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

RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

June 8, 1992

Eddy So
RWQCB, S.F. Bay Region
2101 Webster St., Ste 500
Oakland, CA 94612

STID 1359

RE: The Peterson Metal Fabricating site, located at 20478 Mission Blvd., Hayward, California

RECOMMENDATION FOR UST CASE CLOSURE

Dear Mr. So,

In July 1990, an 8,000-gallon underground storage tank, previously used to store unleaded gasoline, was removed from the above site. Alameda County was unable to be out at the tank pull, however, Eden Fire Dept. was able to oversee it. According to Captain Greg Fernandez, the tank was in good condition (Please refer to the contact log, dated May 6, 1992). One soil sample was collected from beneath the tank in the native soil, closer to the fill end. This sample was analyzed for TPHg and BTEX. Analysis of the soil sample did not identify any contaminants above detection limits. However, the soil excavated from the tank pit at the time of the tank removal was never sampled and was immediately used as backfill for the tank pit after it was mixed with pea gravel.

Additionally, one soil sample was collected from underneath the piping, at the elbow, and the dispenser, located approximately 20 feet from the tank pit. Analysis of the soil sample collected from underneath the piping elbow identified very minor concentrations of contaminants (toluene at 0.039 ppm and xylenes at 0.05 ppm). However, the sample collected from underneath the dispenser, at approximately 1 foot below ground surface, identified 15,000 ppm TPHg and 2,100 ppm xylenes.

The site conducted further investigations to address the following: 1) the elevated concentrations of contaminants observed beneath the dispenser; 2) the fact that excavated soil was used as backfill without sampling it first; and 3) the fact that only one soil sample was collected from underneath the 8,000-gallon tank.

Additional soil was excavated from beneath the dispenser down to 5 feet bgs. Soil samples were collected from the walls of the excavation and the bottom of the excavation. Only trace concentrations of contaminants were identified in these samples

(e.g., 4.9 ppm TPHg, 0.005 ppm benzene, 0.008 ppm toluene, and 0.073 ppm xylenes). The excavation underneath the dispenser generated 5 cubic yards of soil. This soil was aerated on site, and one composite soil sample was subsequently collected. Analysis of this sample did not identify contaminants above detection limits. According to Mr. Dzakowic, consultant to the site, the 5 cubic yards of soil was hauled off site by the facility, in a bin, and disposed of at Durham Road Class III disposal site. Except for a letter that Mr. Dzakowic wrote to Alameda County in November 1991 stating that the soil was disposed of at the above site, he has no other records of this disposal. Mr. Dzakowic stated that maybe Mr. Peterson, the owner of the site, may have some sort of record.

On August 9, 1991, four soil borings were conducted at the site. Three borings were placed around the dispenser area and one boring was placed in the tank pit.

Two soil samples were collected at 5 and 10 feet below ground surface (bgs) from each of the borings surrounding the former dispenser. These samples were analyzed for TPHg and BTEX. No contaminants were identified above detection limits for these samples. Additionally, a groundwater sample was collected from the northernmost boring surrounding the dispenser at approximately 41 feet bgs. All that was detected from this sample was 1.7 ppb benzene.

In January 1991, two soil samples were proposed to be collected from the boring that was placed in the tank pit: one at 2 feet bgs (backfill) and one at 12 feet bgs (native soil). This boring was placed on the side opposite the fill end of the tank, with the approval of this office. Only one soil sample was ultimately collected from this boring at 12 feet bgs because all that was encountered above the native soil in the tank pit was pea gravel (Please refer to the copy of the letter written by the registered geologist who worked on this site, dated August 28, 1991, and a contact log between Ms. Juliet Shin and Paul Dzakowic, dated May 15, 1992). Analysis of this soil sample did not detect any contaminants above detection limits.

Considering the above information, this office is recommeding that this site be certified closed. With RWQCB's concurrence, this office will send a letter to the Responsible Party to inform them of the site's cerification of closure.

If you have any questions or comments, please contact Juliet Shin at (510) 271-4320.

Sincerely,

Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

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

RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

May 8, 1992

Raymond H. Peterson
22153 North 6th Street
Castro Valley, CA 94546

STID 1359

RE: Potential backfill contamination at 20478 Mission Blvd., Hayward, California

Dear Mr. Peterson,

In July 1990, an 8,000-gallon underground storage tank, previously used to store unleaded gasoline, was removed from the above site. Four soil samples were collected from the sidewalls of the tank pit, and only one soil sample was collected from beneath the tank in the native soil. Analysis of the soil samples identified very minor concentrations of toluene (0.008 ppm) and xylenes (0.073 ppm) in the sidewalls of the tank pit, and no contamination beneath the tank. However, the soil excavated from the tank pit at the time of the tank removal was never sampled and was immediately used to back fill the tank pit after it was mixed with pea gravel. This Department is concerned that this backfill may be contaminated with petroleum hydrocarbons, and if so, may eventually be leached out into the groundwater.

On January 24, 1991, this office approved a work plan, dated January 18, 1992, submitted by your consultants which stated that one soil sample would be collected from within the backfill from Boring #1. However, during the implementation of the work plan, no soil samples were collected from the backfill, and instead, one soil sample was collected from beneath the tank pit.

You are required to submit a work plan to this office **within 60 days** of the date of this letter, addressing your proposal for the sampling of the backfill. A report documenting the results of work performed is due to this office within 45 days of completion of field activities. Alameda County must approve the plan before it can be implemented.

If you have any questions or comments please contact Juliet Shin at (510) 271-4320.

Sincerely,

Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Eddy So, RWQCB
Jim Ferdinand, Eden Consolidated Fire Dept.

File

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: 8006619
StID : 1359
SITE NAME: Peterson Metal Manufacturing DATE REPORTED : 07/26/90
ADDRESS : 20478 Mission Blvd. DATE CONFIRMED: 07/26/90
CITY/ZIP : Hayward 94541 MULTIPLE RPs : N

SITE STATUS

CASE TYPE: S CONTRACT STATUS: 2 EMERGENCY RESP:
RP SEARCH: S DATE COMPLETED: 12/23/91
PRELIMINARY ASMNT: U DATE UNDERWAY: 09/09/91 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: 12/23/91
LUFT FIELD MANUAL CONSID: 2S
CASE CLOSED: DATE CASE CLOSED:
DATE EXCAVATION STARTED : 06/20/90 REMEDIAL ACTIONS TAKEN: ED

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: R H & B C Peterson
COMPANY NAME: E. W & Uldone Trust
ADDRESS: 22153 N. -6th St.
CITY/STATE: Castro Valley, Ca 94546

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

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

October 3, 1991

Ray Peterson
Peterson Metal Fabricating
20478 Mission Blvd
Hayward CA 94541

RE: Soil Contamination Investigation; Former Underground Tanks

Dear Mr. Peterson:

I have reviewed the sampling results submitted by D & D Management Consultants, Inc. for the soil borings done at your site in early August. Three borings were advanced beneath the former fuel pump and one boring was done into the former tank pit. Samples taken from the borings showed no detectable hydrocarbon contamination. The work done to this point serves the important purpose of defining the extent of contamination in undisturbed soils. I spoke today both with you and with Paul Dzakowic of D&D Consultants. The following issues remain unresolved:

1. The fill soil removed from the tank pit was not tested for contamination before it was replaced into the excavation. Backfill contamination is often a problem in older tank systems due to a lack of overspill and overfill protection. Without analysis of this soil, it is not possible to determine whether it is contaminated. I understand that the fill soil was replaced in your former tank pit along with imported gravel. Regional Water Quality Control Board guidelines call for testing of backfill soils before they are replaced in an excavation.

2. No boring logs were submitted with the latest sampling results. Boring logs contain information necessary in evaluating whether further investigation is required at your site.

3. The fate of the contaminated soil removed from the former dispenser area has not been documented. Samples taken from this soil after it had been aerated showed above detectable levels of toluene, ethyl benzene, and xylene.

Paul Dzakowic agreed today to supply this office with copies of all four boring logs. I will also need information from you regarding the disposition of the soil excavated from beneath the dispenser. In addition, please inform this office of the manner in which you will determine whether soil replaced in the former tank pit is contaminated.

As I have stated in past correspondence, the initial level of soil contamination found in the vicinity of the pumps was quite high

(15,000 ppm TPH), and the soil excavated from and replaced back into the former tank pit, once tested, may prove to be contaminated. Therefore, a strong possibility exists that you will be required to install monitoring wells in the future in order to demonstrate that groundwater at your site has not been impacted.

You may call me with any questions at 271-4320.

Sincerely,

Pamela J. Evans

Pamela J. Evans
Hazardous Materials Specialist

c: Eddy So, RWQCB
Paul Dzakowic, D&D Management Consultants, Inc.

PETERSON
METAL FABRICATING, INC.
20478 MISSION BOULEVARD, HAYWARD, CA 94541
(510) 278-7500 (408) 945-1985 FAX (510) 278-7512

September 23,1991

Ms. Pamela J. Evans

Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, Ca. 94621

Subject: Soil contamination Investigation at Peterson Metal Fabricating, 20478 Mission Blvd., Hayward, Ca. 94541

Dear Ms. Evans:

September 3, 1991 D & D Management Consultants sent you soil sampling from an Engineering Geologist along with soil sample laboratory results. Dirt from the drilling is stock piled here at the drilling site and is a hindrance. Can we dispose of the dirt? With a "not detected analyte concentration" in all the dirt samplings may we close this matter?

Your early reply will be appreciated.

Sincerely,

PETERSON METAL FABRICATING Called him 9/26/91

R. H. Peterson

R. H. Peterson

RHP/bp

91 SEP 23 AM 11:22

LOUIS A. RICHARDSON
Consulting Engineering Geologist
202 Jason Way
Mountain View, California 94043 (415) 967-1000

Registered Geologist • Certified Engineering Geologist • California and Oregon

August 28, 1991 Proj. No. 479.44

D & D Management Consultants
P.O. Box 23040
San Jose, California 95153

Attention: Mr. Paul Dzakowic

Re: Soil Sampling at Tank Removal Site
Peterson Metal Fabricating Co.
20478 Mission Boulevard
Hayward, CA

Dear Mr. Dzakowic:

Pursuant to your request, the undersigned has observed the soil sampling operations, performed by your firm on August 9, 1991, at the site of a previously removed gasoline tank and dispenser in a paved yard area near the west-center of the above-referenced site. The samples were obtained by drilling through concrete pavement and, at the tank location, backfill of the excavation made for removal of the tank.

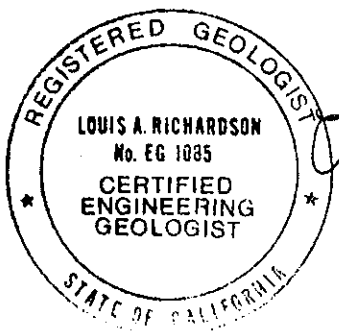
One sample was obtained from a boring at the northerly end of the old tank location at a depth of 12 feet. The sampled material was moderate-brown clay that was encountered beneath pea gravel backfill of the tank excavation.

Three borings were performed in a triangular pattern adjacent to the old dispenser site associated with the tank. Two of those borings were terminated at a depth of 10 feet, after samples of brown clay were obtained at 5 and 10 feet. After sampling similar clays at 5 and 10 feet, the third boring at the dispenser location was extended to a depth of 41 feet, where groundwater was encountered and sampled.

All soil samples were obtained by driving a clean, brass cylinder into soil in the bottom of the boring as it was advanced. Each 2-inch-diameter cylinder was immediately sealed with aluminum foil and then teflon caps were taped to the ends. The samples were then refrigerated for transport to the analytical laboratory. After completion of the work, all borings were sealed with neat cement grout. The drilling contractor was HEW Drilling of East Palo Alto, California.

