,R)
595. *Phosphorus oxybromide, Phosphoryl bromide (T,C,R)
596. *Phosphorus oxychloride, Phosphoryl chloride (T,C,R)
597. *Phosphorus pentachloride, Phosphoric chloride (T,C,F,R)
598. *Phosphorus pentasulfide, Phosphoric sulfide (T,C,F,R)
599. *Phosphorus sesquisulfide, Tetraphosphorus trisulfide (T,C,F,R)
600. *Phosphorus tribromide (T,C,R)
601. *Phosphorus trichloride (T,C,R)
602. Picramide, Trinitroaniline (T,R)
603. Picric acid, Trinitrophenol (T,R)
604. Picryl chloride, 2-Chloro-1,3,5-trinitrobenzene (T,R)
605. *Platinum compounds (T)
606. *Polychlorinated biphenyls, PCB, Askarel, AROCLOR, CHLOREXTOL, INERTEEN, PYRANOL (T)
607. Polyvinyl nitrate (F,R)
608. POTASAN; O,O-Diethyl-O-(4-methylumbelliferone) phosphorothioate (T)
609. *Potassium (C,F,R)
610. *Potassium arsenate (T)
611. *Potassium arsenite (T)
612. *Potassium bifluoride, Potassium acid fluoride (T,C)
613. Potassium binoxalate, Potassium acid oxalate (T)
614. Potassium bromate (T,F)
615. *Potassium cyanide (T)
616. Potassium dichloroisocyanurate (T,F)
617. Potassium dichromate, Potassium bichromate (T,C,F)
619. Potassium fluoride (T)
620.* Potassium hydride (C,F,R)
621. *Potassium hydroxide, Caustic potash* (T,C)
622. Potassium nitrate, Saltpeter (F,R)
623. Potassium nitrite (F,R)
624. Potassium oxalate (T)
625. Potassium perchlorate (T,F,R)
626. Potassium permanganate (T,C,F)
627. Potassium peroxide (C,F,R)
628. Potassium sulfide (T,F)
629. *Propargyl bromide, 3-Bromo-1-propyne (T,F)
630. *beta-Propiolactone, BPL (T)
631. Propionaldehyde, Propanal (T,F)
632. Propionic acid, Propanoic acid (T,C,F)
633. n-Propyl acetate (T,F)
634. n-Propyl alcohol, 1-Propanol (T,F)
635. n-Propylamine (and isomers) (T,F)
636. *Propyleneimine, 2-Methylaziridine (T,F)
637. Propylene oxide (T,F)
638. n-Propyl formate (T,F)
639. n-Propyl mercaptan, 1-Propanethiol (T,F)

640. *n-Propyltrichlorosilane (T,C,F,R)
641. *Prothoate, FOSTION, FAC; O,O-Diethyl-S-carboethoxyethyl phosphorodithioate (T)
642. Pyridine (T,F)
643. *Pyrosulfuryl chloride, Disulfuryl chloride (T,C,R)
644. *Quinone; 1,4-Benzoquinone (T)
645. Raney nickel (F)
646 *Schradan, Octamethyl pyrophosphoramide, OMPA (T)
647A. *Selenium (T)
647B. *Selenium compounds (T)
648. *Selenium fluoride (T)
649. *Selenous acid, Selenious acid and salts (T)
650. *Silicon tetrachloride, Silicon chloride (T,C,R)
651. *Silver acetylide (T,R)
652. Silver azide (T,R)
653. Silver compounds (T)
654. Silver nitrate (T)
655. Silver styphnate, Silver trinitroresorcinate (T,R)
656. Silver tetrazene (T,R)
657. *Sodium (C,F,R)
658. Sodium aluminate (C)
659. *Sodium aluminum hydride (C,F,R)
660. *Sodium amide, Sodamide (C,F,R)
661. *Sodium arsenate (T)
662. *Sodium arsenite (T)
663. Sodium azide (T,R)
664. *Sodium bifluoride, Sodium acid fluoride (T,C)
665. Sodium bromate (T,F)
666. *Sodium cacodylate, Sodium dimethylarsenate (T)
667. Sodium carbonate peroxide (F)
668 *Sodium chlorate (T,F)*
669. Sodium chlorite (T,F)
670. Sodium chromate (T,C)
671. *Sodium cyanide (T)
672. Sodium dichloroisocyanurate (F)
673. Sodium dichromate, Sodium bichromate (T,C,F)
674. Sodium fluoride (T)
675. *Sodium hydride (T,C,F,R)
676. Sodium hydrosulfite, Sodium hyposulfite (F)
677. Sodium hydroxide, Caustic soda, Lye (T,C)
678. *Sodium hypochlorite (T,F,R)
679. *Sodium methylate, Sodium methoxide (C,F,R)
680. Sodium molybdate (T)
681. Sodium nitrate, Soda niter (T,F,R)
682. Sodium nitrite (T,F,R)
683. Sodium oxide, Sodium monoxide (T,C)
684. Sodium perchlorate (T,F,R)
685. Sodium *permanganate (T,F)*
686. *Sodium peroxide (T,F,R)

687. Sodium picramate (T,F,R)
688. *Sodium potassium alloy, NaK,Nack (C,F,R)
689. *Sodium selenate (T)
690. *Sodium sulfide, Sodium hydrosulfide (T,F)*
691. Sodium thiocyanate, Sodium sulfocyanate (T)
692. Stannic chloride, Tin tetrachloride (T,C)
693. *Strontium arsenate (T)
694. Strontium nitrate (T,F,R)
695. Strontium peroxide, Strontium dioxide (F,R)
696. *Strychnine and salts (T)
697. Styrene, Vinylbenzene (T,F)
698. Succinic acid peroxide (T,F)
699. *Sulfide salts (soluble) (T)*
700. *Sulfotepp, DITHIONE, BLADAFUM, Tetraethyl dithiopyrophosphate, TEDP (T)
701. *Sulfur chloride, Sulfur monochloride (T,C,R)
702. *Sulfur mustard (T,C,R)
703. *Sulfur pentafluoride (T,C)
704. Sulfur trioxide, Sulfuric anhydride (T,C,F)
705. Sulfuric acid, Oil of vitriol, Battery acid (T,C)
706. Sulfurous acid (T,C)
707. *Sulfuryl chloride, Sulfonyl chloride (T,C,R)
708. *Sulfuryl fluoride, Sulfonyl fluoride (T,C,R)
709. *SUPRACIDE, ULTRACIDE, S [(5-Methoxy-2-oxo-1,3,4-thiadiazol-3(2H)-yl) methyl] -O,O-dimethyl phosphorodithioate (T)
710. *SURECIDE, Cyanophenphos, O-para-Cyanophenyl-O-ethyl phenyl phosphonothioate (T)
711. *Tellurium hexafluoride (T,C)
712. *TELODRIN, Isobenzan; 1,3,4,5,6,7,8,8-Octachloro-1,3,3a,4,7,7a-hexahydro-4,7-methanoisobenzofuran (T)
713. *TEMIK, Aldicarb, 2 Methyl-2(methylthio) propionaldehyde-O-(methylcarbamoyl) oxime (T)
714. *2,3,7,8-Tetrachlorodibenzo-para-dioxin, TCDD, Dioxin (T)
715. sym-Tetrachloroethane (T)
717. *Tetraethyl lead, TEL (and other organic lead) (T,F)
718 *Tetraethyl pyrophosphate, TEPP (T)
719A. Tetrahydrofuran, THF (T,F)
719B. Tetrahydrophthalic anhydride, Memtetrahydrophthalic anhydride (T)
720. TETRALIN, Tetrahydronaphthalene (T)
721. Tetramethyl lead, TML (T,F)
722. *Tetramethyl succinonitrile (T)
723. *Tetranitromethane (T,F,R)
724. *Tetrasul, ANIMERT V-101, S-para-Chlorophenyl-2,4,5-trichlorophenyl sulfide (T)
725. Tetrazene, 4-Amidino-1-(nitrosamino-amidino)-1-tetrazene (T,R)
726. *Thallium (T)
727. *Thallium compounds (T)
728. *Thallous sulfate, Thallium sulfate, RATOX (T)

