Activities Report Go

SHELL (T0600101556) - MAP THIS SITE

OPEN - REMEDIATION

3495 CASTRO VALLEY BLVD
CASTRO VALLEY , CA 94546
ALAMEDA COUNTY
VIEW PRINTABLE CASE SUMMARY FOR THIS SITE

ACTIVITIES REPORT

PUBLIC WEBPAGE

CLEANUP OVERSIGHT AGENCIES
ALAMEDA COUNTY LOP *(LEAD)* - *CASE #: 013747*
SAN FRANCISCO BAY RWQCB (REGION 2) - *CASE #: 01-1684*

THIS PROJECT WAS LAST MODIFIED BY ***PARESH KHATRI*** ON 4/22/2010 12:48:03 PM - HISTORY

ACTIVITIES REPORT

ACTIVITY TYPE FILTER: Show All Activities Go

*** INDICATES A REVISED DUE DATE**

SCHEDULE NEW REGULATORY ACTION

SCHEDULE NEW COMPLIANCE RESPONSE / SCHEDULE RECURRING

ACTION TYPE	ACTION	ACTION DATE	RECEIVED / ISSUE DATE	ACTION DESCRIPTION
LEAK ACTION	Leak Stopped	6/11/1990		
LEAK ACTION	Leak Reported	11/7/1988		
LEAK ACTION	Leak Discovery	11/7/1988		

LOGGED IN AS TEENALEKHAN

CONTACT GEOTRACKER HELP

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CLOSURE REVIEW

THIS VERSION IS IN PROGRESS AS OF 4/22/2010

CLOSURE REVIEW HISTORY

IS THIS CASE READY FOR CLOSURE? ○ YES ◉ NO - VIEW MAXIMUM CONCENTRATIONS REPORT

IMPEDIMENTS TO CLOSURE

Site Assessment Incomplete

- ☐ Incomplete Conceptual Site Model (CSM)
- Pollutant Sources Have Not Been Adequately Identified or Evaluated
- ☑ UST removed from the site. However, analytical data and/or Tank Removal Report not yet received. Further evaluation is pending.
- ☐ Extent of Contamination Has Not Been Determined
- Potential Risks, Threats, And Other Environmental Concerns Have Not Been Adequately Identified And Assessed
- ☑ Analytical data and/or Tank Removal Report not yet received. Further evaluation is pending. Therefore, potential risks and threats have not been fully evaluated.
- ☐ Sensitive Receptor Survey Has Not Been Completed
- ☐ Other

Inadequate Source Control

- ☐ Feasible Source Control Not Performed
- ☐ Remaining Source Poses Threat to Groundwater
- ☐ Other

Plume Instability

- ☐ Groundwater Contamination Plume Not Stable or Decreasing
- ☐ Significant Rebound In Concentrations After Remediation
- ☐ Verification Monitoring Not Complete
- ☐ Other

Groundwater Impacts

- ☐ Groundwater Impacted Above Background
- ☐ Groundwater Impacted Above Other Cleanup Goal
- ☐ Groundwater Will Not Meet Relevant WQOs Before the Beneficial Use of the Groundwater is Needed
- ☐ Other

Well Impacts

- ☐ Municipal Wells Impacted
- ☐ Municipal Wells Potentially Impacted
- ☐ Domestic Wells Impacted
- ☐ Domestic Wells Potentially Impacted
- ☐ Irrigation / Industrial Wells Impacted
- ☐ Irrigation / Industrial Wells Potentially Impacted
- ☐ De-Watering Well / Sump Impacted
- ☐ De-Watering Well / Sump Potentially Impacted
- ☐ Other

Unacceptable Risk

- ☐ Unacceptable Risks to Human Health from Soil
- ☐ Unacceptable Risks to Human Health from Vapor Intrusion
- ☐ Unacceptable Risk from Soil Contaminants Entering Surface Runoff
- ☐ Unacceptable Risk from Contaminated Groundwater Day Lighting to Surface Water
- ☐ Other

Land Use Impediments

- ☐ Proposed Change In Land Use (Need Additional RI and/or Cleanup)
- ☐ Risk Management Measures Need Agency Oversight (eg. Cap Maintenance)
- ☐ Other

Procedural Impediments

- ☐ Non-Responsive and / or Recalcitrant Responsible Party
- ☐ RP Says They Do Not Have Adequate Funds to Initiate or Continue Work at the Site
- ☐ Site Data And Reports Not Uploaded to Geotracker
- ☐ Monitoring Wells Not Yet Abandoned
- ☐ Landowner Objects to Case Closure
- ☐ Regional Water Board Objects to Closure
- ☐ Local Agency Objects to Case Closure
- ☐ Community Objects to Case Closure
- ☐ LOC Suspended
- ☐ Reimbursements Delayed
- ☐ Other

Other Impediments

Currently known and immediately relevant impediments to closure have been identified above in the context of this Closure Review Form. However, the impediments to closure identified above do not comprehensively describe the full scope of work that may be necessary to achieve case closure nor do they necessarily represent the full range of conditions to be evaluated on a site-specific basis during case closure review. In addition, as more information becomes available during progress of the case, additional impediments to closure may become known.

BENEFITS OF ADDITIONAL WORK

- ☐ Fill-in RI Data Gaps
- ☐ Complete CSM and Our Understanding of Hydrogeologic Regime and Fate and Transport of Contaminants
- ☐ Verify Remedial Action Effectiveness
- ☐ Remove / Reduce Source Mass
- ☐ Protect Designated Beneficial Uses
- ☐ Restore Beneficial Uses
- ☐ Protect Existing Water Supply Wells
- ☐ Protect Human Health
- ☐ Protect Ecological Receptors
- ☐ Restore Blighted Property to Productive Use
- ☐ Other

SENSITIVE RECEPTORS LIKELY TO BE IMPACTED AND TIME FRAME FOR IMPACT

Municipal Well	
Domestic Wells	
Groundwater	
Surface Water (Bay, Estuary, Stream, Lake)	
Storm drain (Runoff of contaminated soil)	
Indoor Air (Residential or Commercial)	
Irrigation / Industrial Well	
Other	

NOTES / COMMENTS

The information presented in this Case Closure Review form is limited to the specific topics listed in this form and does not represent all of the factors to be considered for case closure.

SPELL CHECK

Save as In Progress | Save as Final

Facility / Site Address Go

SHELL (T0600101556) - MAP THIS SITE

OPEN - REMEDIATION

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CASTRO VALLEY , CA 94546
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THIS PROJECT WAS LAST MODIFIED BY ***PARESH KHATRI*** ON 4/22/2010 12:48:03 PM - HISTORY

FACILITY / SITE ADDRESS

☐ THIS IS A "TEST PROJECT" (WILL BE EXCLUDED FROM PUBLIC SEARCH / REPORTS AND REGULATOR REPORTS)

PROJECT NAME
SHELL

☐ THIS PROJECT IS A RESIDENCE

STREET # 3495

STREET NAME / LOCATION CASTRO VALLEY BLVD

BUILDING #

CITY CASTRO VALLEY

STATE CA

ZIP 94546

COUNTY Alameda

CROSS STREET NAME

FIELDS CALCULATED BASED ON LATITUDE / LONGITUDE

GW BASIN NAME	WATERSHED NAME	COUNTY
Castro Valley (2-8)	South Bay - East Bay Cities (20420)	Alameda

SPELL CHECK

LOGGED IN AS TEENALEKHAN

CONTACT GEOTRACKER HELP

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PROJECT INFORMATION

PROJECT STATUS HISTORY

SITE TYPE	STATUS	STATUS DATE
LUST Cleanup Site	Open - Remediation	4/3/1992

FUNDING FOR CLEANUP	FILE LOCATION	RP IDENTIFICATION	RP ID DATE

HUMAN HEALTH EXPOSURE - INFO		GROUNDWATER MIGRATION - INFO		FINAL REMEDY FOR CLEANUP			
CONTROLLED?	DATE	CONTROLLED?	DATE	SELECTED?	DATE	IMPLEMENTED?	DATE

STAFF NOTES (INTERNAL)

SITE HISTORY (PUBLIC)

CLEANUP OVERSIGHT AGENCIES

CASE NUMBER	CLEANUP OVERSIGHT AGENCY	LEAD	LEAD DATE	END DATE
013747	ALAMEDA COUNTY LOP	✔	11/7/1988	
01-1684	SAN FRANCISCO BAY RWQCB (REGION 2)			

LATITUDE/LONGITUDE INFORMATION MUST BE IN THE GEOGRAPHIC NAD83 COORDINATE SYSTEM:

LATITUDE	LONGITUDE	BUFFER (IN FEET)	LAT / LONG SOURCE
37.6954	-122.07291	50	* Historical Geocode - Exact Address Match

CLICK HERE TO RE-POSITION THIS PROJECT ON THE MAP

SPELL CHECK

Activities Report Go

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OPEN - REMEDIATION

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PROJECT STATUS HISTORY

PROJECT STATUS	STATUS DATE	DATE UPDATED
Open - Remediation	4/3/1992	4/3/1992
Open - Site Assessment	2/20/1990	2/20/1990
Open - Case Begin Date	11/7/1988	11/7/1988