Thank you for the opportunity to be of assistance to you regarding this matter. If you have any questions, or require further services, please feel free to call.

Very truly yours,



Louis A. Richardson
Certified Engineering Geologist
No. EG 1085

LAR:ka

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

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

May 13, 1991

Ray Peterson
Peterson Metal Fabricating
20478 Mission Blvd
Hayward CA 94541

RE: Soil Contamination Investigation, Amended Work Plan

Dear Mr. Peterson:

I have reviewed the proposal and addendum submitted by D & D Management Consultants, Inc. for the soil contamination at your site. The plan, to advance three borings in the contaminated area beneath the fuel pump and one boring into the former tank and to take soil samples from these borings, is acceptable to this office with the following changes, additions, and comments:

1. D&D proposes to take the first soil samples for chemical analysis from the fuel pump area at a depth of 10 feet. A great deal of contaminated soil may exist between the original surface samples and this depth. In order to better characterize the soil beneath the fuel pump, the shallowest samples taken from the borings here should not be deeper than 5 feet.

2. A great deal of information about the hydrogeology of your site will be required in order to determine whether additional soil and groundwater investigation and remediation will be necessary. In investigating contamination, you must follow Regional Water Quality Control Board guidelines for soil sampling and classification. During drilling of each borehole, undisturbed soil samples must be collected at a minimum of every five feet in the unsaturated zone and at any changes in soil type both for soil classification and analytical purposes. Consult the most recent publication of **Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks** and **The Leaking Underground Fuel Tank Manual** for details. These publications are available from the Regional Water Quality Control Board.

3. All reports and proposals must be signed and stamped by a California-Certified Engineering Geologist, California-Registered Geologist, or a California-Registered Civil Engineer. None of the proposals submitted to this office have borne a such a stamp.

4. The initial level of soil contamination found in the vicinity of the pumps was quite high (15,000 ppm TPH), and the soil excavated from and replaced back into the former tank pit, once tested, may prove to be contaminated. Therefore, a strong

possibility exists that you will be required to install monitoring wells in the future in order to demonstrate that groundwater at your site has not been impacted. In planning your investigation, keep in mind that, should wells be required, it will be necessary to re-drill at least three borings.

Please notify me at least 48 hours in advance of sampling so that I may be present. You may call me with any questions at 271-4320.

Sincerely,

Pamela J. Evans
Hazardous Materials Specialist

c: Richard Hiett, RWQCB
Paul Dzakowic, D&D Management Consultants, Inc.

D & D Management Consultants, Inc.
6440 Hesket Court
San Jose, CA 95123
(408) 227-0308
683-4254?

91 FEB 25 AM 11:21

February 21, 1991

Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Attention: Ms. Pamela J. Evans

Subject: Soil Contamination Investigation at, Peterson Metal Fabricating, 20478 Mission Blvd., Hayward, CA 94541

Dear Ms. Evans:

In accordance with our recent telephone conversation and your letter of January 24, 1991 the following represents an amendment to our work plan dated January 18, 1991.

* One soil boring (Boring #2) will be undertaken as indicated on the attached site sketch, to retrieve two soil and one water sample. One soil sample will be taken at approximately 10' below grade to document any soil contamination resulting from the dispenser and an additional one at 15' will be analyzed only if contamination is detected in the 10' sample. The boring will be continued to a maximum depth of 60' or where groundwater is encountered. If ground water is encountered a water sample will be retrieved through the boring hole.

* Two soil borings (Boring #3 & #4) will be undertaken as indicated on the attached site sketch to retrieve two soil samples, from each boring. One soil sample from each boring will be taken at approximately 10' 5' below grade and one additional one at 15'. The sample at 15' will be analyzed only if contamination is detected in 10' samples.

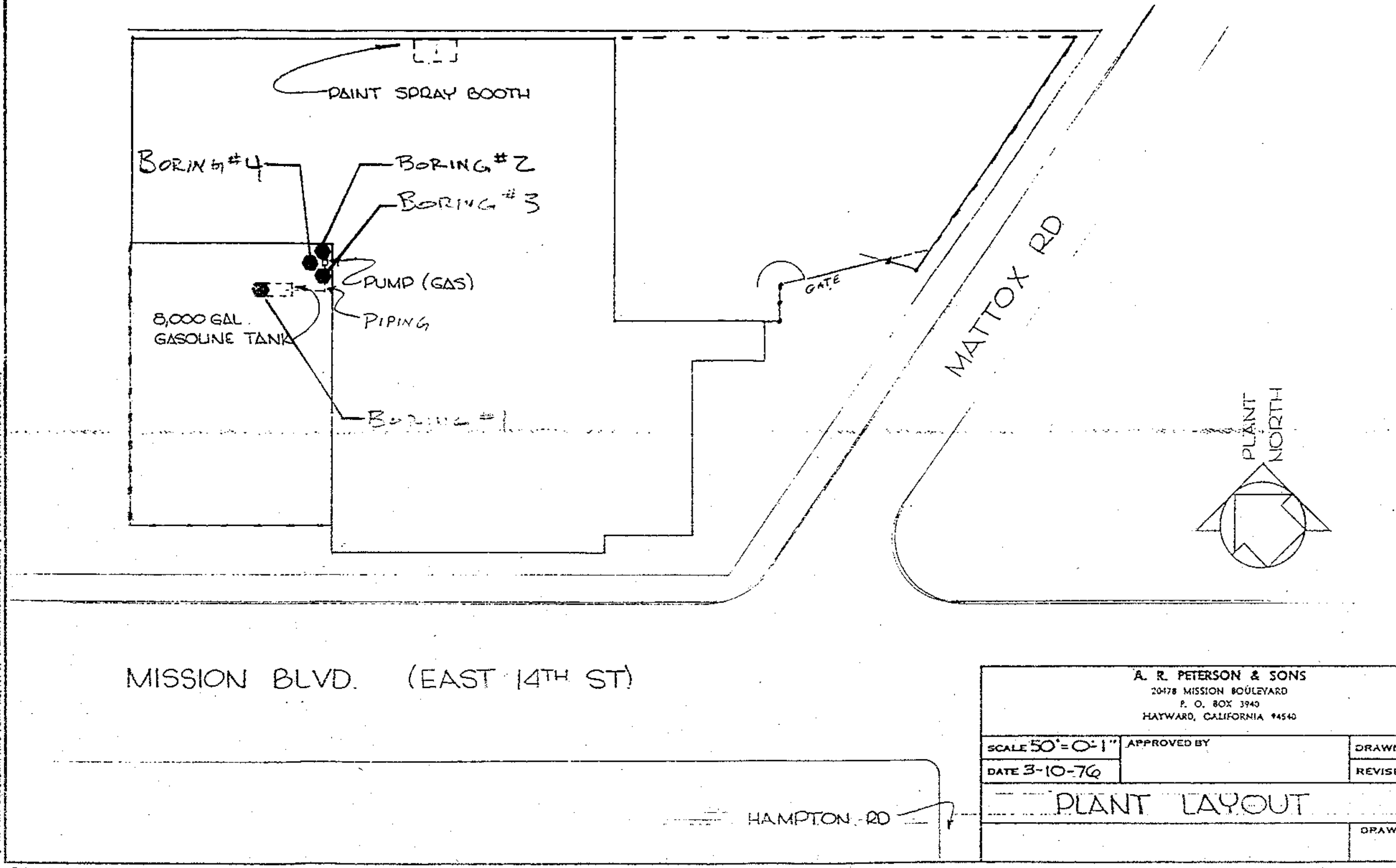
If you have any questions please call.

Very Truly Yours,

Paul T. Dzakowic
President

cc Peterson Metal Fabricating
Att: Mr. Ray Peterson
w/enclosure

PTD:sed



A. R. PETERSON & SONS
20478 MISSION BOULEVARD
P. O. BOX 3940
HAYWARD, CALIFORNIA 94540

SCALE 50'=0-1"	APPROVED BY	DRAWN BY SHE
DATE 3-10-76		REVISED
PLANT LAYOUT		
		DRAWING NUMBER

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

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

January 24, 1991

Ray Peterson
Peterson Metal Fabricating
20478 Mission Blvd
Hayward CA 94541

RE: Soil Contamination Investigation

Dear Mr. Peterson:

I have reviewed the proposal submitted January 18 by D & D Management Consultants, Inc. relating to investigation of soil contamination at your site. The plan is acceptable to this office with the following changes and additions, which I have discussed with Paul Dzakowic of D&D Management:

At least three vertical borings must be done around the former fuel pump in order to delineate the extent of the contamination in this spot. Because the south side of this area so closely borders your building, no further investigation of soil contamination in that direction is required at this time. At least one of these borings must extend to first groundwater.

Please submit an amendment to the original work plan describing or depicting the locations and depths of the borings to be installed around the former fuel island. The information is required in this office by February 24, 1991. Please await my review and acceptance of the work plan addendum before proceeding with your investigation. As your deposit for overview of the tank removal process has been expended, you are required to submit a $500 check, payable to County of Alameda, to cover this agency's additional oversight costs. You may call me with any questions at 271-4320.

Sincerely,

Pamela J. Evans

Pamela J. Evans
Hazardous Materials Specialist

c: Richard Hiett, RWQCB
Paul Dzakowic, D&D Management Consultants, Inc.
James Ferdinand, Eden Consolidated Fire Protection District

D & D Management Consultants, Inc.
6440 Hesket Court
San Jose, CA 95123
(408) 227-0308

January 18, 1991

Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Attention: Ms. Pamela J. Evans

Subject: Soil Contamination Investigation at, Peterson Metal Fabricating, 20478 Mission Blvd., Hayward, CA 94541

Dear Ms. Evans:

In accordance with our recent telephone conversation and your letter of December 19, 1990, the following represents the proposed work plan for meeting your requirements.

* One soil boring (Boring #1) will be undertaken as indicated on the attached site sketch, to retrieve 3 soil samples. Two soil samples will be taken, from Boring #1, from the soil which was excavated for the tank removal and reinstalled within the tank excavation. One soil sample will be taken from Boring #1, at approximately 2 feet into the native soil at the location indicated.

* One soil boring (Boring #2) will be undertaken as indicated on the attached site sketch, to retrieve one soil and one water sample. The soil sample will be taken at approximately 10' below grade to document any soil contamination resulting from the dispenser. The boring will be continued to a maximum depth of 45' or where groundwater is encountered. If ground water is encountered a water sample will be retrieved through the boring hole.

* All soil and water samples will be analyzed for TPH-G, plus BTX&E.

* A certified Engineering Geologist will be on site to document all finds and any necessary soil classifications.

