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ALAMEDA COUNTY, DEPARTMENT OF ENUIRONMENTAL HEALTH

1131 Harbor Bay Pkwy Alameda CA 94502 510/567-6700

Hazardous Materials Inspection Form

II, III

Site ID # Site Name AMC Today's Date 62/1/97
Site Address
City Cakland zip 94 Phone
MAX AMT stored > 500 lbs, 55 gal., 200 cft.?
Inspection Categories:!. Haz. Mat/Waste GENERATOR/TRANSPORTER
II. Hazar dous Materials Business Plan, Acutely Hazar dous Materials III. Under ground Stor age Tanks
* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)
Comments: Course out to site to withers overexavation Sampling of
Huy various areas in the Phase I area of the site, When
gas UST area on the west side & brugath the former
to the west of the hower are USTS, Strong betroleen solor
+ Extensive staining noted in sit. Some water noted in sit.
According to David Glick, Brookyko, the woter rushed in from
some whitity live truckes from the north. Three pumpsed of his
water into storage tauks, and the water to did not rechange,
No peraled water was sucountered. The area around Former
Souple 136, located to the East of former gas USIS, will not be
Excavatad, contrary to the work plan I excavation was ~8 hgs.
Hu speaking to Elern Fanelli, Ebrut, the area around dauple
136 will be addressed at a later date if the gravel buckfill
hulk of the Aburous soil contamination was excavated, Except
of solle Sur Oli Sail ou fait gul of he House of Freezeway This
Towaring soil will be Exercise that out laster braday or
formand. Confirmatous soil sauglus collegered.
Contact David Alick
Title TARTEN ATTICKE ENU. SK Inspector Juliet Shin
Signature Signature
- IMMINIO

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ALAMEDA COUNTY, DEPARTMENT OF ENUIRONMENTAL HEALTH

1131 Harbor Bay Pkwy Alameda CA 94502 510/567-6700

Hazardous Materials Inspection Form

11, 111

Site ID # Site Name AMC, Phase II Today's Date 6/12/97
Site ID # Site Name
Site Address
city <u>Oakland</u> zip 94605 Phone
MAX AMT stored > 500 lbs, 55 gal., 200 cft.?
Inspection Categories:I. Haz. Mat/Waste GENERATOR/TRANSPORTER
II. Hazar dous Materials Business Plan, Acutely Hazar dous Materials
III. Under gr ound Stor age Tanks
* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)
Comments: Come to get to cluck & See whether area beneath former
gro station / former gas tanks was adiquately Excavately from
gratuday. It looked as though additional Excavation of
the bottom was conducted, however, significantly more
water was noted in the pet, Considering that It didn't rain
suce yesterday, this water in the pet bould be groundwater.
There was stell a moderate petroleum odor Emma trug from
the pit. According to David Glick, Guoffaxus, the water is
resulting from the graval bockfill from the former gas tank
pit and well be purified out today. Weaping of only Substances,
brownish in color, was observed along the footh hearth o west walls
at the same Elevation as was observed in the former gas UST
pit. There two areas well be sampled to chalacterize what we
have left in place. The Excavation bewell thereito Shop was
underway and the son samples were already collected frementy
a courte vouce year was removed, Another soil fample well to
Called to Danielan former Saugero 13 12 + 3. Once hydraulae lift
tues consider the account to the contract of former auxo strop, and another
will soul offer at soft and Site of the sold will be at the delice
Hure locations of and oralized in Taration of B-13 Should
Contact David Hick ivelude chlordnesteds. II, III
Title Inspector Juliet Shin
Signature Signature

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yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENUIRONMENTAL HEALTH

1131 Harbor Bay Pkwy Alameda CA 94502 510/567-6700

Hazardous Materials Inspection Form

11, 111

Site ID # Site Name Today's Date 6/12/97	
Site Address	
City Cakland Zip 94605 Phone	
MAX AMT stored > 500 lbs, 55 gal., 200 cft.?	==
Inspection Categories:I. Haz. Mat/Waste GENERATOR/TRANSPORTER	
II. Hazardous Materials Business Plan, Acutely Hazardous Materials	
III. Under gr ound Stor age Tanks	
* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)	
Comments: Both concrete vaults had a pipe draining contents (steel line	- \ {/_
to the worth, The fate of Extent of this signing is not yet	_
purson. Another hydraulic lift was id Enferied of the month	
boundary of the Excavation pits A soil saught will be	
collected from veneath this left. The throng is that the sign	Le.
from the concrete vault had to an about ground reservo!	<u>^</u>
Contact	
Title Inspector Juliet Shin	***
Signature Signature	338

HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

April 25, 1997

Richard Sykes EBMUD P.O. Box 24055 Oakland, CA 94623-1055 **ENVIRONMENTAL HEALTH SERVICES**

1:31 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 (510) 337-9335 (FAX)

Re:

Addendum 2 to the Materials Management Plan for Phase II and Phase III of the EBMUD Adeline Maintenance Facility construction sites.

Dear Mr. Sykes,

This office has reviewed over GeoPlexus, Inc.'s (Geoplexus) Subsurface Investigation Report and Response to Agency Comments on Addendum No. 2 to Materials Management Plan, dated January 22, 1997, for the above site. The responses to the County's comments in this report are acceptable.

Per the report, soil excavation will be conducted in the areas of the former petroleum underground storage tanks (sample locations 114, 133, 134, 135, 136, and 138), the area around the former auto shop (samples EB-3-3, B-12, B-13), and the area around the waste oil underground storage tank (sample B-9 and B-10), where sample concentrations exceeded the agreed upon cleanup threshold values. Please be reminded that confirmatory soil samples will need to be collected subsequent to the excavation in order to assure that the bulk of concentrations exceeding these threshold values have been removed. Also, please be reminded that the waste oil underground storage tank will be removed in Phase III under permit from this office and the Oakland Fire Department.

Excavated soils will need to be properly aerated through permit or disposed of off site to a certified facility. Although Geoplexus states that the 16ppm benzene identified in soil adjacent to the former underground storage tanks is limited, additional off-site delineation work of this contaminated soil will be required during the planned groundwater monitoring well installations, scheduled to take place after the implementation of Phase II and Phase III construction activities.

Lead and chromium concentrations identified from Borings B-12 and B-13 exceeded ten times the Title 22 CCR STLC values. If metal concentrations exceeding ten times the STLCs are identified after the proposed excavation, leachability tests using Method 1312 will need to be conducted, per the County's October 10, 1996 letter.

Please submit the anticipated schedule of work for the excavation and sampling activities, waste oil tank removal, soil disposal, and groundwater well installations. If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely

Juliet Shin

Senior Hazardous Materials Specialist

cc:

Eileen M. Fanelli, EBMUD, P.O. Box 24055, Oakland, CA 94623-1055 David Glick, Geoplexus, Inc., 1900 Wyatt Drive, Suite 1, Santa Clara, CA 95054 Chief



April 22, 1997

Ms. Juliet Shin Alameda County Health Agency Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Dear Ms. Shin:

Subject:

Schedule for Phase 2 Construction and Site Remedial Activities,

Adeline Maintenance Center (AMC)

The East Bay Municipal Utility Districts' (EBMUD) contractor on the AMC project is scheduled to begin Phase 2 construction activities in about two weeks. The work will involve demolition of the existing structures, followed by mass excavation and grading.

Soil removal activities will be conducted as outlined in the MMP and addenda addressing construction Phase 2. I will call you before actual soil removal activities begin. Please give me a call if you have any questions or concerns.

Sincerely, Generall'

EILEEN FANELLI

Senior Environmental Compliance Specialist

EF:prb

EC97218

ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

November 19, 1996

Richard Sykes EBMUD P.O. Box 24055 Oakland, CA 94623-1055 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Re: Risk Assessment for EBMUD Adeline Maintenance Facility, Phase 2 and Phase 3 Construction sites

Dear Mr. Sykes,

This office has reviewed the September 12, 1996 Materials Management Plan for the above site which includes a human health risk assessment for soils. The following are some comments in response to our review, which Madhulla Logan of our office has already relayed to your consultant David Glick, Geoplexus, Inc., over the phone:

- On Page 5, the report states that the values from the more conservative pathway, which it states is the "leaching to groundwater" pathway, was used to evaluate the cleanup values. However, looking at the Tier 1 table of ASTM RBCA, the "indoor air" pathway is more conservative than the "leaching to groundwater" pathway. This more conservative pathway should be used in assessing any human health threats from beneath the building footprint areas. The areas outside of the building areas may be based on the "leaching to groundwater" pathway.
- The risk assessment only addresses soil contamination. Groundwater contaminant characterization has not yet been conducted at the site. Per my conversations with Eileen Fanelli, EBMUD, groundwater investigations will be initiated after the building construction is completed. As part of the groundwater investigations, an assessment of any potential human health risks from any groundwater contamination will be required. Perched water should also be assessed. If a potential human health threat is identified (e.g., vaporization into indoor air), EBMUD will be required to take corrective action measures.

Lastly, per my conversation with David Glick on November 19, 1996, a report addressing the recently conducted work at the site, as well as the County's October 10, 1996 letter and the above comments, will be submitted to this office within the next couple of weeks.

Mr. Richard Sykes

Re: Adeline Maintenance Center

November 19, 1996

Page 2 of 2

If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

Juliet Shin

Senior Hazardous Materials Specialist

cc:

Eileen Fanelli

EBMUD

P.O. Box 24055

Oakland, CA 94623-1055

David Glick

GeoPlexus, Inc.

1900 Wyatt Drive, Ste 1

Santa Clara, CA 95054

Acting Chief

LATES AND HYSIS

EAST BAY MUNICIPAL UTILITY DISTRICT 95 NOV -9 PM 1: 57

DATE:

November 8, 1996

MEMO TO:

Distribution *

FROM:

Eileen Fanelli, Senior Environmental Compliance Specialist

SUBJECT:

AMC Project - Environmental Support Meeting Minutes

Giller

Attached for your information and files are the meeting minutes from our October 31, 1995 meeting regarding environmental oversight during AMC construction. If you have any questions or comments on the attached please contact Eileen Fanelli at (510) 287-1661.

*Distribution: Denise Tsuji/DTSC

Juliet Shin/ACHCSA v

Brad Oldenbrook/Walsh-Pacific Britt Johnson/City of Oakland

Alex Coate/EBMUD Richard Sykes/EBMUD Karl Mayo/EBMUD David Tsztoo/EBMUD

EMF:prb

EC95407a

MEETING MINUTES

AMC Project Environmental Support Meeting Minutes

Meeting Date:

Oct. 31, 1995

Time/location:

Attendees:

1:00 p.m. EBMUD Offices Rm. 3A/B Denise Tsuji/DTSC Site Mitigation

Juliet Shin/Alameda County Health Brad Oldenbrook/Walsh-Pacific

Britt Johnson/City of Oakland Fire Department

Eileen Fanelli/EBMUD RCO Alex Coate/EBMUD RCO Richard Sykes/EBMUD RCO

Prepared by:

Eileen Fanelli, Nov. 7, 1995

Summary:

The purpose of the meeting was to identify the lead regulatory agency for oversight of site assessment and remediation activities at the EBMUD Adeline Maintenance Center. The work would be coordinated with current site demolition and construction at the AMC. The existing site data was discussed relative to the construction project. It was agreed that Alameda County Health would be the lead agency for the project. The DTSC are available for consultation on site contamination issues but otherwise would not take a lead role except for hazardous waste contamination other than petroleum hydrocarbons. EBMUD is on point to prepare a 'material management plan' that outlines how contaminated soil will be characterized and managed during and post construction.

Topics Discussed:

The data presented in the "Preliminary Site Assessment Report for Adeline Maintenance Facility" was discussed relative to the construction project. Specifically the soil cut and fill areas where identified and the issue of characterizing site soil for either reuse or disposal discussed.

Applicable guidance for determining contaminant levels at which soil could be reused on site (clean-up) levels were discussed briefly. Juliet identified ASTM guidance (ES38) that the County uses for estimating soil clean-up levels, but stated that the method generally requires groundwater quality data. Eileen and Alex identified the Tri-County guidance for establishing clean-up levels for petroleum contaminated soil.

Action Items:

It was agreed that EBMUD would develop a "materials management plan" that outlined the process for excavating, testing and disposing of soil excavated during project construction. The plan would also set forth the criteria for reuse of the soil onsite. Any proposed post construction monitoring would also be included. The plan will be submitted to Alameda County Health prior to beginning excavation activities associated with the AMC construction.

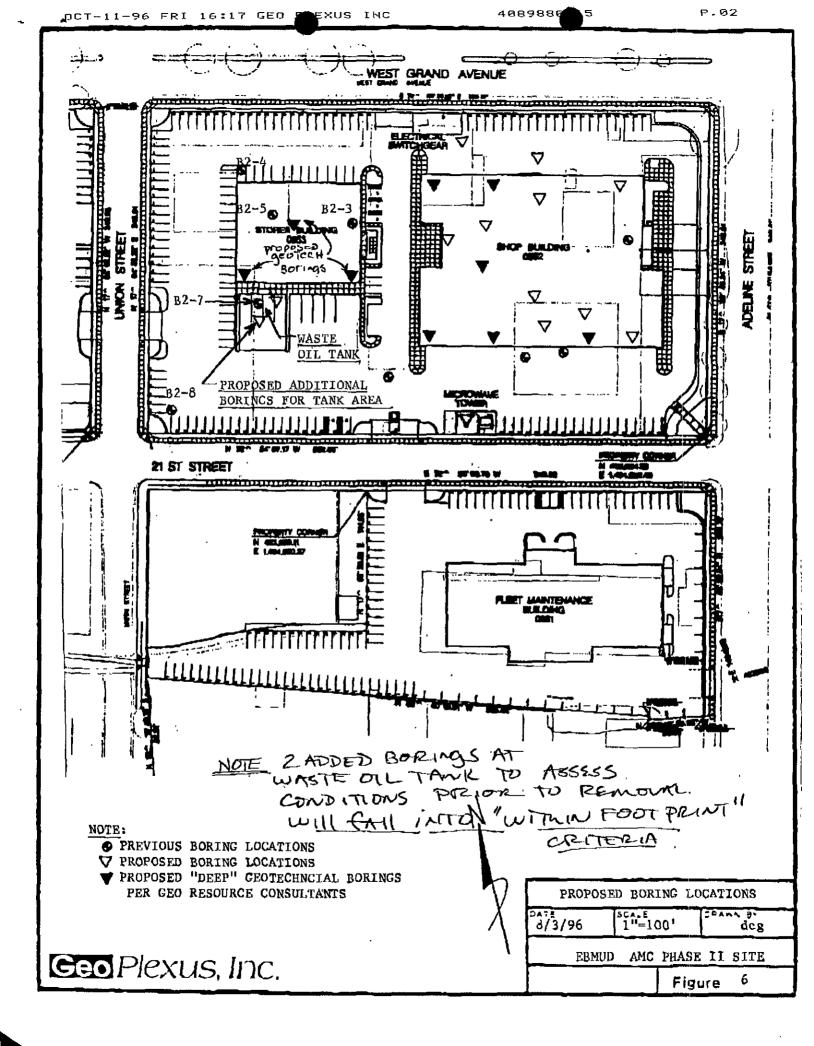
EC95407

Geo Plexus, Inc.

Health & Safety Training • Geo/Environmental Personnel • Engineering Geology Consultants • Environmental Management Consultants

FAX TRANSMITTAL COVER SHEET

DATE: 10/11/96
NUMBER OF PAGES INCLUDING THIS COVER SHEET:
VERIFICATION OF RECEIPT REQUIRED? YES NO
TO: MS. JULIET SHIN
COMPANY: ALAMEDA COUNTY
BUSINESS PHONE: 510 5676763
FAX PHONE: 510 337 9335
SPECIAL FAX INSTRUCTIONS:
FROM: DAVID GLICK
PROJECT: ERMUD ADELINE MAINT. CENTER
BUSINESS PHONE: FAX PHONE:
REMARKS: PEUISED BORING LOCATION PLAN - NOTE
Z ADDED BORINGS COVER TANK ANGA. BECAUSE
IT IS AT fOODING IT WILL BE CONSIDERED
"WITHIN FOOTPOWT", This should help.
WE WILL BE ADVANCING THE "GEDTECH" BORINGS
ON MON-TUES 10/21-10/22 W/ THE "ENVIRON" BORINGS
IF THERE WERE ANY PROBLEMS WITH THIS TRANSMISSION PLEASE CALL: SUSRITING E(SE) ON WED-TRUCEDAY 10/23-10/24
TOWNESTAND



COMMENTS Addendum 2 Adeline Maintenance Center Oakland

- 1) The waste oil tank needs to be removed under a County and Fire Dept. Permit A: Working on permitting. Nov/Dec timeframe item during demo work
- 2) If metals analysis are to be conducted, and TTLCs are to be used as threshold criteria, than leachability tests, such as an STLC analysis should also be mentioned.
- On Page 2, the addendum states that "Based on the established threshold criteria, the remaining soil contamination beneath West Grand Avenue does not require excavation". I presume that this is using the "unlimited" definition under the RBSL column of Threshold Criteria table. Please be reminded that these concentrations may need to be addressed if extensive groundwater contamination is observed. Also, benzene levels exceeded RBSL values, at 16ppm was identified in MK143 along Grand Avenue.
- Page 2 states that TPHg, BTEX, and low to moderate levels of TPHd and O&G were identified in Borings 2-3 and 3-4. According to my copies of analysis results, none of these contaminants were identified in soil samples collected from these boring locations. It also discusses Boring 3-3 and states that the above borings were located next to hydraulic lifts and that the contamination identified was associated with the hydraulic lifts. This is obviously not true for the TPHg, BTEX, and chlorinateds identified.
 - A:Could have used waste oil as a substitute for hydraulic oil since old lifts. Two lifts currently existing and two formerly existing in auto shop (phase II).
- 5) Where did Geoplexus get RBSL values for ethylbenzene.
 - A: This value comes from the Emergency Standard version, and not the current 1739 version.
- 6) Page 9-Why weren't PNAs and VOCs included in analysis?
 - A: These analyses only refers to the former 4,000- and 6,000-gallon UST area, and not the waste oil UST.
- When will monitoring wells be installed? Have not yet discussed schedule for monitoring well installations. Post-construction item. Need to begin working on well installations after Phase II work. And eventually Tier II.