LOGGED IN AS TEENALEKHAN

CONTACT GEOTRACKER HELP

Project Summary Go

SHELL (T0600101556) - MAP THIS SITE

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PROJECT INFO

SITE TYPE	STATUS	STATUS DATE
LUST CLEANUP SITE	OPEN - REMEDIATION	4/3/1992

CONTACTS

THERE ARE CURRENTLY NO CONTACTS ASSOCIATED WITH THIS PROJECT

LOGGED IN AS TEENALEKHAN

CONTACT GEOTRACKER HELP

Risk Information Go

SHELL (T0600101556) - MAP THIS SITE

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RISK INFORMATION

RELEASE TYPE

CONTAMINANT(S) OF CONCERN
GASOLINE

INTERNAL PRIORITY (OPTIONAL)

REDEVELOPMENT PLANNED - INFO
○ YES ○ NO

CURRENT LAND USE
NONE SPECIFIED

BENEFICIAL USE
NONE SPECIFIED

MEDIA OF CONCERN
NONE SPECIFIED

VULNERABILITY BASIS

ADDITIONAL RISK DESCRIPTION (IF NEEDED)

 # IMPACTED DRINKING WATER WELLS

DRINKING WATER SUPPLY SHUT DOWN
○ YES ○ NO

THERE ARE 0 DHS SUPPLY WELLS WITHIN 1/2 MILE OF THIS SITE (INCLUDING SITE BUFFER)

WELL IMPACT DESCRIPTION

REPORT DATE
11/7/1988

RELEASE DESCRIPTION

STOP DATE
6/11/1990

STOP METHOD

STOP DESCRIPTION

DISCHARGE DATE

DISCHARGE CAUSE

DISCHARGE SOURCE

DISCHARGE DESCRIPTION

DISCOVERED DATE
11/7/1988

HOW DISCOVERED

HOW DISCOVERED DESCRIPTION

QUANTITY (GALLONS)

HAZMAT INCIDENT FILED WITH OES?

LEAK CONFIRMED AS A VAPOR RELEASE?

SPELL CHECK

LOGGED IN AS TEENALEKHAN

CONTACT GEOTRACKER HELP

GEOTRACKER

LAYERS

- [x] Leaking Underground Tank (LUST) Cleanup Sites
- [x] Other Cleanup Sites
- [x] Land Disposal Sites
- [x] Military Sites
- [ ] Permitted Underground Storage Tank (UST) Facilities
- [x] Monitoring Wells
- [ ] DTSC Cleanup Sites
- [ ] DTSC Haz Waste Permit

CLEANUP STATUS FILTER

All Cleanup Statuses

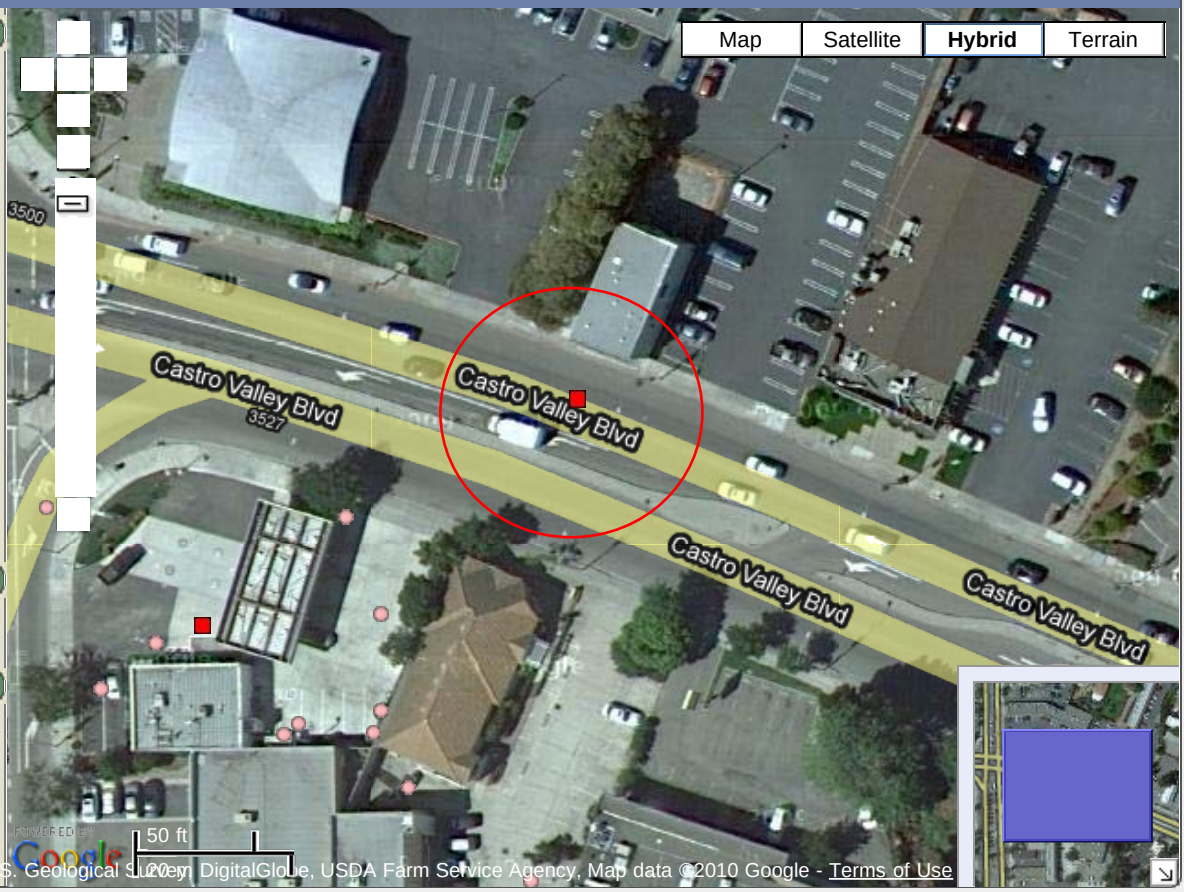
MAP SIZE

640x480

OPTIONS

- [x] Site List - EXPORT TO EXCEL

2 Sites



SITE LIST

	SITE NAME	GLOBAL ID	CLEANUP STATUS	ADDRESS	CITY
■	BP #11105 / SHELL 17-1445	T0600100920	OPEN - SITE ASSESSMENT	3519 CASTRO VALLEY	CASTRO VALLEY
■	SHELL	T0600101556	OPEN - REMEDIATION	3495 CASTRO VALLEY BLVD	CASTRO VALLEY

MAP AN ADDRESS: smallxmlpointsreg.asp?xmin=-122.07374542951582&xmax=-122.07202881574632&ymin=37.69483414723968&ymax=37.695852880130936&getsites=,LUFT,SLIC,LA Go!

AZ-13

aqua science engineers inc.

8/15/89

August 14, 1989

Mr. Scott Seery
Hazardous Materials Specialist
Alameda County Health Care Division
80 Swan Way, Rm 200
Oakland, CA 94621

RE: REVISED PLAN OF CORRECTION FOR WASTE OIL TANK AT SHELL SERVICE STATION, 3496 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CA

Dear Mr. Seery:

On behalf of Mr. Ted Simas of Xtra Oil Company I am providing you with the a revised Plan of Correction for the former waste oil tank located at the above address in response to our agreement to follow the foremat of the Regional Water Quality Control Board, Workplan for Initial Subsurface Investigation - Appendix A.

I. Introduction:

A 550-gallon waste oil tank was removed from the above property in 1989. Soil samples were not taken at the time of removal and, subsequently, the owner was contacted by your office requiring that a Plan of Correction be submitted for the proposed work. The following is the proposed plan to address agency concerns.

The subject waste oil tank was removed on Novemvber 11, 1988 and disposed of under a hazardous waste manifest, Appendix A. The tank was empty of all contents at the time of removal. An unauthorized release report was recently submitted and a copy is contained in Appendix B in responce to the soil sample results obtained by ASE on April 24, 1989, Appendix C.

A. Site Location. The site is located at 3496 Castro Valley Boulevard, Castro Valley, California.

B. Background. We were contacted by the owner of the site, Mr. Ted Simas, in early April 1989 and asked to collect a soil samples, per agency requirements, from beneath a 550-gallon waste oil tank located at the above address. On April 24, 1989 I contacted Mr. Scott Seery of Alameda County Health Services Department to inform him of the projected soil sample collection. Mr. Seery indicated that a Plan of Correction should be prepared prior to any activity at the site and submitted for his review.

D. Site History. The site was purchased in 1983 from ARCO Petroleum and since that time has been a retail fuel station for transportation fuels operating under the Shell Oil.

The underground storage tanks and lines are constructed of single-walled carbon steel. There are four operating tanks; 1-10,000 diesel, 1-10,000 gallon leaded

gasoline, and 2-10,000 gallon unleaded gasoline, Figure 1. No other tanks exist at the site. The site is served by four standard serivce islands with four dispensors per island. Tank testing records indicate that the subject waste oil tank was not tested by the present owner and it is not known if the previous owner performed the tests. Tank testing results for the remaining tanks indicates that the tanks are within acceptable standads, Appendix D.