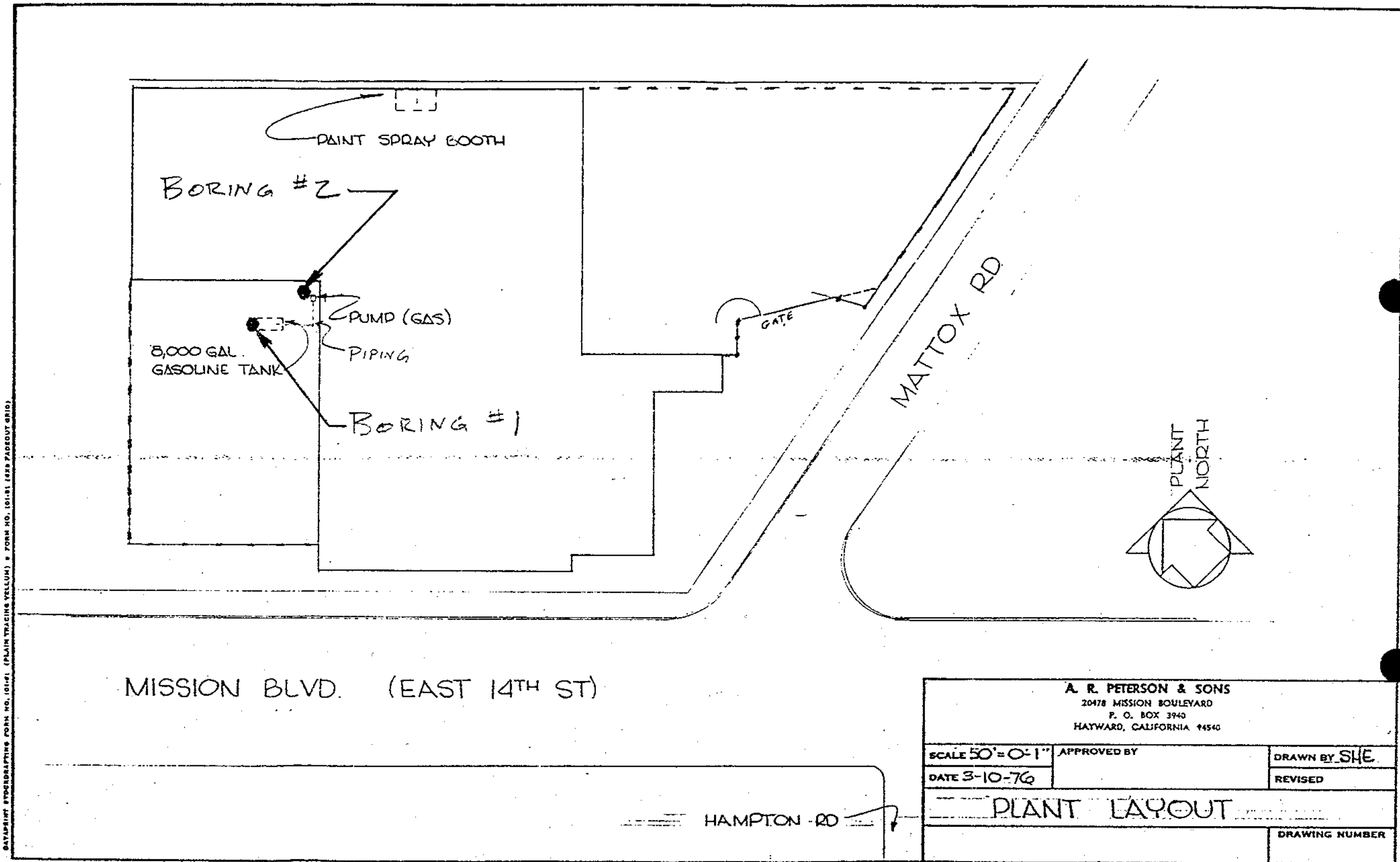
* All work will be completed 90 days after receipt of your approval of the work plan and a report will be provided documenting the findings.

If you have any questions please call.

Very Truly Yours,

Paul T. Dzakowic
President

cc Peterson Metal Fabricating
Att: Mr. Ray Peterson
w/enclosure



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

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

December 19, 1990

Ray Peterson
Peterson Metal Fabricating
20478 Mission Blvd
Hayward CA 94541

RE: Soil Contamination Investigation

Dear Mr. Peterson:

As we discussed at our December 10th meeting, there are unresolved contamination issues relating to the removal of your underground fuel tank and pump. Before this case can be closed, you must investigate possible groundwater impact from fuel contamination.

1. Analysis of the soil beneath the former fuel dispenser showed high levels of gasoline constituents. You are required to investigate the extent of this contamination. This investigation must include soil excavation and/or borings along with further soil sampling and analysis for BTEX components. You must also inform this office of how the soil excavated from the dispenser area will be treated or disposed. I understand that the contaminated area is adjacent to a building and this circumstance might limit removal of all affected soil.

2. D&D Management Consultants did not sample the soil removed from the tank pit at the time of the tank removal. This stockpile soil was put back into the pit. The Regional Water Quality Control Board (RWQCB) has adopted a written policy document dated January 12, 1990 requiring that stockpile soil intended to be reused onsite be sampled and analyzed prior to its reuse. One sample per 20 cubic yards of soil is required under these circumstances and fuel constituents must not exceed detectable levels. As we discussed during our meeting, even when native soils beneath a fuel tank show no contamination, it is not unusual for stockpile soils to contain detectable levels of petroleum constituents due to past overfill and overspill problems. Therefore, it is essential that this soil be characterized by sampling either from soil borings or from reexcavating and sampling stockpile soils.

3. D&D Management Consultants took only one soil sample from beneath the tank, which was estimated to have a capacity of 8000 to 10,000 gallons. RWQCB guidelines call for **two** samples from native soil directly beneath a tank of this size. Although the one sample, taken from beneath the middle of the former tank, did not contain detectable contamination, this sampling was not adequate to characterize soil contamination beneath the tank. You must investigate contamination of native soil beneath the former tank either by boring and sampling or by reexcavating the overfill and resampling the pit floor.

Although there are a number of ways your site could be investigated, I recommend that soil borings be done for a number of reasons:

-Depth to groundwater could be established for your site
-Soil sampling could be carried out in conjunction with soil boring
-Characteristics such as soil types and permeability beneath any contaminated areas could be established

All of this information is necessary in order to assess possible groundwater impact at your site.

You are required to submit a work plan addressing these issues and giving a time table for their completion. The plan must be submitted to this office no later than January 20, 1991. All work must be performed according to Regional Water Quality Control Board guidelines. Please await my review and acceptance of the work plan before proceeding with your investigation. As your deposit for overview of the tank removal process has been expended, you are required to submit to this office a $500 check, payable to County of Alameda, to cover this agency's additional oversight costs. You may call me with any questions at 271-4320.

Sincerely,

Pamela J Evans

Pamela J. Evans
Hazardous Materials Specialist

c: Richard Hiett, RWQCB
Paul Dzakowic, D&D Management Consultants, Inc.
James Ferdinand, Eden Consolidated Fire Protection District

Alameda County - Department of Environmental Health - Hazardous Materials Division
80 Swan Way, [redacted]00 Oakland, CA 94621 (415) [redacted]-4320

BILLING ADJUSTMENT FORM

Pgm Affected Billing Acct.*
[X] Generator . . H C1106
[ ] AB2185 . . . L _____
[ ] UGT . . . . . T _____

Date: 12/10/90

HazMat StID* : _____

Caller: Dan Peterson Phone: 278-7500

Company Name : Peterson Metal Fabrication

Site Address : 20478 Mission City Hayward Zip 94541

Requested Changes : They are down to 10 employees
their billing address has changed also.
It is the same as the above address Initials: DP
So use that instead of the PO Box

Inspectors' Conclusion

[ ] Rescind Bill for following reasons:

- [ ] No Hazardous Waste
- [ ] Moved out of County
- [ ] Qty's under 2185 Min.
- [ ] Closed / Out of Business
- [ ] UGTanks removed
- [ ] Other _____

[ ] Continue Billing With Following Changes:

	From:	To:
[X] Change number of EMPLOYEES	20-49	10
[ ] Change number of TANKS		

[ ] AB2185: Changes attached

[ ] Reopen Site Address / New Owner

Co. Name _____

Owner _____ Phone _____

[ ] New Address

Site Address _____ City _____ Zip _____

Mail Address 20478 MISSION City HAYWARD Zip 94541

Inspector: _____ Date: _____

HM Chg: _____
[ ] Sent to Billing
on __/__/__

Rev 11/89 Mac-BillAdj

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

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

November 27, 1990

Ray Peterson
Peterson Metal Fabricating
20478 Mission Blvd
Hayward CA 94541

RE: Soil Sampling, Remediation in Conjunction with Tank Removal

Dear Mr. Peterson:

I have reviewed D&D Management Consultants' report of tank removal activities at your site and their correspondence dated 10/24/90. Yesterday I spoke with Paul Dzakowic of D&D and am writing to clarify issues of concern regarding analysis results and sampling activities:

1. The soil beneath the former dispenser showed high levels of gasoline constituents. You are required to investigate the full lateral and vertical extent of this contamination. Soil excavation and/or borings must be done and soil tested until nondetectable levels of toluene, ethyl benzene, and xylenes are found. Only in this manner can the full extent of the contamination be defined. You must also inform this office of how the soil excavated from the dispenser area will be treated or disposed. Impinges bldg

must still investigate extent

2. No sampling of the soil excavated from the tank pit was reported. Before this soil can be used or disposed of, the concentration of gasoline constituents must be determined. A representative number of samples must be taken from this soil (one per 20 cubic yards). liq'd ^ - Yes RWQCB Memo dated 1/12/90 or borings. Calculate volume + determine # of samples needed. 10' x

3. Only one soil sample was taken from beneath the tank, estimated to have a capacity of 8000 to 10,000 gallons. **Two** samples are required from native soil directly beneath the former tank. The closure plan submitted to this office prior to tank removal indicated two samples would be taken from this area. You must sample the tank pit bottom as described in the tank closure plan accepted by this office on June 6, 1990.

NO ^ issue?

Borings would do

+ would give data about depth to Groundwater, soil types present

Depending.. MWS may be required to determine impact to Groundwater

Jan 15, 1991

You are required to submit a work plan addressing these issues and giving a time table for their completion. The plan must be submitted to this office no later than December 20, 1990. All work must be performed according to Regional Water Quality Control Board guidelines as found in "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tank Sites", August 10, 1990. You may call call me with any questions at 271-4320.

Sincerely,

Pamela J Evans

Pamela J. Evans
Hazardous Materials Specialist

c: Richard Hiett, RWQCB
Paul Dzakowic, D&D Management Consultants

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

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

9-20-90

Ray Peterson
Peterson Metal Fabricating
20478 Mission Blvd
Hayward CA 94541

RE: Soil Sampling in Conjunction with Tank Removal

Dear Mr. Peterson:

I have reviewed D&D Management Consultants' report of tank removal activities at your site. I have the following concerns regarding analysis results and sampling activities:

1. The soil beneath the former dispenser showed high levels of gasoline constituents. You are required to investigate the full lateral and vertical extent of this contamination.

2. No sampling of the excavated soil was reported. Before this soil can be used or disposed of, the concentration of gasoline constituents must be determined.

3. Only one soil sample was taken from beneath the tank, estimated to have a capacity of 8000 to 10,000 gallons. **Two** samples are required from native soil directly beneath the former tank. The closure plan submitted to this office prior to tank removal indicated two samples would be taken from this area.

You are required to submit a work plan addressing these issues and giving a time table for their completion. The plan must be submitted to this office no later than **October 31, 1990.** All work must be performed according to Regional Water Quality Control Board guidelines as found in "Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tank Sites", August 10, 1990. You may call call me with any questions at 271-4320.