Victor Weisberg

ERCE

ERC Environmental and
Energy Services Co., Inc.

221 Main Street, Suite 1400
San Francisco, CA 94105
415-227-4370
Fax 415-227-4376

91 AUG -7 PM 2:21

August 6, 1991

Mr. Edgar B. Howell III, Chief
Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, California 94621

Subject: Project #4038A - R, 1700 Webster Street, Alameda, California

Dear Mr. Howell:

In response to your letter to Ogden Services Corporation dated July 30, a check for $670.00 is enclosed to cover the cost of the County's review of an UST closure report previously submitted for the subject site. I hope that further review time by the County will allow the timely and efficient clean closure of a 550-gallon waste oil UST formerly located at the site. We would appreciate your review of the project at this time.

There have been mixed directives from the County regarding the requirements for clean closure at this facility. The UST was removed on April 18 and soil samples were collected from the base of the excavation. Representatives from the Alameda County Department of Environmental Health, the City of Alameda Fire Department, and the City of Alameda Public Works Department were onsite and approved UST closure procedures. Laboratory results from a soil sample collected immediately beneath the UST at a depth of 6 feet yielded 18,700 mg/kg of oil and grease (EPA method 413.2).

On June 27, 1991, prior to the removal of contaminated soil, I contacted Ms. Catherine Chesick, the County caseworker at that time, to determine the requirements for clean closure. A copy of this record of conversation is attached. She indicated that soils with detectable oil and grease should be removed. She also stated that the County could not provide direct oversight during remediation operations. She requested that verification soil samples be collected after contaminated soils were excavated. She requested documentation of UST removal and remediation activities activities in a formal report. In addition, she requested that a previous geophysical report and a Phase 1 Site Assessment report be submitted to the County. These reports were submitted to the County in one volume on July 22.

On July 25, Ms. Cynthia Chapman contacted me to inform me she had reviewed the UST closure report and inquired why a ground-water monitoring well was not installed at the site. A copy of this record of conversation is attached. I told her that during my June 27 conversation with Ms. Chesick no mention was made of the need for a ground-water monitoring well. She stated that the RWQCB requires ground-water sampling if oil and grease concentrations in soil are higher than 100 mg/kg. I gave her my professional opinion that there is little to no risk of ground-water contamination since TPH concentrations in soil samples collected in the side walls of the

excavation and one sample from the base of the excavation at a depth of 8 feet were below laboratory detection limits (10 mg/kg). There was no visual evidence of waste oil in soils at the bottom of the excavation. The soil is clayey and the contaminant of concern, waste oil, is not mobile in low permeability soils. Ground water was not observed in the UST excavation nor in five boreholes advanced to a depth of 10 feet by another consultant. TPH was not detected in soils from these five boreholes. In addition, shallow ground water in Alameda is generally considered non-potable due to its TDS concentration and proximity to San Francisco Bay.

I contacted Mr. Rich Hyatt of the RWQCB today to determine the requirement for the installation of monitoring wells at UST sites. He said the requirement is site specific and depends on the contaminant of concern, the proximity to potable ground water, and the routes of migration. In addition, he said the verification soil sample should have been collected two feet below the UST in native soils. The sample that yielded 18,700 mg/kg of oil and grease was collected from immediately below the UST (5 to 6 feet below ground surface). Soil samples collected after soil remediation operations were from two feet below the UST (8 feet below ground surface). As stated previously, TPH was not detected in these samples.

This property is presently in escrow and the present owner is under severe time constraints to obtain clean closure status. ERCE has worked closely with the County to meet the stated clean closure requirements. At present, a ground-water monitoring well has been verbally requested by the County. Given the low probability of risk to ground-water quality due to removal of the contaminant source from the site, we professionally disagree with this requirement. We request that you intervene to reconcile conflicting directions from Department of Environmental Health caseworkers. Please call me if I may be of further assistance.

Very truly yours,

Tim Cook

Tim Cook, CEG
Project Manager

TDC/lg

Attachments (3)

cc: Mr. Victor Weisberg, Ogden Services Corp.

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

REPORT DATE: 05 08 91

CASE #:

FOR LOCAL AGENCY USE ONLY

I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.

SIGNED: Katherine Chesick DATE: 5/14/91

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: Tim Cook

PHONE: (415) 227-4370

SIGNATURE: Tim Cook

REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER

COMPANY OR AGENCY NAME: ERCE for Ogden Services Corp

ADDRESS: 221 Main St (STREET) Ste 1400 San Francisco (CITY) CA (STATE) 94105 (ZIP)

RESPONSIBLE PARTY

NAME: Ogden Services Corp ☐ UNKNOWN

CONTACT PERSON: Vic Wiesberg

PHONE: (212) 868-5412

ADDRESS: Facilities & Planning Services, Two Pennsylvania Plaza (STREET) New York, (CITY) NY (STATE) 10121 (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Duffy Diner

OPERATOR: Dave Duffy

PHONE: (415) 522-3889

ADDRESS: 1700 Webster St (STREET) Alameda (CITY) Alameda (COUNTY) (ZIP)

CROSS STREET: Pacific Ave

IMPLEMENTING AGENCIES

LOCAL AGENCY / AGENCY NAME: Alameda County Health Agency

CONTACT PERSON: Katherine Chesick

PHONE: (415) 271-4320

REGIONAL BOARD: San Francisco Bay

CONTACT PERSON: Lester Feldman

PHONE: (415) 464-1332

SUBSTANCES INVOLVED

(1) NAME: Oil & grease, Toluene, ethylbenzene, xylenes — QUANTITY LOST (GALLONS): ☐ UNKNOWN