II. Site Description

A. The site is located in a commercial/residentail area of Castro Valley, California. The site is a retail Shell Service Station located at the Southwest corner of Castro Valley Boulevard and Redwood Road in Castro Valley, California (Figure 1). The station retails fuel only and does not have garage facilities. Currently, the station has four 10,000-gallon underground fuel tanks servicing the facility. The subject waste oil tank was used by the previous owner and was not in use under the present owner since the station changed ownership in 1983.

B. Soil Sampling Results.

On May 5, 1989 a single soil sample was taken in native soil from beneath the former 550-gallon waste oil tank. The sample was taken from a backhoe bucket by driving a 2-inch by 4-inch brass tube into the soil using a wooden mallet. The sample was removed from the soil, capped with Teflon tape and plastic end caps and placed on ice for delivery to the laboratory. The sample depth was approximately 11 feet below ground surface; groundwater was not encountered. The sample was analyzed for TPH-Heavy (EPA 3550/8015), Total Oil and Grease (EPA 9071), and volitle organics (EPA 8240 GC/MS). Detectabale constituents only are shown in Table I; all other constituents were below the level of detection.

III. Plan for Determining Extent of Soil and Groundwater Contamination on Site.

A. Based on the results of the soil sample taken from the former waste oil tank, we intent to further evaluate the impact of the release of contaminants from the waste oil tank on soil and groundwater in the vicinity of the site. ASE intends to complete the work in three tasks.

Task 1 Re-excavate soil from the waste oil tank and stockpile the soil on visqueen. We intend to excavate as much of the contaminated soil as possible. Soil samples will be taken from the excavated pit to confirm if the contaminated soil was removed. Soil samples will be collected from the stockpiled soil and the results will determine the suitability of disposal at a Class I or Class II site. No on site treatment is proposed.

Task 2 In accordance with agency guidelines, we intent to install and sample one groundwater monitoring well within 10 feet of the waste oil tank. According to the Alameda County Water District - Zone 7, the seasonal high for groundwater in the vicinity is 40 to 45 feet. Should groundwater not be encountered, the well will be completed into a clay aquitard 5-feet in thickness. Based on the results of the samples taken from the well, additional wells may be proposed.

Task 3 ASE will prepare a written report summarizing the work performed

AC-13

after completion of all field work and once analytical results are known. The report will include recommendations for further work and well sampling.

Task 1 - Re-excavate Tank Pit.

The excavation will take place in the area of the former waste oil tank. We proposed to excavate the pit and stockpile the removed soil on-site. Soil samples will be taken from areas from within the pit and from the stockpiled soil. At this time it is not known the quantity of soil to be removed, however every attempt will be made to remove all contaminated soil. Once the excavation is complete and soil sample results are known, the pit will be backfilled with imported backfill to ground surface.

We do not propose on-site treatment due to the limited size areaavailable for current soil remediation techniques. The contaiminated soil will be hauled to either a Class I or Class II disposal site within California, pending sample results.

Task 2 - Install a Groundwater Monitoring Well.

The hydrogeologic information in the site area is limited, however, groundwater is expected to be found at 40 to 45 feet.

The well will be installed within 10 feet of the waste oil tank and will be constructed of 4-inch diameter PVC casing with a locking christy box street cover. The proposed well will be installed to 15 feet into groundwater or terminated in an aquitard of at least 5 feet in thickness.

In the event that groundwater is not encountered either before a 5-foot clay aquitard is encountered or a depth of 45 feet is reached, the well will be completed to that depth. If groundwater is found, than two subsequent 2-inch diameter perimeter wells will be installed (proposed location, Figure 1).

Groundwater well MW-1 will be used to monitor groundwater on a monthly basis for the first quarter than quarterly for three quarters (per requirements of Alameda County Water District). Groundwater wells MW-2 and MW-3 will provide depth to groundwater measurements and directin of groundwater flow will be determined from the three wells.

The actual well construction of all wells will follow Alameda County Water District requirements. A typical well installation diagram is shown in Figure 2. In addition to following the requirements of Alameda County Water District we intent to design a gravel pack and well casing slot size based on the formation material encountered. Soil samples will be collected beginning at the maxium depth of the excavation and then at 5-foot intervals to groundwater.

Following installation each well will be developed, sampled and analyzed for the waste oil protocal (LUFT). Drill cuttings will either be stockpiled with the excavated soil material or placed into hazardous waste drums (17-H). The extracted groundwater from well development will be placed in seperate 17-H drums. All drums will be manifested as necessary. The completed wells will be measured from top of casing to a bench mark with elevation above mean sea level (MSL) to the nearest 0.01 feet.

H & H SHIP SERVICE COMPANY

W. J. HARRIS

220 CHINA BASIN, P.O. BOX 77363 · SAN FRANCISCO, CA 94107 · DAY AND NIGHT: 543-4835

CERTIFICATE OF DISPOSAL

NOVEMBER 11, 1988

H & H Ship Service Company hereby certifies to XTRA OIL COMPANY that:

1. The storage tank(s), size(s) ONE (1) 1,000 GALS.

   removed from the SERVICE STATION

   facility at 3495 CASTRO VALLEY BLVD.

   CASTRO VALLEY, CALIFORNIA

   were transported to H & H Ship Service Company, 220 China Basin Street, San Francisco, California 94107.

2. The following tank(s), H & H Job Number: 9062 have been steamed cleaned, cut with approximately 2' X 2' holes, rendered harmless and disposed of as scrap metal.

3. Disposal site: LEVIN METALS CORPORATION, RICHMOND, CALIFORNIA.

4. The foregoing method of destruction/disposal is suitable for the materials involved, and fully complies with all applicable regulatory and permit requirements.

5. Should you require further information, please call (415) 543-4836.

Very Truly Yours,

Cleveland Walrey
Q. A. & Safety Coordinator

A2-13

Form Approved OMB No. 2050-0039 Expires 9-30-88
Please print or type. (Form designed for use on elite (12-pitch typewriter).

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA 0001279099 | Manifest Document No. 87891825 | 2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
XTRA OIL CO. 2200 DURANT AVE. BERKELEY 94704

4. Generator's Phone (415) 548-0330

5. Transporter 1 Company Name: H&H SHIP SERVICE CO. INC. | 6. US EPA ID Number: CAD004771168

7. Transporter 2 Company Name | 8. US EPA ID Number

9. Designated Facility Name and Site Address
H&H SHIP SERVICE CO. INC.
220 CHINA BASIN STREET
SAN FRANCISCO CA 94107
CAD004771168

10. US EPA ID Number

A. State Manifest Document Number: 87891825
B. State Generator's ID
C. State Transporter's ID: 502465
D. Transporter's Phone: (415) 543-4036
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID: 38-001-98
H. Facility's Phone: (415) 543-0906

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. ~~H&H~~ WASTE, METAL, WASTE OIL NOS. CALIFORNIA REGULATED WASTE	001	TIP	1000	G X	State 512 EPA/Other N/A
b.					State 512 EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above
1,000 GALLON UNDERGROUND WASTE OIL TANK W/APPROX 500 GALLONS SLUDGE REMAINS.

K. Handling Codes for Wastes Listed Above
a. 01 b.
c. d.

15. Special Handling Instructions and Additional Information
WEAR PROTECTIVE GEAR AS REQUIRED.

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: CAROL SIMAS | Signature | Month Day Year: 11 10 88

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: SIDNEY W FOSTER | Signature | Month Day Year: 11 10 88

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

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: Claudia Valley | Signature | Month Day Year: 11 10 88

GENERATOR

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

DHS 8022 A (1/87)
EPA 8700—22
(Rev. 9-86) Previous editions are obsolete

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS
To: P.O. Box 400, Sacramento, CA 95802

INSTRUCTIONS ON THE BACK

AC-13

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

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

STATE TANK ID #:

REPORT DATE: 07/24/89 | LOCAL CASE #: | REGIONAL BOARD CASE #: | US EPA ID #: CAC000127909

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: TERRANCE CARTER | PHONE: (415) 820-9391 | SIGNATURE:

REPRESENTING ☐ LOCAL AGENCY ☐ OTHER ☒ OWNER/OPERATOR ☐ REGIONAL BOARD | COMPANY OR AGENCY NAME: AQUA SCIENCE ENGINEERS, INC.