Sincerely,

Pamela J. Evans

Pamela J. Evans
Hazardous Materials Specialist

c: Richard Hiett, RWQCB
Paul Dzakowic, D&D Management Consultants

Alameda County - Department of Environmental Health - Hazardous Materials Division
80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

BILLING ADJUSTMENT FORM

Pgm Affected Billing Acct.#	
[ ] Generator . .H	
[ ] AB2185 . . . L	
[X] UGT . . . . . T	A1081

Date: _____

HazMat StID# : _____

Caller: _____ Phone: _____

Company Name : Peterson Metal Fabricating

Site Address : 2078 Mission Blvd. City Hayward Zip 94541

Requested Changes : 1 UGT removed P.E. 5/90

_____

_____ Initials: _____

Inspectors' Conclusion

[X] Rescind Bill for following reasons:

- [ ] No Hazardous Waste
- [ ] Moved out of County
- [ ] Qty's under 2185 Min.
- [ ] Closed / Out of Business
- [X] UGTanks removed
- [ ] Other _____

[ ] Continue Billing With Following Changes:

	From:	To:
___Change number of EMPLOYEES	_____	_____
___Change number of TANKS	_____	_____

___AB2185: Changes attached

___ Reopen Site Address / New Owner

Co. Name _____

Owner _____ Phone _____

___New Address

Site Address _____ City _____ Zip _____

Mail Address _____ City _____ Zip _____

Inspector: Pamela J Evans Date: 8-28-90

HM Chg:_____
[ ] Sent to Billing
on __/__/__

Rev 11/89 Mac-BillAdj

NORTH STATE ENVIRONMENTAL

Chemical Waste Disposal • Trucking • Consulting

FAX TRANSMITTAL SHEET

OUR FAX NO: (415) 588-1950

FAXED TO NO: (415) 278-7512

DATE: 8/1

TIME: 1230

DELIVER TO: DAN PETERSON
PETERSON METAL FINISHING,

FROM: GARY TENSEN
NORTH STATE ENVIRONMENTAL

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET: 9

IF YOU DO NOT RECEIVE ANY OF THE PAGES, PLEASE CALL OUR OFFICE. TEL. (415) 588-2838

COMMENTS DAN,

IT LOOKS LIKE THE STATE ONLY ALLOWS 90 DAYS (SEC 66508, TITLE 22) FOR HAZARDOUS WASTE ACCUMULATION. YOUR WASTE DOES CONTAIN CA HAZARDOUS WASTES. I HAVE INCLUDED PORTIONS OF THE FEDERAL REGS FOR YOUR INFO.

Gary

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

Vendor	Due Date
REC MAY 21 1990 ARP	
ACCT. NO.	W.O. NO.

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 [illegible]

[illegible]

Following required inspections:
___ Removal of Tank and Piping
___ Sampling
___ Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

DE 6-6-90

UNDERGROUND TANK CLOSURE/MODIFICATION PLANS

1. Business Name: Peterson Metal Fabricating, Inc.
   Business Owner: R. H. Peterson & E. W. Peterson
2. Site Address: 20478 Mission Blvd.
   City: Hayward Zip: 94540 Phone: (415) 278-7500
3. Mailing Address: P.O. Box 3940 Hayward
   City: Hayward Zip: 94540 Phone: (415) 278-7500
4. Land Owner: R. H. Peterson & E. W. Peterson
   Address: P.O. Box 3940 City, State: Hayward Zip: 94540
5. EPA I.D. No.: CAX 000124883
6. Contractor: D & D Management Consultants, Inc.
   Address: 6440 Hesket Ct.
   City: San Jose, CA Phone: (408) 227-0308
   License Type: A ID#: 517584
7. Consultant: N/A
   Address: ______
   City: ______ Phone: ______

28906
5/30/90
375

8. Contact Person for Investigation

Name Ray Peterson Title Owner

Phone (415) 278-7500

9. Total No. of Tanks at facility 1

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

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Tranporter

Name Nor Cal Oil EPA I.D. No. CAD 9824172255

Address P.O. Box 645

City Denair State CA Zip 95316

b) Rinsate Transporter

Name H & H Ship Service EPA I.D. No. CAD 004771168

Address 220 China Basin

City San Francisco State CA Zip 94107

c) Tank Transporter

Name H & H Ship Service EPA I.D. No. CAD 004771168

Address 220 China Basin

City San Francisco State CA Zip 94107

d) Tank Disposal Site

Name H & H Ship Service EPA I.D. No. CAD 004771168

Address 220 China Basin

City San Francisco State CA Zip 94107

e) Contaminated Soil Transporter

Name H & H Ship Service EPA I.D. No. CAD 004771168

Address 220 China Basin

City San Francisco State CA Zip 94107

12. Sample Collector

Name Paul Dzakowic

Company D & D Management Consultants, Inc.

Address 6440 Hesket Ct.

City San Jose State CA Zip 95123 Phone (408) 227-0308

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
8,000	Unleaded gasoline	Soil (and water if encountered)	Two per tank, min. at backfill native soil interface

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 (min 2-5#/100 gal capacity)

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

16. Laboratories

Name IT Analytical Service

Address 2055 Junction Ave.

City San Jose State CA Zip 95131

State Certification No. 137

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
Gasoline		TPH-G 3550 BTX&E 8020

18. Submit Site Safety Plan see attached

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

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

Name of Insurer State Fund

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

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) Paul Dzakowic

Signature Paul Dzakowic

Date 5/22/90

Signature of Site Owner or Operator

Name (please type) Ray Peterson

Signature R H Peterson

Date 5/21/90

D & D Management Consultants, Inc.
6440 Hesket Court
San Jose, CA 95123
(408) 227-0308

May 17, 1990

Alameda County Health Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Tank removal at, 20478 Mission Blvd.
Hayward, CA Site Safety Plan

Gentlemen:

the following represents the site safety plan.

1. Key Personnel, Paul Dzakowic - Site Safety and Health Officer. Jeff Amatutz - alternate

2. If soil contamination is found, the soil will be removed and disposed of in accordance with all state and local requirements.

3. A Gastech Model 1314 Explosimeter will be on site for checking the tanks before removal.

4. Two fire extinguishers will be on site.

5. Level C protective clothing will be available to workers on the job site.

6. If significant contamination is found all elements specified in 29 CFR 1910.120 (i) (2) (i), will be followed.

7. Welding, smoking and ignition sources will be prohibited at the tank site.

8. All liquids will be removed from the tank(s).

9. All openings with exception of vent pipe will be capped allowing one hour for oxygen displsacment.

10. Remove pipe lines and securely cap or plug all openings. Leave 1/8 inch pressure relief hole at top of tank.

11. Load tank(s) on trailer for disposal.

12. Backfill excavation immediately upon removal of tank(s) and obtaining soil samples.

If there are any questions please call.

Sincerely,

Paul Dzakowic
President

PTD:sed

STATE COMPENSATION INSURANCE FUND

P.O. BOX 807, SAN FRANCISCO, CA 94101-0807

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

JULY 28, 1989

POLICY NUMBER:
CERTIFICATE EXPIRES:

COUNTY OF ALAMEDA HEALTH CARE SERVICES AGENCY
DEPT. OF ENVIRONMENTAL HEALTH - HAZARDOUS MATERIAL
80 SWAN WAY ROOM 200
OAKLAND
CA 94621

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon ten days' advance written notice to the employer.

We will also give you TEN days' advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate of insurance 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.

John A. Klett
PRESIDENT

Site Address:

20478 Mission Blvd.
Hayward, CA 94540

EMPLOYER

D MANAGEMENT CONSULTANTS, INC
O'HESKET COURT
JOSE
95123

SCIF 0262 (REV. 10-86) COPY FOR INSURED'S FILE OLD 262A

PAINT SPRAY BOOTH

PUMP (GAS)

PIPING

8,000 GAL.
GASOLINE TANK

GATE

MATTOX RD

PLANT NORTH

MISSION BLVD. (EAST 14TH ST)

HAMPTON RD

A. R. PETERSON & SONS
20478 MISSION BOULEVARD
P. O. BOX 3940
HAYWARD, CALIFORNIA 94540

SCALE 50'=0-1"	APPROVED BY	DRAWN BY SHE
DATE 3-10-76		REVISED

PLANT LAYOUT

DRAWING NUMBER

D & D Management Consultants, Inc.
6440 Hesket Court
San Jose, CA 95123
(408) 227-0308

June 4, 1990

Alameda County Health Care Services
Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, CA 94621

Attention: Ms. Pamela Evans

Subject: Peterson Metal Fabricating, Inc.
20478 Mission Blvd.
Hayward, CA
Site Safety Plan

Dear Ms. Evans:

In accordance with our telephone conversation of May 30, 1990 regarding the subject property, the following is additional information for the site safety plan.

1. No employee will be allowed to enter the tank excavation after tank removal. Soil samples will be taken utilizing a backhoe bucket to remove soil samples.

2. A brief site safety meeting will be conducted with all employees prior to commencement of work. All items in the site safety plan will be reviewed.

3. Site security is provided by the existing chain link fence around the perimeter. All employees of Peterson Metal Fabricating will be instructed to stay clear of the construction site.

4. In the event that a worker is injured or becomes ill to the exposure of hazardous materials, the person will be taken by private vehicle or ambulance to the nearest hospital emergency room. The designated hospital for this project is:

   Eden Hospital Medical Center
   20103 Lake Chabot Road
   Castro Valley, CA
   (415) 537-1234

If you have any additional questions please advise.

Very Truly Yours,

Paul T. Dzakowic
President

cc Mr. Ray Peterson
Peterson Metal Fabricating Inc.
P.O. Box 3940
Hayward, CA 94540

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

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

May 30, 1990

Ray Peterson
Peterson Metal Fabricating, Inc.
P.O. Box 3940
Hayward CA 94540

20478 Mission Blvd 94541

RE: Site Safety Plan for Fuel Storage Tank Removal

Dear Mr. Peterson:

My staff has reviewed your Underground Tank Closure Plan received May 30, 1990. Before your plan can be accepted by this office, the following items, discussed today with Paul Dzakowic of D & D Management Consultants, must be addressed in the Site Safety Plan:

1. Specify how the excavation and confined space hazard to workers will be mitigated.

2. Include procedures for training tank removal site workers in health and safety hazards associated with underground tank removals.

3. Explain site security and site control measures.

4. Include an emergency contingency plan which includes steps to be taken in the event that a worker is injured or becomes ill due to exposure to hazardous materials. Include the name and location of a nearby medical facility that would be used in such an emergency.

Mr. Dzakowic has agreed to supply the requested information in the form of an addendum to the existing Site Safety Plan. You may contact Hazardous Materials Specialist Pamela Evans with any questions at 271-4320.

Sincerely,

Thomas F. Peacock for
Edgar B. Howell III, Chief
Hazardous Materials Division

EBH:PJE

c: Lester Feldman, Regional Water Quality Board
Howard Hatayam, Department of Health Services
James Ferdinand, Eden Consolidated Fire Protection District
Paul Dzakowic, D & D Management Consultants, Inc.
FILES

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

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

May 30, 1990

Ray Peterson
Peterson Metal Fabricating, Inc.
P.O. Box 3940
Hayward CA 94540

RE: Site Safety Plan for Fuel Storage Tank Removal

Dear Mr. Peterson:

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Sincerely,

Edgar B. Howell III, Chief
Hazardous Materials Division

EBH:PJE

c: Lester Feldman, Regional Water Quality Board
Howard Hatayam, Department of Health Services
James Ferdinand, Eden Consolidated Fire Protection District
Paul Dzakowic, D & D Management Consultants, Inc.

PETERSON
METAL FABRICATING, INC.
PO. BOX 3940, HAYWARD, CA 94540
(415) 278-7500

Formerly A. R. Peterson & Sons

90 MAR -8 PM 1:42

March 6, 1990

Department of Environmental Health
470 27th Street, Third Floor
Oakland, CA 94612

Attn: Thomas F. Peacock, Senior HMS
Hazardous Materials Division

Dear Mr. Peacock:

Peterson Metal Fabricating takes the control of hazardous materials seriously as it is not only in our companies best interest to be compliant with Federal and State regulations, but it is also our desire to maintain a safe working environment for our employees. It was my understanding that the documents showing corrective action having been taken on our behalf were faxed to your office a few months back. As I have no proof of the transmittal I must apologize for the delay.

You will find enclosed with this letter copies of documents that I have labeled Exhibits 1 thru 13. I hope you find these exhibits sufficient for proof of compliance for volations numbers four and five. Violation numbers one through three were corrected immediately after your last visit to our facility. In regards to our gasoline storage tank, you will find enclosed a copy of a current "Use Permit."

Exhibits pertain as follows:

VIOLATION	EXHIBITS
1	12
2	10,11
3	7
4	1,6,4,13
5	2,5
Underground Tank	3,4,9

If any further actions need be taken on our behalf, or you would like to schedule a survey, please contact me.