A=Answer (from David Glick, GeoPlexus)



Health & Safety Training • Geo/Environmental Personnel • Engineering Geology Consultants • Environmental Management Consultants

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FAX TRANSMITTAL COVER SHEET

DATE: 18/10/96
NUMBER OF PAGES INCLUDING THIS COVER SHEET: 5
VERIFICATION OF RECEIPT REQUIRED? YESNO
TO: JULIST SHIN
COMPANY: TOAMED A COUNTY
Business Phone: 510 5676763
FAX PHONE: 510 337 9335
SPECIAL FAX INSTRUCTIONS:
FROM: DAND GLICK
PROJECT: PBCA - ADMINE MAINT CENTRE
BUSINESS PHONE: FAX PHONE:
REMARKS: MYCHED W TO RE: PBCA CAIC.
Software SELECTS MOST CONSERVATIVE
CACULATION BETWEEN Z Algorithms in
ACCORDANCE WITH STANDARD. LOOK UP TOBLE
in ASTM STANDAND only USED ONE OF THE
ALGORITHMS AND NOT BUTH. BOTH TOE DEPENDENT FW DEDTH TO WATER AS DISCUSSED.
IF THERE WERE ANY PROBLEMS WITH THIS TRANSMISSION PLEASE CALL:
Thope The helps
DAW GICK
1000 Had Drive Suite to Forte State

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put into these boxes with grayed out text, they will not be used by the software.

3.3 Updating Groundwater and Air Dispersivities

An additional feature not documented in the User's Guide has been added to Input Screens 3.1 and 3.2 to facilitate use of the built-in dispersivity equations for modeling off-site receptors. On both Screen 3.1 and 3.2, a button titled "Use for GW/Air Disp." is located next to the corresponding receptor distance. Clicking on these buttons will automatically update the appropriate dispersivity values on screens 8.2 or 8.3, using the built-in default dispersivity relationships described on Screens 8.2.1 and 8.3.1. For more information see the on-line help.

4.0 Additional Troubleshooting Questions

4.1 Why can't I match the Example Tier 1 Lookup Tables in E 1739 or ES 38-94?

The RBCA Spreadsheet System is fully compatible with the ASTM RBCA Standard. However, in the RBCA software, some default parameters and calculation methods have been updated from the prior versions used in the example calculations presented in Appendix X.2 of ASTM ES 38-94 or ASTM E 1739. Consequently, for some exposure pathways, use of the default settings in the RBCA software will not replicate the example Tier 1 cleanup standard calculations published the ASTM Standards. (Please note that the values listed in Appendix X.2 of these Standards are provided as examples only and do not represent part of the actual ASTM Standards themselves.)

The updated calculation methods included in the RBCA software are itemized below.

"subsurface Soil Volatilization Algorithm: For the "subsurface soil to enclosed space" and "subsurface soil to ambient air" pathways, the RBCA Spreadsheet System uses a slightly different algorithm from the example listed in Appendix X.2 of the ASTM RBCA Standards. To provide a more accurate estimate of long-term volatilization rates, a mass-limited volatilization factor (in addition to the rate-limited volatilization factor) has been incorporated in the subsurface volatilization algorithm, similar to that used for the surface soil pathway. This revised algorithm is described in Section A.3, pages A-8 to A-9, of the Tier 2 RBCA Guidance Manual.

If desired, the user can replicate the example calculation of the ASTM Standards by simply setting the input value for "Depth to Base of Affected Soil" on Screen 8.1.1 to a very

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large value (e.g., 1000 feet). This will cause the RBCA software to default to the same rate-limited volatilization factor used in the example calculations in Appendix X.2 of E 1739. However, the user should note that, for most cases, this prior version of the algorithm results in an extreme over-estimation of actual subsurface soil volatilization rates and, consequently, provides an overly conservative estimate of applicable RBSL or SSTL values.

* Dermal Exposure Factors: In the RBCA software, standard exposure factors for dermal exposure to soils have been updated to match the values published in the most recent U.S. EPA guidance document (i.e., 1992 Dermal Exposure Factors Handbook). Therefore, RBSL values calculated for the "surface soil ingestion/inhalation/dermal contact" pathway will not match the example calculations listed in Appendix X.2 of the ASTM Standards.

To replicate the example RBSL calculations in ASTM ES 38-94 or E 1739, simply match the dermal exposure factor values on Screens 4.1 and 4.2 to the values used in the ASTM example calculations. However, the user should note that the exposure factors used in these example calculations are not consistent with current EPA guidelines.

* Groundwater Volatilization to Enclosed Space Algorithm: For this algorithm, the equation printed in Appendix X.2 of ASTM Standard ES 38-94 contained a typographical error involving an incorrect diffusivity factor. This error is noted in the errata sheets issued in conjunction with the ES 38-94 document. The RBCA software incorporates the corrected algorithm for this pathway. It is not possible to make the software "match" the values in the ES 38-94 document because they were based on an incorrect calculation.

APPENDIX A: RBCA SPREADSHEET SYSTEM AND MODELING GUIDELINES

LDF: Leachate-Groundwater Dilution Factor (Equation CM-8)

The LDF factor accounts for dilution of organics as leachate from the overlying affected soil zone mixes with groundwater in the underlying water-bearing unit. As indicated on Figure A.2, the leachate dilution factor (LDF) divided by the soil-leachate partition factor (K, represents the steadystate ratio between the concentration of an organic constituent in the groundwater zone and the source concentration on the overlying affected soil. To estimate the leachate dilution factor, a simple box model is used to estimate mass dilution within a mixing zone in the water-bearing unit directly beneath the affected soil mass (see Equation CM-8, Figure A.3 on page A-13). The leachate volume entering the water-bearing unit is represented by the deep infiltration term, I, which typically falls in the range of 0.5% - 5% of annual site precipitation. For the Tier 1 RBSL calculation, a conservative default infiltration value of 30 cm/year is used, consistent with the example provided in ASTM E-1739, Appendix X.2. For many sites, this default value (equivalent to an annual rainfall rate of over 200 in/year) may significantly overestimate actual leachate rates.

Key assumptions used in this equation and their effect on the SSTL calculation are as follows:

KEY ASSUMPTIONS: LDF	EFFECT ON CLEANUP STANDARD		
Rainfall Infiltration: Deep percolation through affected soil assumed to reach water-bearing unit regardless of soil thickness or permeability.	. •		
No COC Decay: No biodegradation or other loss in mechanism groundwater zone.			
Default Dilution Parameters: Conservative default value for infiltration rate.	ightharpoons		

Tier2

A-11

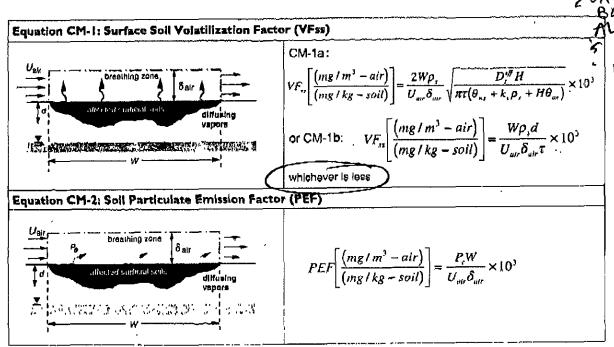


FIGURE A.3 CROSS-MEDIA PARTITIONING EQUATIONS IN THE RBCA SPREADSHEET SYSTEM

Continued

Tier 2

A-12

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APPENDIX A: RBCA SPREADSHEET SYSTEM AND MODELING GUIDELINES

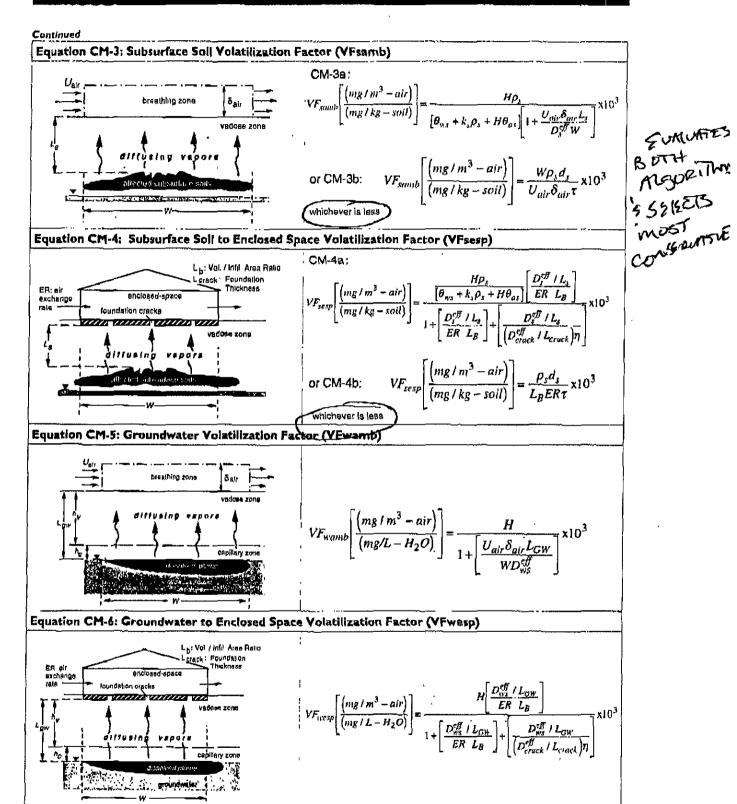


FIGURE A.3 CROSS-MEDIA PARTITIONING EQUATIONS IN THE RBCA SPREADSHEET SYSTEM

Continued

EBMUD Adeline Maintenance Center

Juliet,

I reviewed the risk assessment and also talked to David Glick of Geo Plexus.

- 1. I brought up one of the points that you had previously commented on because he had not given you a reply- about the soil contamination remaining beneath West Grand Avenue. The report mentions that this does not require excavation. They need to qualify this statement. David mentioned that they probably would need to give reasons or evaluate the benzene (16 ppm) found in one of the borings
- 2. I was confused about the table given in page 4. I wanted to find out if the RBCA evaluation for cleanup numbers were done using RBCA default values as they call it Tier 1 cleanup levels. In my discussion I found out that they had not used the default value for depth to groundwater but instead had used a value of 20 feet. So these are not really tier 1 values since some site specific information has been included. (They should make the change in the document). Also, I understand that they have perched water condition due to the fill material, gravel and the underground utilities and this water was found to be contaminated. If this condition is relevant to areas which are being investigated/constructed etc, then I think they should use the pertinent groundwater depth and not assume a constant 20 feet depth.
- 3. In page 5, the document mentions that the values from the more conservative pathway i.e "leaching to groundwater" has been used to evaluate the cleanuplevels. But looking from the tier 1 tables, the indoor air pathway is the more conservative one. They need to use this values for footprint inside building. For the outside the building areas, they could base the cleaup levels on the "leaching to groundwater" pathway.
- 4. Since, they have not investigated groundwater and are going to construct the building before they do the groundwater investigation, they should install vapor barriers in case it turns out later that the groundwater is significantly impacted and could pose a risk to the workers.



October 1, 1996

Ms. Juliet Shin Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, Second Floor Alameda, CA 94502 PROCESS PROMINE

Dear Ms. Shin:

Subject:

Transmittal of the Addendum No. 2 to the Materials Management Plan, East Bay

Municipal Utility District, Adeline Maintenance Center

Enclosed is a copy of the above referenced addendum for your review and comment. The addendum documents the proposed additional investigation activities for Block 2 of the Adeline Maintenance Center (AMC) to be implemented during Phase 2 and 3 AMC construction activities.

The addendum sets forth clean up criteria for PNAs and volatile organics that were not included in the Materials Management Plan (MMP). These clean up criteria are based on RBCA guidelines and have been applied to areas both within and outside proposed building footprints. All other clean up levels are as stipulated in the approved MMP.

The addendum indicates field work will begin October 10, 1996. It also indicates that you would have the addendum by September 18. Because I am behind schedule in submitting the revised addendum to you, I understand you may need additional time to complete your review. I would appreciate, however, receiving your questions and/or comments as soon as your schedule permits in order to facilitate the start of site investigation as close to October 10 as possible.

Sincerely,

EILEEN FANELLI

Alexan Stour

Senior Environmental Compliance Specialist

EF:prb

cc:

Dave Tsztoo/EBMUD

EC96484

AGENCY

DAVID J. KEARS, Agency Director

October 10, 1996

Richard Sykes EBMUD P.O. Box 24055 Oakland, CA 94623-1055 ENVIRONMENTAL HEALTH SERVICES

ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Re: Addendum No. 2 to the Materials Management Plan for the Adeline Maintenance Center, Oakland, California

Dear Mr. Sykes,

This office has reviewed a portion of Geoplexus, Inc.'s Addendum No. 2 to the Materials Management Plan for the Adeline Maintenance Center, dated September 12, 1996. Per my conversation with Eileen Fanelli today, the following is a list of comments on the workplan, excluding the risk assessment portion presented in Appendix 2A. Madhulla Logan in our office will begin review of the risk assessment within the next week.

- On Page 2 of the Addendum, it states that "Based on the established threshold criteria, the remaining soil contamination beneath West Grand Avenue does not require excavation." However, according to our files, the benzene concentration in Sample MK143, located along Grand Avenue, identified 16 parts per million (ppm) benzene at 7-feet below ground surface (bgs). Therefore, this office is requesting that the Addendum address these concentrations through a risk assessment or some sort of investigation or corrective action proposal.
- o Per Figure 6 of the Addendum, two borings were proposed roughly in the area of former Boring 2-7 beneath the proposed building footprints. However, at least one additional boring should be placed in closer proximity to Boring 2-7 to better delineate the elevated contaminant levels previously identified in this boring. Contaminants identified in Boring 2-7 included elevated levels of Total Petroleum Hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX), TPH as diesel (TPHd), Oil & Grease, and halogenated volatile compounds. If the waste oil underground storage tank (UST) is located in the immediate vicinity, sampling associated with the removal of this UST may also assist in delineating the observed contamination.

The location of the waste oil UST is unclear. Please submit a figure with the exact location of this UST.

Mr. Richard Sykes Re: AMC October 10, 1996

Page 2 of 3

- o Please be reminded that the removal of the waste oil UST should include permitting through this office and the City of Oakland Fire Department. Analysis of soil samples collected from this UST removal should include TPHg, TPHd, BTEX, Oil & Grease, halogenated volatiles (VOCs), polynuclear aromatic hydrocarbons (PNAs), and metals.
- Page 5 of the Addendum mentions that the threshold criterias used for metals would be the TTLCs listed in Title 22 California Code of Regulations. However, it is unclear when soil samples collected from the Phase II and Phase III areas would be analyzed for metals. Additionally, if EBMUD is planning to use TTLCs as the threshold criteria, it should also be using some sort of leachability criteria as well. Typically, this office requests that a "WET" test be conducted when metal concentrations are identified at 10 times the STLC in soil. However, if insitu metal concentrations are identified at the site at 10 times the STLC, this office will allow the application of Method 1312, which simulates acid rain with the use of sulfuric and nitric acid. This method is much more realistic and applicable for this site situation. However, it is the understanding of this office that off-hauled excavated soils from the site will be analyzed for STLC per the landfill disposal requirements.
- Page 9 of the Addendum does not list the PNAs and VOCs analyses. Per my conversation with David Glick, Geoplexus, on October 9, 1996, these analyses only refers to the area with the former 4,000-gallon and 6,000-gallon underground storage tanks (Phase II) and not to the waste oil UST area.
- The threshold criteria listed for ethylbenzene in Table 1, Page 4, does not match our copy of the Tier 1 Look-up Table values listed in the American Society for Testing and Materials' Risk-Based Corrective Action guidelines (ASTM RBCA, Version E-1739-95). Please clarify.
- o Groundwater investigations associated with the observed soil contamination was not mentioned in the schedule provided in the Addendum. This office is requesting that groundwater investigations begin immediately after the completion of the Phase II and Phase III work. A Tier II ASTM RBCA analysis may also be needed.

Mr. Richard Sykes

Re: AMC

October 10, 1996

Page 3 of 3

Please submit a response to the above concerns for our review. If you have any questions or comments, please contact me at (510) 567-6763.

Sincerely,

Juliet Shin

Senior Hazardous Materials Specialist

cc:

Eileen Fanelli

EBMUD

P.O. Box 24055

Oakland, CA 94623-1055

David Glick

GeoPlexus, Inc.

1900 Wyatt Drive, Ste 1 Santa Clara, CA 95054

Acting Chief

ALAMEDA COUNTY HEALTH CARE SERVICES

AGENCY



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH 1131 Harbor Bay Parkway Alameda, CA 94502-6577

(510) 567-6777

June 7, 1996

Mr. Richard Sykes
East Bay Municipal Utility District (EBMUD)
P.O. Box 24055
Oakland, CA 94623-1055

Re:

Closure of Block 4 of the Adeline Maintenance Center (AMC), located at 1200 21st St., Oakland, California

Dear Mr. Sykes,

It appears that two underground storage tanks (one 10,000-gallon diesel and one 500-gallon gasoline) were removed from the above site in 1986. Analyses of soil samples collected from surface soils, borings, and test pits placed at the site between February 1995 and January 1996 identified up to 960 parts per million (ppm) Total Petroleum Hydrocarbons as gasoline (TPHg), 11ppm benzene, 11ppm toluene, 9.9ppm ethylbenzene, 78ppm xylenes, 330ppm Total Petroleum Hydrocarbons as diesel (TPHd), 450ppm Oil & Grease (O&G), 3.9ppm phenanthrene, 2.9ppm fluoranthene, 3.3ppm pyrene, and, except for the lead concentrations, metal concentrations were fairly low.

Based on GeoPlexus, Inc.'s Closure Report, dated May 29, 1996, for the site, approximately 3,265 tons of soil was excavated from the site in February 1996 in order to remediate contaminant concentrations to below cleanup levels. The cleanup levels for the site are based on Tri-Valley Regional Guidelines, the American Society for Testing and Materials' Risk-Based Corrective Action Guidelines, and Total Threshold Limit Concentrations (TTLCs). Dermal, ingestion, and inhalation exposures were not considered based on EBMUD's statement that the site will remain paved.