(2) Tetrachloroethene — ☒ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 04 18 91

HOW DISCOVERED: ☐ TANK TEST ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☒ TANK REMOVAL ☐ OTHER

DATE DISCHARGE BEGAN: ☒ UNKNOWN

HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE 04 18 91

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)

☐ REMOVE CONTENTS ☒ CLOSE TANK & REMOVE ☐ REPAIR PIPING ☐ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☐ CHANGE PROCEDURE ☐ REPLACE TANK ☐ OTHER

SOURCE/CAUSE

SOURCE OF DISCHARGE: ☒ TANK LEAK ☐ UNKNOWN ☐ PIPING LEAK ☐ OTHER

CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☐ CORROSION ☒ UNKNOWN ☐ OTHER

CASE TYPE

CHECK ONE ONLY

☐ UNDETERMINED ☒ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS

CHECK ONE ONLY

☐ NO ACTION TAKEN ☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ POLLUTION CHARACTERIZATION
☐ LEAK BEING CONFIRMED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ POST CLEANUP MONITORING IN PROGRESS
☐ REMEDIATION PLAN ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☒ CLEANUP UNDERWAY

REMEDIAL ACTION

CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)

☒ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CAP SITE (CD) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ CONTAINMENT BARRIER (CB) ☐ NO ACTION REQUIRED (NA) ☐ TREATMENT AT HOOKUP (HU) ☐ VENT SOIL (VS)
☐ VACUUM EXTRACT (VE) ☐ OTHER (OT)

COMMENTS

HSC 05 (8/90)

3554

3816

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM.
SIGNED _____ DATE 5/14/91

REPORT DATE: 05 08 91 | CASE #:

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: Tim Cook | PHONE: (415) 227-4370 | SIGNATURE: Tim Cook

REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER _____ | COMPANY OR AGENCY NAME: ERCE for Ogden Services Corp

ADDRESS: 221 Main St (STREET) Ste 1400 | San Francisco (CITY) | CA (STATE) 94105 (ZIP)

RESPONSIBLE PARTY

NAME: Ogden Services Corp ☐ UNKNOWN | CONTACT PERSON: Vic Wiesberg | PHONE: (212) 868-541[illegible]

ADDRESS: Facilities Planning Services, Two Pennsylvania Plaza (STREET) | New York (CITY) | NY (STATE) 10121 (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Duffy Diner | OPERATOR: Dave Duffy ~1964 | PHONE: (415) 522-3884

ADDRESS: 1700 Webster St (STREET) | Alameda (CITY) | Alameda (COUNTY) 94501 (ZIP)

CROSS STREET: Pacific Ave

IMPLEMENTING AGENCIES

LOCAL AGENCY: Alameda County Health Agency | AGENCY NAME | CONTACT PERSON: Kriemhilde Chesick | PHONE: (415) 271-4320

REGIONAL BOARD: San Francisco Bay | Leslie Fellman | PHONE: (415) 464-1332

SUBSTANCES INVOLVED

(1) NAME: Oil & grease, Toluene, ethylbenzene, xylenes | QUANTITY LOST (GALLONS): _____ ☒ UNKNOWN

(2) Tetrachloroethene _____ ☒ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 04 1 18 91 | HOW DISCOVERED: ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☒ TANK REMOVAL ☐ OTHER _____

DATE DISCHARGE BEGAN: M M D D Y Y ☒ UNKNOWN

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☒ CLOSE TANK & REMOVE ☐ REPAIR PIPING ☐ REPAIR TANK ☐ CLOSE TANK & FILL IN PLACE ☐ CHANGE PROCEDURE ☐ REPLACE TANK ☐ OTHER _____

HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE 04 1 18 91

SOURCE/CAUSE

SOURCE OF DISCHARGE: ☒ TANK LEAK ☐ UNKNOWN ☐ PIPING LEAK ☐ OTHER

CAUSE(S): ☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☐ CORROSION ☒ UNKNOWN ☐ OTHER _____

CASE TYPE

CHECK ONE ONLY: ☐ UNDETERMINED ☒ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS

CHECK ONE ONLY:
☐ NO ACTION TAKEN ☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ POLLUTION CHARACTERIZATION
☐ LEAK BEING CONFIRMED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ POST CLEANUP MONITORING IN PROGRESS
☐ REMEDIATION PLAN ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☒ CLEANUP UNDERWAY

REMEDIAL ACTION

CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS):
☒ EXCAVATE & DISPOSE (ED) ☐ REMOVE FREE PRODUCT (FP) ☐ ENHANCED BIO DEGRADATION (IT)
☐ CAP SITE (CD) ☐ EXCAVATE & TREAT (ET) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ REPLACE SUPPLY (RS)
☐ CONTAINMENT BARRIER (CB) ☐ NO ACTION REQUIRED (NA) ☐ TREATMENT AT HOOKUP (HU) ☐ VENT SOIL (VS)
☐ VACUUM EXTRACT (VE) ☐ OTHER (OT) _____

COMMENTS

HSC 05 (8/90)

WATER RESOURCES CONTROL BOARD
DIVISION OF WATER QUALITY - UST CLEANUP PROGRAM
SITE SPECIFIC QUARTERLY REPORT
01/01/92 THROUGH 03/31/92

AGENCY # : 10000 SOURCE OF FUNDS: F SUBSTANCE: 12035
StID : 3816
SITE NAME: Ogden Service Corporation DATE REPORTED : 04/18/91
ADDRESS : 1700 Webster St. DATE CONFIRMED: 04/18/91
CITY/ZIP : Alameda 94501 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: S CONTRACT STATUS: 4 EMERGENCY RESP:
RP SEARCH: S DATE COMPLETED:
PRELIMINARY ASMNT: DATE UNDERWAY: DATE COMPLETED:
REM INVESTIGATION: DATE UNDERWAY: DATE COMPLETED:
REMEDIAL ACTION: DATE UNDERWAY: DATE COMPLETED:
POST REMED ACT MON: DATE UNDERWAY: DATE COMPLETED:

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 03/23/92
LUFT FIELD MANUAL CONSID: 2,H,S,C,A
CASE CLOSED: C DATE CASE CLOSED:
DATE EXCAVATION STARTED : 04/18/91 REMEDIAL ACTIONS TAKEN: ED

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Victor Weisberg
COMPANY NAME: Ogden Services Corp
ADDRESS: 2 Penn Plaza
CITY/STATE: New York, N Y 10121

all annotations in red must be followed as conditions of permit acceptance

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction.

[illegible] accepted plans must be on the job and [illegible] to all contractors and craftsmen involved with [illegible] removal.

[illegible] alterations of these plans and specifications [illegible] submitted to this Department and to the Fire and [illegible] Department to determine if such [illegible] meet the requirements of State and local laws.