It is our desire to cooperate fully with your department and any other agency protecting the health and safety of our community.

Respectfully,
PETERSON METAL FABRICATING

Daniel C. Peterson

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

RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, California 94612
(415)

February 26, 1990

Dan Peterson
Peterson Metal Mfg
20478 Mission Blvd.
Hayward, CA 94541

FINAL NOTICE OF VIOLATION

Dear Mr. Peterson:

On July 31, 1989, an inspection was conducted of your facility by this department. A NOTICE OF VIOLATION was sent dated August 4, 1989. The following violations of the California Code of Regulations, Title 22, Division 4, Chapter 30, were discovered:

1. There are 7 drums of waste flammable liquid and waste oil that are not labeled as hazardous waste as required by 66508(c).
2. All hazardous waste is not properly identified as required by 66471.
3. There was hazardous waste in numerous containers that were not kept closed (they had no tops) as required by 67241.
4. You have accumulated hazardous waste without a permit in excess of the 90 day storage limitation required by 66508.
5. You are apparently steam cleaning using phosphoric acid and draining the waste into the storm drain. Although the pH was measured as higher than 2.0, phosphoric acid is a listed waste, and disposal to an unpermitted facility could be a violation of 25189.5 of the California Health and Safety Code. You may be able to get approval to dispose of this waste in the sanitary sewer(Ora Loma Sanitary District). Written approval would be required.

In accordance with 66328, you were directed to submit a Plan of Correction to this Department, within 14 days, stating the actions to be taken and the expected dates of completion to correct the above violations. To date no plan has been received.

Your attention is directed to Sections 25183, 25189, and 25191 of the California Hazardous Waste Control Law, which provides for civil and criminal penalties of up to $25,000 per day, per violation, for violations of the California Hazardous Waste Control Law and regulations.

It was also noted that you have an underground storage tank for gasoline. In accordance with the California Code of Regulations, Title 23, Chapter 3, Subchapter 16 Underground Tank Regulations you must perform one of the following actions:

1. Submit a tank closure plan to this Department as required by Article 7, 2670 or
2. Apply for a permit as required by Article 10, 2710.

You were instructed to notify this Department within 10 days of your intentions and to obtain the necessary instructions and forms. On October 30, 1989 you were sent a SECOND NOTICE OF VIOLATION about this matter. To date you have made no response.

Please note that 25299(a) of the California Health and Safety Code states that any operator of an undergound storage tank is liable for a civil penalty of not less than five hundred dollars or more than five thousand dollars per day for (5) failing to properly close an undergound storage tank, as required by section 25298. Also, (b)has the same penalty for abandonment or improper closure of any underground storage tank.

If you have any questions concerning this matter, please contact this office at 271-4320.

Sincerely,

Thomas F. Peacock, Senior HMS
Hazardous Materials Division

TFP:tfp

cc: Howard Hatayama, Department of Health Services
Gil Jensen, Alameda County District Attorney, Consumer and Environmental Protection
Lester Feldman, RWQCB
Ted Rimshaw, Ora Loma Sanitary District
Bob Kevo, State Department of Fish and Game

No. 001192

Certificate of Materials Recycling

Date JAN 15 1990

Whereas, Marine Shale Processors, Inc. is a corporation organized under the laws of the State of Louisiana with its principal manufacturing facility in Amelia, Louisiana and

Whereas, Marine Shale Processors, Inc. operates the facility which uses, reuses, and recycles various recyclable materials to manufacture aggregates and other products under the authority of the Louisiana Solid Waste, Air Quality and Water Quality Regulations; the Louisiana Hazardous Waste Regulations, Chapter 41; Louisiana Statewide Order 29-B; Louisiana RCRA Interim Status Storage Permit LAD981057706; NPDES Permit #LA0067351; Water Quality Permit #WP1098; Air Quality Permit # 1036 M-1; and 40 CFR Part 266;

Now, Therefore, Marine Shale Processors, Inc. does issue this certificate to:

CUSTOMER: NORTH STATE ENVIRONMENTAL
90 SOUTH SPURCE BLVD. STE. W
P.O. BOX 5624
S. SAN FRANCISCO CA 940835624

GENERATOR: PETERSON METAL FINISHING
20478 MISSION BLVD
HAYWARD CA 94578

To evidence the total use, reuse, and recycling of:

ALL MATERIALS PER YOUR MANIFEST NUMBER 00919271 , RECEIVED BY US ON 1/12/90.

Said use, reuse, and recycling has been completed on or about the date stated above in a manner consistent with acceptable engineering standards and in compliance with applicable permits, authorizations, rules and regulations issued or set forth by State and Federal authorities.

Marine Shale Processors, Inc.

Charles Bennett

Plant Manager

MSP FORM: CMRI (REV. 11/89)

2238

EXHIBIT 13

EXHIBIT 12

[redacted]25

ARTESIAN OIL RECOVERY
2306 Magnolia St.
Oakland, CA 94607
(415) 839-4234

DATE 11/20/89

NAME Peterson Metal Fab.

ADDRESS 20478 Mission Hayward

SOLD BY	CASH	C.O.D.	CHARGE	ON ACCT	MDSE. RETD.	PAID OUT

QUAN.		DESCRIPTION	PRICE	AMOUNT
	1	PH. 2945-1985		
120	2	GALS. USED OIL #221		24 00
	3	C.P. Bob.		
	4	DR.		
	5	CAD980638449		
	6	MAN. 87LC2340		
	7	2000 N. ALAMEDA		
	8	COMPTON, CA.		
2	9	Trs/Trs		70 00
	10			
	11	Total		$94.00
	12			

CUSTOMER'S ORDER NO. P.O.# 3680

REC'D BY

KEEP THIS SLIP FOR REFERENCE

5L528/01528 REDIFORM

EXHIBIT 11

MAILING ADDRESS:
P.O. Box 16217
Boise, Idaho 83715-6217
(208) 384-1500

GENERATOR WASTE PRODUCT QUESTIONNAIRE
ENVIROSAFE SERVICES OF IDAHO, INC.

FACILITY ADDRESS
10½ Miles NW Grandview
Missile Base Road
Grandview, Idaho 83624

U.S. EPA ID. Number IDD073114654

☐ NEW ☐ RENEWAL

SECTION A - GENERATOR DATA

1. Generator PETERSON METAL FABRICATING
Address 20478 MISSION BLVD
City/State HAYWARD CA ZIP 94541
Tech. Contact GARY C. JENSEN (USE) TEL (415) 586-9652
U.S. EPA IDENTIFICATION NUMBER
C A D 9 8 2 0 7 1 1 6 3

2. Billing/Broker NORTH STATE ENVIRONMENTAL
Address P.O. Box 5624
City/State So SAN FRANCISCO CA ZIP 94083
Billing Contact FRANK BALISTRERI TEL (415) 588-2838

Envirosafe Services Only
Application #
PCN
CUST #
☐ DIRECT ☐ BILLING BROKER ☐ ACES
Sales Zone Code
TAX ☐ YES ☐ NO
Cell 5 Waste ☐
MANIFEST CERTIFICATION REQUIRED ☐

SECTION B - WASTE CHARACTERIZATION

1. Common Name for This Waste: ASBESTOS GASKETS
2. Process Generating This Waste:
3. Annual Quantity: ____ 1☐ Tons 2☐ Yards 3☐ Gallons 3.1 1 (Annual Quantity) 4☒ Drums
4. Shipment Duration:
1☐ Permanent (1 Year or Longer)
2☐ Temporary (Less Than 1 Year)
5. Shipment Mode:
1☐ Bulk 2☐ Palletized Boxes 3☐ Woven Cloth Bags 4☒ Metal Drums
5☐ Other:

SECTION C - PHYSICAL PROPERTIES
As Shipped To ESII

1. Is waste shipped different than waste as produced at initial point of generation? 1☐ YES 2☒ NO
If yes, must include Attachment A to describe waste as initially generated.
2. Describe physical state at 70°F
1☒ Dry Solid 2☐ Damp Solid 3☐ Powder 4☐ Semi-Solid/Gel 5☐ Flowable Liquid 6☐ Labpack
7☐ Other
3. Describe Load Bearing Strength at 70° F: 3.1 Penetrometer PSI: 3.2 % Solids @105°C: 100
1☒ Solid/Rigid 2☐ Sludge 3☐ Weak/None
4. Describe Physical Appearance of Waste (Include Color):
5. Apparent Density of Waste: ____ Lb./Cu. Yard
6. Flash Point: 6.1 Actual Flash Pt: ____ °F 6.2 Combustible:
1☐ <70°F 2☐ 70-100°F 3☐ 101-140°F 4☐ 141-200°F 5☒ >200°F 1☐ Yes 2☒ No
7. pH Range (50% Slurry in Distilled Water for Solid) 7.1 Actual pH (S.U.):
6 – 8
8. Describe Odor of Waste:
1☒ None 2☐ Slight 3☐ Strong
Describe
9. Viscosity (Liquids): Similar to
1☐ Water 2☐ Motor Oil 3☐ Honey
☐ Other
10. Debris In Waste:
☐ Yes 2☒ No Describe
11. Potential for presence/Separation of incidental liquids during transport:
1☐ Yes 2☒ No

Application # ☐☐☐☐

PCN ☐☐☐☐☐☐☐☐

SECTION F - WASTE CLASSIFICATION

As Shipped To ESII

Waste Description from 40 CFR 261: ☐ RCRA NON-HAZARDOUS

EPA Waste Code(s) from 40 CFR 261:

☐☐☐	☐☐☐☐	☐☐☐☐	☐☐☐☐	☐☐☐☐	☐☐☐☐

es Waste Contain the Following:

OSIVE	☐ YES	☐ NO	ETIOLOGICAL	☐ YES	☐ NO
CK SENSITIVE	☐ YES	☐ NO	THERMALLY UNSTABLE	☐ YES	☐ NO
OPHORIC	☐ YES	☐ NO	RADIOACTIVE	☐ YES	☐ NO

ES, Explain In Section H

le Waste Codes: State of _____

☐☐☐	☐☐☐☐	☐☐☐☐

☐ NOT APPLICABLE

SECTION G - U.S. DOT SHIPPING DESCRIPTION

D.T. Hazardous Material? ☐ Yes ☐ No 2. D.O.T. RQ Required: ☐ Yes ☐ No ☐ N/A

oper D.O.T. Shipping Name: _____

D.T. Hazard Class: _____ 5. D.O.T. ID Number: _____

ldltional D.O.T. Description: _____

SECTION H - ADDITIONAL COMMENTS

ldltional Comments, Descriptions, or Waste Stream Information:

PROCESS DIAGRAM OR PHOTOGRAPH

SECTION J - CERTIFICATION

s this waste the result of a product spill clean-up? ☐ Yes ☒ No

Has this waste been treated by: ☐ Solidification (solely using absorbents)
☐ Stabilization (irreversible chemical transformation or encapsulation) ☒ N/A

If solidified or stabilized list all additives in Section D.

Does this waste pass the EPA specified Paint Filter Test? ☒ Yes ☐ No

Are the total Halogenated Organic Compounds present in this waste, as shipped to ESII, at the following levels?

☐ None Present ☐0 to 99 mg/Kg ☐100 to 499 mg/Kg ☐500 to 999 mg/Kg ☐>1000 mg/Kg

Is this wase regulated under a Land Disposal Ban as promulgated in CFR 40 part 268 or RCRA §3004 ☐Yes ☒No

If 6 was answered yes; Is this waste currently allowed to be Land Disposed under a regulatory Variance or Exception? ☐Yes ☐No

If 7 was answered yes, please provide the applicable Variance or Exception information below:

☐ RCRA Corrective Action Waste (3004u or 3008h) ☐ CERCLA Response Action Waste (Sec. 104 or 106)

☐ Meets Established BDAT Standards (MUST ATTACH complete analytical data on required parameters)

☐ Other Variance/Exception: (Explain) _____

Application # | | | | |

PCN | | | | | | | | |

9. GENERATOR CERTIFICATION STATEMENT

A. Certification of Liquids Treatment (FOR ALL NON-LIQUID BULK WASTES).

1. ☒ The waste was generated as a solid material containing no free liquids.