Although confirmatory soil samples collected from the excavation indicate that contaminant concentrations have been remediated to below cleanup levels, the lead concentrations identified in the area of former Boring 6-1 (2,600ppm at 3-feet bgs and 440ppm and 970ppm in surface soils) have not been removed. Although one of these sample concentrations exceeds the 1,000ppm TTLC given for lead, this contamination appears to be limited in extent, and this office feels that this lead contamination, along with the surficial lead concentrations, will not pose a problem as long as the site remains paved. However, if the paving is ever removed, EBMUD will be required to notify the local implementing agency and assess the potential exposure routes and impacts to human health and the environment for these concentrations

Based on the above information, it appears that corrective action for the observed hydrocarbon and metal contamination at Block 4 of the AMC Facility has been completed.

Mr. Richard Sykes

Re: Block 4-1200 21st St.

June 7, 1996 Page 2 of 2

If you have any questions or comments, please feel free to contact me at (510) 567-6763.

Sincerely,

Juliet Shin

Senior Hazardous Materials Specialist

cc: Eileen M. Fanelli

EBMUD

P.O. Box 24055

Oakland, CA 94623-1055

David Glick

GeoPlexus, Inc.

1900 Wyatt Drive, Ste 1 Santa Clara, CA 95054

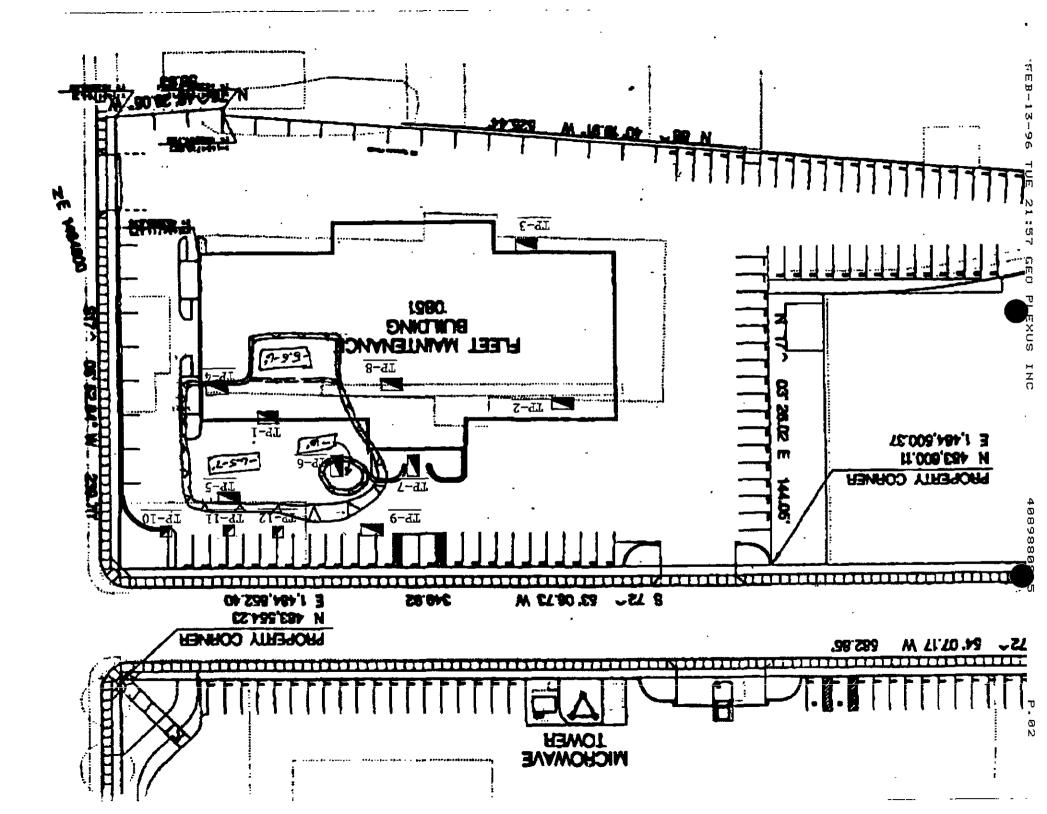
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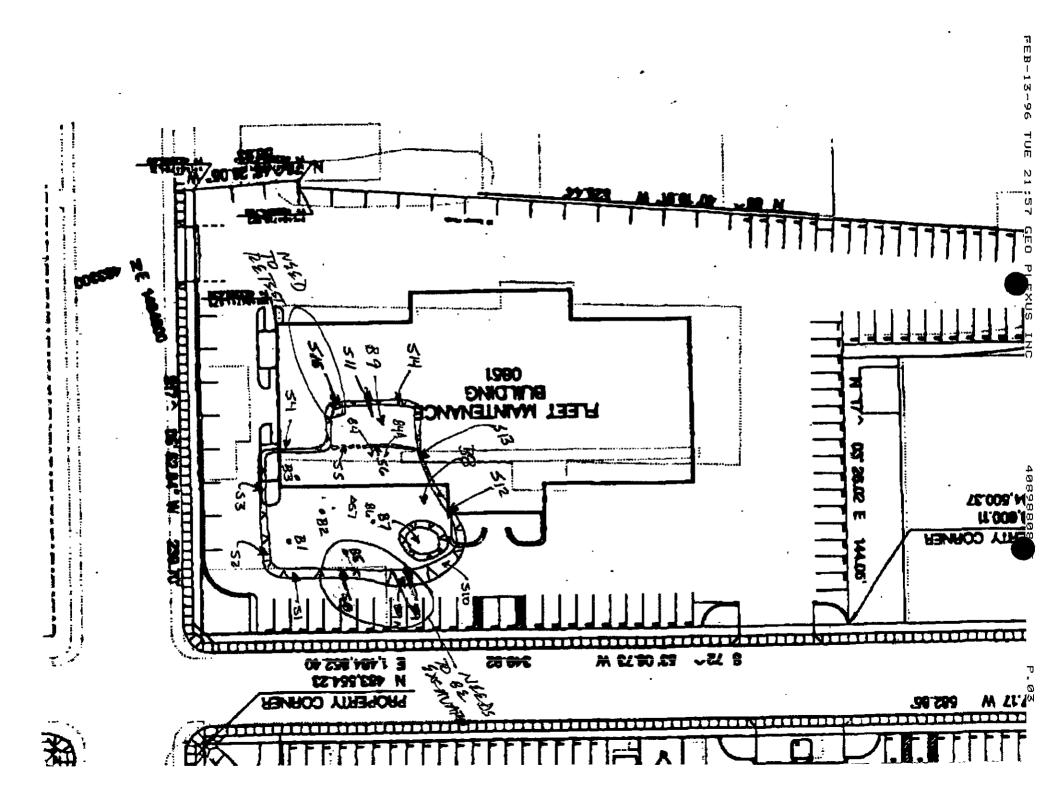
Geo Plexus, Inc.

Health & Safety Training • Geo/Environmental Personnel • Engineering Geology Consultants • Environmental Management Consultants

FAX TRANSMITTAL COVER SHEET

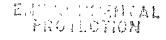
DATE: 2-B-96
NUMBER OF PAGES INCLUDING THIS COVER SHEET:
VERIFICATION OF RECEIPT REQUIRED? YES NO
TO: MS. JUliet Shiw COMPANY: ATTMEDA COUNTY DEPT OF EAU. HENTE BUSINESS PHONE: SID-337-9335
SPECIAL FAX INSTRUCTIONS:
FROM: DAVID Glick PROJECT: EBMUD - MOELINE SITE
BUSINESS PHONE: FAX PHONE:
REMARKS: AT ACUED IS A PRELIM. SUMMANY OF TEST
DATA GOSZ EAMPLES FROM THE EXCANATION
AND SAMPLE /EXCANTION PLAN. I UNDERSTAND
WE WILL HAVE A TELEPHONE CONT CALL AT
9:00 TOMORDON AM TO DISCUSS OVERALL
155VES. ThANKSton your Harp.
IF THERE WERE ANY PROBLEMS WITH THIS TRANSMISSION PLEASE CALL:







ENGINEERING AND CONSTRUCTION DEPARTMENT



95 MOV 13 PM 3:53

DENNIS M. DIEMER

November 9, 1995

Juliet Shin Alameda Co. Health Department 1131 Harbor Bay Pkwy., 2nd Flr. Alameda, CA 94502

Subject:

Adeline Maintenance Center - Specification 1687

Partnering Workshop

Dear Juliet,

Thank you for your attendance and participation in the District's Partnering Workshop conducted on October 23, 1995. It was a pleasure to get together with you for this event. We look forward to your continued interaction for a successful project.

Enclosed for your use is your copy of the Partnering Charter and notes as prepared by Jim Eisenhart of Ventura Consulting Group. If you should have any questions regarding the partnering workshop or other project information, please direct them to David Tsztoo at (510) 287-1163.

Very truly yours,

ALBERT A. SANCHEZ

Manager of Special Projects

suil J. Fastor for

DT:JH:mh

Enclosures

MEETING

1200 21st Street Oakland January 31, 1996

Attending:

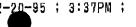
Eileen M. Fanelli, EBMUD Karl Mayo, EBMUD David Glick, Geoplexus Matt, Walsh Pacific Juliet Shin, ACDEH

- o The ASTM RBCA values given in the report need to be multiplied by 0.29 for soil, which would effect the proposed excavation depths in the Phase II UST area from 1-7 feet bgs to 1 to 14 feet bgs.
- o Lead and PNAs will be analyzed for in soil samples collected from Trench 10 through 12, which are located near former Boring 6-1.
- Although water was observed in Trench 2 and from Boring 6-4 previously, this water appears to be perched because the water was limited and located whereever rubble was identified. Also, a water line or sewage line leak was identified upgradient of Trench 2, and when this leak was fixed, no additional water entered Trench 2. The actual aquifer appears to be deeper than 16-feet below ground surface, based on the fact that no water was observed at this depth in the former tank excavation.
- o EBMUD was asked to conduct a risk assessment assessing the potential human health threat for vapor intrusion into buildings. The anticipated cleanup values can be used to conduct this assessment.
- The soil samples collected from Trench 6 contained the highest levels of TPHg and TPHd out of all the Trench samples. According to David Glick, the lab stated that the identified TPHd looked like weathered gas.
- There is no additional information on the two underground storage tanks formerly located at the Fleet Maintenance Center, other than the fact that they were removed in the early 80's.
- O Due to the limited amount of groundwater anticipated during the excavation process, Geoplexus is proposing that any dewatered groundwater will be pumped to a baker tank, tested, and properly disposed, probably under a one-time discharge permit from RWQCB.
- o Walsh Pacific will have a design schedule available to EBMUD for the Phase II area of the site by May 1996. EBMUD will subsequently put together a mass overexcavation schedule.

- o EBMUD was reminded to submit documentation for the fate of all excavated soil to this office, which could be incorporated into the reports for the various phases of work.
- o Forward a copy of the LG letter discussing hydraulic lift exemption to Eileen Fanelli.
- o A letter summarizing discussions of meeting will be submitted by Geoplexus.
- o A schedule for the excavation work planned at the Phase I area of the site will be submitted to the County next week.

Other comments made by the County are noted in the copy of the report in County's files.

84845010·





General Services Administration, Region 9 525 Market Street San Francisco, CA 94105-2799

December 20, 1995

Ms. Juliet Shin Alameda County Health Care Services Department of Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502-6577

Ref: Underground Storage Tank Removal, Project RCA21602 Alameda Federal Center, Alameda, CA

Dear Ms. Shin:

This is to confirm our conversation of December 14, 1995, regarding the status of the above referenced project. The bid opening for this project was held on November 2, 1995. Ten bids were received which ranged from a low of approximately \$67,000 to a high of approximately \$411,000. We are currently evaluating the low bidder's alleged mistake in the bid. At the present time, we are considering converting this solicitation from sealed bidding to a negotiated procurement due to the wide range of bid prices received which varied significantly from our Government estimate. This conversion would allow us to examine the technical approaches of the bidders and the reasonableness of the prices proposed.

Although we are currently unable to provide a realistic project schedule due to the complexity of the procurement actions required, we can tell you that we do not anticipate awarding the tank removal contract prior to February 1996. Once the contract is awarded, the contractor will have fifteen (15) calendar days to submit performance and payment bonds. Notice to Proceed could not be issued prior to receipt of these bonds; consequently, work would probably not begin on the site before March 1996.

OPTIONAL FORM 99 (7-90)			
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Fax + 510 337-9335	Fax #	14	450D
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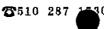
Letter to Ms. Juliet Shin Page 2

We appreciate your understanding and patience and will keep you apprised of the status of this project. Should you require additional information, feel free to contact me at (415) 744-5995, or Norma J. Hermocillo, the Contracting Officer, at (415) 744-5117.

Sincerely,

James W. Lew Project Manager

San Francisco Service Center
Public Buildings Service (9PEC)







GARY L. HUNT ASSISTANT CENERAL MANAGER OPERATIONS, PLANNING, AND MAINTENANCE

FAX TRANSMITTAL SHEET

This transmitt	al consists of pages including cover page.
DATE:	12/20
то:	Julit Sin (510) 337-9335
Fax#:	
Tel #:	
FROM:	
Tel #:	
Fax #:	(510) 287-1530
CONTENT:	meeting agends AMC
COMMENTS:	Meeting tomarrow, Der 21, at 11:00
	7th floor EBMUD

[] Original to follow

If you have any trouble receiving the above specified pages, please call the Regulatory Compliance Office at (510) 287-1669, or call the sender at the above number.



Meeting Agenda **Project Status Report AMC Project**

Date: December 21, 1995, 11:45 am, Hillview Confr. Rm. 7th fl. EBMUD offices

Attendees:

Juliet Shin/Alameda County Health Department

Eileen Fanelli/EBMUD Alex Coate/EBMUD

- 1.0 Construction Status Update
- 2.0 Materials Management Plan Outline (MMP)
- 3.0 Discussion of Technical Approach
- 4.0 Schedule for completion of the draft MMP

25510 287

Modified Outline Materials Management Plan Adeline Maintenance Center

1.0 Introduction

- 1.1 Purpose and Scope
- 1.2 Site History
- 1.3 Planned Improvements
 - 1.3.1 Project Elements
 - 1.3.2 Schedule and Phasing

2.0 Threshold Criteria

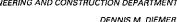
- 2.1 Identification of Applicable Guidelines and Evaluation of Criteria
- 2.2 Summary of Threshold Criteria
- 3.0 Areas of Concern (as related to threshold criteria)
 - 3.1 Within construction limits
 - 3.2 Outside of construction limits
- 4.0 Preferred Soil Management Options
 - 4.1 Evaluation Criteria (cost, time, staging, grading)
 - 4.2 On-site Options
 - 4.3 Off-site Options
 - 4.4 Preferred Option(s)

5.0 Methodology

- 5.1 Excavation Protocols (incorporates the procedures for "following" contamination outside of construction or property boundaries)
- 5.2 Excavation Characterization
- 5.3 Dewatering
- 5.4 Confirmation Sampling
- 5.5 Tank Excavation and Removal
- 5.6 Worker Health & Safety
- 6.0 Phase and Area Specific Implementation Plans (Plans to be developed as design/construction elements are finalized and will be included as appendices to the MMP)
- 7.0 Unforseen Conditions
 - 7.1 Additional Tanks/Sumps
 - 7.2 Free Product
 - 7.3 Scepage Control/Recovery



DIRECTOR OF ENGINEERING





October 17, 1995

Juliet Shin Alameda Co. Health Dept. 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502

Dear Ms. Shin,

You are invited to participate in a partnering workshop for the District's Adeline Maintenance Center Design Build Project located in West Oakland. Over fifty (50) individuals representing the District, contractors, consultants, City of Oakland, and other review agencies are invited to attend (see list of participants in Attachment 1). If you cannot attend, please send a representative and confirm by October 18, 1995.

Jim Eisenhart of Ventura Consulting Group, Inc., will be the facilitator for the one-day workshop. The workshop will explore common problems which have typically led to adversarial relationships among project participants on many unsuccessful projects. More importantly, the workshop will allow all participants to develop mutually agreeable processes to deal with and resolve problems so that a successful project results for everyone.

The workshop will begin with a complimentary breakfast at 7:30 am on Monday, October 23, 1995 at the Executive Inn, 1755 Embarcadero, Oakland, CA and will end at approximately 4:30 p.m. A catered lunch and refreshments will be will also be provided by the District.

Attendance confirmations by you, or your representative, and any questions about the workshop should be directed to Eulalia Sweet or David Tsztoo at (510) 287-1163. The contact number at the Executive Inn is (510) 536-6633.