ADDRESS: 2500 Old Crow Canyon Rd., #121 (STREET), San Ramon (CITY), CA (STATE) 94583 (ZIP)

RESPONSIBLE PARTY

NAME: Xtra Oil ☐ UNKNOWN | CONTACT PERSON: Ted Simas | PHONE: (415) 548-0330

ADDRESS: 2200 Durant Avenue (STREET), Berkeley (CITY), CA (STATE) 94704 (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Xtra Oil Shell Oil | OPERATOR: Ted Simas | PHONE: (415) 548-0330

ADDRESS: 3496 Castro Valley Blvd. (STREET), Castro Valley (CITY), Alameda (COUNTY), CA (STATE) (ZIP)

CROSS STREET: Redwood | TYPE OF AREA ☒ COMMERCIAL ☐ INDUSTRIAL ☒ RESIDENTIAL ☐ RURAL ☐ OTHER | TYPE OF BUSINESS ☐ RETAIL FUEL STATION ☐ UNKNOWN ☐ OTHER

IMPLEMENTING AGENCIES

LOCAL AGENCY / AGENCY NAME: Alameda County Health	CONTACT PERSON: Scott Seery	PHONE: (415) 271-4320
REGIONAL BOARD: SFRWQCB	Leslie Furgeson	(415) 464-1255
TSCD: Underground tank program		( )

SUBSTANCE INVOLVED

CAS # (ATTACH EXTRA SHEET IF NEEDED) | NAME | QUANTITY LOST (GALLONS)

(1) ☐ UNKNOWN

(2) ☐ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 11/10/87 | HOW DISCOVERED ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ ROUTINE MONITORING ☒ TANK REMOVAL ☐ NUISANCE CONDITIONS ☐ OTHER:

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

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY): ☐ REMOVE CONTENTS ☐ REPLACE TANK ☒ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURES ☐ OTHER

HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE: M M D D Y Y

SOURCE/CAUSE

SOURCE(S) OF DISCHARGE: ☒ TANK LEAK ☐ UNKNOWN ☐ PIPING LEAK ☐ OTHER (SPECIFY)

TANKS ONLY/CAPACITY: GAL | AGE: YRS. ☒ UNKNOWN | MATERIAL: ☐ STEEL ☐ FIBERGLASS ☐ OTHER

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

RESOURCES AFFECTED/AT RISK

RESOURCES AFFECTED	YES	NO	THREATENED	UNKNOWN
AIR (VAPOR)	☐	☒	☐	☐
SOIL (VADOSE ZONE)	☐	☐	☐	☒
GROUNDWATER	☐	☐	☐	☒
SURFACE WATER OR STORM DRAIN	☐	☐	☐	☒
BUILDING OR UTILITY VAULT	☐	☐	☐	☐
OTHER (SPECIFY)	☐	☐	☐	☐

GROUNDWATER BASIN NAME: SF Bay ☐ UNKNOWN

WATER SUPPLIES AFFECTED	YES	NO	THREATENED	UNKNOWN	# OF WELLS
PUBLIC DRINKING WATER	☐	☐	☐	☒	
PRIVATE DRINKING WATER	☐	☐	☐	☒	
INDUSTRIAL	☐	☐	☐	☒	
AGRICULTURAL	☐	☐	☐	☒	
OTHER (SPECIFY)	☐	☐	☐	☒	

COMMENTS

COMMENTS:

COMPLETE AND ATTACH A CLEANUP TRACKING REPORT IF ANY CLEANUP WORK OR PLANNING HAS STARTED

HSC 05 (10/88)

Ac-13

COMPLAINT FORM

DATE: 7/29/92 TIME: 3:30

COMPLAINT RECEIVED BY: Paul Smith

ADDRESS OF INCIDENT: Corner of Redwood Rd + Castro Valley Blvd

NAME OF FACILITY: Exxtra Oil Co / Shell Oil Corp

CONTACT PERSON:

FACILITY PHONE NUMBER:

SUBJECT OF COMPLAINT: Excessive fumes comming from recent excav
The complainant states that fumes and dust comming from this site over making him sick and that he feels this is an imminenent fire threat. He also feels that proper dust control measures are not being observed. Has air monitoring been performed at this site? I referred mark to Air Bad CV Fire Dept.

NAME OF COMPLAINANT: Mark Crawford building contractor PHONE: 881-7858

ACTIONS TAKEN AND DATE(S)

NO UNUSUALLY EXCESSIVE ODORS NOTED TODAY, MOST EXCAVATED SOIL STORED BY REMOVED UNDER SWPPP APPROVAL.

Date investigation was completed: 8/14/92

Date complainant contacted: 8/14/92

Name of Specialist: Amir K. Gholami

Signature:

Applied Time: 0.5 HR FOR COMPLAINT
WAS ALSO TABLE FOR 2 WAY PIPING TESTING.

mnc/61890/1

aqua science engineers inc.

8/15/89

August 14, 1989

Mr. Scott Seery
Hazardous Materials Specialist
Alameda County Health Care Division
80 Swan Way, Rm 200
Oakland, CA 94621

RE: REVISED PLAN OF CORRECTION FOR WASTE OIL TANK AT SHELL SERVICE STATION, 3496 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CA

Dear Mr. Seery:

On behalf of Mr. Ted Simas of Xtra Oil Company I am providing you with the a revised Plan of Correction for the former waste oil tank located at the above address in response to our agreement to follow the foremat of the Regional Water Quality Control Board, Workplan for Initial Subsurface Investigation - Appendix A.

I. Introduction:

A 550-gallon waste oil tank was removed from the above property in 1989. Soil samples were not taken at the time of removal and, subsequently, the owner was contacted by your office requiring that a Plan of Correction be submitted for the proposed work. The following is the proposed plan to address agency concerns.

The subject waste oil tank was removed on Novemvber 11, 1988 and disposed of under a hazardous waste manifest, Appendix A. The tank was empty of all contents at the time of removal. An unauthorized release report was recently submitted and a copy is contained in Appendix B in responce to the soil sample results obtained by ASE on April 24, 1989, Appendix C.

A. Site Location. The site is located at 3496 Castro Valley Boulevard, Castro Valley, California.

B. Background. We were contacted by the owner of the site, Mr. Ted Simas, in early April 1989 and asked to collect a soil samples, per agency requirements, from beneath a 550-gallon waste oil tank located at the above address. On April 24, 1989 I contacted Mr. Scott Seery of Alameda County Health Services Department to inform him of the projected soil sample collection. Mr. Seery indicated that a Plan of Correction should be prepared prior to any activity at the site and submitted for his review.

D. Site History. The site was purchased in 1983 from ARCO Petroleum and since that time has been a retail fuel station for transportation fuels operating under the Shell Oil.

The underground storage tanks and lines are constructed of single-walled carbon steel. There are four operating tanks; 1-10,000 diesel, 1-10,000 gallon leaded

gasoline, and 2-10,000 gallon unleaded gasoline, Figure 1. No other tanks exist at the site. The site is served by four standard serivce islands with four dispensors per island. Tank testing records indicate that the subject waste oil tank was not tested by the present owner and it is not known if the previous owner performed the tests. Tank testing results for the remaining tanks indicates that the tanks are within acceptable standads, Appendix D.

II. Site Description

A. The site is located in a commercial/residentail area of Castro Valley, California. The site is a retail Shell Service Station located at the Southwest corner of Castro Valley Boulevard and Redwood Road in Castro Valley, California (Figure 1). The station retails fuel only and does not have garage facilities. Currently, the station has four 10,000-gallon underground fuel tanks servicing the facility. The subject waste oil tank was used by the previous owner and was not in use under the present owner since the station changed ownership in 1983.

B. Soil Sampling Results.

On May 5, 1989 a single soil sample was taken in native soil from beneath the former 550-gallon waste oil tank. The sample was taken from a backhoe bucket by driving a 2-inch by 4-inch brass tube into the soil using a wooden mallet. The sample was removed from the soil, capped with Teflon tape and plastic end caps and placed on ice for delivery to the laboratory. The sample depth was approximately 11 feet below ground surface; groundwater was not encountered. The sample was analyzed for TPH-Heavy (EPA 3550/8015), Total Oil and Grease (EPA 9071), and volitle organics (EPA 8240 GC/MS). Detectabale constituents only are shown in Table I; all other constituents were below the level of detection.

III. Plan for Determining Extent of Soil and Groundwater Contamination on Site.

A. Based on the results of the soil sample taken from the former waste oil tank, we intent to further evaluate the impact of the release of contaminants from the waste oil tank on soil and groundwater in the vicinity of the site. ASE intends to complete the work in three tasks.

Task 1 Re-excavate soil from the waste oil tank and stockpile the soil on visqueen. We intend to excavate as much of the contaminated soil as possible. Soil samples will be taken from the excavated pit to confirm if the contaminated soil was removed. Soil samples will be collected from the stockpiled soil and the results will determine the suitability of disposal at a Class I or Class II site. No on site treatment is proposed.

Task 2 In accordance with agency guidelines, we intent to install and sample one groundwater monitoring well within 10 feet of the waste oil tank. According to the Alameda County Water District - Zone 7, the seasonal high for groundwater in the vicinity is 40 to 45 feet. Should groundwater not be encountered, the well will be completed into a clay aquitard 5-feet in thickness. Based on the results of the samples taken from the well, additional wells may be proposed.

Task 3 ASE will prepare a written report summarizing the work performed

after completion of all field work and once analytical results are known. The report will include recommendations for further work and well sampling.

Task 1 - Re-excavate Tank Pit.