— OR —

2a. ☐ The waste was initially generated as a bulk liquid or hazardous waste containing free liquids.

— AND —

b. ☐ The waste has been treated to eliminate free liquids in compliance with Section 3004 (c) of the Resource Conservation and Recovery Act (RCRA) of 1976, as amended by the Hazardous and Solid Waste Amendments of 1984.

— AND —

c. ☐ The treatment process utilized did not employ the addition of absorbents to the waste (unless used in a stabilization process).

— AND —

d. ☐ The materials used in the treatment process do not biodegrade or release liquids when compressed.

B. Certification Statement

I hereby certify that as an authorized representative of the generator named above, all information submitted in this and all the attached documents is true and accurate. Pre-shipment samples provided are a true representative sample of the waste and were sampled in accordance with 40 CFR Part 261.20. Any analysis of the waste was conducted in accordance with the approved test methods in 40 CFR Part 261 on a representative sample as defined in 40 CFR Part 261.20. To the best of my knowledge, all known (40 CFR Part 261/OSHA) and suspected hazardous components have been included in this documentation. All material and packaging will comply with all current regulations.

SIGNATURE _____ TITLE Gen'l Mgr. DATE 11-17-89

(To be signed by the generator)

SECTION K - DISPOSAL SITE USE ONLY

(Waste Approved For Receipt Contingent Upon Meeting The Following Conditions)

1. X Normal Operating Arrival Hours (Mon.-Fri.): Bulk 7:30 am. - 2:00 p.m. Drums, Bags, Boxes and Special Handling 7:30 a.m. - 12:00 noon.
2. X Product Code Number (PCN) must appear on each manifest or shipping paper required by EPA or DOT.
3. X Atypical loads will be billed on a case-by-case basis for all special charges.
4. ____ Acceptance ends _____
5. ____ Generator must provide updated analysis _____, 19____ and _____ thereafter.
6. ____ pH (for solids - 50% slurry of waste in distilled water) must be at least _____ but less than _____ by ESII methods.
7. ____ Flash point of incoming material must be _____°F or greater by ESII methods.
8. ____ Bulk: No unauthorized materials or free liquids.
9. ____ Manifest Notification/Certification required.
10. ____ Bulk prohibition on mix without authorization.
11. ____ General bulk waste mixing instructions.
12. ____ Bulk must contain sufficient moisture to suppress dust.
13. ____ Woven cloth bags; acceptance requirements.
14. ____ Palletized boxes; acceptance requirements.
15. ____ Material solid, non-flowable and Penetrometer Standard.
16. ____ Miscellaneous depris _____feet dimensional limit.
17. ____ ESII has stds. for odor, temperature and liquidit stability.
18. ____ Odoriferous waste may not be acceptable.
19. ____ Cyanide or sulfide permit limit requirements.
20. ____ PCB concentration limit requirements.
21. ____ CERCLA waste must be identified on the manifest.
22. X Generator must schedule all shipments with disposal facility.
23. ____ PCN number stenciled on each drum or container (top, side).
24. ____ Drums no free liquid, void space, metal, < 800 pounds.
25. ____ Containerized material must be solid, non-flowable.
26. ____ Dump trucks, end dumps, roll-on/roll-off containers and other bulk containers must be fully lined with minimum 6 mil visqueen.
27. ____ Drums contain sufficient outage, metal only, < 800 pounds.
28. ____ Heat generation in contact with water requirements.
29. ____ Bulk liquid trucks must be self-unloading.
30. ____ Gas generation in contact with water requirements.
31. ____ Standard conditions for custom asbestos.
32. ____ Standard conditions for generic asbestos.
33. ____ Standard conditions for custom labpacks.
34. ____ Standard conditions for generic labpacks.
35. ____ All drivers delivering material to ESII must be in possession of Personal Safety Equipment to include coveralls, boots/bootcovers, gloves, hardhats, safety glasses and respirators as needed. If ESII must provide any Personal Safety it will be billed under this Disposal Order/Contract at a standard rate.

ESII USE ONLY

Initial Review _____ Second Review _____ Final Review _____

Date Approved _____ Date Denied _____ Compatability _____

Treatment/Disposal Routing _____

Fingerprint Parameters Preacceptance Range:		Process Control Parameters	Acceptable Range:
pH	—	Paint Filter test	—
Visual Inspection	—	Free Lime	—
Paint Filter Test	—		—
Water Reactivity	—		—
Spark Test	—		—
Flame Test	—		—
	—		—
	—		—
	—		—
	—		—
	—		—
	—		—

EXHIBIT 10

Vendor | Due Date

REC NOV 16 1989 ARR

ACCT. NO. | W. O. NO.

NORTH STATE ENVIRONMENTAL

Chemical Waste Disposal • Trucking • Consulting

November 14, 1989

Dan Peterson
Peterson Metal Fabricating
P.O. Box 3940
Hayward, CA 94540

Dear Mr. Peterson,

Enclosed is the profile for your asbestos waste.
Please sign and return this form to me at:

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

Thank you,

Gary C. Jensen
Technical Sales Representative

GCJ/cjh

P.O. BOX 5624 • SOUTH SAN FRANCISCO, CALIFORNIA 94083-5624 • (415) 588-2838
FAX: (415) 588-1950

Alameda County Health Care Services Agency

Department of Environmental Health

Permit

This is to certify that PETERSON METAL FABRICATORS,
doing business as SAME, is permitted
to operate a (1) UNDERGROUND STORAGE TANK,
at 20478 Mission Blvd., Hayward, CA 94541.

This permit is not transferable and is good until
6 MONTHS FROM DATE OF ISSUANCE.

Issued this Twenty Fifth day of October, 19 89.

Edgar B. Howell
Sanitarian

By Authority of
County Health Officer

400-WA-2-3/87

EXHIBIT 9

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

EXHIBIT 8

RECYCLE / REUSE

MANIFEST Nº 913868 ✓

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible] ✓ Manifest Document No. [illegible]
2. Page 1 of [illegible]

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address [illegible] ✓
4. Generator's Phone ([illegible]15) [illegible]-75[illegible] ✓

A. State Manifest Document Number

B. State Generator's ID HAHQ36-012942

5. Transporter 1 Company Name [illegible] ✓
6. US EPA ID Number CAD[illegible]
C. State Transporter's ID 003173
D. Transporter's Phone (415)588-2838 ✓

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

9. Designated Facility Name and Site Address
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380 ✓

10. US EPA ID Number LAD981057706
G. State Facility's ID
H. Facility's Phone (504) 631-3161 ✓

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. [illegible], Combustible Liquid, [illegible] ✓	2	D[illegible]	1000	P	Non-RRg. ✓
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE

55gal drums containing: 45% silica, 25% titanium dioxide, 1-5% xylene, 1-5% methyl ethyl ketone, 2% carbon black, 25% water, <1% surfactant.
MSP approval code NSTE/PTS/8904806.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

[illegible] goggles, and respirator if drums are opened.

IF UNABLE TO DELIVER, RETURN TO GENERATOR

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

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

Printed/Typed Name: GEORGE W. ROBINSON ✓ Signature: [signature] Month Day Year: 10 10 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JOHN M. ERICKSON ✓ Signature: [signature] ✓ Month Day Year: 10 10 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: ~~GEORGE W. Robinson~~ Signature: ~~George W. Robinson~~ Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Dicky J. Creppell Signature: [signature] Month Day Year: 10 11 5 89

EPA Form 8700-22 (Rev. 9/88) WHITE – DEQ, GREEN – Generator, YELLOW – TSDRF, BLUE – Transporter 2, PINK – Transporter 1, GOLD – Generator DEQ FORM HW-3 (R 9/88)

EXHIBIT 7

6181

NORTH STATE ENVIRONMENTAL
P. O. Box 5624
South San Francisco, CA 94083-5624

NAME Peterson Metal Fabricating
ADDRESS 20478 Mission Blvd
SHIP TO Hayward
ADDRESS

ORDER NO.	TERMS	DATE
		8/30/89

WHEN SHIP	SALESMAN	BUYER	HOW SHIP

2	17H DRUMS

REDIFORM 5L510/01510 CARBONLESS

EXHIBIT 6

NORTH STATE ENVIRONMENTAL

Chemical Waste Disposal • Trucking • Consulting

August 29,1989

Dan Peterson
Peterson Metal Fabricating Inc.
P.O. Box 3940
Hayward, CA 94540

Dear Mr. Peterson,

The disposal site for your paint sludge waste, Marine Shale Processors Inc., is currently shut down for maintenance. They are scheduled to re-open on September 11th. We will call you to schedule a pick-up of your waste as soon as we have set up a delivery to MSP.

Since profiling your waste to another site would take at least a month, and would incur high cost, I feel that waiting for MSP to re-open is the most expidient solution to your waste disposal problem.

Sincerely,

Gary C. Jensen
Technical Sales Representative

GCJ/cjh

Vendor	Due Date
REC AUG 3 0 1989 ARP	
ACCT. NO.	W. O. NO.

P.O. BOX 5624 • SOUTH SAN FRANCISCO, CALIFORNIA 94083-5624 • (415) 588-2838
FAX: (415) 588-1950

EXHIBIT 5

ORO LOMA SANITARY DISTRICT

2600 GRANT AVENUE
SAN LORENZO, CALIFORNIA 94580
TELEPHONE (415) 276-4700

August 21, 1989

Peterson Metal Fabricating, Inc.
P. O. Box 3940
Hayward, CA 94540

Attn: Dan Peterson

Dear Dan:

Thank you for providing the technical literature describing "Steam Phos". After reviewing the data provided, and the concentrations you deal with, I cannot see any potential problems with its use at this time.

Cordially,

Al Camisa
Plant Chemist

AC/jk

Vendor	Due Date
REC AUG 22 1989 ARP	
ACCT. NO.	W. O. NO.