Very truly yours,

ALBERT A. SANCHEZ

Manager of Special Projects

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AAS:es

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Attachment

Project file CC

AMC PROJECT

Partnering Workshop October 23, 1995 Executive Inn, Oakland, CA

EBMUD (OWNER)

Albert Sanchez, Manager of Special Projects David Tsztoo, Project Manager Eva Lucia, Senior Civil Engineer Karl Mayo, Supervising Administrative Engineer Eulalia Sweet, Senior Clerk

EBMUD (CLIENT)

John Bertorello, Manager of Plant and Equipment Maintenance Stuart Cannon, Manager of Purchasing Jonathan Spiegel, Manager of Maintenance Planning Dave Williamson, Mechanical Superintendent Carlos Cardoza, Electrical Superintendent John Carleton, Structures Superintendent Lisa Ricketts-Mann, Assistant Construction/Maintenance Superintendent Bill Kerr, Facility Supervisor Robert Sonnenfelt, Equipment Supervisor Chuck Evans, Equipment Supervisor Les Martin. Stores Supervisor Roger Meininger, Materials Storage Supervisor Carl Jackson, Principal Information System Analyst John Burge, Senior Telecommunications Analyst Richard Sykes, Regulatory Compliance Officer Bruce Lepore, Manager of Workplace Health and Safety Alex Coate, Manager of Environmental Compliance

CONSOLIDATED CM (Construction Management)

Matt Scoble, Executive Vice President
Jack Heffernan, Resident Engineer
Denise East, Resident Inspector

WALSH PACIFIC CONSTRUCTION (General Contractor)

Michael Cooper, Project Manager Brad Oldenbrook, Assistant Project Manager Fred Rust, Superintendent

MICHAEL WILLIS & ASSOCIATES (Design Architect)

Michael Willis, Principal Rod Hemni, Project Architect

VENTURA CONSULTING GROUP

Jim Eisenhart - President/Facilitator

CITY OF OAKLAND

Brian Matsumura, Process Coordinator III, Planning and Building
Jon Ewigleben, Supervising Civil Engineer, Building Plan Check
Jerry Blueford, Fire Marshall
Joan Curtis, Senior Engineering Technician
Ray Derania, Manager, Inspection Services
Calvin Wong, Deputy Director of Planning and Building
Phil Grubstick, Manager of Engineering Services and Building Plan Check
Frank Kliewer, Manager of Operation, Planning and Building
Shirley Stubblefield, Acting Director of Planning and Building

VICKERMAN, ZACHERY, MILLER (VZM) (Production Architects)

Marian Rule Cope, Project Manager Kit Wong, Project Architect Michael Zachary, Principal

ENGINEERING NETWORK CONSULTING ENGINEERS (Mechanical Engineers)

Mansour Firouzian, Principal

SCE ENGINEERS (Electrical Engineers)

Albert Lee

BAY CITIES PAVING & GRADING

Steven Caudill

FREDERICK MEISWINKEL, INC. (EIFS/Drywall/Fireproofing)

Earl Thompson

LINDQUIST/VAN HOOK (Pre-Engineered Metal Bldg.)

Kurt Lindquist, Partner

SAINTS MECHANICAL COMPANY, INC. (Mechanical Sub-contractor)

David Davallou

EDWARD SCOTT ELECTRIC CO., INC. (Electrical Sub-contractor) Bill Kay

LESCURE CO., INC. (Electrical Sub-contractor) Norman Lescure, President

PG&E

Robert Cohen Joe Skarr

ALAMEDA COUNTY ENVIRONMENTAL HEALTH SERVICES
Juliet Shin

BAY AREA AIR QUALITY MANAGEMENT DISTRICT Bill de Boisblane

REGIONAL WATER QUALITY CONTROL BOARD (RWQCB)
Bruce Wolf

PAC BELL

VENTURA CONSULTING GROUP, INC.

Adeline Maintenance Center Partnering Workshop October 23, 1995

AGENDA

The Executive Inn 1755 Embarcadero Oakland, CA

Monday:

- 7:30 Coffee & Danish
- 8:00 Welcome and introductory remarks by senior management
- 8:30 Introductions
- 9:00 Paradigms -- how they can limit our performance on this project.

 GOAL: get out on the table the "baggage" and background assumptions we have about one another that, if allowed to surface, can lead to "business as usual" at best.
- 10:00 Break
- 10:20 Presentation of "Partnership goals" as developed in previous workshop. Discussion. What's possible acknowledging these goals? Modification if necessary.
- 11:00 How do we get there from here? Participants define how they we realize these goals with an emphasis on team or collaborative actions.
- 12:00 Lunch
- 1:00 How do we get there, continued.
- 2:00 Predictable BOMS (breakdowns, obstacles, mistakes & screwups) on

this project -- what can go wrong? How can we prevent this? If we can't prevent this how can we minimize its impact on our partnership goals?

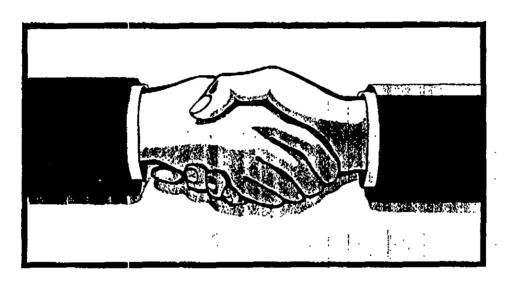
- 2:30 Enrolling others in the partnership -- how do we get those not here today into this partnership?
- 2:45 Sustaining this partnership
- 3:00 Development of partnership charter
- 3:15 Close

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Ventura Consulting Group, Incorporated

PARTNERING

R For Project Breakthrough



Facilitated Workshops, Seminars And Project Coaching

Trust, shared vision, commitment, teamwork and breakthrough results

VERSUS

Us vs. them, conflict, overruns, claims, delays and "business as usual"

How Does Our Partnering Process Actually Work

As a third party resource skilled in group process facilitation methods, we ensure creation of a partnership which acknowledges and meets the specific needs of all project stakeholders.

Ventura Consulting Group offers 1, 2, 3 or 5 day facilitated partnering workshops. These include an initial consultation with you to assist in the specific partnering design, identification of appropriate participants, introduction and planning for necessary workshop logistics.

Workshop participants may number from 4 or 5 up to 22. Workshop duration (1, 2, 3 or 5 day) is a function of: number of participants; complexity of project; and, relations among participants. For particularly large or complex projects, we offer custom partnering processes.

In addition, we often schedule follow-up interim workshops of 1/2 to a full day and/or individual coaching sessions to assess project progress and learnings, and reinforce initial commitments.

Ventura Consulting Group, Incorporated

Developing management and organization performance that accelerates business growth.

For more information, please call:

(805) 650-8040

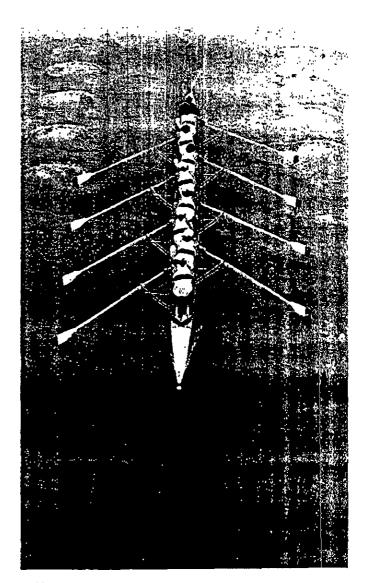
674 County Square Dr. Suite 105 Ventura, California 93003

Our Unique Approach To Partnering

Our process can deal with highly adversarial or potentially adversarial relationships. Our experience suggests that the background conversations (e.g. "These guys can't be trusted", etc.) that exist have to be dealt with up front. If not, you only have a pretense of trust, mutual support and understanding. Our facilitation process allows everyone to get these conversations, or paradigms, "out on the table" in such a way that is constructive and that moves things forward.

Our work is designed to produce a breakthrough in project success. We're committed
to having our clients produce a result that is
not just a 'success' but rather a genuine breakthrough
given what might be otherwise predictable. Our
experience suggests that the vast majority of participants want to be up to something more than just
'business as usual'. Our approach gives them the
opportunity to create this future as a possibility, turn
it into team and individual commitments and trans-

We empower participants to deal with risks and breakdowns. Perhaps the most vulnerable part of a partnering relationship is how parties deal with risk and failure. These situations surface people's true commitments. We coach participants to create a new context for risk and failure, one that recognizes that most project breakthroughs are actually generated out of breakdowns. Nor is it a question of eliminating risk or failure. Rather, it is a question of how a project team deals with them.



We develop transferable project management and leadership skills. Our commitment is to leave participants with skills and abilities that not only will contribute to their effectiveness on other jobs but will significantly enhance their career and professional development.

What **Partnering Is**

Partnering represents a new and powerful team building process designed to ensure that projects are positive, ethical and win-win experiences for all parties involved. Partnering, in short, takes the elements of luck, hope and personality out of determining project success particularly where there's a highly diverse and potentially adversarial group of interests involved.



The partnering process itself is a facilitated workshop in which stake-holders in a specific project or program come together, prior to initiation, to create a way of working together as a team that results in breakthrough success for all parties involved.

Let's face it, contracts and legalise don't spell out nor can they—how the various parties in a complex project will work together, plan, solve problems, or handle breakdowns.

"The best way to predict the future is to create it" -Peter Drucker

Benefits Of Partnering

THE VENTURE CENTER

Breakthrough results well beyond 'business as usual'.

Major reductions in cost growth over project life.

Time growth in schedules virtually eliminated.

Completion without adversarial relationships let alone claims or costly litigation.

Paperwork reduced.

Fun put back into project work!

Applications Of "Partnering"

Construction projects

Government - industry relations

Customer - vendor working relations - TQM. etc.

Interorganizational programs and projects-new product development, strategy planning, etc.

Examples:

For US Naval Postgraduate School, Monterey, CA (construction project): Created a team commitment between client. A&E and general contractor and subs to a 10 month completion schedule in face of a 12 month contractual agreement for completion.

For County of Ventura Supervisors, city managers & county business leaders (government - industry): Working to create a relationship between business and government leaders that facilitates a resolution of difficulties between the public and private sectors.

For two divisions of Penn Central Corporation (business - business): Created a strategic plan that both divisions were committed to realizing as partners.

white -env.health yellow -facility pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENUIRONMENTAL HEALTH

1131 Harbor Bay Pkwy Alameda CA 94502 510/567-6700

Hazardous Materials Inspection Form

II, III

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March 8, 1995

Ms. Jennifer Eberle Alameda County Environmental Health Local Oversight Program 1131 Harbor Bay Parkway, #250 Alameda, CA 94502-6577

Dear Ms. Eberle:

RE: STID 3917, Adeline Maintenance Center, 1200 21st St., Oakland

Enclosed please find a copy of the Preliminary Site Assessment Report prepared by GeoPlexus, Inc., for the Adeline Maintenance Facility, and a construction schedule for site excavation activities.

As described in the site assessment, soil samples were taken in the areas of two existing underground storage tanks at the Central Service Area (Borings 1-1 and 1-2), and near the location of the waste oil tank (boring 2-7). These three tanks are currently in use. The results indicate hydrocarbon contamination, and this will be further investigated at the time these tanks are removed in 1997.

The schedule indicates that the demolition and construction of facilities will be in a phased approach from now through 1997. All excavated materials that are suspected of being contaminated will be sampled and properly disposed.

If you have any questions, please call Cynthia Adkisson at 287-1627.

Sincerely,

RICHARD G. SYKES

Regulatory Compliance Officer

RGS:CCA:prb

Enclosures

cc: J. Shin (w/o enclosures)

EC95098-1132.1



February 24, 1995

Ms. Jennifer Eberle Alameda County Environmental Health Local Oversight Program 1131 Harbor Bay Parkway, #250 Alameda, CA 94502-6577

Dear Ms. Eberle:

RE: STID 3917, Adeline Maintenance Center, 1200 21st St., Oakland

Enclosed please find Unauthorized Release Report and a completed Underground Storage Tank Permit Application Form B for each of the four underground tanks that were discovered at the referenced facility.

Per your conversation with Cynthia Adkisson, you will receive by March 17 a time schedule of anticipated demolition, construction, and site assessment investigation. Upon receipt and review of this document, please call Cynthia with your questions and concerns.

We anticipate submitting the geotechnical report to your office by mid-March.

Please note that all future correspondence on this site should be addressed to me. If you have any questions, please contact Cynthia Adkisson at 287-1627.

Sincerely,

RICHARD G. SYKES

Regulatory Compliance Officer

RGS:CCA:prb

Enclosures

cc: J. Shin (w/o enclosures)

EC95085-1132

375 ELEVENTH STREET . OAKLAND . CA 94607-4240 . (510) 287-0444
P.O. BOX 24055 . OAKLAND . CA 94623-1055
BOARD OF DIRECTORS ANDREW COHEN . JOHN A. COLEMAN . STUART FLASHMAN
JOHN M. GIOIA . KATHERINE McKENNEY . NANCY J. NADEL . KENNETH H. SIMMONS



	UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT									
	HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? YES X NO ORT DATE CASE #	FOR LOCAL AGENCY USE ONLY 1 HEREBY CERTIFY THAT I HAVE DISTRIBUTED THIS INFORM DISTRIBUTION SHEET ON THE	MATION ACCORDING TO THE HE BACK PAGE OF THIS FORM							
0	1 2 1 2 1 4 1 9 1 5 V	SIGNE	DATE							
	NAME OF INDIVIDUAL FILING REPORT PHONE	II II DA da	- 2/24/95							
D BY		0)28#-1279 Ray 1. May) 0-/- 1//-							
REPORTED	LOCAL AGENCY OTHER REGIONAL BOARD	East Bay Municipal Utility D	istrict							
REP	ADDRESS 375 11th Street Oakland		CA 94607							
18LE	NAME EBMUD INKNOWN	CONTACT PERSON Richard G. Sykes	PHONE (510) 287-1629							
RESPONSIBLE PARTY	EBMUD UNKNOWN ADDRESS	Richard G. Bykes	(320) 207 1023							
	P.O. Box 24055, MS 704		CA 94623-1055							
	FACILITY NAME (IF APPLICABLE)	OPERATOR	PHONE							
<u>2</u>	EBMUD Adeline Maintenance Center		()							
SITE LOCATION	ADDRESS 1200 21st Street C	Oakland Al	ameda 94607							
	CROSS STREET		COUNTY ZIP							
"	Adeline									
<u>چ</u>	LOCAL AGENCY AGENCY NAME	CONTACT PERSON	PHONE							
IENTI ICIES	Alameda County Environmental Protection	Edgar B. Howell, III	(510)567-6700							
IMPLEMENTING AGENCIES	REGIONAL BOARD San Francisco Bay	Kevin Graves	PHONE (510)286-1255							
\vdash			QUANTITY LOST (GALLONS)							
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SP SE	LEAK BEING CONFIRMED PRELIMINARY SITE ASSESSMENT REMEDIATION PLAN CASE CLOSED (CLEANUP COMPL		MONITORING IN PROGRESS							
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REMEDIAL	CONTAINMENT BARRIER (CB) NO ACTION REQUIRED (NA		VENT SOIL (VS)							
ar .	VACUUM EXTRACT (VE) OTHER (OT)		5.							
S	6 USTs removed from the facility 11/17 th	nru 11/22, 1994. Four of these	were 'discovered'							
COMMENTS	and ranged in size from 300 to 500 gallo	ons, and the registered tanks	were 4,000 and							
8	6,000 gallons. Tanks were removed as par facilities, and soil and groundwater ass	sessement will be conducted as	s part of a site							
	wide environmental assessment.		HSC 05 (8/90)							

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



DAVID J. KEARS, Agency Director

February 17, 1995 STID 3917

Attn: Karl Mayo Mailstop 303 EBMUD PO Box 24055 Oakland CA 94623-1055 RAFAT A SHAHID, ASST AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH ALAMEDA COUNTY CC4580
DEPT. OF ENVIRONMENTAL HEALTH ENVIRONMENTAL PROTECTION DIVISION 1131 HARBOR BAY PKWY., #250
ALAMEDA CA 94502-6577

RE: Adeline Maintenance Center, 1200-21st St., Oakland CA 94607

Dear Mr. Mayo,

I am in receipt of a transmittal document from your office, unsigned, dated 2/2/95. Attached to this transmittal are the hazardous waste manifests for the six USTs, as well as a certificate for receipt of 1,391.21 tons of "HC material," presumably hydrocarbon contaminated soils, on 11/22/94, from REMCO in Richmond.

I am also in receipt of the 12/29/94 "Interim Remedial Action Summary Report," by GEMS. This report includes a fairly good description of tank removal activities, so I'll consider this a Tank Removal Report, required as per the Underground Tank Closure Plan. The highest residual soil concentrations (upper 8') are 2,800 ppm TPHg, 16 ppm benzene, 440 ppm TPHd, and 900 ppm O&G. Water in the 6,000-gal UST excavation was sampled and found to contain 6,200 ppb TPHg, 2,400 ppb TPHd, and 340 ppb benzene. This water was presumed to be perched water by GEMS. A hydrocarbon sheen was noted on the walls of the excavation. There was a pronounced hydrocarbon odor throughout the tank removal process. Apparent free product on the groundwater was noted, and vacuumed out. GEMS does not attribute the contamination in the upper strata to the USTs.

The GEMS report recommends that the County postpone requirements for borings and/or monitoring wells until the ensuing demolition activities are completed and observed/logged/sampled by a Registered Civil/Geotechnical Engineer and/or CEG. In order to accept this scenario, further information is need. Please submit a time schedule of anticipated activities, within 30 days, or by March 17, 1995. This office should be informed as the demolition and construction proceeds, as well as if contamination is discovered during these activities. A more specific request will be made upon receipt of the anticipated time schedule.

A Health and Safety Plan should be prepared for the ensuing demolition and construction activities. This plan must include an evaluation of the risk of exposure for workers to the hydrocarbons already identified at this site.

STID 3917 Attn: Karl Mayo 2/17/95 page 2 of 2

I understand that borings were installed in January in this four square block area for geotechnical purposes, as per a telephone conversation with David Glick on 2/16/95. I also understand that samples were collected and analyzed. Please submit a copy of this geotechnical report to this office.

On 12/13/94, I mailed you six "B Forms" from the State's Underground Storage Tank Permit Application. I have not yet received the completed B forms. As you may recall, one B form is needed for each UST removed. I already have B forms for the 4,000-gal and 6,000-gal fiberglass USTs, removed on 11/17/94. Please submit the B forms for the remaining four USTs within 15 days, or by March 4, 1995.

In addition, please also submit an Unauthorized Leak Report (ULR) for this site within 15 days, or by March 4, 1995. A blank form is enclosed.

Please note that with the exception of closure reports, routine reports and documents no longer need to be copied to the Regional Water Quality Control Board. If you have any questions, please contact me at 510-567-6700, ext 6761; our fax number is 510-337-9335. Please submit reports on double-sided paper in order to save trees.