The excavation will take place in the area of the former waste oil tank. We proposed to excavate the pit and stockpile the removed soil on-site. Soil samples will be taken from areas from within the pit and from the stockpiled soil. At this time it is not known the quantity of soil to be removed, however every attempt will be made to remove all contaminated soil. Once the excavation is complete and soil sample results are known, the pit will be backfilled with imported backfill to ground surface.

We do not propose on-site treatment due to the limited size areaavailable for current soil remediation techniques. The contaiminated soil will be hauled to either a Class I or Class II disposal site within California, pending sample results.

Task 2 - Install a Groundwater Monitoring Well.

The hydrogeologic information in the site area is limited, however, groundwater is expected to be found at 40 to 45 feet.

The well will be installed within 10 feet of the waste oil tank and will be constructed of 4-inch diameter PVC casing with a locking christy box street cover. The proposed well will be installed to 15 feet into groundwater or terminated in an aquitard of at least 5 feet in thickness.

In the event that groundwater is not encountered either before a 5-foot clay aquitard is encountered or a depth of 45 feet is reached, the well will be completed to that depth. If groundwater is found, than two subsequent 2-inch diameter perimeter wells will be installed (proposed location, Figure 1).

Groundwater well MW-1 will be used to monitor groundwater on a monthly basis for the first quarter than quarterly for three quarters (per requirements of Alameda County Water District). Groundwater wells MW-2 and MW-3 will provide depth to groundwater measurements and directin of groundwater flow will be determined from the three wells.

The actual well construction of all wells will follow Alameda County Water District requirements. A typical well installation diagram is shown in Figure 2. In addition to following the requirements of Alameda County Water District we intent to design a gravel pack and well casing slot size based on the formation material encountered. Soil samples will be collected beginning at the maxium depth of the excavation and then at 5-foot intervals to groundwater.

Following installation each well will be developed, sampled and analyzed for the waste oil protocal (LUFT). Drill cuttings will either be stockpiled with the excavated soil material or placed into hazardous waste drums (17-H). The extracted groundwater from well development will be placed in seperate 17-H drums. All drums will be manifested as necessary. The completed wells will be measured from top of casing to a bench mark with elevation above mean sea level (MSL) to the nearest 0.01 feet.

Task 3 - Provide a Written Report.

The report will describe the excavation activities, sample results, and will provide recommendations for further actions. Prior to installing the well(s) the report will be submitted for agency review.

We expect to begin the excavation upon approval from the Alameda County Health Department and complete the work contained above by September 25, 1989.

We look forward to your comments at your earliest convenience.

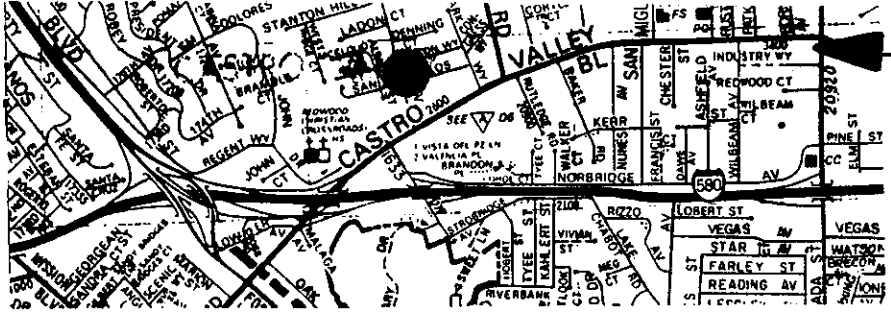
Respectfully submitted,

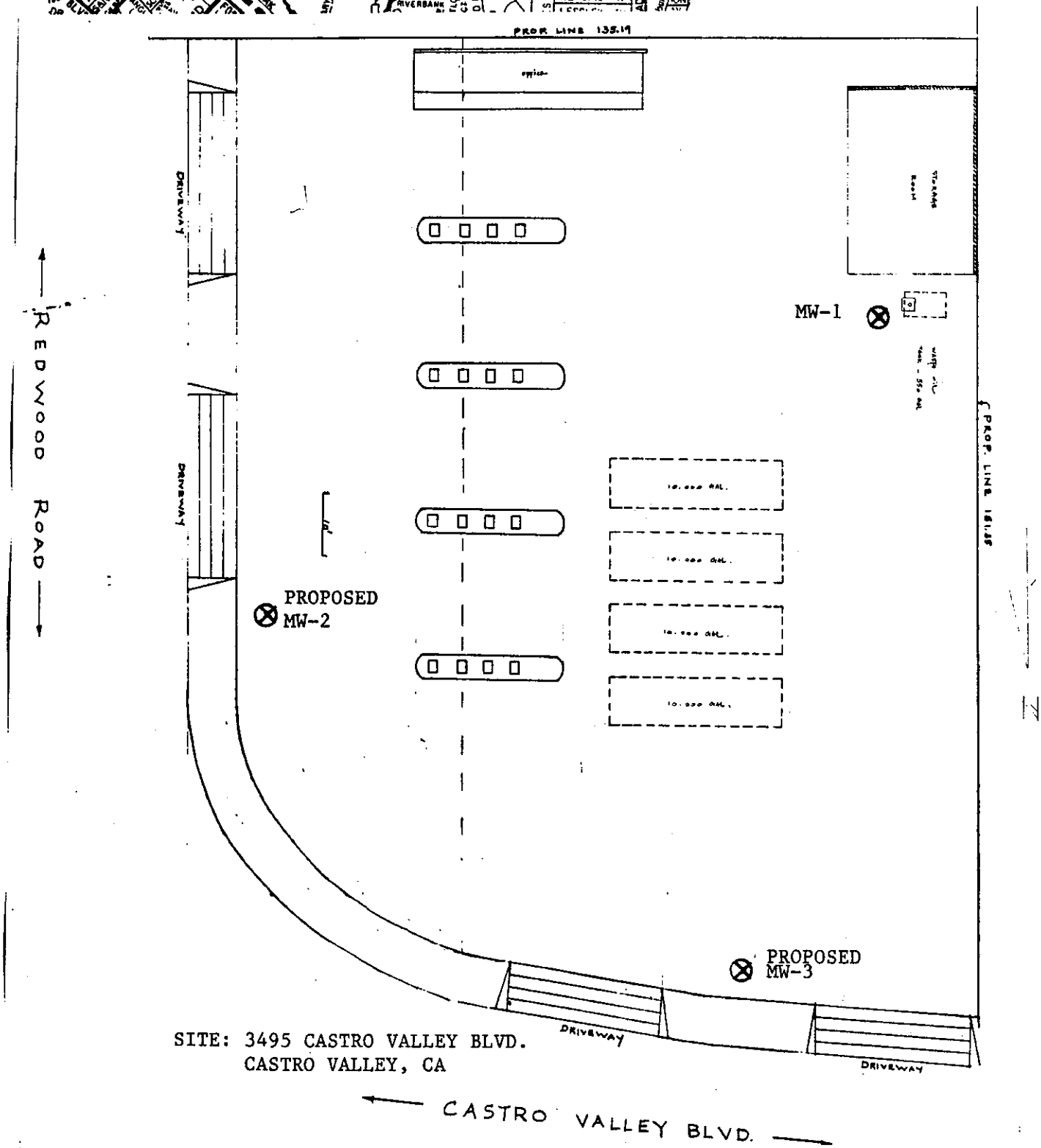
Terry

Terrance E. Carter
AQUA SCIENCE ENGINEERS, INC.

FIGURE 1 - Site Plan - 3496 Castro Valley Boulevard, Castro Valley, California.

FIGURE 2 - Typical Well Construction Diagram





SITE: 3495 CASTRO VALLEY BLVD.
CASTRO VALLEY, CA

FIGURE 1.