[illegible] Department at least 48 hours prior to the following required inspections:

✓ Removal of Tank and Piping
✓ Sampling
✓ Final Inspection

[illegible] of a permit to operate is dependent on compliance with accepted plans and all applicable laws and [illegible]

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

Katherine Chesick 3/13/91

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 415/271-4320

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. **Business Name** Ogden Service Corporation

   Business Owner Same

2. **Site Address** 1700 Webster St.

   City Alameda **Zip** 94501 **Phone** 212 868-5412 none

3. **Mailing Address** Facilities and Planning Services Two Pennsylvania Plaza

   City New York, New York **Zip** 10121 **Phone** ______

4. **Land Owner** Same as Above

   Address ______ **City, State** ______ **Zip** ______

5. **EPA I.D. No.** CAC000565568

6. **Contractor** Placer Tractor Service

   Address P.O. Box 170

   City Loomis, CA 95650 **Phone** 916 652-5535

   License Type A **ID#** 68-0022375

7. **Consultant** E.R.C.E.

   Address 210 Spars Street, Suite 1660

   City San Francisco, CA 94105 **Phone** 415 227-4376

Project # US92338

Fee Paid $432.00

Date 2/27/91

8. **Contact Person for Investigation**

Name Al Oesterling of Placer Tractor **Title** Supervisor

Phone 916-652-5535

9. **Total No. of Tanks at facility** 1

10. **Have permit applications for all tanks been submitted to this office?** Yes [ ] No [X]

11. **State Registered Hazardous Waste Transporters/Facilities**

a) **Product/Waste Tranporter**

OK

Name Evergreen Environmental **EPA I.D. No.** CAD980695761

Address 6880 Smith Avenue

City Newark **State** CA **Zip** 94560

OK

b) **Rinsate Transporter**

Name Placer Tractor Service **EPA I.D. No.** CAD 982040206

Address P.O. Box 170

City Loomis **State** CA **Zip** 95650

OK

c) **Tank Transporter**

Name Placer Tractor Service **EPA I.D. No.** CAD 982040206

Address P.O. Box 170

City Loomis **State** CA **Zip** 95650

OK

d) **Tank Disposal Site**

Name Erickson Inc. **EPA I.D. No.** CA

Address 255 Parr Blvd, Richmond, CA 94801

City Richmond **State** CA **Zip** 94801

OK

e) **Contaminated Soil Transporter**

Name Placer Tractor Service **EPA I.D. No.** CAD 982040206

Address P.O. Box 170

City Loomis **State** CA **Zip** 95650

12. **Sample Collector**

Name ~~XXXXXXXXX~~ Eugenio Diaz

Company E.R.C.E.

Address 210 Spars Street, Suite 1660

City San Francisco **State** CA **Zip** 94105 **Phone** 415 227-4370

13. **Sampling Information for each tank or area**

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
550 gal	Waste Oil	soil	Center or Fill End no more than 2'~~6~~ below ~~tank~~ native soil/ backfill interface

* One soil sample must be collected for every 20 feet of piping removed.
* A ground water sample must be collected should ground water be present in the excavation

14. **Have tanks or pipes leaked in the past?** Yes [ ] No [X]

If yes, describe. _____

15. **NFPA methods used for rendering tank inert?** Yes [X] No ~~[ ]~~

If yes, describe. Dry ice

An explosion proof combustible gas meter shall be used to verify tank inertness.

16. **Laboratories**

OK

Name Analytical Technologies, Inc.

Address 5550 Morehouse Drive

City San Diego **State** CA **Zip** 92121

State Certification No. 129 ~~#1117A~~ Unknown

Before tanks are pumped out & inerted, all associated piping must be flushed out into the tank. All accessible associated 3" piping must then be removed. Inaccessible piping must be plugged.

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number

See attached Table #7, Waste oil analyses + explanation # 9 for detection limits required

18. Submit Site Safety Plan

19. Workman's Compensation: Yes [X] No [ ]

Copy of Certificate enclosed? Yes [X] No [ ]

Name of Insurer California Comp.

20. Plot Plan submitted? Yes [X] No [ ]

21. Deposit enclosed? Yes [X] No [ ]

22. Please forward to this office the following information within 60 days after receipt of sample results.

a) Chain of Custody Sheets

b) Original Signed Laboratory Reports

c) TSD to Generator copies of wastes shipped and received

d) Attachment A summarizing laboratory results

ACORD. CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY) 7-3-90

PRODUCER

Mother Lode Insurance
P. O. Box 1310
Shingle Springs, CA 95682

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

CODE SUB-CODE

INSURED

Placer Tractor Service
7200 Wells Ave.
Loomis, CA 95650

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A — Maryland Casualty
COMPANY LETTER B — Progressive
COMPANY LETTER C — California Compensation
COMPANY LETTER D
COMPANY LETTER E

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUSANDS	
	GENERAL LIABILITY					
A	X COMMERCIAL GENERAL LIABILITY				GENERAL AGGREGATE	$ 2,000
	CLAIMS MADE X OCCUR.	02017085	6/9/90	6/9/91	PRODUCTS-COMP/OPS AGGREGATE	$ 2,000
	OWNER'S & CONTRACTOR'S PROT.				PERSONAL & ADVERTISING INJURY	$ 2,000
					EACH OCCURRENCE	$ 2,000
					FIRE DAMAGE (Any one fire)	$ 50
					MEDICAL EXPENSE (Any one person)	$ 5
	AUTOMOBILE LIABILITY					
	ANY AUTO	6422740	4/28/90	4/28/91	COMBINED SINGLE LIMIT	$ 1,000
	ALL OWNED AUTOS					
X	SCHEDULED AUTOS				BODILY INJURY (Per person)	$
X	HIRED AUTOS					
	NON-OWNED AUTOS				BODILY INJURY (Per accident)	$
	GARAGE LIABILITY					
					PROPERTY DAMAGE	$
	EXCESS LIABILITY				EACH OCCURRENCE $	AGGREGATE $
	OTHER THAN UMBRELLA FORM					
	WORKER'S COMPENSATION				STATUTORY X	
C	AND	W0703818	7/17/89	7/17/91	$	(EACH ACCIDENT)
	EMPLOYERS' LIABILITY				$	(DISEASE—POLICY LIMIT)
	OTHER				$	(DISEASE—EACH EMPLOYEE)