EXHIBIT 3

STATE OF CALIFORNIA — WATER RESOURCES CONTROL BOARD

FORM 'A':
SITE

UNDERGROUND STORAGE TANK PROGRAM
FACILITY/SITE, INFORMATION and/or PERMIT APPLICATION

COMPLETE THIS FORM FOR EACH FACILITY/SITE

No. 11773

MARK ONLY ONE ITEM				
[XX] 1 NEW PERMIT	[ ] 3 RENEWAL PERMIT	[ ] 5 CHANGE OF INFORMATION	[ ] 7 PERMANENTLY CLOSED SITE
[ ] 2 INTERIM PERMIT	[ ] 4 AMENDED PERMIT	[ ] 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS — (MUST BE COMPLETED)

FACILITY/SITE NAME: Peterson Metal Fabricating	CARE OF ADDRESS INFORMATION		
ADDRESS: 20478 Mission Blvd.	NEAREST CROSS STREET: Mattox	[✓] CORPORATION [ ] INDIVIDUAL [ ] PARTNERSHIP [ ] LOCAL-AGENCY [ ] COUNTY-AGENCY [ ] STATE-AGENCY [ ] FEDERAL-AGENCY	
CITY NAME: Hayward	STATE: CA	ZIP CODE: 94541	SITE PHONE #, WITH AREA CODE: (415) 278-7500
TYPE OF BUSINESS: [ ] 1 GAS STATION [ ] 2 DISTRIBUTOR [ ] 3 FARM [ ] 4 PROCESSOR [XX] 5 OTHER	[✓] Box if INDIAN RESERVATION or TRUST LANDS [ ]	EPA ID #: CAX000124883	# of TANK's AT THIS SITE: 1

EMERGENCY CONTACT PERSON (PRIMARY)		EMERGENCY CONTACT PERSON (SECONDARY)	
DAYS: NAME (LAST, FIRST): Peterson, Daniel	PHONE # WITH AREA CODE: (415) 278-7500	DAYS: NAME (LAST, FIRST): Peterson, Edward	PHONE # WITH AREA CODE: (415) 278-7500
NIGHTS: NAME (LAST, FIRST): Peterson, Daniel	PHONE # WITH AREA CODE: (415) 482-2460	NIGHTS: NAME (LAST, FIRST): Peterson, Edward	PHONE # WITH AREA CODE: (415) 582-2701

II. PROPERTY OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME: dba Peterson Metal Fabricating A. R. Peterson & Sons/	CARE OF ADDRESS INFORMATION		
MAILING or STREET ADDRESS: P. O. Box 3940	[✓] CORPORATION [ ] INDIVIDUAL [ ] PARTNERSHIP [ ] LOCAL-AGENCY [ ] COUNTY-AGENCY [ ] STATE-AGENCY [ ] FEDERAL-AGENCY		
CITY NAME: Hayward,	STATE: CA	ZIP CODE: 94540	PHONE #, WITH AREA CODE: (415) 278-7500

III. TANK OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME: Peterson Metal Fabricating	CARE OF ADDRESS INFORMATION		
MAILING or STREET ADDRESS: 20478 Mission Blvd.	[✓] CORPORATION [ ] INDIVIDUAL [ ] PARTNERSHIP [ ] LOCAL-AGENCY [ ] COUNTY-AGENCY [ ] STATE-AGENCY [ ] FEDERAL-AGENCY		
CITY NAME: Hayward,	STATE: CA	ZIP CODE: 94541	PHONE #, WITH AREA CODE:

IV. LEGAL NOTIFICATION AND BILLING ADDRESS

CHECK ONE (1) BOX INDICATING **WHICH ABOVE ADDRESS** SHOULD BE USED FOR **BOTH** LEGAL NOTIFICATION AND BILLING: I. [ ] II. [XX] III. [ ]

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

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE
Peterson Metal Fabricating-Daniel C. Peterson General Manager	08-16-89

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FACILITY ID #	# of TANKS at SITE

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE

PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE

LOCATION CODE	CENSUS TRACT #	SUPERVISOR-DISTRICT CODE	BUSINESS PLAN FILED YES [ ] NO [ ]	DATE FILED

CHECK #	PERMIT AMOUNT	SURCHARGE AMOUNT	FEE CODE	RECEIPT #	BY:

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE TANK PERMIT **FORM 'B'** APPLICATION(S), UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

FORM A (3-2-88)

DATA PROCESSING COPY

EXHIBIT 4

STATE OF CALIFORNIA WATER RESOURCES CONTROL BOARD

FORM 'B': TANK

UNDERGROUND STORAGE TANK PROGRAM
TANK PERMIT APPLICATION INFORMATION

COMPLETE A SEPARATE FORM WITH THE FOLLOWING INFORMATION FOR EACH TANK.

No. 22332

MARK ONE ITEM				
[X] 1 NEW PERMIT	[ ] 3 RENEWAL PERMIT	[ ] 5 CHANGE OF INFORMATION	[ ] 7 PERMANENTLY CLOSED TANK
[ ] 2 INTERIM PERMIT	[ ] 4 AMENDED PERMIT	[ ] 6 TEMPORARY TANK CLOSURE	[ ] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: Peterson Metal Fabricating — FARM TANK - YES [ ] NO [ ]

I. TANK DESCRIPTION — COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

A. OWNERS TANK ID #	B. MANUFACTURED BY:
C. YEAR INSTALLED unknown	D. TANK CAPACITY IN GALLONS: 8,000

II. TANK CONTENTS — IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.

A. [XX] 1 MOTOR VEHICLE FUEL [ ] 2 PETROLEUM [ ] 3 CHEMICAL PRODUCT [ ] 4 OIL [ ] 5 HAZARDOUS [ ] 80 EMPTY [ ] 95 UNKNOWN

B. [XX] 1 PRODUCT [ ] 2 WASTE

C. [XX] 1 UNLEADED [ ] 2 LEADED [ ] 3 DIESEL [ ] 4 GASAHOL [ ] 5 JET FUEL [ ] 6 AVIATION GAS [ ] 7 METHANOL [ ] 99 OTHER (DESCRIBE IN ITEM D, BELOW)

D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. # — C.A.S. #:

III. TANK CONSTRUCTION — MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM: [ ] 1 DOUBLE WALLED [XX] 2 SINGLE WALLED [ ] 3 SINGLE WALLED WITH EXTERIOR LINER [ ] 4 SECONDARY CONTAINMENT [ ] 95 UNKNOWN [ ] 99 OTHER

B. TANK MATERIAL: [ ] 1 STEEL/IRON [ ] 2 STAINLESS STEEL [ ] 3 FIBERGLASS [ ] 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC [ ] 5 CONCRETE [ ] 6 POLYVINYL CHLORIDE [ ] 7 ALUMINUM [ ] 8 100% METHANOL COMPATIBLE FRP [ ] 9 BRONZE [ ] 10 GALVANIZED STEEL [XX] 95 UNKNOWN [ ] 99 OTHER

C. INTERIOR LINING: [ ] 1 RUBBER LINED [ ] 2 ALKYD LINING [ ] 3 EPOXY LINING [ ] 4 PHENOLIC LINING [ ] 5 GLASS LINING [ ] 6 UNLINED [XX] 95 UNKNOWN [ ] IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? [ ] YES [ ] NO [ ] 99 OTHER

D. CORROSION PROTECTION: [ ] 1 POLYETHLENE WRAP [ ] 2 TAR OR ASPHALT [ ] 3 VINYL WRAP [ ] 4 FIBERGLASS REINFORCED PLASTIC [ ] 5 CATHODIC PROTECTION [ ] 91 NONE [XX] 95 UNKNOWN [ ] 99 OTHER

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

A. SYSTEM TYPE	A (U) 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 91 NONE	A U 95 UNKNOWN	A U 99 OTHER
B. CONSTRUCTION	A (U) 1 SINGLE WALLED	A U 2 DOUBLE WALLED	A U 3 LINED TRENCH	A U 91 NONE	A U 95 UNKNOWN	A U 99 OTHER
C. MATERIAL	A U 1 STEEL/IRON	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE	A U 91 NONE	
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL CLAD W/FRP	A U 6 100% METHANOL COMPATIBLE FRP		
	A U 9 GALVANIZED STEEL	A (U) 95 UNKNOWN	A U 99 OTHER			

V. LEAK DETECTION SYSTEM — CIRCLE P FOR PRIMARY, OR S FOR SECONDARY, A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.

P S 1 VISUAL CHECK (P) S 2 INVENTORY RECONCILIATION P S 3 VADOSE WELLS P S 4 ELECTRONIC MONITOR P S 5 GROUND WATER MONITORING WELLS
P S 6 PRECISION TESTING P S 7 PRESSURE TESTING P (S) 91 NONE P S 95 UNKNOWN P S 99 OTHER

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL?
		[ ] YES [ ] NO

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

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE
Peterson Metal Fabricating — Daniel C. Peterson, General Manager	08-16-89

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FACILITY ID #	TANK ID #

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE

PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE

CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:

FORM B (6-29-88) THIS FORM MUST BE ACCOMPANIED BY A FACILITY/SITE APPLICATION, FORM 'A', UNLESS A CURRENT FORM 'A' HAS BEEN FILED

DATA PROCESSING COPY

Official Registration Form

California Water Resources Control Board

Hazardous Substance Storage Statement

Who Must File: Each person storing hazardous substances in any underground container must file this form no later than July 1, 1984 (After October 1, 1984 and no later than January 1, 1985 for tanks used on farms).

Definition of Underground Containers: The law applies to "concrete sumps, nonvaulted buried tanks or other underground containers." (Water Code section 13173) All containers, including earthen walled pits, ponds, lagoons and sumps, that are below the normal ground surface level must register. A tank sitting on the ground is not included. Containers partially beneath the surface are included. Lined or unlined pits, ponds and lagoons are covered if earth has been removed from the storage area to construct the facility. Normal grading is not considered construction below ground level.

Definition of Hazardous Substance: Any substance listed in Section 6382 of the Labor Code or in Section 25316 of the Health and Safety Code. This includes: gasoline, diesel fuel, all industrial solvents, pesticides, herbicides and fumigants. If the material must be carried by a registered hauler, disposed of at a hazardous waste site, is explosive, generates pressure due to heat or decomposition or would harm humans or wildlife you must register the tank. Wastes are included.

Fee: For each tank registered a $10 fee must be paid, except that retail gasoline stations pay $5 per tank.

Penalties: For failure to file, the penalty is $500-$5,000 per day. If you falsify information, you can be fined up to $20,000 for each day the information is incorrect and has not been corrected.

Confidentiality: If you have information protected by trade secret laws, please attach a list of the information on this form that is confidential and the justification for confidentiality, including specific citations of relevant statutory and case law.

Multiple Containers: Fill I and II on one form and leave it blank on all the remaining forms. Attach all forms together securely. If you own more than 50 tanks you can file information on computer tape. Call 916/324-1262 for information.

This is not a Permit Application. All Underground Tanks will be subject to local regulation. Some jurisdictions have already begun programs. Check with your local county government for further information.

NOTE: ALL UNDERGROUND CONTAINERS MUST REGISTER EVEN IF STATE AND/OR LOCAL PERMITS ARE IN FORCE.

I Owner

Name (Corporation, Individual or Public Agency)			
Peterson Metal Fabricating			
Street Address: 20478 Mission Boulevard	City: Hayward	State: CA	ZIP: 94541

II Facility

Facility Name	Dealer/Foreman/Supervisor		
Peterson Metal Fabricating	N/A		
Street Address: 20478 Mission Boulevard		Nearest Cross Street: Maddex	
City: Hayward	County: Alameda		ZIP: 94541
Mailing Address: P.O. Box 3940	City: Hayward	State: CA	ZIP: 94540
Phone w/area code: (415) 278-7500	Type of Business: ☐ 01 Motor Vehicle Fuel Station ☒ 02 Other: Metal Fabricating		

Number of Tanks at this Facility	Rural Areas Only:	Township	Range	Section
1				

III 24 Hour Emergency Contact Person

Days. Name (last name first) and Phone w/area code	Nights. Name (last name first) and Phone w/area code
Edward Peterson (415) 278-7500	Edward Peterson (415) 582-2813

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV Description

A. ☒ 01 Tank ☐ 02 Sump ☐ 03 Lagoon, Pit or Pond ☐ 04 Other: _____ **Container Number** (if there is no number, assign one): 1

B. Manufacturer (if appropriate): _____ Year of Mfg.: _____ C. Year Installed: _____ ☒ Unknown

D. Container Capacity 8,000 gallons ☐ Unknown E. Container Repairs: ☒ 01 None ☐ 02 Unknown ☐ 03 Yes Year: _____

F. Is Container currently used? ☒ 01 Yes ☐ 02 No If No, year of last use: _____ ☐ 03 Unknown

G. Does the Container Store (Check One): ☐ 01 Waste ☒ 02 Product

H. Does the Container Store Motor Vehicle Fuel or Waste Oil? ☒ 01 Yes ☐ 02 No If Yes, Check appropriate box(es):

☐ 01 Unleaded ☐ 02 Regular ☒ 03 Premium ☐ 04 Diesel ☐ 05 Waste Oil ☐ 06 Other (List): _____