aqua science engineers inc

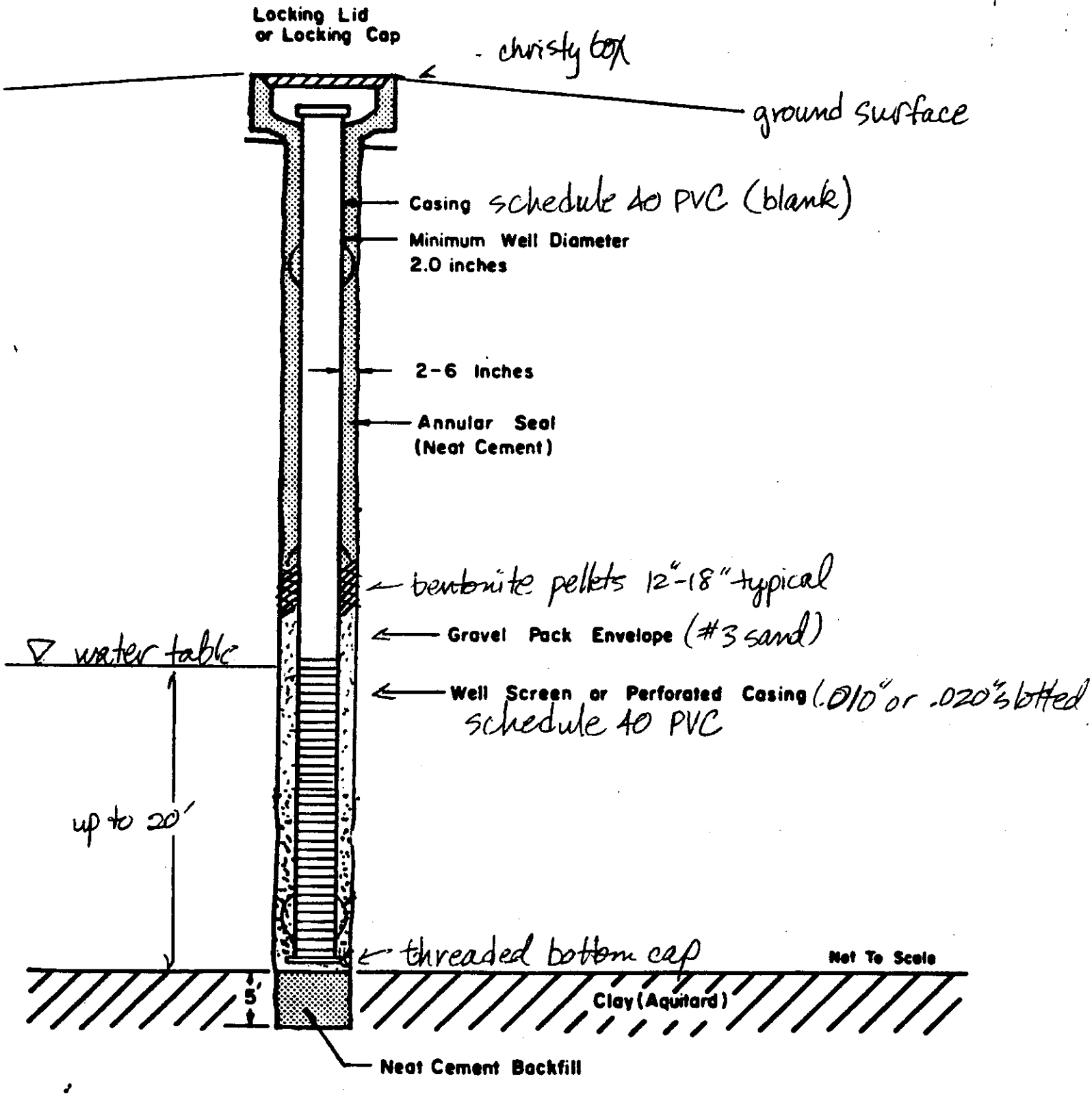


FIGURE 2.

AQUA SCIENCE ENGINEERS

TYPICAL MONITORING FACILITY

TABLE 1
Chemical Analysis of Soil Sample from Tank Removal at
3496 Castro Valley Blvd, Castro Valley, California, May 5, 1989.

Sample No.	Date	TPH-Diesel T mg/kg	Oil-Grease mg/kg	Toluene mg/kg	Ethylbenzene mg/kg	Xylene mg/kg
T1	May 5	980	427	12	18	266

APPENDIX A:
HAZARDOUS WASTE MANIFEST DOCUMENTS

H & H SHIP SERVICE COMPANY

W. J. HARRIS

220 CHINA BASIN, P.O. BOX 77363 · SAN FRANCISCO, CA 94107 · DAY AND NIGHT: 543-4835

CERTIFICATE OF DISPOSAL

NOVEMBER 11, 1988

H & H Ship Service Company hereby certifies to XTRA OIL COMPANY that:

1. The storage tank(s), size(s) ONE (1) 1,000 GALS.

   removed from the SERVICE STATION

   facility at 3495 CASTRO VALLEY BLVD.

   CASTRO VALLEY, CALIFORNIA

   were transported to H & H Ship Service Company, 220 China Basin Street, San Francisco, California 94107.

2. The following tank(s), H & H Job Number: 9062
   have been steamed cleaned, cut with approximately 2' X 2' holes, rendered harmless and disposed of as scrap metal.

3. Disposal site: LEVIN METALS CORPORATION, RICHMOND, CALIFORNIA.

4. The foregoing method of destruction/disposal is suitable for the materials involved, and fully complies with all applicable regulatory and permit requirements.

5. Should you require further information, please call (415) 543-4836.

Very Truly Yours,

Cleveland Valrey
Q. A. & Safety Coordinator

Form Approved OMB No. 2050-0039 Expires 9-30-88

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA 0001279099 — Manifest Document No. 18215

2. Page 1 of — Information in the shaded areas is not required by Federal law.

State Manifest Document Number: 87891825

3. Generator's Name and Mailing Address: XTRA OIL CO. 2200 DURANT AVE. BERKELEY 94704

4. Generator's Phone (415) 548-0330

A. State Generator's ID:

5. Transporter 1 Company Name: H&H SHIP SERVICE CO. INC. — 6. US EPA ID Number: CAD 004771168

C. State Transporter's ID: 902465

D. Transporter's Phone: (415) 543-0906

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: H&H SHIP SERVICE CO. INC. 220 CHINA BASIN STREET SAN FRANCISCO CA 94107 — CAD004771168

G. State Facility's ID: 38-001-98

H. Facility's Phone: (415) 543-0906

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. ~~H&H~~ WASTE, METAL, WASTE OIL N.O.S. CALIFORNIA REGULATED WASTE	001	TP	01000	G	State 512 / EPA/Other N/A
b.					State 512 / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above: 1,000 Gallon underground waste Oil Tank w/Approx 500 Gallons Sludge Remaining.

K. Handling Codes for Wastes Listed Above: a. 01 b. c. d.

15. Special Handling Instructions and Additional Information: Wear protective gear as required.

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.

GENERATOR — Printed/Typed Name: CAROL SIMAS — Signature: Carol Simas — Month Day Year: 11 10 87

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: SIDNEY W FOSTER — Signature: Sidney W Foster — Month Day Year: 11 10 87

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Month Day Year

FACILITY

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: Maureen Valley — Signature — Month Day Year: 11 10 87

DHS 8022 A (1/87)

EPA 8700—22 (Rev. 9-86) Previous editions are obsolete

Blue: GENERATOR SENDS THIS COPY TO DOHS WITHIN 30 DAYS — To: P.O. Box 400, Sacramento, CA 95802

INSTRUCTIONS ON THE BACK

IN CASE OF AN EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA CALL 1-800-852-7550

APPENDIX B:
UNAUTHORIZED RELEASE FORM

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

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

STATE TANK ID #:

REPORT DATE: 07/24/89 | LOCAL CASE #: | REGIONAL BOARD CASE #: | US EPA ID #: CAC000127909

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: TERRANCE CARTER | PHONE: (415) 820-9391 | SIGNATURE:

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

COMPANY OR AGENCY NAME: AQUA SCIENCE ENGINEERS, INC.

ADDRESS: 2500 Old Crow Canyon Rd., #121 (STREET), San Ramon (CITY), CA (STATE) 94583 (ZIP)

RESPONSIBLE PARTY

NAME: Xtra Oil ☐ UNKNOWN | CONTACT PERSON: Ted Simas | PHONE: (415) 548-0330

ADDRESS: 2200 Durant Avenue (STREET), Berkeley (CITY), CA (STATE) 94704 (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Xtra Oil Shell Oil | OPERATOR: Ted Simas | PHONE: (415) 548-0330

ADDRESS: 3496 Castro Valley Blvd. (STREET), Castro Valley (CITY), CA | Alameda (COUNTY) | ZIP

CROSS STREET: Redwood

TYPE OF AREA ☒ COMMERCIAL ☐ INDUSTRIAL ☒ RESIDENTIAL ☐ RURAL ☐ OTHER

TYPE OF BUSINESS ☐ RETAIL FUEL STATION ☐ UNKNOWN ☐ OTHER

IMPLEMENTING AGENCIES

LOCAL AGENCY / AGENCY NAME	CONTACT PERSON	PHONE
Alameda County Health	Scott Seery	(415) 271-4320
REGIONAL BOARD: SFRWQCB	Leslie Furgeson	(415) 464-1255
TSCD: Underground tank program		( )

SUBSTANCE INVOLVED

CAS # (ATTACH EXTRA SHEET IF NEEDED) | NAME | QUANTITY LOST (GALLONS)

(1) ☐ UNKNOWN

(2) ☐ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 11/11/07/88 | HOW DISCOVERED ☐ INVENTORY CONTROL ☐ SUBSURFACE MONITORING ☐ ROUTINE MONITORING ☒ TANK REMOVAL ☐ NUISANCE CONDITIONS ☐ OTHER:

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

HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE: M M D D Y Y

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☐ REMOVE CONTENTS ☐ REPLACE TANK ☒ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURES ☐ OTHER

SOURCE/CAUSE

SOURCE(S) OF DISCHARGE: ☒ TANK LEAK ☐ UNKNOWN ☐ PIPING LEAK ☐ OTHER (SPECIFY)