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS

All California Operations

CERTIFICATE HOLDER

Insured

CANCELLATION

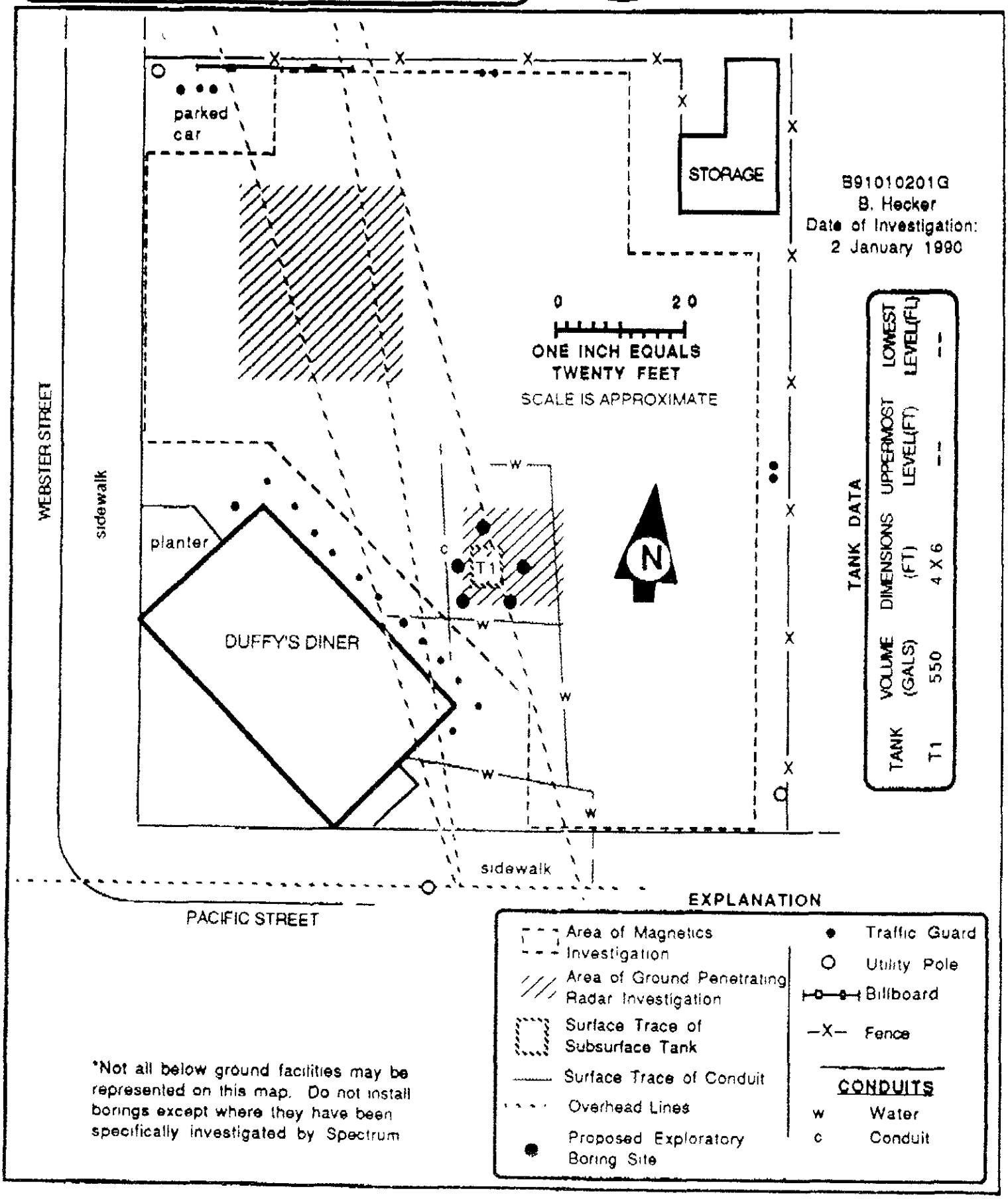
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

FIGURE ONE

AREA OF GEOPHYSICAL INVESTIGATIONS ON A PORTION OF THE PROPERTY AT 1700 WEBSTER STREET, ALAMEDA, CALIFORNIA*

SPECTRUM E.S.I.
Environmental Geophysics



*Not all below ground facilities may be represented on this map. Do not install borings except where they have been specifically investigated by Spectrum

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Saftey and Health Administration) requirements concerning personnel and safety.

* I will notify the Department of Environmental Health at least two (2) working days (48 hours) after approval of this closure plan in advance to schedule any required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

Name (please type) Cathy Thomas

Signature C J Thomas

Date Feb. 20, 1991

Signature of Site Owner or Operator

Name (please type) Tim Cook

Signature Tim Cook - by DTS.

Date Feb, 20, 1991

NOTES:

1. Any changes in this document must be approved by this Department.

2. Any leaks discovered must be submitted to this office on an underground storage tank unauthorized leak/contamination site report form within 5 days of its discovery.

3. Three (3) copies of this plan must be submitted to this Department. One copy must be at the construction site at all times.

4. After approval of plan, notification of at least two (2) working days (48 hours) must be given to this Department prior to removal of tank(s).

5. A copy of your approved plan must be sent to the landowner.

6. Triple rinse means that:

   a) Final rinse must contain less than 100 ppm of Gasoline (EPA method 8020 for soil, or EPA method 602 for water) or Diesel (EPA method 418.1). Other methods for halogenated volatile organics (EPA method 8010 for soil, EPA method 601 for water) may be required. The composition of the final rinse must be demonstrated by an original or facsimile report from a laboratory certified for the above analyses.

   b) Tank interior is shown to be free from deposits or residues upon a visual examination of tank interior.

   c) Tank should be labelled as "tripled rinsed; laboratory certified analysis available upon request" with the name and address of the contractor.

If all the above requirements cannot be met, the tank must be transported as a hazardous waste.

7. Any cutting into tanks requires local fire department approval.

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

ATTACHMENT A

SAMPLING RESULTS

Tank or Area	Contaminant	Location & Depth	Results (specify units)

INSTRUCTIONS

4. SITE ADDRESS
Address at which closure or modification is taking place.

5. EPA I.D. NO.
This number may be obtained from the State Department of Health Services, 916/324-1781.

6. CONTRACTOR
Prime contractor for the project.

7. OTHER
List professional consultants here.

12. SAMPLE COLLECTOR
Persons who are collecting samples.

13. SAMPLING INFORMATION
Historic contents - the principal product(s) used in the last 5 years.

Material sampled - i.e., water, oil, sludge, soil, etc.

16. LABORATORIES
Laboratories used for chemical and geotechnical analyses.

17. CHEMICAL METHODS:
All sample collection methods and analyses should conform to EPA or DHS methods.

Contaminant - Specify the chemical to be analyzed.

Sample Preparation Method Number - The means used to prepare the sample prior to analyses - i.e., digestion techniques, solvent extraction, etc. Specify number of method and reference if not an EPA or DHS method.

Analysis Method Number - The means used to analyze the sample - i.e., GC, GC-MS, AA, etc. Specify number of method and reference if not a DHS or EPA method.

NOTE:
Method Numbers are available from certified laboratories.

18. SITE SAFETY PLAN
A plan outlining protective equipment and additional specialized personnel in the event that significant amount of hazardous materials are found. The plan should consider the availability of respirators, respirator cartridges, self-contained breathing apparatus (SCBA) and industrial hygienists.