Sincerely,

Jennifer Eberle

Hazardous Materials Specialist

CC: David Glick, GeoPlexus, 1900 Wyatt Dr., Suite 1, Santa Clara CA 95054
Richard Camacho, GEMS, PO Box 8282, Pittsburg CA 94565
Juliet Shin, Alameda County
EBMUD, PO Box 24055, Oakland CA 94623-1055, ATTN: Bruce

Lepoure, Health and Safety, (6th Floor)

Ed Howell/file

je.3917 enclosure Rg 1 of 3

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

Hazardous Materials Division Inspection Form

	Site	ID#	Site Nan	ne <u>EB</u>	MUD			Today'	s Date	11,28,99
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ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

Hazardous Materials Division Inspection Form

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A SALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH Hazardous Materials Division Inspection Form

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

Site ID#	Site Name	, EBMI	<u> </u>		Today's	Date	11,28,9
Site Addres	38		1200	21st St		iD#	
City	Outl	rend	# .;	Zlp 94	Phone		
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ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

Hazardous Materials Inspection Form

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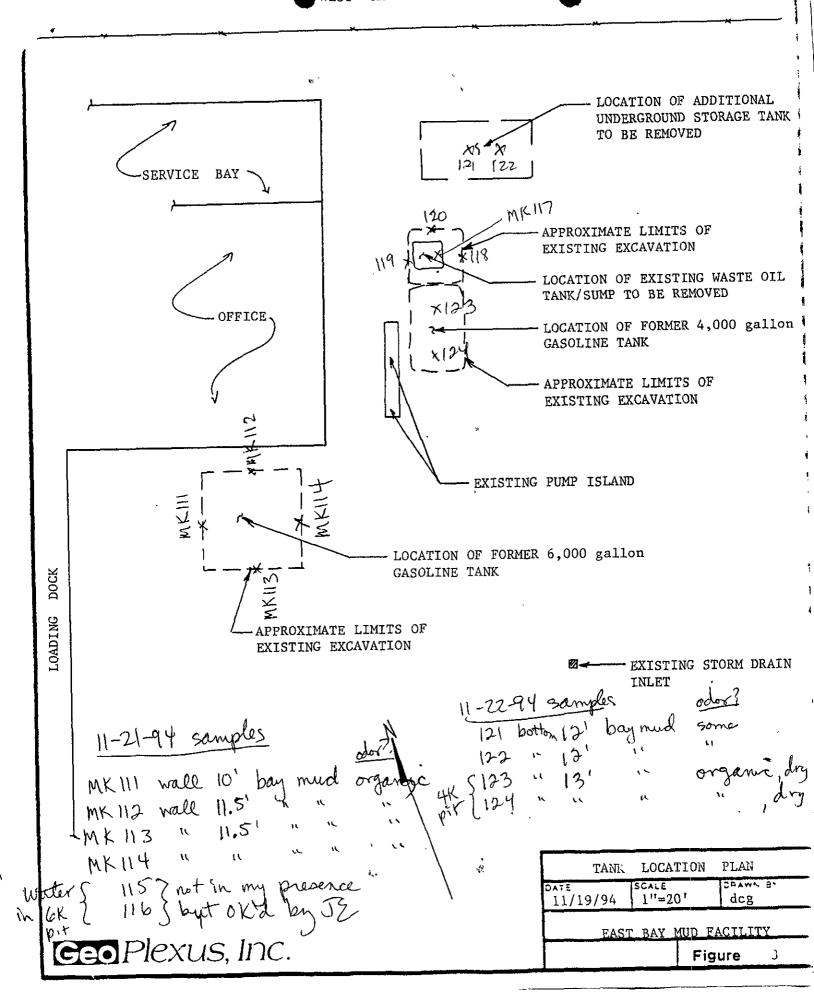
ALAMEDA COUNTY, DEPARTMENT OF **ENVIRONMENTAL HEALTH**

Hazardous Materials Inspection Form

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

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Contact: 510-287-1279 KARLMUTO Inspector: Jennifer Eberte	_

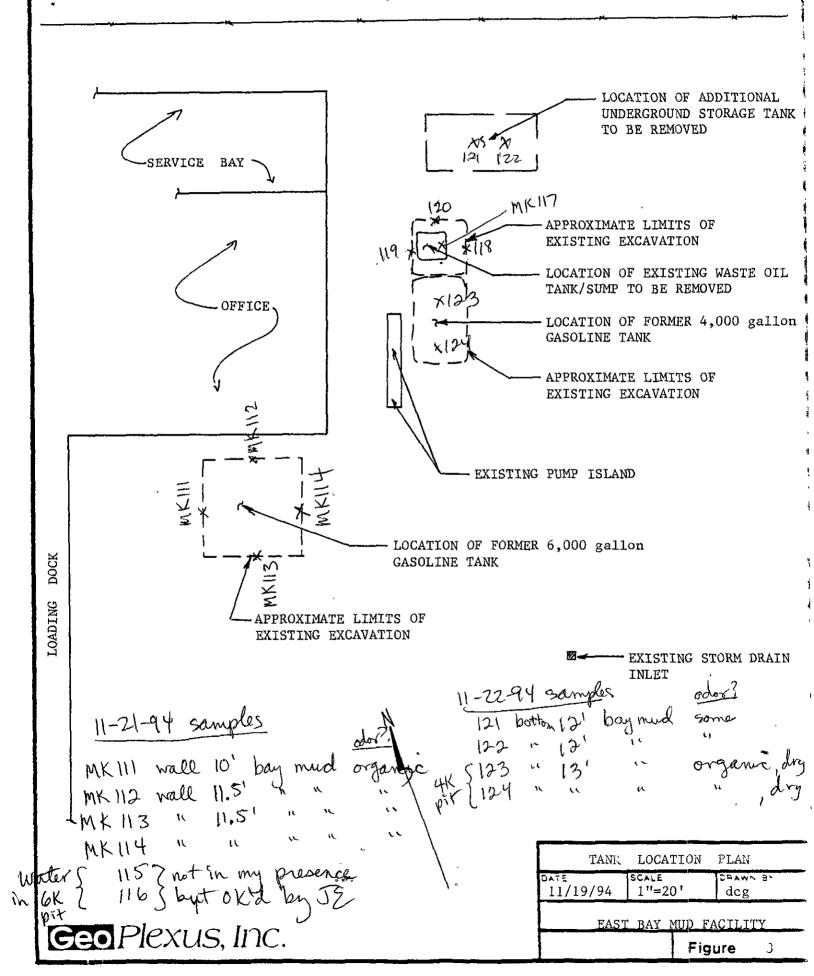
white -env.health yellow -facility olnk -flies

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621 (415) 271-4320

Hazardous Materials Inspection Form p. 2 of

1400		<u></u>	Site Site Name PB MWD Today	101,21,99
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łev	6/68			4
	Contact: _	Kanel	MAYO	SS, SSI
	Title:	DAG	Inspector: J. Eberle	
	Signature:	Kons	May Signature:	



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Contact:

Signature:

Title:

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621

EALTH (215) 271-4320

		H	azardous Materials Inspection Form (Oaldand Corp. Ford) 11,11	I
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ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 \$wan Way, #200 Oakland, CA 94621 (415) 271-4320

Hazardous Materials Inspection Form (1).

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7444			Site Site EBMUD Today	101,17,94
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		2643 2644 2646 2647	below the concrete, into the "spil + then into the hole & made by	l box,"
New Tanks	11.Monitor Plan 12.Access. Secure 13.Plans Submit Date: 14. As Built Date:	2632 2634 2711 2635	(fill?) pipe broken off during on thes: Mark said UST had bee sumped out, prior to dry ice-in	ep actur.
lev	6/88		(~225gal).	7
	Contact:	Jeena	Slos gasoline	II, III
	Title:	www men	Slow EBMUD Signature: Dela	
	Sianature:	XIe	-ROW EBMUD Signature: Walls &	

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ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621 (4)15) 271-4320

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III.	UNDERGROUND TANKS (Title	23)	EbMUD arrived 100 I phoned my
General	Permit Application Pipeline Leak Detection Records Maintenance Release Report Closure Plans	25284 (H&S) 25292 (H&S) 2712 2651 2670	it as ER. the ER van will come out
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New Tanks	11.Moduler Plan 12.Access. Secure 13.Mans Submit Date: 14. As Built Date:	2632 2634 2711 2635	
vef	6/88		
	Contact: 1	ACEX P.	COATE II, III OMPLIANCE MER /ERMUD Inspector: J-Esperg



EAST BAY MUNICIPAL UTILITY DISTRICT

375 ELEVENTH ST. , OAKLAND, CA 94607-4240 ; P.D. BOX 24055 ; OAKLAND, CA 94623-1685 (510) 287-1663 ; FAX ; (510) 287-1530

CYNTHIA C. ADKISSON WASTEWATER CONTROL REPRESENTATIVE



EAST BAY MUNICIPAL UTILITY DISTRICT

375 ELEVENTH ST. : OAKLAND, CA 94607. P.O. 80X 24055. ME \$702; CAKLAND, CA 94607. P.O. 80X 24055. ME \$70255. ME \$70255. ME \$70255. ME \$70255. ME \$70255. M

DAVID F. TSZTOO, P.E. SENIOR CIVIL ENGINEER



EAST BAY MUNICIPAL UTILITY DISTRICT

275 BLEVENTH, ST., CAKLAND, CA 94607,4240, LEO, BOX 24058; CAKLAND, CA 94673-1085 (616) 287-1085; 5AX: (610) 835-8729

General Environmental Management Services

Richard Camacho

(510) 427-4616 P.O. Box 8282 Pittsburg, CA 94565 "A" License No. 543700 Hazardous Certification Asbestos Certification white -env.health yellow -facility pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200 Oakland, CA 94621

Hazardous Materials Inspection Form

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	7. Training 8. Deficiency 9. Modification	25505(c) 25505(b)	MAX AMT stored > 500 lbs, 55 gal., 200 cft.?
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ILB ACUTELY HAZ MATES			11. Business Plans, Acute Hazardous Materiais
	IG. Registration Form Filed 11. Form Complete 12. RMPP Contents	25533(a) 25533(b) 25534(c)	III. Underground Tanks
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	17. Certification 18. Exemption Request? (Y/N) 19. Trade Secret Requested?		Comments:
		4-2-	Vac truck onsite (Erickson). Mark Keny
III. UNDERGROUND TANKS (TITLE 23)			Said they used Safe sorb to absorb
ē	1. Permit Application 2. Pipeline Leak Detection	25284 (H&S)	residual liquids around both storm
Genera	3. Records Maintenance 4. Release Report	25292 (H&S) 2712 2651	drains. Also vac'd the 4K UST. Then
	5. Closure Plans	2670	put in 100 lb druice at 3:25. 3:30 pumper
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	3) Daily Vadose One time soils	bet. W.	Grand Lawrence NOUS ago (10X or 20 K)
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Tanks	11.Monitor Plan 12.Access. Secure	2632 Cot #	4348026 (# 14947 tank#) 435 vac) of the
<u>7</u>	13.Plans Submit	2711	water in 4K UST pit. 2 pipetines the
z	Date:	12635	6K UST went to 2 pumps; one lines for
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Żū	mple and *	O KNOWED	GE OF VERIFIED CONTAMINATION Spunger
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	~		

CALTEC ENVIRONMENTAL INC GROUP SITE SAFETY PLAN

Original Site Safety Plan:	Yes (X) No	()	Revision No.:
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Plan Prepared by: Mark Kemp Date: 10/10/94

Title: Vice President

Signature: Maltilup

INTRODUCTION:

This plan establishes requirements and provides guidelines for worker safety during soil trenching, excavating, and soil sampling within the CalTec Environmental Inc. (CalTec) designated work zone at the EBMUD site. The purpose of this plan is to identify procedures for avoiding hazards and for responding to injury or accident. The safety rules provided in this plan cannot cover every eventuality. However, all workers involved will be expected to exercise good judgment in safety matters, even though certain specifics may not be mentioned.

GENERAL HEALTH AND SAFETY REQUIREMENTS

Site Safety Meeting

Site safety orientation/training meetings must be convened (1) before the field team begins work at the site, (2) when there are modifications to the site safety plan that are applicable to the field personnel, (3) when additional CAlTec personnel or subcontractors begin field work, and (4) at least every seven days (Cal-OSHA). Meetings will be attended by personnel involved in carrying out the project and presided over by the Site Safety Officer (SHSO) or his designee.

The meeting agenda must include the following minimum activities:

- Review the Health and Safety Plan with the attendees
- Distribute the Health and Safety Plan modifications
- Collect the attendees' signatures, acknowledging receipt and understanding of the Site Health and Safety Plan and their agreement to comply.

The Site Health and Safety Officer

CalTec's Site superintendent has overall responsibility for site health and safety. The SHSO is responsible for assisting the Site Superintendent in carrying out the health and safety requirements detailed in this plan and notifying the Site Superintendent if personnel do not comply with the requirements of this plan. The Site Superintendent may halt work or dismiss personnel who do not adhere to this plan.

- 1. The SHSO will maintain a field log. Information recorded in the log will include such items as working hours, names of people entering and leaving the exclusion zone, instrument status, background readings, action levels reached or exceeded, and all other information relevant to health and safety at the site.
- 2. The SHSO will be qualified in first aid.
- 3. The SHSO will maintain a list of addresses and telephone numbers of emergency assistance units (ambulance service, police, and hospitals) and inform other members of the field team of the existence and location of this list.

Accident/Incident Reports

If an accident or incident occurs on site, the SHSO is responsible for filling out and accident/incident report (Form HS-502, Appendix B.)

1.0 FACILITY BACKGROUND

1.1 Site Description

Type: Spill () Fire () HW Site () Industrial Facility ()

Other (X) Removal of (1) four thousand gallon gasoline & (1) six thousand gallon gasoline tank.

Physical Description: <u>EBMUD Maint</u>, Yard

Location: West Oakland

Status: Active () Inactive (X)

Surrounding Population: Commercial / Industrial Workers
Surrounding Structures: Commercial/Industrial
Topography: _Flat to sloping
SITE PLOT PLAN
(Include protective zones, below and above ground chemical storage areas and associated piping present (past if known), above or below ground electrical power lines or any other utilities or drainage lines present.
2.0 KEY PERSONNEL AND RESPONSIBILITIES
(Include name, telephone number and health and safety responsibilities, i.e., including Project Manager responsible for supervision of all site activities.)
Project Manager Richard Davis (Owner) responsible for: Supervision of all site activities.
Site Manager Mark Kemp responsible for: Supervision of all on-site activities
Field Team Member <u>Mark Kemp</u> responsible for: <u>Field Technician responsible for protocol procedures.</u>
Federal Agency Reps: N/A
State Agency Reps: N/A
Local Agency Reps: Alameda County Environmental Health Department
3.0 JOB HAZARD ANALYSIS
3.1 Overall Hazard Evaluation
Hazard Level: High () Moderate () Low (X) Unknown ()
Hazard Type: Liquid () Solid () Sludge () Gas (X) Diesel ()

Suspected hazardous material present on- site along with their hazardous characters: Gas petroleum hydrocarbon contaminated soil. Hazard associated with the chemical is primarily ignitability and direct contact.

3.2 Job-Specific Hazards

Besides underground fuel storage activities,, CalTec knows of no other use of the site that may have produced an environmental impairment due to hazardous materials. Therefore, it appears likely that the onsite chemical contaminants are associated with normal underground fuel storage activities. Accordingly, chemical contaminants at the site may be expected, to include fuel which was stored in the underground storage tank.

For each labor category (equipment operator, project manager, etc.) involved on the project, delineate the possible hazards referencing the information contained in Section 1.3 (i.e., task equipment operator, Hazards-trauma from equipment accidents, chemical exposure to gasoline, etc.) For each hazard, indicate steps to be taken to minimize the hazard.

All Field Personnel: Trauma from remediation equipment accidents, slip, trip and fall. Direct contact of fuel contaminated soil and when soil treatment applicable hydrogen perosxide solution may be harmful. To minimize the possibilities of hazards precautions required to avoid equipment accidents, direct contact, and fire accidents are to be taken. No smoking will be permitted within fenced working area.

Inhalation Hazard

Available information suggest that airborne contaminants at the site will not exceed the currently recognized health limits unless intrusive work is undertaken. Site entry may be made without respiratory protection before intrusive work begins (trenching, excavating, or soil treatment).

When intrusive operations commence, vapor concentrations may occasionally exceed the currently recognized health standards. Half-face or full-face respirator protector must be available onsite. The OVA will be used to monitor the breathing zone.

In an excavation or soil treatment work area, half-face or full-face respirators with organic vapor cartridges will be worn when overall OVA readings in the breathing zone exceed 30 ppm above background. The work zone will be evacuated when OVA readings in the

breathing zone exceed 300 ppm above background.

Ingestion Hazard

Site contaminants can enter the body by ingestion. Therefore, drinking and eating will not be allowed in the work zone. Prior to eating or leaving the site, hands will be washed and outer coveralls removed.

Dermal Exposure

Repeated daily contact with fuel contaminated soil or soil treatment chemicals would be expected to irritate the skin and perhaps, over a long period of time, lead to the development of skin lesions. For this reason, direct skin contact with chemicals shall be avoided by wearing protective gloves. However, if contact does occur, the exposed areas shall be washed with soap and water and rinsed thoroughly.

Fire Hazard

The site contains a number of flammable volatile compounds (i.e. gasoline, diesel, etc.). by evaluating the current data, it seems unlikely that explosive levels of these compounds will be encountered during excavation or soil treatment operations. However, pockets of these compounds may exist in the subsurface. For this reason, smoking and open flames are not allowed within the work zone.

Buried Utilities

All efforts have been utilized to locate the buried lines near the work zone. If any additional utilities are located, the lines will be marked and emphasized in the field notes and final report.

Noise

Hearing protection will be worn by all personnel within the restricted zone when noise levels reach 85 decibels. the SHSO will decide when hearing protection will be worn.

Traffic

When a work zone encroached upon public streets, the possibility of an individual being

injured or struck by vehicular traffic must be considered. Therefore, personnel must always be alert when moving vehicles are near the work zone. Barricades and other devices must be used to warn and divert traffic. All personnel will wear personal protective clothing (safety vest and lights, if needed).

4.0 RISK ASSESSMENT SUMMARY

Using any available analytical data for the site, along with published data on the suspected contaminants and consideration of all possible exposure routes, provide a summary of the potential risks to site workers and the nearby community during the project. This information may not be available during early stages of the project. However, this section must be updated as data becomes available.