TANKS ONLY/CAPACITY: ____ GAL | AGE: ____ YRS. ☒ UNKNOWN | MATERIAL: ☐ STEEL ☐ FIBERGLASS ☐ OTHER

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

RESOURCES AFFECTED/AT RISK

RESOURCES AFFECTED	YES	NO	THREATENED	UNKNOWN
AIR (VAPOR)	☐	☒	☐	☐
SOIL (VADOSE ZONE)	☐	☐	☐	☒
GROUNDWATER	☐	☐	☐	☒
SURFACE WATER OR STORM DRAIN	☐	☐	☐	☒
BUILDING OR UTILITY VAULT	☐	☐	☐	☐
OTHER (SPECIFY)	☐	☐	☐	☐

GROUNDWATER BASIN NAME: SF Bay ☐ UNKNOWN

WATER SUPPLIES AFFECTED	YES	NO	THREATENED	UNKNOWN	# OF WELLS
PUBLIC DRINKING WATER	☐	☐	☐	☒	
PRIVATE DRINKING WATER	☐	☐	☐	☒	
INDUSTRIAL	☐	☐	☐	☒	
AGRICULTURAL	☐	☐	☐	☒	
OTHER (SPECIFY)	☐	☐	☐	☒	

COMMENTS

COMMENTS:

COMPLETE AND ATTACH A CLEANUP TRACKING REPORT IF ANY CLEANUP WORK OR PLANNING HAS STARTED

APPENDIX C:
LABORATORY DATA AND CHAIN-OF-CUSTODY

AquaScience Engineers, Inc.
2500 Old Crow Canyon Rd.
Suite 121
San Ramon, CA 94583

June 06, 1989
PACE Project Number: 490508502
PACE WP Number: WPPLAB #748

Attn: Mr. Terry Carter

Simas Oil

Date Sample(s) Collected: 05/05/89
Date Sample(s) Received: 05/08/89

PACE Sample Number:			728410
Parameter	Units	MDL	T1
ORGANIC ANALYSIS			
EXTRACTABLE FUELS			
Extractable Fuels, as Diesel	mg/kg	10	980(*)
Sonication Extraction, Date Started			05/09/89
TOTAL OIL AND GREASE (GRAV. EPA 9071)			
Total Oil and Grease (Freon Extractable)	mg/kg wet	50	426.5
Date Extracted			05/10/89
VOLATILE ORGANICS, EPA METHOD 8240 GC/MS			
Dichlorodifluoromethane	ug/kg	10	ND
Chloromethane	ug/kg	10	ND
Vinyl Chloride	ug/kg	10	ND
Bromomethane	ug/kg	10	ND
Chloroethane	ug/kg	10	ND
Trichlorofluoromethane	ug/kg	5	ND
2-Butanone (MEK)	ug/kg	10	ND
Iodomethane	ug/kg	5	ND
1,1-Dichloroethene	ug/kg	5	ND
Carbon Disulfide	ug/kg	5	ND
Acrylonitrile	ug/kg	5	ND
Methylene Chloride	ug/kg	5	ND
trans-1,2-Dichloroethene	ug/kg	5	ND
1,1-Dichloroethane	ug/kg	5	ND
Chloroform	ug/kg	5	ND
1,1,1-Trichloroethane	ug/kg	5	ND
1,2-Dichloroethane	ug/kg	5	ND
Carbon Tetrachloride	ug/kg	5	ND

MDL Method Detection Limit
ND Not detected at or above the MDL.
(*) Product heavier than diesel seen.

PACE Sample Number:			728410
Parameter	Units	MDL	T1
ORGANIC ANALYSIS			
VOLATILE ORGANICS, EPA METHOD 8240 GC/MS			
Benzene	ug/kg	5	ND
1,2-Dichloropropane	ug/kg	5	ND
Trichloroethene	ug/kg	5	ND
Dibromomethane	ug/kg	5	ND
Bromodichloromethane	ug/kg	5	ND
trans-1,3-Dichloropropene	ug/kg	5	ND
3-Methyl-2-pentanone (MIBK)	ug/kg	10	ND
Toluene	ug/kg	5	12
cis-1,3-Dichloropropene	ug/kg	5	ND
1,1,2-Trichloroethane	ug/kg	5	ND
2-Chloroethylvinyl Ether	ug/kg	5	ND
Ethylmethacrylate	ug/kg	5	ND
Dibromochloromethane	ug/kg	5	ND
Tetrachloroethene	ug/kg	5	ND
Chlorobenzene	ug/kg	5	ND
Ethylbenzene	ug/kg	5	18
Bromoform	ug/kg	5	ND
Xylene(s) Total	ug/kg	5	266
1,1,2,2,-Tetrachloroethane	ug/kg	5	ND
1,2,3-Trichloropropane	ug/kg	5	ND
1,4-Dichloro-2-butene	ug/kg	5	ND
1,3-Dichlorobenzene	ug/kg	5	ND
1,4-Dichlorobenzene	ug/kg	5	ND
1,2-Dichlorobenzene	ug/kg	5	ND
1,2-Dichloroethane-d4 (Surrog. Recovery)			107%
Toluene-d8 (Surrogate Recovery)			121%
4-Bromofluorobenzene (Surrog. Recovery)			88%

ND Not detected at or above the MDL.
MDL Method Detection Limit

(100810

* P.O. Box 535, San Ramon, CA 94583-0535

aqua science engineers inc.

(415) 820-9391

Project Name: Chevron Site: Hayward Date: [illegible] Laboratory: [illegible]

Sample ID	Sample/Container Type	Analyze/ Hold	Analyze For:	Method - Detection Limit	Notes/Remarks
T1	[illegible]	A	BTEX Fuel Fingerprint		TPH 7250.41
					10/2

S = Soil W = Water O = Other

G = Glass BT = Brass Tube P = Plastic V = Vial O = Other

Chain of Custody

1. Sampled by: [illegible]
2. Courier: Donald Tolentino
   Paca 1730 PM
   5/8/89
3. Received by Lab: [illegible]
   Date: 5/9/89 Time: 3:45 PM
4. Received in Office: Date:

- ☐ = Collate all samples for single analysis.
- ☐ = Collate and analyze two top samples and if clean, do not analyze other sample.
- ☐ = Call ASE for instructions.
- ☐ = See attached protocol.

APPENDIX D
TANK TESTING RESULTS

HUNTER ENVIRONMENTAL SERVICES, INC.
18350 MT. LANGLEY STREET, SUITE 101
FOUNTAIN VALLEY, CA 92708
800-247-9014 800 247-2186

FINAL TEST RESULTS
TEST DATE: 8/12/88

CUSTOMER: SHELL
ADDRESS: 3495 CASTRO VALLEY BLVD.
CASTRO VALLEY, CA

LOCATION/IDENTIFICATION NO.:

TEST RESULTS SUMMARY

NO.	SYSTEM PRODUCT	TANK SIZE GALLONS	TANK SIZE DIA/MATL.	WATER INCHES	LEAK LOKATOR RESULTS LEVEL INCHES	LEAK LOKATOR RESULTS AIR GPH	LEAK LOKATOR RESULTS CONCLUSION	LEAK LOKATOR RESULTS RECOMMENDATIONS
1	DIESEL	10000	95/ST	0	169	-.037	TIGHT	

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

NO.	PRODUCT	TYPE OF PUMP REMOTE	TYPE OF PUMP SUCTION	POUNDS APPLIED	POUNDS HELD	MINUTES HELD	PRODUCT LOSS CC's	PRODUCT LOSS GPH	CONCLUSION /RESULT
1	DIESEL	WAYNE		50		10			PASS

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

DETAIL OF TEST RESULTS

NO.	SYSTEM PRODUCT	TEST NO.	TEST LEVEL (IN.)	TIME CLOCK STATE	TIME DURATION (HR-MIN)	LEAK RATE CC/DIV	LEAK RATE CC/MIN	TEMPERATURE COMPENSATION DELTA °F	TEMPERATURE COMPENSATION CC/MIN	ABSOLUTE LEAK RATE CC/MIN	ABSOLUTE LEAK RATE GPH	CHECK TEST Y/N
1	DIESEL	1	169	11:30	:30	4.562	+7.557	+.035	+9.935	-2.378	-.037	N

*LEVEL - Inches from Tank Bottom to Test Level
AIR - Absolute Leak Rate (Measured Leak Rate - Temperature Compensation) in Gallons Per Hour
CONCLUSION - NFPA 329 criterion of +/- 0.05 GPA is used to certify tightness

CERTIFICATION

CERTIFIED

This is to certify that the above tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

Tests Conducted and Certified By: Test Van No. 4
Team Manager: A. CHAND

HUNTER ENVIRONMENTAL SERVICES, INC.
18350 MT. LANGLEY STREET, SUITE 101
FOUNTAIN VALLEY, CA 92708
800-247-9014 800-247-2186

FINAL TEST RESULTS
TEST DATE: 8/10/88

CUSTOMER: XTRA OIL
ADDRESS: 3495 CASTRO VALLEY BLVD.
CASTRO VALLEY, CA

LOCATION/IDENTIFICATION NO.:

TEST RESULTS SUMMARY

NO.	SYSTEM PRODUCT	TANK SIZE GALLONS	TANK SIZE DIA/MATL.	WATER INCHES	LEAK LOKATOR RESULTS LEVEL INCHES	LEAK LOKATOR RESULTS AIR GPH	LEAK LOKATOR RESULTS CONCLUSION	LEAK LOKATOR RESULTS RECOMMENDATIONS
1	S/U	10000	95/ST	0	150	-.010	TIGHT	
2	U/L	10000	95/ST	0	159	+.011	TIGHT	
3	REG	10000	95/ST	0	154	+.041	TIGHT	
4	DIESEL	10000	95/ST	0	NO TEST			

OTHER INFORMATION: NO TEST ON DIESEL DUE TO LACK OF PRODUCT. RUNNING PRESSURE TESTS DUE TO INTERNAL CHECK VALVE.