19. ATTACH COPY OF WORKMAN'S COMPENSATION

20. PLOT PLAN

The plan should consists of a scaled view of the facility at which the tank(s) are located and should include the following information:

a) Scale

b) North Arrow

c) Property Line

d) Location of all Structures

e) Location of all relevant existing equipment including tanks and piping to be removed

f) Streets

g) Underground conduits, sewers, water lines, utilities

h) Existing wells (drinking, monitoring, etc.)

i) Depth to ground water

j) All existing tanks in addition to the ones being pulled

rev. 9/88
mam

PLACER TRACTOR SERVICE

SITE SAFETY & UNDERGROUND FUEL TANK CLOSURE PLAN

Placer Tractor Service is pleased to submit this workplan for the Underground Fuel Tank Removal project listed below:

A. Project Name & Address: ODGEN SERVICE CORP.
Facilities & Planning Services
New York, N.Y. 10121

Job Location (if different)

Phone Number: 212-868-5412

B Projected Start Date: March 7, 1991

C. Project Manager: AL OESTERLING OR RODGER THOMAS

D. Site History:

Tank Size	Tank Contents	Fiberglass / Steel
550	Waste Oil	Steel

CONTINUED ON PAGE 2

SITE SAFETY & UNDERGROUND FUEL TANK MASTER PLAN
PAGE 1

CONTENTS:

I. Project Description

II. Task Risk Analysis and Safety & Health Plan
A. Underground fuel tank removal

III. Contractor Certification

IV. Emergency Response Plan

SECTION I. PROJECT DESCRIPTION

A) All product shall be removed from tanks prior to excavation. Any product remaining will be vacuumed out and manifested by Placer Tractor Service, EPA # CAD982040206, DOH # 2350. Disposal facility will be Evergreen Environmental, EPA #CAD980695761 at 6880 Smith Ave., Newark, CA. 94560.

B) All vapors will be purged from tanks at least one - two hours prior to removal by using at least 30 pounds of carbon dioxide (dry ice) per 1,000 gallon tank capacity. A LEL meter will be on site to check the tank(s) for explosive levels before the tank is removed, in addition to two fire extinguishers. We also have an PID meter on site to measure Total Petroleum Hydrocarbons

C) Tanks and associated piping will be removed by Placer Tractor Service. Customer will receive a Certified Disposal Receipt that tanks were cut up for scrap (if tanks were steel) or smashed and disposed of at a landfill (if tanks were fiberglass). Tanks that are disposed of as hazardous will be manifested to Erickson Inc. in Richmond, EPA # CAD009466392. The disposal site for non-hazardous tanks will be Schnitzer Steel, 12000 Folsom Blvd., Rancho Cordova, CA.

D) Clean excavated material will be stockpiled onsite for use in backfilling the excavation site.

CONTINUED ON PAGE 3

E) The local agencies have been notified of the removal date and will be present when the tank(s) are removed to make a visual inspection and determine what soil samples will be taken.

F) Platek Tractor Service will arrange to have Alpha Analytical Laboratory take the required soil samples unless arrangements have been previously made by the owners. Alpha Analytical is State Certified (#1104) for Hazardous Waste samples and results are usually received within five to seven working days, unless contract requires 24 - 48 hour results.

G) Onsite Personnel:

1) The following personnel are designated to carry out job functions as needed onsite. They all have been certified in Hazardous Waste and Safety Training and CPR.

Rodger Thomas	Cathy Thomas	Albert Oesterling
Ken Noel	Mac McConnell	Bill Teal
Lori Thomas	Danny Inman	Roger Brett
Ken Bolton	Lynn Selzer	

H) Local Agencies:

Alameda County Environmental Health
City of Alameda Fire

SECTION II: RISK ANALYSIS & SAFETY AND HEALTH PLAN

1. Tasks Planned:

A. Underground Tank Removal - Excavation
B. Rinsing fuel tanks and inerting with dry ice
C. Soil Sampling
D. Fill in excavation and resurface

CONTINUED ON PAGE 4

SITE SAFETY & UNDERGROUND FUEL TANK CLOSURE PLAN
PAGE 4

1. Hazardous Materials Anticipated:

   A. Gasoline - Inhalation can cause headaches, blurred vision, dizziness and nausea.
   B. Benzene - High energy component of gasoline, usually present in concentrations between 0.5 - 2.0%. Benzene is a known carcinogen
   C. Xylenes - Flammable and less toxic than benzene; may be narcotic in high concentrations.
   D. Toluene - Flammable, may be narcotic in high concentrations and may cause mild macrocytic anemia.
   E. Diesel and/or Waste Oil
   F. DCE
   G. Solvents

3. Personnel Protection Equipment

   A. Appropriate skin protection/clothing (tyvek suits if necessary)
   B. Air purifying respirator
   C. Hard hat and safety glasses
   D. Gloves & Steel toed boots
   E. Hearing protection (if necessary)
   F. Eye wash and First Aid kits in trucks

4. Site Control:

   A. A 7' cyclone fence will be installed around excavated area if found to be contaminated and cannot be backfilled. This may be responsibility of owner or Placer Tractor Service (please see contract).

5. Hazardous Waste Management:

   A. This project will generate hazardous wastes (rinseate) which will be transported for recycling on a manifest. See Section 1A on Closure Plan.

CONTINUED ON PAGE 5

OCCUPATIONAL SAFETY AND HEALTH CERTIFICATION

PROJECT: CHEVRON SERVICE CORP.
CONTRACTOR: PLACER TRACTOR SERVICE

Contractor certifies that the following personnel employed on the project above have met the following requirements of the OSHA Hazardous Waste Operations Standard (29 CFR 1910.120) and other applicable OSHA standards.

PERSONNEL	TRAINING	RESPIRATOR CERTIF.	MEDICAL EXAM
Al Oesterling	yes	yes	yes
Cathy Thomas	yes	yes	yes
Ken Noel	yes	yes	yes
Lori Thomas	yes	yes	yes
Rodger Thomas	yes	yes	yes
Bill Teal	yes	yes	yes
Mac McConnell	yes	yes	yes
Danny Inman	yes	yes	yes
Lynn Seizer	yes	yes	yes

All employees are current trained for CPR, Safety Training and Respirator Fit tested.

Contractor certifies that he/she has received a copy of the Site Safety and Health Plan and will ensure that its employees are informed and will comply with its requirements.

Contractor further certifies that it has read and understands and will comply with all provisions of its contractual agreement.

SIGNED: Cathy Thomas DATE: 2/19/91

CONTINUED ON PAGE 6

SECTION III: EMERGENCY RESPONSE PLAN

1. If an accident should occur, employees should first call 911 if it is an emergency. If it is not of emergency nature then the employee shall be brought to the nearest hospital (see attached page for map to hospital).