V Container Construction

A. Thickness of Primary Containment: _____ ☐ Gauge ☐ Inches ☐ cm ☒ Unknown

B. ☐ 01 Vaulted (Located in an underground Vault.) ☒ 02 Non-vaulted ☐ 03 Unknown

C. ☐ 01 Double Walled ☒ 02 Single Walled ☐ 03 Lined ☐ 04 Wrapped ☐ 05 Unknown ☐ 06 None

D. ☐ 01 Carbon Steel ☐ 02 Stainless Steel ☐ 03 Fiberglass ☐ 04 Polyvinyl Chloride ☐ 05 Concrete ☐ 06 Aluminum

☐ 07 Steel Clad ☐ 08 Bronze ☐ 09 Composite ☐ 10 Non-metallic ☐ 11 Earthen Walls

☒ 12 Unknown ☐ 13 Other: _____

E. ☐ 01 Rubber Lined ☐ 02 Alkyd Lining ☐ 03 Epoxy Lining ☐ 04 Phenolic Lining ☐ 05 Glass Lining ☐ 06 Clay Lining

☐ 07 Unlined ☒ 08 Unknown ☐ 09 Other: _____

F. ☐ 01 Polyethlene Wrap ☐ 02 Vinyl Wrapping ☐ 03 Cathodic Protection ☒ 04 Unknown ☐ 05 None ☐ 09 Other: _____

VI Piping

A. Associated P[illegible]: ☐ 01 Above Ground ☒ 02 Underground ☐ 03 [illegible]

B. Underground Piping: ☐ 01 Gravity ☐ 02 Pressure ☒ 03 Suction ☐ 04 Unknown

C. Piping Repairs: ☐ 01 None ☐ 02 Unknown ☒ 03 Yes, Year of most recent repair: 8 Years

VII Leak Detection

☐ 01 Visual ☐ 02 Stock Inventory ☐ 03 Tile Drain ☐ 04 Vapor Sniff Wells ☐ 05 Sensor Instrument

☐ 06 Ground Water Monitoring Wells ☐ 07 Pressure Test ☐ 08 Internal Inspection ☒ 09 None

☐ 10 Other: _____

VIII Chemical Composition of Materials *Currently* or *Previously* Stored in Underground Containers

If you checked yes to IV-H you are not required to complete this section.

currently stored	previously stored	CAS # (If known)	Chemical *Do Not Use Commercial Name* (Use additional paper for more room)
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		
☐ 01	☐ 02		

Is Container located on an Agricultural Farm? ☐ 01 Yes ☒ 02 No

IX IMPORTANT! Read instructions before signing:

Signature: The form must be signed by 1) a principal executive officer at the level of vice-president or by an authorized representative. The representative must be responsible for the overall operation of the facility where the tank(s) are located. 2) a general partner proprietor, or 3) a principal executive officer, ranking elected official or authorized representative of a public agency.

This form has been completed under the penalty of perjury and, to the best of my knowledge, is true and correct.

Signature		Date
Edward Peterson		6-13-86
Printed Name	**Title**	**Phone w/area code**
Edward Peterson	Sec/Treasurer	(415) 278-7500

Send check to: Hazardous Substance Storage Statement, State Water Resources Control Board, P.O. Box 100, Sacramento, CA 95801-0100

Person Filing Statement	Phone w/area code
Edward Peterson	(415) 278-7500

For additional forms or more information call 916/324-1262

FOR STATE USE ONLY

ID Number	Accounting Number:	County Number:	
Date Received	☐ 01	☐ 02	☐ 03

EXHIBIT 2

PETERSON
METAL FABRICATING, INC.
P.O. BOX 3940, HAYWARD, CA 94540
(415) 278-7500
Formerly A. R. Peterson & Sons

TELECOPIER COVER LETTER

Please deliver the following page(s) to

Company Ora Loma Sanitary District

Attention Al Camisa

Department _____

Fax # 276 1528 Phone # 276 4700

Total number of pages including cover letter 5

From Dan Peterson

If you do not receive all pages or if transmission is not legible please call (415) 278-7500.

OUR FACSIMILE NUMBER IS (415) 278-7512

ADDITIONAL INFORMATION

278 1747

PETERSON
METAL FABRICATING, INC.

P.O. BOX 3940, HAYWARD, CA 94540
(415) 278-7500

Formerly A. R. Peterson & Sons

August 15, 1989

Ora Loma Sanitary District
2600 Grant Ave.
San Lorenzo, CA 94580

Attn: Al Camisa

Dear Mr. Camisa,

The accompanying information describes the "Steam Phos" that we use to clean our parts before painting for which you asked. I also got the pH level of the solution from Technology Chemical INc. In the diluted form that we use, which is between 50:1 to 100:1 with water, the pH is from 4.5 to 5.5 respectively. We are presently doing this steam cleaning in an open loading dock which drains into Ora Loma Sanitary District.

As I indicated to you in our phone conversation this morning, I would like your approval to continue cleaning our parts in the manner of which we have become accustom since any discharge into Ora Loma falls under your jurisdiction.

Thank You,

PETERSON METAL FABRICATING

Dan Peterson

DP:tgg

TECHNOLOGY CHEMICAL, INC.

P.O. Box 13314 / Oakland, California 94661 / (415) 339-3066

TECHNICAL DATA

STEAM PHOS

A phosphate coating system through your steam cleaner

DESCRIPTION:

STEAM PHOS is a combination cleaner-phosphatizer material designed to withstand the high temperature ranges encountered with steam application. Use STEAM PHOS to prepare steel and aluminum substrates prior to painting and for limited corrosion protection. STEAM PHOS is especially useful where tank and spray operations are not possible, and hand application, impractical. This compound contains surfactants, chelants and solvents for cleaning, and, phosphate for surface preparation.

PHYSICAL TRAITS:

Form	Liquid
Color	Clear, straw
Odor	Mild, acidic
pH	Acid
Rinsing	Complete
Emulsification	Rapid

USAGE:

Equipment	Use STEAM PHOS with acid resistant steam cleaner parts.
Temperature	General temperature range 190°F-215°F.
Concentration	Varies with soil condition and coating weight desired. Generally use at 3 to 6 ounces per gallon of water.
Use	Mix desired amount into solution tank of steam cleaner. Steam clean parts as usual. No rinsing necessary.

SAFETY:

STEAM PHOS contains phosphoric acid. If skin contact occurs flush with water. Should eye contact occur flush with copious amounts of water. Use with protective gear including goggles, gloves, apron and boots. Safe on all metals. Continuous exposure on galvanized and zinc will cause deleterious corrosion. Do not take internally.

50 to 1 4.5 - 5.5

We appreciate this opportunity to be of service to Peterson Metal Fabricating, Inc. Should you have any questions about our company or products, please contact me.

Sincerely,

David S. Kornblith
President

enclosures

DSK/rft

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
Technology Chemical, Inc.	(415) 339-3066

ADDRESS (Number, Street, City, State, and ZIP Code)
P.O. Box 13268 Oakland, CA 94661

CHEMICAL NAME AND SYNONYMS	TRADE NAME AND SYNONYMS
Blend	STEAM PHOS

CHEMICAL FAMILY	FORMULA
Phosphatizer	Blend

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES		%	TLV (Units)
Inorganic Acids	15-25	%	
Surfactant, Chelators	5-10	%	
Glycol Ether	3-5		
Inhibitors, inorganic salts	1-3		

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	235°F	SPECIFIC GRAVITY (H_2O=1)	1.22
VAPOR PRESSURE (mm Hg.)		PERCENT, VOLATILE BY VOLUME (%)	
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____=1)	
SOLUBILITY IN WATER	100%		

APPEARANCE AND ODOR Clear, straw color; mild acidic odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
None			

EXTINGUISHING MEDIA
N/A

SPECIAL FIRE FIGHTING PROCEDURES
N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS
N/A

(Continued on reverse side)

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE Headache, slight nausea

EMERGENCY AND FIRST AID PROCEDURES Flush with water should skin contact occur. Apply sodium biocarbonate paste. If taken internally drink water and take acid neutralizer. Avoid lavage or emetics.

SECTION VI - REACTIVITY DATA

STABILITY			CONDITIONS TO AVOID
	UNSTABLE		
	STABLE	X	

INCOMPATABILITY *(Materials to avoid)* Alkaline

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS POLYMERIZATION			CONDITIONS TO AVOID
	MAY OCCUR		
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Neutralize with sodium biocarbonate. Flush with water.

WASTE DISPOSAL METHOD

Determined by local pollution standards.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)* N/A

VENTILATION		
	LOCAL EXHAUST Desirable	SPECIAL
	MECHANICAL *(General)* N/A	OTHER

PROTECTIVE GLOVES Acid resistant

EYE PROTECTION Goggles or face shield

OTHER PROTECTIVE EQUIPMENT Apron, boots

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Avoid alkaline materials.

OTHER PRECAUTIONS

Do not store in direct sunlight.

Code as SP

DATE:

TO : Local Oversight Program

FROM:

SUBJ: Transfer of Elligible Oversight Case

Site name: Peterson Metal Fabricating

Address: 20478 Mission Blvd city Hayward zip 94541

Closure plan attached? Y (N) DepRef remaining $ 20.25 (according to Candyce)

DepRef Project # 1006A STID #(if any) 1359

Number of Tanks: 1 removed? (Y) N Date of removal 6-20-90

Samples received? (Y) N Contamination: Yes TPHg, BTEX

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

Monitoring wells on site 0 Monitoring schedule? Y (N) Discover July 26, 90

LUFT category 1 2 3 * H S C A R W G O

Briefly describe the following:

Preliminary Assessment Took 1 piping sample - showed high contamination Did 1 sample beneath tank only, later followed up with boring.

Remedial Action

Post Remedial Action Monitoring

Enforcement Action No NOVs - numerous letters

(1) Did tank removal 6/90 - our staff not present, Eden Fire only. Inadequate sampling. 1 sample from below tank showed low levels of TPHg + BTEX. Piping (dispenser) samples showed high levels of some (15000ppm). No stockpile samples taken that day. This dirt was replaced in hole.

(2) Told them this sampling was inadequate - come up w/ sampling plan they proposed borings.

(3) Did borings - got N.D. results. Unresolved: fill soils - these were never tested. They were mixed w/ pea gravel + replaced. Consultant has argued they need not be tested. He's wrong, of course.

Project Background
February 5, 1986
IE 180 — Dr. Grassi

Team: **Number 6** (Thomas Muller, Dipti Shabde)

Project: U.C. Berkeley Microfabrication Lab

Description: The Microfabrication Laboratory in Cory Hall is a research facility for device electronics. It is open twenty-four hours a day to approximately 150 qualified users, and maintained by a full time staff of ten people.

Inside the lab are work rooms for processing, testing, and analyzing devices (see map attached). Service chases are located between most rooms, which contain utilities vital to experimentation and production (gases, electricity, water, computer connections, drains, etc.). The utilities run along the lab ceiling, down into the chases, and through the walls into the work rooms.

Lab Facts:

Work rooms (see map attached)	16
Service chases	13
Fabrication equipment (major pieces)	90
Utility types throughout lab (oxygen, water, etc)	13
Specialized utilities with limited distribution (silane, argon, etc)	16

Problem: The lab management wishes to store the relationships between the utilities and equipment, and to be able to display pictorially these relationships on a graphics workstation. The ultimate goal is to display a map (such as the one attached) on the screen, choose a room with a mouse, zoom in on the display, and determine information about the status of the equipment, the people using it, and the utilities connected to it. With the lab controller presently installed, staff wishes to enable or disable equipment through the graphics interface.

Contacts: Katalin Voros, Lab Manager (642-2716);

Prof. D. A. Hodges, Advisor (642-3948);

Prof. L. Rowe, Database Specialist;

A. CAD layout
B. lab controller w/ monitor

not addressing person issues
drawing w/ ...
by item state