Potential risk to site activity personnel and surrounding populations is low from hazards associated with the project. The rating of low is relatively low risk in a scale ranging as low, moderate, and high.

However, volatile organic compounds are periodically monitored. If airborne VOCs are greater than 30 ppm above background level, further operations will be interrupted. Further operations will be conducted only after personnel protection equipment (Level "C") is implemented as discussed in hazard section.

Dust Mitigation Measures During Excavation and Handling of VOC-Contaminated Soil

The two mitigation measures, which will be described in this section, are applicable in two cases relating to our field activities:

- 1. The excavation and or handling of VOC-contaminated soil (for cases where the tanks have long been removed, as and example).
- 2. The excavation and/or handling of soil emitting dust

In both activities, our approach will assume the existence of VOC-contaminated and or dust emitting soil. The presence of VOC-contaminated soil is bases on information reported by our technicians and representatives, and/or documents received from the site owner or previous contractor. The soil treatment is an integrated part of the excavation, either by stockpiling for treatment at a later date, or by preparing the treatment unit for immediate after-excavation procedure.

This section deals with the mitigation measures that will be taken during the excavation stage for the purpose of soil remediation, as the most reasonable ecologically sound effective method for the proper disposal as the situation dictates. Extra precaution measures will be taken to prevent the emissions of VOC or dust. To facilitate the excavation, all exposed and any newly exposed surfaces will be monitored with an OVA meter at two inches above the surface to insure proper safety controls and procedures are followed. A log will be recorded at fifteen minute intervals for all data collected including overall OVA readings. Benzene reading, outside temperature, and wind direction readings.

The approach in this phase is to suppress the VOC's and/or dust at the emitting surface and form a blanket over the soil surface which employs the spraying of water on the soil with a water hose, which will aid in the reduction of VOC and dust emissions. This approach can be applied for local hot spots as well as large areas of dusty or VOC-contaminated soil.

An alternative AQMD approved method of spraying a diluted solution of hydrogen peroxide (1 to 2%) over the area will also reduce the VOC emissions at the surface. Hydrogen peroxide will form a very thin blanket over the contaminated soil surface, thereby suppressing the VOC at the exposed soil surface and converting it to carbon dioxide and water. By applying this solution sparingly, the chemical reaction at the soil surface will not create a significant increase of health hazards or, in the OVA reading while the process is decreasing the VOC emissions into the atmosphere.

5.0 AIR MONITORING PLAN

5.1 Action Levels and implementation of air monitoring. The following table summarizes the chemical exposure limits of known chemicals present at the site.

EXPOSURE LIMITS

CHEMICAL	PEL	TLV	STEL
AREA 1			,
Benzene	1	1.01	25
Toluene	100	100	150
Ethylbenzene	100	100	125
Xylene	100	100	150
Gasoline Gas Condensate		300	500

--- not listed

PELs are permissible exposure limits established by Cal-OSHA

TLVs are exposure guidelines associated with occupational exposures to various compounds for 8-hour work day/40-hour work week situations, as adopted by the American Conference of Governmental Industrial Hygienists (ACGIH, 1985).

STELs are the concentration to which workers can be exposed continuously for a short period of time (15 minutes) without suffering from irritation, chronic or irreversible tissue damage or narcosis of sufficient degree to increase the likelihood of accidental injury, impair self-rescue or materially reduce efficiency provided that the daily TLV is not exceeded.

6.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

6.1 Rational for selection of PPE

Rationale should be based on available analytical data for, and familiarity with, the capabilities of the suggested PPE. The selection of PPE should be made by persons experienced in industrial hygiene.

Due to trauma from accidents related to remediation, toxic affects from direct contact of contaminated soil, and ignitability of hazardous materials at the site, following PPE are selected.

6.2 Equipment Site-Specific Health and Safety Requirements

Personnel Protection

During intrusive operation of investigative work (soil sampling, trenching, excavating and soil treatment) personnel within the work zone must wear boots and a hard hat. Uncoated coveralls are recommended during intrusive operations, however, are required when obviously contaminated soil is encountered and/or dusty conditions prevail. Coated coveralls are required when conditions are wet. Latex or neoprene gloves will be worn during sampling and handling of potentially contaminated materials. Eye protection will be used in dusty conditions. An orange safety vest must be worn around large earthmoving equipment such as scrapers and loaders. Ear protection must be worn when noise levels are above 85 decibels. The SHSO will monitor the work area with an OVA. If readings

exceed the action level for respirators, half-face or full-face respirators equipped with organic vapor cartridges must be worn if work continues. If readings exceed the action level for evacuation, the area must be evacuated until the vapor levels dissipate and Business Unit Health and Safety Officer notified.

Action Level for Respirators

30 ppm/workplace VOC

Action Level for Evacuation

300 ppm/workplace VOC

Be specific (i.e., hard hat, impact resistant goggles, fully encapsulating tyvek suit, inner latex gloves, outer nitrile gloves, neoprene boots with steel toe, etc.). PPE should be specified for each job classification on-site.

Level of Protection A () B () C () D (X) and provision to go to "C" when required.

Respiratory Protection: SCBA () Airline () Air Purifying (X) Dust Mask ()

If Air-Purifying: Canister () Cartridge (X) Half Face (X) Full Face ()

Canister/Cartridge Type: Acid gas/organic vapor/HEPA changed daily or more frequently as needed.

Protective Clothing:

Suit Type: Chemically resistant coveralls (Tyvek, Polyethylene coated)

Boot Type: Chemically resistent

Glove Type (s): Chemically resistant (rubber gloves)

Head Protection Type: Hard Hat

Eye Protection Type: Goggles

Hearing Protection: Ear plugs (if necessary)

Action levels for upgrade and downgrade of respiratory protection/PPE.

Levels

Action Taken

> 30 overall VOC

Go to level "C" PPE (Tyvek and air purifying equipment)

or 1 ppm benzene VOC

Rational for upgrade/downgrade matrix (rationale should be based on published data for contaminates of concern and should be prepared by persons familiar with PPE).

Gas/Diesel fuel contaminated soils are expected. The time weighted average (TWA) exposure limit for kerosene constituent such as benzene is 10 ppm per American Conference of Governmental Industrial Hygienists. In the even that benzene concentration of less than 1 ppm in the air is detected, an overall 30 ppm action level will be used. An action limit of 1 ppm benzene workplace VOC will also be employed. At this time respirators will be donned.

7.0 WORK ZONES AND SECURITY MEASURES

Trenching and Excavation

Soil affected with petroleum-related compounds are expected. CalTec personnel will supervise the soil remediation activities and collect soil samples. The primary hazards associated with trenching and excavation are listed below. The SHSO will assess the hazards in the work zone and implement appropriate procedures before work commences. When excavation activities are performed, the following procedures are implemented:

The following general work zone security guidelines should be implemented:

- Work area shall be closed when work activities not actually taking place.
- Visitors will not enter the work zone unless they have attended a project safety briefing.
- Visitors who do not have business related to the project will be excluded from the site.

List the requirement for moving between different zones and general site security measures, equipment and responsible personnel (i.e., persons will not leave the work zone without first passing through the decontamination zone).

Step 1: Decontamination of earth moving tools/prior to field activities with high pressure hot water.

Step 2: Decontamination of sampling devices before, during, and after acquisition of each soil sample with DSO or TSP/Distilled water triple rinse/wash.

Step3: Decontaminate rubber boots, gloves, respirators (if used) at the end of each shift and prior to leaving the site with DSO or TSP/Distilled water triple rinse/wash. All disposable materials (i.e., tyvek gloves, etc.) will be placed in plastic bag and remain on site pending proper disposition.

8.0 DECONTAMINATION PROCEDURES

List the procedures and specific steps to be taken to decontaminated equipment and PPE. A flow chart diagram may be utilized to show a step-wise decontamination line.

At the end of each field activity, sampling equipment, earth moving equipment and PPE will be decontaminated. Decontamination will include steam cleaning for remediation equipment and triple rinsing of sampling equipment and PPE.

Decontamination Line:

Cleaning will be conducted on site according to set procedures:

PPE decontamination will include:

Rinsing in Soap Water & Rinsing in Tap Water.

The equipment which will be used in the decontamination procedure includes steam cleaner with trough, 5-gallon plastic buckets, bristle brushes, putty knife and amended water.

9.0 GENERAL SAFE WORK PRACTICES

Attach any available Standard Operating Procedures for activities that can be standardized due to their repetitive nature (i.e., instrument calibration, don and doff of PPE, etc.)

CalTec is responsible for the safety of all CalTec employees on-site. Each Contractor shall provide all the equipment necessary to meet safe operating practices and procedures for their personnel on-site (this includes respirators, cartridges, steel toed boots, eye protection, tyvek suits, hearing protectors, and neoprene latex, and viton gloves) and be

responsible for the safety of their workers. All general safety guidelines and procedures will conform to:

- * 29 CFR 1910.120
- * Standard Operating Safety Guides (U.S.E.P.A., Nov. 1984)

CalTec will update versions of these safety guidelines and procedures when changes in the Operations plan occur.

CalTec will utilize a "three warning" system to enforce compliance with Health and Safety procedures as follows:

- First infraction -0 violator receives a verbal warning.
- Second infraction of same rule violator receives a written warning.
- Third infraction of same rule violator will be requested to leave the site.

The "three warning" system applies to the following safe work practices which will be implemented at the site for worker safety:

- * Eating, drinking, chewing gum or tobacco, and smoking will be allowed only in designated areas.
- * Wash facilities will be utilized by workers in the work areas before eating, drinking, or use of the toilet facilities.
- * Containers will be labeled identifying them as waste, debris, or contaminated clothing.
- * All excavation/drilling work will comply with Title 8, Article G of the California Administrative Code.
- * Personnel at the site will use the "buddy system" when wearing any respiratory protective equipment. No one will be allowed to engage in remediation or sampling operations alone.
- * No facial hair which interferes with a satisfactory fit of the mask-to-face seal will be allowed (no beards, large mustaches, or long sideburns).
- * All respiratory protection selection, use, and maintenance will meet the requirements of

established procedures, recognized consensus standards (AINA, ANSI, MSHA and NIOSH), will comply in all respects to the requirements set forth in 29 CFR 1910.134

- * All site personnel will be required to wear hard hats, protective glasses and adequate hand protection when in the work zone.
- * Any other action which is determined to be unsafe by the Site Safety Officer.

10.0 EMERGENCY RESPONSE PLANS

Relevant Phone Numbers:

Richard Davis Project Manager

(707) 257-3564

Mark Kemp

On Site Manger

(707) 429-2220 Home

(707) 944-5256 Pager

(707) 486-8573 Car Phone

Fire, Police, Ambulance

911

U.S. EPA - ERT

(201) 321-6660

Chemtrec

(800) 424-9300

Centers for Disease Control

days (404) 329-3311

nights (404) 329-2888

National Response Center

(800) 424-8802

Superfund/RCRA Hotline

(800) 424-9346

TSCA Hotline

(800) 424-9065

National Pesticide Information Services

(800) 845-7633

Bureau of Alcohol, Tobacco, and Firearms

(800) 424-9555

The locations of the following emergency response equipment will be made available at the

site:

- Fire Extinguisher (s)
- First Aid Kit
- Telephone

Emergency Signals

The following communication signals will be utilized, if necessary, in case of emergency on-site.

Gesture

Meaning

Hand clutching throat

Hands on top of head

Thumbs up

Out of air/can't breathe

Need assistance

OK/I'm alright/ I understand

No/Negative

Grip partner's wrists

Informing partner to leave area immediately

Emergency Decontamination - In an emergency, the primary concern is to prevent the loss of life or severe injury to site personnel. If immediate medical treatment is required to save a life, decontamination should be delayed until the victim is stabilized. If decontamination can be performed without interfering with essential life-saving techniques or first aid, or if a worker has been contaminated with an extremely toxic or corrosive material that could cause severe injury or loss of life, decontamination must be performed immediately. If and emergency due to heat-related illness develops, protective clothing should be removed from the victim as soon as possible to reduce heat stress. All emergency decontamination procedures must be supervised by the Site Safety Officer and the Field Team Leader.

11.0 TRAINING REQUIREMENTS

Prior to mobilization at the job site, all contractors shall submit evidence that site workers have completed a 40-hour course in hazardous waste site operations training as specified in 29 CFR part 1910.120, along with a letter from a physician stating that they have received a physical examination within one year and are physically capable of working on hazardous sites and wearing respiratory protection devices.

Prior to involvement in any field program, all personnel will attend a safety briefing. The

briefing will include the nature of the wastes at the site, donning personnel protection equipment, decontamination procedures, respirator fit testing, and emergency procedures. Included in the initial briefing will be training which will provide an understanding of:

- Use of visual emergency signals
- * The limitations and capabilities of the equipment.
- * Proper use and maintenance of the selected PPE.
- * The nature of the hazards and the consequences of not using the PPE.
- * The human factor influencing PPE performance.
- * Inspection, donning, checking, fitting, and using the PPE.
- * Provide individualized respirator fit testing to ensure proper fit.
- * The user's responsibility for decontamination, cleaning, maintenance, and repair (if any) of PPE.
- * Emergency procedures and self-rescue in the event of PPE failure
- * The Site Safety Plan and the individual's responsibilities and duties in an emergency.

Daily, prior to commencement of operations, all personnel involved with the remedial investigations shall attend short "tailgate" safety briefing which will cover:

- * Expected conditions at the site.
- * Daily activities.
- * Safety deficiencies previously observed.
- * Any changes in the emergency procedure.

Record of Training -= Upon completion of the project safety briefing, all personnel will sign a statement indicating that they have read and understand that they agree to abide by this project Health and Safety Plan. A record of attendance will be kept for all safety briefings.

12.0 MEDICAL SURVEILLANCE PROGRAM

Prior to assignment to any task requiring a level of personnel protection above Level D, personnel will submit evidence that they have received a physical examination within the previous twelve months which incorporates the following:

- * An occupational and general physical history.
- * Complete physical examination which incorporates the head, torso, abdomen, limbs and musculo-skeletal system.
- * Chest X-ray.

- * Audiometic exam for persons working around drill rigs.
- * Laboratory testing of blood and urine to include the following: C.B.C., albumin phosphates, total bilirubin, SGOT, SGPT, cholesterol, total protein, albumin, globulin, A/G ratio, BUN, and creatinine.
- * Vision test.
- * Electrocardiogram

To aid in the prevention of heat stress, the following will be provided for personnel working at the site:

- Potable Water
- Potable water with 1 per cent or commercial mix (such as Gatorade) will be within easy access to all workers.
- * Work Schedules
- Work/rest regimens will be developed on recommendations by the Health * Safety Officer. The initial work schedule will consist of a 55-min. work regime followed by a 5-min. rest period. This work schedule will be modified as is necessary to conform with the heat stress monitoring criteria outlined below.

Personnel will be instructed to look for the following initial symptoms of heat stress:

- * Heat Exhaustion:
- Pale, clammy skin
- profuse perspiration
- tiredness, weakness
- headache, perhaps cramps
- nausea, dizziness (possible vomiting)
- possible fainting
- * Heat Cramps:
- cramping of muscles in legs and abdomen
- * Heat Stroke:
- high body temperature
- skin is characteristically hot, red, and dry (the sweating mechanism is blocked).

Heat stress monitoring will commence when the ambient temperature reaches 70 degrees

Fahrenheit if Tyvek or Saranek (Level C) garments are in use. Otherwise, heat stress monitoring will commence at an ambient temperature of 85 degrees Fahrenheit. The monitoring will consist of the following:

- * Heart rate (HR) will be measured by the radial pulse in the resting period. The heart rate at the beginning of the rest period should not exceed 110 beats per minute. If the HR is in excess of the above value the next work period will be shortened by 33% while the length of the rest period stays the same. If the pulse rate is in excess of 110 beats per minute at the beginning of the next rest period, the following work cycle will be further shortened by 33%.
- * Workers will be asked to report any dizziness, faintness, cramps, or other symptoms of heat stress as discussed above.
- * Workers will also be questioned about any history of asthma, or if currently taking asthma medications. Persons taking asthma medications are typically more susceptible to heat stress reactions.

First aid for heat stress will include the following:

- * Heat Stress
- Exposed person will be removed from the work zone and placed in a shaded area.
- Person will be required to rest in a recumbent position.
- Fluids will be administered (Gatorade).
- Workloads will be reduced to a level which will prevent heat stress symptoms from recurring.
- * Heat Cramps / Heat Exhaustion / Heat Stroke
- Same first aid procedure as described above except the exposed person will be requested to leave the site for the remainder of the day.
- Exposed person will be placed in a shaded area medical attention (Paramedics) will be sought immediately.

HEALTH AND SAFETY COMPLIANCE STATEMENT

The undersigned certify that they have received, read and understood the procedures and requirements contained in the Health and Site Safety Plan prepared for this project.

Further, the undersigned have received proper training under the Occupational Safety and Health Act (29 CFR, Part 1910.120) prior to conducting and activities at the site.