DIRECTIONS TO HOSPITAL

MERRITT HOSPITAL
350 HAWTHORNE
OAKLAND, CA. 94609

415-655-4000

WEBSTER ST. NORTH TOWARDS LAKE MERRITT

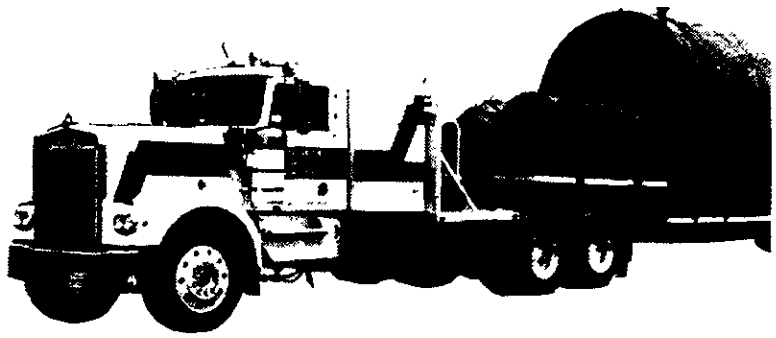
WEBSTER RUNS INTO HAWTHORNE AT HOSPITAL

GROVE SHAFTER FRWY
MORAGA
42ND
MACARTHUR
TELEGRAPH
PERALTA HOSP
OAKLAND
HARRISON
GRAND
ORANGE
VERNON
PERKINS
ADAMS
EUCLID
LAKESHORE
LAKE SHORE
PIEDMONT
MANDANA
TRESTLE GLEN
LAKESIDE PARK
Lake Merritt
Camron Stanford House
SAIL BOAT HOUSE
CITICORP
KAISER CENTER
LAKESIDE DR
WEBSTER
157
LANEY COLLEGE
FOOTHILL
14TH
12TH
NIMITZ
FREEWAY
PARK
ROAD
BLVD
WELLINGTON
EVERETT
HOLLYWOOD
CRESTVIEW
LYMAN
DIMOND PARK
MONTANA
PLEASANT
FRUITVALE AV
MACARTHUR BLVD
EXCELSIOR
CENTRAL RESERVOIR AREA
HAMPTON
CROCKER
LAKEVIEW AVE
PIEDMONT SPORTS FIELD
ASHMOUNT
ARDMORE
NICOL
BROOKDALE
BLOSSOM
HYDE
LOGAN
GALINDO
COOLIDGE
HARRINGTON
SAN JUAN
INNER HARBOR
9TH AV TERMINAL
ESTUARY PARK
ENCINAL YACHT CLUB
PACIFIC MARINA
MATSON CONTAINER YARD
ENCINAL TERMINAL
ALASKA BASIN
US COAST GUARD
225
TOUR
EAGLE
LINCOLN
BUENA VISTA
PACIFIC
SANTA CLARA
CENTRAL
FAIR OAKS
SHERMAN
MORTON
BENTON
CAROLINE
CHAPMAN
FRUITVALE STA
SMALL BOAT MARINA

Placer Tractor Service
7200 Wells Avenue
Loomis, California 95650
(916) 652-5535 • FAX (916) 652-9624

EPA #CAD 982040206
A - General Engineering
B - 1 General Building
Contractors License #440591

DOH Hauler #2350
C - 2 Insulation
C - 10 Electrical
PUC #152608



PROCEDURES FOR UNDERGROUND TANK REMOVAL BY PLACER TRACTOR SERVICE

A. REMOVE ALL RESIDUAL COMBUSTIBLE/FLAMMABLE LIQUIDS FROM THE LINES AND TANKS

Placer Tractor Service will remove residual liquid in the tank with it's vacuum truck. Customer may be responsible for additional cost if not included in contract. All residual liquids removed are considered hazardous waste and will be manifested to a TSDF facility.

B. INITIAL EXCAVATION

1. Placer Tractor shall remove asphalt and/or concrete cover as necessary to expose storage tank and piping. Asphalt and/or concrete will be cut at right angles (90 degrees) to allow appropriate site restoration. Placer Tractor is responsible for disposal of all removed asphalt or concrete.

2. Placer Tractor shall remove sufficient backfill to expose the tank top, sides, and piping. The site inspector will investigate the excavated area for evidence of contamination.

C. DISCONNECT AND RINSE PIPING

All piping shall be rinsed and removed or capped.

D. INERT TANKS

1. Flammable vapors will be expelled by inserting a minimum of twenty pounds of solid carbon dioxide (dry ice) per 1000 gallons of tank volume.

2. All piping shall be disconnected from the tanks and all tank openings securely sealed. One 1/8 inch vent hole will be left open at the high point of the tank to allow flammable vapors to escape.

3. A minimum of two hours must be allowed for the vapors to expel once the dry ice has been introduced into the tank and the tank properly sealed.

4. A LEL meter will be on site to measure any oxygen/explosive levels as well as a PID meter to measure any Total Petroleum Hydrocarbons.

E. TANK AND PIPING REMOVAL

1. Soil suspected to contain hydrocarbons or any contaminates will be segregated and placed on visqueen. Placer Tractor Service will keep separate any suspected contaminated soil from clean soil.

2. The tanks shall be lifted from the excavation with a backhoe or excavator of sufficient weight capacity, and placed on smooth ground free of rocks and/or other foreign objects for inspection.

3. All piping shall be removed as practical. Piping that, in the judgment of Placer Tractor, cannot be removed must be brought to the attention of the site inspector who will have the final authority to allow piping to be left in place. All piping left in place must be capped off at all openings.

4. The pump island will be removed and disposed of by Placer Tractor if agreed to in contract.

F. TANKS ABANDONED IN PLACE

1. The underground storage tank will be pumped of all liquid or sludge. The tank will then be triple rinsed and filled with a two sack slurry concrete mix.

CONTINUED ON PAGE 3

2. A notice shall be placed in the deed of the property by the owner. The notice shall describe the exact location of the closed underground storage tank, the substance it contained and the closure method.

G. DECONTAMINATE TANKS

The interior of the tanks will be pressure washed per the specifications of NFPA 327. The equivalent of a triple rinse of water and degreasing solution generating a minimum of two percent of the tank volume.

H. DISPOSAL OF TANKS

Placer Tractor is responsible for removal and disposal of the tanks and all associated piping from the site. unless contract states other arrangements. A Certificate of Disposal will be supplied to the owner stating the final disposition of the tank(s). All of the tanks will be smashed or cut up for scrap.

If tanks are to be disposed of as hazardous they will be transported to Erickson, Inc. in Richmond on a manifest.

I. BACKFILLING TANK EXCAVATIION

Placer Tractor will be responsible for providing additional clean backfill, free of foreign material or rocks greater than 3" in any dimension.

The backfill will be compacted in loose lifts not exceeding 8 inches in thickness. Backfill should be moisture conditioned to 1-3% over optimum moisture content, and compacted to 90 percent relative compaction to within 12 inches of subgrade in accordance with ASIM 1557-D. The remaining 12 inches must be compacted to a minimum of 90 percent relative compaction.