PRODUCT LINES - HYDROSTATIC PRESSURE TEST RESULTS

NO.	SYSTEM PRODUCT	TYPE OF PUMP REMOTE	TYPE OF PUMP SUCTION	POUNDS APPLIED	POUNDS HELD	MINUTES HELD	PRODUCT LOSS CC's	PRODUCT LOSS GPH	CONCLUSION /RESULT
1	S/U	TOKHEIM		29		15			PASS
2	U/L	TOKHEIM		27		15			PASS
3	REG	RED JACKET		50		15			PASS
4	DIESEL	TOKHEIM		28		15			PASS

NOTE: On suction systems, NEVER put more than 15 psi on any pump system.

DETAIL OF TEST RESULTS

NO.	SYSTEM PRODUCT	TEST NO.	TEST LEVEL (IN.)	TIME CLOCK STATE	TIME DURATION (HR-MIN)	LEAK RATE CC/DIV	LEAK RATE CC/MIN	TEMPERATURE COMPENSATION DELTA °F	TEMPERATURE COMPENSATION CC/MIN	ABSOLUTE LEAK RATE CC/MIN	ABSOLUTE LEAK RATE GPH	CHECK TEST Y/N
1	S/U	1	150	10:40	:35	1.522	+21.827	+.054	+22.482	-.655	-.010	N
2	U/L	1	159	11:20	:30	1.195	+7.410	+.016	+6.661	+.749	+.011	N
3	REG	1	154	9:50	:45	1.360	+7.603	+.012	+4.996	+2.607	+.041	N

*LEVEL - Inches from Tank Bottom to Test Level
AIR - Absolute Leak Rate (Measured Leak Rate - Temperature Compensation) in Gallons Per Hour
CONCLUSION - NFPA 329 criterion of +/- 0.05 GPA is used to certify tightness

CERTIFICATION

CERTIFIED

This is to certify that the above tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. Those indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

Tests Conducted and Certified By: Test Van No. 32
Team Manager: E. PRICE
Tank Testing Specialist: S. PORRAS

TANK AND LOCATION DATA

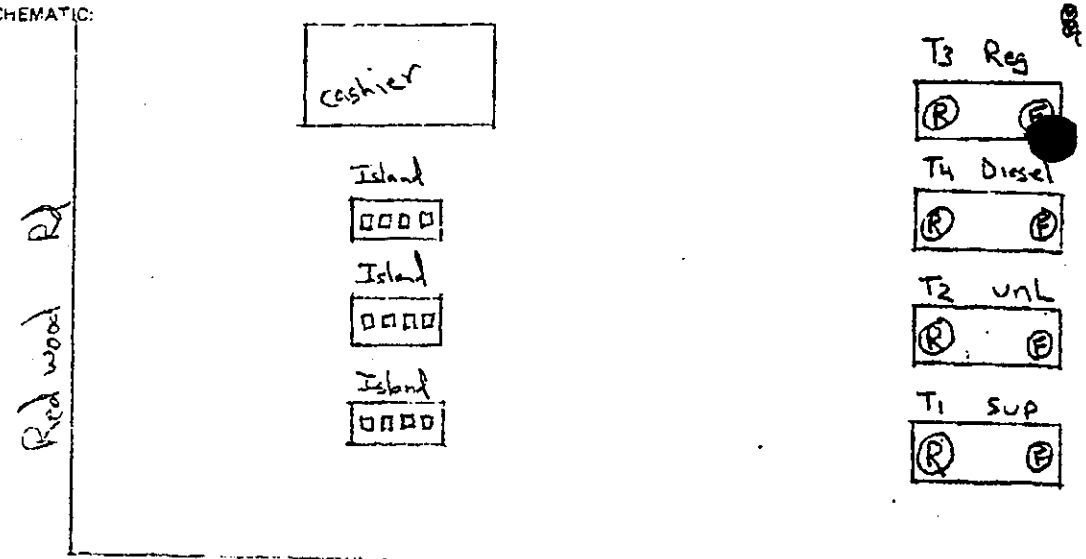
DATE: 1-31-86

CUSTOMER: SHELL CITY: Castro Valy

I.D. # 810910 STATE: CA

	WEATHER	TIME	TEMPERATURE	COMMENTS
BEFORE TEST –	Rain	10:00	45°	
AFTER TEST –		5:00		

SCHEMATIC:



Castro valley Blvd

	PRODUCT/TANK NO.	T1 Sup		T2 unL		T3 Reg		T4 Diesel		
		Fill	Gauge	Fill	Gauge	Fill	Gauge	Fill	Gauge	Fill
BEFORE DELIVERY	LEVEL									
	GALLONS									
	WATER	0		0		0		0		
	TOP OF RISER	135		134		135		135		
	GRADE	141		141		142		141		
	DROP TUBE	Alum		Alum		Alum		ALUM		
	CAPACITY, GALLONS	10 000		10 000		10 000		10 000		
	DIAMETER, INCHES	95		95		95		95		
	MATERIAL	ST		ST		ST		ST		
	PUMP TYPE	Wayne		Wayne		RJ		Wayne		
	TYPE OF COVER	Conc		Conc		Conc.		Conc		
	AGE OF TANK	N/A		N/A		N/A		N/A		
	SIPHON	no		no		no		no		
	TANK OPENINGS	1-4		1-4		1-4		1-4		
	EXTRACTORS	none		none		none		none		

PRODUCT	GALLONS	DIA/MAT.	INCHES	[illegible]	[illegible]	[illegible]	RECOMMENDATIONS	TEST	TANK	SYS
Sup	10000	95/ST	0	148	.004	T				
unL	10000	95/ST	0	147	+.010	T				
Reg	10000	95/ST	0	146	-.002	T				
Diesel	10000	95/ST	0	147	+.002	T				

ER INFORMATION

PRODUCT LINES – HYDROSTATIC PRESSURE TEST RESULTS

SYSTEM PRODUCT	TYPE OF PUMP: REMOTE	TYPE OF PUMP: SUCTION	# APPLIED	MINUTES APPLIED	PRODUCT LOSS CC'S	PRODUCT LOSS GPH	CONCLUSION RESULT
Sup	Wayne		50 PSI	10			T
unL	Wayne		50 PSI	10			T
Reg	RJ		50 PSI	10			T
Diesel	Wayne		50 PSI	10			T

TE: On suction systems, NEVER put more than 15 psi on any pump system.

ER CONTRACTORS, OFFICIALS, CUSTOMER REPRESENTATIVES PRESENT

DETAIL OF TEST RESULTS

SYSTEM PRODUCT	TEST NO.	TEST LEVEL (INCHES)	TIME: BEGIN TEST	TIME: DURATION MIN.	LEAK RATE: CC/DAY	LEAK RATE: CC/MIN	TEMPERATURE COMPENSATION: Δ °F	TEMPERATURE COMPENSATION: CC/MIN	ABSOLUTE LEAK RATE: CC/MIN	ABSOLUTE LEAK RATE: GPH	CONCLUSION PASS/FAIL
Sup		146	1:36	15 min	3.17	-2.037	-.016	-6.727	-.3	-.004	
unL		147	2:30	27 min	4.22	-3.522	-.012	-4.304	-.663	-.010	
Reg		146	2:00	17 Min	3.79	+3.604	+.009	+3.784	-.375	-.002	
Diesel		147	3:33	16 min	3.77	+.754	+.002	+.567	+.187	+.002	

VEL – INCHES FROM TANK BOTTOM TO TEST LEVEL

– ABSOLUTE LEAK RATE (MEASURED LEAK RATE – TEMPERATURE COMPENSATION) IN GALLONS PER HOUR

CLUSION – NFPA 329 CRITERION OF ±0.05 GPH IS USED TO CERTIFY TIGHTNESS

TIFICATION This is to certify that the above described tank systems were tested, using the HUNTER ENVIRONMENTAL SERVICES, INC. LEAK LOKATOR according to all standard operating procedures. These indicated as tight at full system meet the criterion established by the National Fire Protection Association Pamphlet 329 for Precision Testing.

ST VAN NO.	TESTS CONDUCTED BY: TANK TESTING SPECIALIST	CERTIFIED BY: SIGNATURE	DATE
L-17	Nick Havrilak	[signature]	1-31-96
	TANK TESTING SPECIALIST: Eric Price	NAME: N. HAVRILAK TITLE: Team Mgr	