NAME / TITLE	SIGNATURE	DATE
<i>3</i>		
•		
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	. This time was says got hill like upon upon this likes and upon the says t	

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCI
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 510/271-4320

UNDERGROUND TANK CLOSURE PLAN * * * Complete according to attached instructions * * *

1	Business Name <u>EAST BAY MUNICIPAL</u> (TILITIES DISTI	eict (EBMUD)
. ·	Business Owner <u>EBMUD</u>		
2	Site Address 1200 2/st. STREET		
٠.	city OAKLAND	Zip <u>94607</u>	Phone <u>5/0.287-1279</u>
3.	Mailing Address 375 //th. STEEST	MAIL STOP	303
	city DAK LAND	zip <u>94607</u>	Phone 5/6-287-/129
4.	Land Owner EBMUD		
	Address 375//th. STREET, M.S. 303 Ci	ty, State <u>OAA</u>	econ, 69 zip 94667
5.	Generator name under which tank wi	ll be manifes	
	EAST BAY MUNICIPAL UTILITIES	DISTRUCT	
	EPA I.D. No. under which tank will	be manifeste	a <u>CACODO 921560</u>

- 1 -

6	Contractor CALTER ENVIRONMENTAL LNC.
٠.	1/00 LINCOLN AVE, -7/08
	City
	License Type* A- HAZ ID#
	*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board. Indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.
7.	Consultant CALTEC ENVIRONMENTAL INC.
	Address 100 CINCOLA AVE, # 108
	City NAPA Phone 707-257-3569
8.	Name MARK KEMP Title VICE PRESCRENT Phone 767-257-3569
۵	Number of tanks being closed under this plan2
Э.	Length of piping being removed under this plan
	Total number of tanks at facility
10	. State Registered Hazardous Waste Transporters/Facilities (see instructions).
	** Underground tanks are hazardous waste and must be handled ** as hazardous waste
	a) Product/Residual Sludge/Rinsate Transporter
	Name CACTEC ENVIRONMENT TNO. EPA I.D. No. CAD983612216 Hauler License No. 3143 License Exp. Date (1/31/94)
	Hauler License No. 3/43 License Exp. Date (1/3/194
	1100 LINCOLN HUE, # 108
	city
	b) Product/Residual Sludge/Rinsate Disposal Site Name <u>GIBSON ENVIRONMENTAC</u> EPA I.D. No. <u>CAD 043260702</u>
	city Renwood City State CA Zip 94063

c) Tank and Piping Transporter	
NaTIO CALTEC ENVIRONMENTAL, I	INC. EPA I.D. No. CAD 9836(2276
Hauler License No. 3/4/	License Exp. Date <u>/2/3//94</u>
Address 1/00 CINCOLN AUE,	#108
city NAIA	State (M) Zip 94558
d) Tank and Piping Disposal Site	
d) Tank and Figure 515 5500 Tank	EPA I.D. No. <u>CAD 009 466 392</u>
Address 255 Pakk BLVD.	State <u>CA</u> Zip <u>9480/</u>
City <u>KKHMONB</u>	Scace =
11. Experienced Sample Collector	
Name RICHARD CAMACHO	
Company GEMS	
8 (./1	4
city P. trssup6 state 6	(A Zip 94565 Phone (50/427-461)
12. Laboratory	
Name Mc CAMPBELL ANALYTICA	ν # D7
Address 1100 2ND AVE. South	State <u>(4</u> Zip <u>94553</u>
city PACHECO	
State Certification No/6	44
13. Have tanks or pipes leaked in th	e past? Yes [] No []
If yes, describe. <u>unknown</u>	

14. Describe methods to be used for rendering tank inert

RESIDUAL PRODUCT WILL BE BEMOVED WITH A SACUM TRUCK
AND TANK WILL BE INERTED WITH DRY ICE,

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

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

Tank		Material to be sampled	Location and	
Capacity	Use History (see instructions)	(tank contents, soil, ground-water, etc.)	Depth of Samples	
1-2,000 GAL	FUEL	SOIL	TANK & NATTUE SON INTERFACE	
1- 2,000 GAL 500 1- 1,000 GAL	WASTE OIL	Soil	MICKIACE	
		1	I SAMPLE FOR EVERY 20 FEET OF PHING	
			·	
		·		
	•			

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

	Excavated/Stockpiled Soil
Stockpiled Soil	Sampling Plan
Volume (Estimated)	AS REGULED BY THE DISPOSEN PO BE MACILITY - ALL OVERBURDEN TO BE OFF NAVLED

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

	<u>-</u> -		,
Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
TPH-6 TPH-B TPH-B TPH-B TPH-B TPH-B	5030	GCRID GCRID GCRID 800/8240 55 20 80/0 6270 AA	

17. Submit Site Health and Safety Plan (See Instructions)

18.	Submit Worker's Compensation Certificate copy
	Name of Insurer State Fund
	Submit Plot Plan (See Instructions)
20.	Enclose Deposit (See Instructions)
21.	Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)
22.	Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.
inf	eclare that to the best of my knowledge and belief the statements and ormation provided above are correct and true.
I u nee Env	understand that information in addition to that provided above may be eded in order to obtain an approval from the Department of vironmental Health and that no work is to begin on this project untiles to be approved.
+ n	understand that any changes in design, materials or equipment will void is plan if prior approval is not obtained.
Adi und the	inderstand that all work performed during this project will be done in mpliance with all applicable OSHA (Occupational Safety and Health ministration) requirements concerning personnel health and safety. I derstand that site and worker safety are solely the responsibility of e property owner or his agent and that this responsibility is not ared nor assumed by the County of Alameda.
On	ce I have received my stamped, accepted closure plan, I will contact e project Hazardous Materials Specialist at least three working days in vance of site work to schedule the required inspections.
si	gnature of Contractor
	Name (please type) MARK KEMP
	Signature Mankfung
	Date
S	ignature of Site Owner or Operator
	Name (please type) KARL MAYO
	Signature Lul May
	Date

INSTRUCTIONS

General Instructions

- * Three (3) copies of this plan plus attachments and deposit must be submitted to this Department.
- * Any cutting into tanks requires local fire department approval.
- * One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.

Item Specific Instructions

- 2. <u>SITE ADDRESS</u>
 Address at which closure is taking place.
- 5. <u>EPA I.D. NO. under which the tanks will be manifested</u>
 EPA I.D. numbers may be obtained from the State Department of
 Health Services, 916/324-1781.
- 6. <u>CONTRACTOR</u>
 Prime contractor for the project.
- 10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES
 - a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
 - c) Tanks must be hauled as hazardous waste.
 - d) This is the place where tanks will be taken for cleaning.
- 15. TANK HISTORY AND SAMPLING INFORMATION

 Use History This information is essential and must be accurate.

 Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the high water mark, etc.

16. CHEMICAL METHODS AND ASSOCIATED DETECTION LIMITS See attached Table 2.

17. SITE HEALTH AND SAFETY PLAN A site specific Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety officer;
- b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;
- c) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;
- d) For each hazard, identify the action levels (contaminant concentrations in air) or physical conditions which will trigger changes in work habits to ensure workers are not exposed to unsafe chemical levels or physical conditions;
- e) Description of the work habit changes triggered by the above action levels or physical conditions;
- f) Frequency and types of air and personnel monitoring along with the environmental sampling techniques and instrumentation - to be used to detect the above action levels. Include instrumentation maintenance and calibration methods and frequencies;
- g) Confined space entry procedures (if applicable);
- h) Decontamination procedures;
- i) Measures to be taken to secure the site, excavation and stockpiled soil during and after work hours (e.g. barricades, caution tape, fencing, trench plates, plastic sheeting, security guards, etc.);
- j) Spill containment/emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital nearest the site;
- K) Documentation that all site workers have received the appropriate OSHA approved trainings and participate in appropriate medical surveillance per 29 CFR 1910.120; and
- Page for employees to sign indicating they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

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NOTE: These requirements are excerpts from 29 CFR Part 1910.120(b)(4), Hardous Waste Operations and Pergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19. PLOT PLAN

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

- a) Scale;
- b) North Arrow;
- c) Property Lines;
- d) Location of all Structures;
- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;
- g) Underground conduits, sewers, water lines, utilities;
- h) Existing wells (drinking, monitoring, etc.);
- i) Depth to ground water; and
- j) All existing tanks and piping in addition to the ones being pulled.
- 20. DEPOSIT
- A deposit, payable to Alameda County for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.
- 21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from our office and from the San Francisco Bay Regional Water Quality Control Board (415/464-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.
- 22. TANK CLOSURE REPORT

The tank closure report should contain the following information:

- a) General description of the closure activities;
- b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

- c) Description of the excavation itself. Include the tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential contaminant pathways, the depth to any observed ground water, descriptions and locations of stained or odor-bearing soil, and descriptions of any observed free product or sheen;
- d) Description of sampling methods;
- e) Description of any remedial measures conducted at the time of tank removal;
- f) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations. Include a copy of the plot plan prepared for the Tank Closure Plan under item 19;
- g) Chain of custody records;
- h) Copies of signed laboratory reports;
- i) Copies of "TSDF to Generator" Manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.); and
- j) Tabulation of the volume and final destination of all nonmanifested contaminated soil hauled offsite.

TABLE #2 RECOMMENDED MINIMUM VERIFICATION ANALYS FOR UNDERGROUND TANK LEAKS

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

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

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

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

- OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.
- 2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
- 3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
- 4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.
- 5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractible, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydro- carbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
- 6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).
- 7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).
- 8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.
- 9. PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:

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

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

ROUTINE		MODIFIED	PROTOCOL
<pre>≤ 10 ppm ≤ 5 ppm ≤ 1 ppm</pre>	(19%)	<pre>≤ 10 ppm ≤ 5 ppm ≤ 1 ppm</pre>	(21%)

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

- 10. LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- 11. IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

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

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

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.



MICHAEL J. WALLIS

t alas diam person money

FAX TRANSMITTAL SHEET

This transmittal consists of pages including cover page.
DATE: 11/13
ro: Julist Min
slanda County Health.
FAX#: (510) 337-9335
TEL #:
FROM: Ellen Fanell:
TEL#: 5/0 287-166/
COMMENTS: Déhedule expolate - re end el
phase 1 is rear!
·

[] Original to follow.

If you have any trouble receiving the above specified pages, please contact the facsimile operator at (510) 287-1861. (Wastewater Dept. Fax # (510) 287-1530).

P.O. BOX 24056 . DAKLAND . CA 84823-1055 . 4810) 287-1486 BOARD OF DIRECTORS JOHN A. COLEMAN . KATY FOULKES . JOHN M. GIDIA FRANK MELLON . NANCY J. NADEL . MARTY SELKIRK . KENNETH H. SIMMONS

MOCTE 92 PART

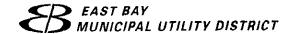
13:27

SCHEDULE OF PHASE 1 SITE REMEDIAL ACTIVITIES EAST BAY MUNICIPAL UTILITY DISTRICT ALAMEDA AND CONTRA COSTA COUNTIES

Personal Constitution	福祉县	st Vol.	Act. Vol.		Scheduled		Actual	Actual Duration	Mothod	Comments
Site	Co.	(yd)	(Vd)	Waste Chateffication		Duration	10/2/95	6	puzzlei	Evaluating confirmation soil results
rkey Reservoir	CC	120	45	RCRA and Cal-Haz	10/2/95	5	10/2/53	U	•	Received neighbor complaint on noise
a vol. Meson on							10/11/95		auzz et	Evaluating potential offsite migration of SBM
rizzby Reservoir	CĊ	200	120+	RCRAICEI-Haz/TSCA	10/9/95	B	10/16/95	3	quezier	Geotechnical survey completed (per ROE)
enss Hill Reservoir	CC	15	17	Cal-Haz	10/16/95	3	10110133	•	5	Fualuating confirmation soil results
()										CCC Health observed confirmation sampling
							10/23/95	2	OLDZ St	Evaluating confirmation soil results
heem Reservolr	CC	10	10	Cal-Haz	10/19/95	22	10/24/95	2	HT frage	Analytical confirmation soil results pending
insel Reservoir	CC	5	15	Cel-Haz	10/30/95	2	11/8/85	1	DUZZBE	Analytical confirmation soil results pending
leppy Valley Reservor	CC	2	8	TSCA	11/1/95		10/9/95	6	quzzier	Vacuum equipment broke down causing datays
habot Filler Plant	A	25	50	Cal-Hez	10/9/95	3	10(3/33	G	anerio.	Some landscaping was removed (juniper hedge)
MINDLE HINE & HOW										Recieved neighbor complaint on noise
										Evaluating confirmation soil results
							A Transfer	4	guzzter	
Serby Reservoir	CC	10	50	Non-Haz	10/12/95	3	10/17/95	4	Autrici	Evaluating confirmation soil results
Detay Keseracit							soine in E	2	guzziet	Evaluating confirmation soil results
Cult Canyon Reservoir	A	20	20	Cei-Hez	10/18/95	3	10/23/95	3	District	11 11
roctor No.2 Reservoi	A	10	28	Cal-Hez	10/24/85	3	10/25/95	3	Herrica	Neighbors fence damaged by subcontractor -
-Indiat 143 % Marci 408	•-									currently under repair
								1	ouzzier	
Hewthome Reservoir	CC	2	1.6	Non-Haz	10/9/95		10/10/95	2	QUZZJ-91	
Atamo Reservoir	CC	2		Non-Haz	10/10/95	1	10/10/95		Grazziei Grazziei	The state of the state of the second of the
Grayson Reservor	CC	7	25+	Cell Haz/TSCA	10/11/95	2	10/11/95		Burrio.	Recieved neighbor call regarding site closure
Citivani versions										Recieved neighbor call regarding plant debris
								2	guzzier	
Polrero Reservo	CC	10	20	Csi-Haz	10/16/95	3	10/16/95	$\frac{2}{2}$	muzzie)	- 11 1 1 M-
Selby Reservolr	CC	4	6	Cal Haz/TSCA	10/19/95	1	10/18/95		guzzie	
Sky Tenade Reservoir	CC	3	····	Potentially Non-Haz	10/24/95	1	11/1/95		guzzie	ngibros eliment and an armine
Walnut Creek Raw Water Bypass	CC	3	25	C8l-Hez/TSCA	10/23/95	1	10/23/95	1 2	QUIZZIE	
	CC	10	10	Cal-Haz	10/25/9 5	2	10/24/95	2	Gorsie	Recieved neighbor call regarding debrishvater hose
Towksbury Reservalr	-	,-							gruzzje	مراقع المصلح المسالي ا
	A		5	Cell Haz/TSCA	10/30/95	1	11/2/95			The second distance of
Forestland Reservoir	CC	20	30	Potentially RCRA	10/31/95	3	10/30/95	•	guzzle	Some damage to asphalt and value box by contractor
Peeri Reservoir	-		• • •	-					14.5	Evaluating confirmation soil results
	CC	12	16	Cel-Haz	10/17/85	2	10/19/95	2	H.T.	Evandating communication services.
Birch Reservoir	CC	2		Cal-Haz	10/23/95	1	11/9/95		H.T.	Analytical confirmation soil results panding
Pleasant Hill Reservor	CC.	1		Polentially RCRA	10/24/95	1	11/5/95	2	H.T.	Analytical confirmation soil results pending
Amador Reservoir	- 60	- 5	4	Non-Haz	10/25/95	2	10/23/95		H.T.	
Hortin Reservoir	- ()	3	9	Cel Haz/TSCA	10/30/95	1	10/31/95	2	H.T.	Contractor Inappropriately cut lock-Repairs made
Carisbrook Reservoir	A	•	•	==:- 						
		25		Cal-Haz	10/31/95	2	11/3/95		H.T.	The second is a
Shawn Reservoir	CC	_ 	3	Polentially RCRA	11/2/95	1	11/6/95	11	н.т.	Analytical confirmation son termina periodity
Woods Reservold	A			,					_	

- 1. The scheduled dutation assumes craws work four day weeks, with the fifth day reserved for coordination/mobilization activities
- 2. Guzzler refers to a mechanical vacuum; H.T. refers to hand tools and small mechanical loaders
- 3. Volumes shown are estimated. Actual volumes/weights will be measured at the point of disposal
- 4. Waste classifications shown as potential will be confirmed based on the results of characterization sampling conducted after removal of the SBM





November 29, 1994

Office of Emergency Services Hazardous Materials Division 2800 Meadowview Rd. Sacramento, CA 95832 HAZZAAT

To Whom It May Concern:

RE: Notification Control No. 005258, 1200 21st Street, Oakkand

On November 17, 1994, a 6,000 gallon single-walled fiberglass underground storage tank was removed from the East Bay Municipal Utility District's Oakland Corporation Yard. The tank cracked and spilled a mixture of water and gasoline to the storm drain. Based on a review of the amount of gasoline removed from the tank before the tank was excavated, District staff estimates at the most five gallons of gasoline and 300 gallons of water went down the storm drain. A description of the activities is outlined below.

Address:

1200 21st Street, Oakland

Date/Time:

November 17, 1994 at approximately 11:50 a.m.

to 12:00 p.m.

Material:

Mixture of water/gasoline

Quantity:

300 gallons, of which approximately 5 gallons

were gasoline

Source:

An underground storage tank that cracked upon

removal

Receiving Waters/

Final Destination:

San Francisco Bay

Presumed Flow

Route:

Through the Storm Drain system

Cause:

An underground storage tank was removed and cracked once it was set on the pavement. Water containing a small amount of gasoline present in the tank discharged to the storm

drain in the parking lot.

Corrective Action Taken:

A vacuum truck pumped out the catch basin and approximately 40 to 50 feet downstream. The next downstream catch basin (approximately

bcc: R. Sykes, Regulatory Compliance Officer
A. Coate, Acting Environmental Compliance Manager

B. Lepore, Occupational Health and Safety Administrator
J. Bertorello, Manager of Plant and Equipment Maintenance
D. Tsztoo, Senior Civil Engineer, Special Projects Division

K. Mayo, Special Projects Division

CalTec

(707) 257-3564, THANK YOU.

1100 Lincoln Ave., Ste. #108 * Napa, Galifornia 94658 * 707-257-3564 * FAX 707-226-1318 * 800-273-9992

FAX COVER SHEET	
DATE 11-15-94	
TOTAL PAGES (INCLUDING COVERSHEET)	
TO JENNIFER EBERLY	
FAX NUMBER	
FROM MARK KEMP	
REGARDING	
RESPONSE REQUIRED YES NO HARD COPY TO FOLLOW YES NO COMMENTS	
IF YOU DO NOT RECEIVE ALL PAGES PLEASE CONTACT US	IMMEDIATELY AT



1100 Lincoln Ave., Ste. #108 • Napa, California 94558 • 707-257-3564 • FAX 707-228-1319 • 800-273-9992

November 15, 1994

TO: ALL SUBCONTRACTORS

TANK REMOVAL FOR EBMUD RE:

1200 21ST. STREET OAKLAND, CALIFORNIA

THIS IS TO ADVISE YOU THAT WE HAVE RESCHEDULED THE REMOVAL OF THE ABOVE REFERENCED TANKS TO THURSDAY, NOVEMBER 17, 1994.