CONTINUED ON PAGE 4

J. ASPHALT/CONCRETE PAVING

The disturbed area shall be resurfaced with asphalt or concrete to a condition, thickness, and grade equivalent to the surrounding area unless contract specifies otherwise. Resurfacing finish grade shall match existing grade of the undisturbed area. Placer Tractor shall;

1. Cover excavated areas with a minimum compacted thickness of 10 inches of aggregrate base material. Base material will consist of Class 2 aggregate; a maximum of 1 1/2 inches in diameter. Base material will be compacted to 95 percent relative compaction. Surfaces to receive asphalt/concrete shall be dry and clean of loose material.

2. Placer Tractor shall apply three (3) inches of Type B asphalt. Asphalt binder shall be grade AR 2000 paving asphalt. Aggregate shall be 1 1/2 inch maximum, medium grade.

K. SOIL DISPOSAL REMEDIATION

Hydrocarbon impacted soils will either be shipped for disposal at a permitted disposal facility or remediated on-site. The remediation decision will be determined following removal of tanks, and will be based on actual quantity of excavated impacted soils, soil sample results, type of constituents, and requirements of the local County Department of Environmental Health.

1. Disposal: Placer Tractor Service will load, transport and dispose of hydrocarbon impacted soils in a permitted landfill facility. Placer Tractor Service has a current EPA Hazardous Waste Haulers permit (#2350) and our EPA #CAD982040206. Proper manifesting of wastes will be required before waste will be allowed to leave the site. All trucks are lined with visqueen and tarped.

CONTINUED ON PAGE 5

L. SITE INSPECTION

The site inspector will be designated by the County or City to oversee Placer Tractor's compliance with any contract. The inspector will specifically perform the following items;

1. Inspection of the tank and excavation for evidence of leakage following removal.

2. Examination of import fill, backfill compaction, and asphalting/or concreting to specifications.

3. Approval of manifest for waste disposal and/or rinse disposal.

4. Final site inspection for cleanup and completion of work tasks.

M. REMOVAL OF UNDERGROUND TANKS

The safe removal of underground tanks can be accomplished by taking the steps described below;

1. Drain and flush the piping into the tank.

2. Remove all liquids from the tank which can be pumped out with Placer Tractor's vacuum truck.

3. Dig down to the top of the tank and expose the sides.

4. Remove the fill tube. Disconnect the fill, gauge, product and vent lines. Cap or plug open ends of lines which are not to be used.

CONTINUED ON PAGE 6

5. Triple rinse the tank - see Section #G.

6. Remove flammable vapors. The tank will be conditioned by the method described in Section #G. The vapors will also be made inert by adding solid carbon dioxide (dry ice) in the amount of twenty pounds per 1000 gallons of tank capacity. The dry ice should be crushed or sliced and distributed evenly over the greatest area to secure rapid evaporation. Avoid skin contact with dry ice because it will produce burns. As the dry ice vaporizes flammable vapors will flow out of the tank and may surround the area. Observe all normal safety precautions regarding flammable vapors. Make sure that all of the dry ice has vaporized.

7. Temporarily plug all tank openings, complete the excavation, and remove the tank, placing it in a secure location. Block the tank to prevent movement if needed.

8. After the tank has been freed of vapors and before the tank is removed from from the site, plug or cap all holes. Use boiler plugs to plug any corrosion leak holes. The plug should have a 1/8 inch vent hole to prevent the tank from being subjected to an excessive pressure differential caused by extreme temperature changes.

9. Finally the tank should be secured on a trailer for transportation to the disposal site. The tank should be secured so that the 1/8 inch vent hole is located at the uppermost point on the tank.

PROCEDURES FOR CUTTING HOLE IN UNDERGROUND FUEL TANKS BY PLACER TRACTOR SERVICE

A. After the underground fuel tank has been triple rinsed and inerted with at least 20 pounds of dry ice per 1,000 gallons of tank volume the tank is checked with a LEL meter. The meter must show 0 before any hole is cut in the tank.

B. A hole of approximately two foot by two foot is then cut with a sparkless cold chisel cutter

C. A Marine Chemist can be on site, if requested, to certify that the underground fuel tank has been properly cleaned and is no longer considered hazardous.

TABLE #2

RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR UNDERGROUND TANK LEAKS

HYDROCARBON LEAK	SOIL ANALYSIS	WATER ANALYSIS
Unknown Fuel	TPH G GCFID(5030) TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) TPH D GCFID(3510) BTX&E 602, 624 or 8260
Leaded Gas	TPH G GCFID(5030) BTX&E 8020 OR 8240 TPH AND BTX&E 8260 TOTAL LEAD AA ------Optional------- TEL DHS-LUFT EDB DHS-AB1803	TPH G GCFID(5030) BTX&E 602 or 624 TOTAL LEAD AA TEL DHS-LUFT EDB DHS-AB1803
Unleaded Gas	TPH G GCFID(5030) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH G GCFID(5030) BTX&E 602, 624 or 8260
Diesel, Jet Fuel and Kerosene	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Fuel/Heating Oil	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602, 624 or 8260
Chlorinated Solvents	CL HC 8010 or 8240 BTX&E 8020 or 8240 CL HC AND BTX&E 8260	CL HC 601 or 624 BTX&E 602 or 624 CL HC AND BTX&E 8260
Non-chlorinated Solvents	TPH D GCFID(3550) BTX&E 8020 or 8240 TPH AND BTX&E 8260	TPH D GCFID(3510) BTX&E 602 or 624 TPH and BTX&E 8260
Waste and Used Oil or Unknown (All analyses must be completed and submitted)	TPH G GCFID(5030) TPH D GCFID(3550) TPH AND BTX&E 8260 O & G 5520 D & F BTX&E 8020 or 8240 CL HC 8010 or 8240 ICAP or AA TO DETECT METALS: Cd, Cr, Pb, Zn, Ni METHOD 8270 FOR SOIL OR WATER TO DETECT: PCB* PCP* PNA CREOSOTE	TPH G GCFID(5030) TPH D GCFID(3510 O & G 5520 C & F BTX&E 602, 624 or 8260 CL HC 601 or 624 PCB PCP PNA CREOSOTE

* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 10 August 1990

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

1. OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.

2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.

3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.

4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.

5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.

6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).

7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).

8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. **Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.**

9. **PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:**

	SOIL PPM	WATER PPB
TPH G	1.0	50.0
TPH D	1.0	50.0
BTX&E	0.005	0.5
O & G	50.0	5,000.0

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE	MODIFIED PROTOCOL
≤ 10 ppm (42%)	≤ 10 ppm (10%)
≤ 5 ppm (19%)	≤ 5 ppm (21%)
≤ 1 ppm (35%)	≤ 1 ppm (60%)

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

10. LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.

11. IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

    The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chromatogram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

12. REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal

from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.