MARK KEMP

Underground Tank Closure Report							
Contractor: CalTec Environmental 1100 Lincoln Ave. # 108 Napa Ca. 94558 800-273-9992 Fax 707-226-1319 Contact: Mark Kemp/Linda Broadfoot	Job: Address: City/Zip: Contact: Phone/Fax:						
Description of tank(s), size, cont	tents, age, holes,	corrosion, etc.:					
Description of piping, fittings, connections:							
Description of excavation depth, a types of soil encountered, stains level and free product or sheen:	root holes & contam or odor-bearing so	ination pathways, il, groundwater					
Description of sampling methods:							
Description of remedial methods for	or any contaminated	l soils:					
Written by:	Title:	Date:					



May 14, 1993

Ms. Jennifer Eberle Hazardous Materials Specialist Alameda County Health Care Services 80 Swan Way, Room 200 Oakland, CA 94621

CERTIFIED MAIL --RETURN RECEIPT REQUESTED

Dear Ms. Eberle:

Re: EBMUD Site: 2130 Adeline Street

Oakland, CA 94607 (STID 3726)

Company of the

This letter responds to your correspondence dated March 31, 1993 (Attachment 1) wherein you requested additional information on the status of 3 District underground storage tanks (USTs) located in the vicinity of 2130 Adeline Street in Oakland. The Alameda County Health Care Services (County) has previously referred to this site as the Linden Street site. These 3 USTs were removed in June 1987.

In the March 31 letter, you requested the District to:

- A) Indicate what the 20-gallon tank was used for,
- B) Submit 1 map showing the locations of all 3 USTs and the sampling locations, and
- C) Summarize the status of subsurface investigation at the site.

The response to A) and B) is as follows. The 20-gallon tank was used to store diesel fuel for an emergency generator. The size, content, and location of all 3 USTs is provided in Attachment 2-Figure 1. Available analytical data, collected during tank removal and subsequent remediation activities, is provided in Attachment 2-Table 1.

The response to C) is as follows. Since April 1988, the District has undertaken no additional subsurface investigation activities at the site for 2 reasons. First, in an August 2, 1988 letter (Attachment 3), the County clearly agreed that the District had remedied existing soil contamination at the site. Second, the County did not respond to an August 24, 1988 request (Attachment 4) for a description and citations of the County's legal authority that specifies the monitoring well requirement.

Ms. Jennifer Eberle May 14, 1993 Page 2

Please note that the regulatory/guidance documents related to UST removal referenced in your March 31, 1993 letter were all published 2 or more years after the District removed the USTs and requested the County's legal authority.

The District believes that it has complied with the intent of UST guidelines, and that the UST sites located at 2130 Adeline Street were clean in April 1988. The District requests that the County's requirement to install groundwater monitoring wells at the site be waived for the following reasons:

- o The District proactively investigated the USTs at the site after acquisition of adjacent property.
- o The District expended considerable funds (>\$100,000) and complied with available guidance documents, to remove the 3 USTs and clean-up all identified contamination.
- o The District representatives, accompanied by a County Hazardous Materials Specialist, directed the over-excavation of contaminated soils at the 2 UST sites. The success of the over-excavation was confirmed with analytical data.
- o Available geotechnical data, confirmed by visual observations made by District staff in the presence of County staff, indicate that the soil beneath the site is principally silty clay. This low permeability soil would have impeded any migration prior to excavation.
- o The site is located in a heavily industrialized area.
- o Finally, the District does not intend to sell the property where the USTs were located.

The District supports your efforts to clean up soil and groundwater contamination in Alameda County. However, the District is concerned about the retroactive application of guidelines and regulations, particularly in light of current severe budget cutbacks. Further expenditure of public funds on this site will need to be clearly justified.

If, after review of site-specific information, the County will still require the District to install groundwater monitoring wells at the site, then the District requests confirmation of the need for future work, including legal requirement for groundwater monitoring wells at the site during 1987 (tank removal) and 1988 (soil remediation).

Ms. Jennifer Eberle May 14, 1993 Page 3

Upon receipt of your confirmation of the 1987 and 1988 legal requirements to install monitoring wells at the site, the District will provide you with a plan and schedule for future investigative/assessment activities at the site.

Sincerely,

Manager of Source control

JGD:ARC:jrm

Lester Fieldman/RWQCB

Rich Hiett/RWQCB

Attachments

AQ3.127_073

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY

188 - 6 1993

RECEIVED

SOURCE CONTROL DIVISION HAFAT A SHAHID, ASST. AGENCY DIRECTOR

DAVID J. KEARS, Agency Director

March 31, 1993

STID 3726

Joseph Damas EBMUD PO Box 24055 Oakland CA 94623-1055 DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

RE:

EBMUD site

2130 Adeline st. Oakland CA 94607

Dear Mr. Damas,

As you may recall, three underground storage tanks (USTs) were removed from the above-referenced site in June 1987. The USTs included a 20-gallon diesel tank, a 500-gallon tank, and a 10,000-gallon tank. (Our records do not indicate what the contents of latter two tanks were.) A) Please indicate what the 20-gallon diesel tank was used for.

Soil sampling conducted in conjunction with tank removal indicated the presence of up to 460 ppm Total Volatile Hydrocarbons (TVH) and 15 ppm benzene. It appears that these levels were associated with the 20-gallon "diesel" tank. In addition, up to 170 ppm TVH and 3.6 ppm benzene was found during another tank removal. It is unclear which tank these levels were associated with. B) Please submit one map showing the locations of all three USTs and the sampling locations.

A proposal for an investigation to determine the possible impacts to groundwater was requested by this office by letters dated 2/18/88 and 8/2/88. Walter Bishop of your agency responded by letter dated 8/24/88, indicating that contractor's bids were being obtained for the installation of a groundwater monitoring well.

Please respond within 45 days or by May 15, 1993 as to the status of the subsurface investigation, including the above-mentioned items A) and B), at this site/these sites. Were groundwater monitoring wells ever installed? Have they been monitored? If not, please submit a proposal for a groundwater investigation within 60 days or by May 31, 1993.

All work should adhere to a) the Tri-Regional Board Staff
Recommendations for Preliminary Evaluation and Investigation of
Underground Tank Sites, dated 8/10/90; b) the State WAter
Resources Control Board LUFT Field Manual; and c) Article 11 of
Title 23, California Code of Regulations. Reports and proposals
must be submitted under seal of a California-Registered
Geologist, -Certified Engineering Geologist, or -Registered Civil

Joseph Damas STID 3726 March 31, 1993 page 2 of 2

Engineer. All reports and documents pertaining to this investigation should also be sent to:

Rich Hiett
San Francisco Bay Region
Regional Water Quality Control Board
2101 Webster St., Ste 500
Oakland CA 94612

If you have any questions, please contact me at 510-271-4530.

Sincerely,

Jenhifer Eberle

Hazardous Materials Specialist

cc: Rich Hiett, RWQCB Ed Howell/file

jе

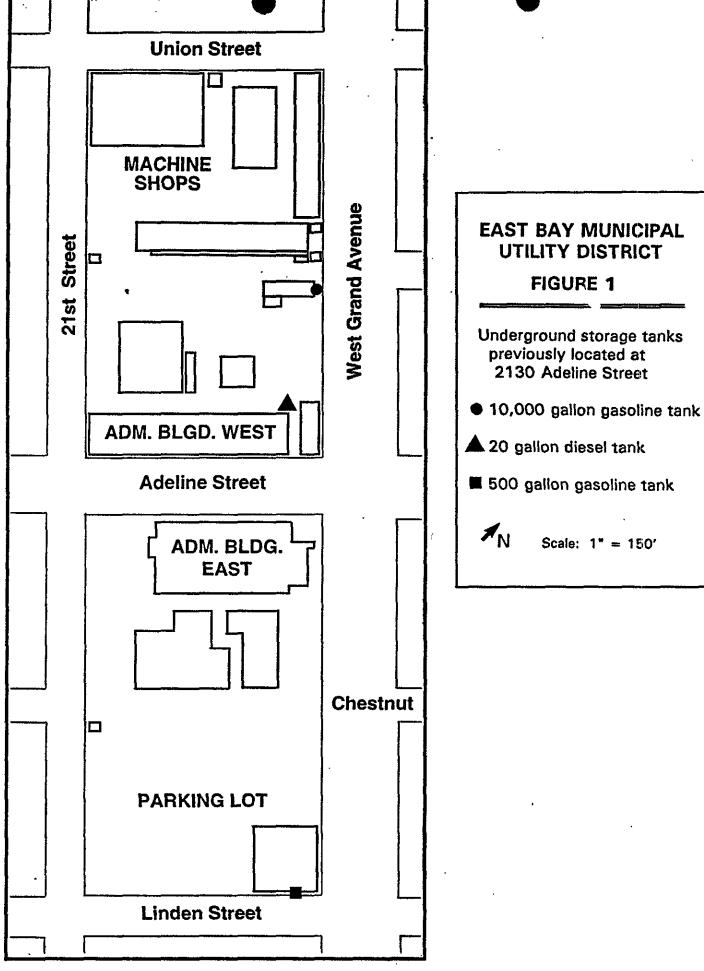


TABLE 1 EBMUD ADELINE UNDERGROUND STORAGE TANK DATA

UNDERGROUND STORAGE TANK					SOIL SAMPLING			
TANK NAME/LOCATION	SIZE (gal)	TYPE	REMOVAL DATE	SAMPLING DATE	TVH \a (ppm)	TFH \b (ppm)	BENZENE (ppm)	SAMPLING LOCATION
ADMIN. BUILDING WEST: West Grand between Union and Adeline	10,000	Gasoline	6/30/87	7/7/87 7/7/87		<10 96	0.6 4.3	Tank excavation Tank excavation
WEST GRAND: Corner of West Grand and Adeline	20	Diesel	6/15/87	6/11/87 4/18/88	460	<10	15 <0.5	Tank excavation 2' below bottom of removed tank
LINDEN STREET: Corner of West Grand and Linden	500	Gasoline	6/15/87	6/15/87 6/15/87 7/7/87 4/25/88	<3 170	140 <10	<0.08 3.6 1.2	Tank excavation Tank excavation Tank excavation 12' deep re-excavated hole

\a Total Volatile Hydrocarbons \b Total Fuel Hydrocarbons

FILE: C:\123\ UST.WK3

05-May-93

Telephone Number: (415) 271-4320

August 2, 1988

RECEIVED AUG 5 1988

Past Bay Municipal Util. to District P. O. Box 24055 Oakland, CA 94623 Attn: Joseph Domas

SUBJECT: LINDEN STREET SITE, OAKLAND, CA 94607

Dear Mr. Domas:

We have reviewed the data developed for the subject site, including your letter dated July 7, 1988. We are satisfied that the existing soil contamination has been remedied. The data submitted reveals that there was either a tank leak or historic spillage at the subject tanks. Therefore, it will be necessary to ascertain whether the groundwater at this specific site has been affected. The groundwater is quite high in this area (about 15-25 feet). And, the solvents contained within the gasoline prism can be easily percolated. Sometimes this percolation cannot be detected by discrete soil sampling.

You are formally requested to (1) install a groundwater monitoring well in conformance with the Regional Board's guidelines including bore hole sampling, and (2) monitor the groundwater, from a properly developed well, for TPH (gasoline) and BTXE. The well should be installed within ten (10) feet and downgradient of the tank. Soil samples should be collected at five-foot intervals and at the groundwater interface.

Should you have any questions regarding this matter, please contact Mr. Storm Goranson, Hazardous Materials Specialist at 271-4320.

Sincerely,

Rafat A. Shahid, Chief

Hazardous Materials Division

RAS:SG:mam

EAST BAY MUNICIPAL UTILITY DISTRICT

August 24, 1988

Mr. Rafat Shahid, Chief Hazardous Materials Division Alameda County Health Care Services 80 Swan May, Suite 200 Oakland, A 94621

Dear Mr. Shahid:

Re: Linden Street Site, Oakland, CA 94607

The District has received your letter dated August 2, 1988, requiring that a groundwater monitoring well be installed at the Linden Street tank removal site.

The District is obtaining proposals from contractors to perform the well installation. The District requests, however, that the County provide a description, including citations, of the legal authority that specifies the well requirement.

If you have any questions on this request, please contact Joseph G. Damas at 465-3700, extension 120.

Sincerely,

Walter J' Bishop

WJB:BBH:dn SC8.322/118

DEPARTMENT OF ENVIRONMENTAL HEALTH Any changes or all creations of these piers and the follows:

Any changes or all creations of these piers and the follows:

Any changes or all creations of these piers and to the corrections of this Department to determine if such changes or all creations of the piers and to the corrections of the piers and to the corrections of the piers and to the corrections of the piers and to the piers and to the corrections of the piers and to the piers and to the corrections of the piers and to the piers and t HAZARDOUS MATERIALS DIVISIO ithese discontremental plans have been received and found to and Local Headth Lews Changes to your closure plans ind oned is dependant on compliance with accepted plans and ell ಎನ್ನ the accustern and essentially mest the recrirements of State By this Department are to essure compliance with Cortembal Cold ssuance of a) permit to operate, b) permanent cits visco Milanterna Conego Tark Chance Feans Application Control of the second of the s SOR ALTERNATION OF THE PROPERTY OF THE PROPERT 80 CE CEE 0 ECCEPTED (1012phonus (510) 2. 19323 ST FREN KLEY, SUITO HUB לגפיל בה ביבוט Donnect Speciensts paccole laws and regulations.

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1.	Business Name East Bay M	lunicipal	Utilities	District	(EBMUD)
	Business Owner <u>EBMUD</u>				
2.	Site Address (200	21st. St	reet		
	City Oakland		zip 94607	Phone 51	<u>6)287-1279</u>
з.	Mailing Address375 1	1th St.,	Mail Stop	303	
	City Oakland		Zip 94607	Phone _	10-287-1279
4.	Land OwnerEBMUD				` 04605
	Address 375 11th St. MS	<u>*ॐ⇒</u> cit	y, State	Oakland,	Zip
5.	Generator name under which East Bay Municipal Ut:	h tank wil	l be manife		
	EPA I.D. No. under which	tank will	be manifest	ed CAC000	921560

- 7 -

rev 3/92

_	Contractor	CalT Environmen	ntal Inc.		
ь.		AAAA Tingaln AWA	., #108		
	Address	Napa		Phone	707-257-3564
	City	A B Ung	TD#	540824	
		pe* A - Haz		war and a second	ectors to also hold
	been received, in add	1992, Business and Professional ification issued by the State Co dition, to holding the appropria	te contractors lice	nse type.	
7.	Consultant	CalTec Environme	ntal Inc.		
•		1100 Lincoln Ave	, #108		
		Napa	Phone	707-257-3	564
	CICY				
8.	Contact Pers	on for Investigatio	n		
	Name Mar	k Kemp	Title	Vice P	<u>resident</u>
		7-257-3564			
				2	
9.	. Number of ta	inks being closed ur	nder this pl	an	
	Length of pi	ping being removed	under this	plan	
	Total number	of tanks at facil:	ity2		
10	. State Regist	tered Hazardous Was s).	te Transport		
	** Undergro	und tanks are hazar as hazar	dous waste a dous waste	and must be ha	indled **
	a\ Product	/Residual Sludge/Ri	nsate Trans	porter	• .
	Name	CalTec Environmen	ntal Inc. E	PA I.D. No. CA	D983612276
	Hauler	License No. 3143	J Li	cense Exp. Da	te <u>12/31/94</u>
	ldana	s 1100 Lincoln Ave	#108		•
	Addres	Napa	Stat	e CA Zip	94558
	city _	rice b.c.		-	
	h) Product	:/Residual Sludge/Ri	insate Dispo	sal Site	
	Name	Gibson Environmen	tal E	CPA I.D. No	CAD043260702
	name_	ss 475 Sea Port			
	Addres Citv	Redwood City	Stat	e <u>CA</u> Zip	94063
	- -	 .			

c) Tank and Piping Wansporter	
Name CalTec Environmental 1	Inc. EPA I.D. No. CAD983612276
Hauler License No. 3143	License Exp. Date
Address 1100 Lincoln Ave.	, #108
City Napa	State <u>CA</u> Zip <u>94558</u>
d) Tank and Piping Disposal Site	
	EPA I.D. No. CAD009466392
Address255 Parr Blvd.	
city Richmond	State <u>CA</u> Zip <u>94801</u>
11. Experienced Sample Collector	
NameLee Ann Davis	
Company On Site Analytical	
Address 3534 Kimberly Road	
City <u>Cameron Park</u> State	<u>CA</u> Zip <u>95682</u> Phone <u>915-677-</u> 8648
12. Laboratory	
McCampbell Analytical	
Address 1100 2nd Ave., South	#D7
Address	State CA Zip 94553
State Certification No	
State Certification No	
13. Have tanks or pipes leaked in th	e past? Yes [] No []
If yes, describeunknown	

14. Describe methods to be used for rendering tank Tert
Waste fuel to be vacuum. Defume tank with dry ice.

15.16/1000 gal UST

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

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

Tar	nk	Material to be sampled	Location and
Capacity	Use History (see instructions)	(tank contents, soil, ground- water, etc.)	Depth of Samples
1-4,000 & 1-6,000	Fuel	soil soil	1 ft. under each end of tank
	unk date inst- (20+ yrs). per B forms		1 sample for ever 20 feet of piping
	·.		

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

	Excavated/Stockpiled Soil
Stockpiled Soil	Sampling Plan
Volume (Estimated)	1 par 20 yd 3 for reuse onon
none yet	2 samples shall be taken with test being BTXE, TPH, CAM 17 metals

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. Se attached Table 2.

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
TPH-G BTEX	3550 5030	GCFID 8020 or 8240	
1774-d	3550	GCPID	

17. Submit Site Health and Safety Plan (See Instructions)

- Listanta CONV
18. Submit Worker's Commensation Certificate copy
Name of Insurer State Fund
19. Submit Plot Plan (See Instructions)
20. Enclose Deposit (See Instructions)-
21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)
22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.
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 Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of understand that site and worker safety are solely the responsibility is not the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.
Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.
Signature of Contractor
Name (please type) Mark KEmp
signature Marky
Date10/19/94
of Site Owner or Operator
Kan, MAYA
Name (please type)

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signature

Date

rev 3/92