A·C·C
ENVIRONMENTAL
CONSULTANTS

May 17, 1994

Ms. Juliet Shin
Alameda County Health Care Services Agency
Division of Hazardous Materials - Department of Environmental Health
80 Swan Way, Room 350
Oakland, CA 94621

RE: Request for Site Closure Plan
Encinal High School
210 Central Avenue, Alameda, California

Dear Ms. Shin:

Enclosed please find the request for site closure report for "No Further Action" at Encinal High School, 210 Central Avenue, Alameda, California.

If you have any questions or comments regarding this report or any other comments regarding this project, please call me.

Sincerely,

Misty C. Kaltreider
Geologist

Encl.

cc. Mr. Eddie So - Regional Water Quality Control Board
Mr. Robert Deluca - Alameda Unified School District
Mr. Christopher Palmer

1000 Atlantic Avenue, Suite 110 • Alameda, CA 94501 • (510) 522-8188 • FAX: (510) 865-5731

A·C·C
ENVIRONMENTAL
CONSULTANTS

REQUEST FOR SITE CLOSURE

ENCINAL HIGH SCHOOL
210 CENTRAL AVENUE
ALAMEDA, CALIFORNIA

Prepared for:
Ms. Juliet Shin
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, CA 94621
2200 Central Avenue

May 1994

Prepared by:

Prepared by: _____
Misty Kaltreider
Project Geologist

Reviewed by: _____
Christopher M. Palmer, CEG #1262
Certified Engineering Geologist

REGISTERED GEOLOGIST
CHRISTOPHER M. PALMER
№ 1262
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

1000 Atlantic Avenue, Suite 110 • Alameda, CA 94501 • (510) 522-8188 • FAX: (510) 865-5731

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1.0 INTRODUCTION

On behalf of Alameda Unified School District, ACC Environmental Consultants, Inc., (ACC) presents this Request for Site Closure Plan to Alameda County Health Care Services Agency. This Plan documents the corrective actions completed at Encinal High School, 210 Central Avenue, Alameda, California (Figure 1) regarding removal of underground storage tank (UST) and groundwater investigation.

2.0 BACKGROUND

In April 1992, SEMCO of San Mateo, tank removal contractor, removed one 1,500-gallon capacity underground heating oil tank from Encinal High School yard. During removal, two soil and one grab groundwater samples were collected. Analysis of the soil samples indicated below detectable levels of Total Petroleum Hydrocarbons (TPH) as diesel, benzene, toluene, ethylbenzene, and total xylenes. Analysis of the grab water sample indicated 640 parts per billion (ppb) of TPH as diesel. The tank closure report is attached in Appendix A.

Per request of Alameda County Health Care Services Agency (ACHCSA). a Preliminary Site Assessment was conducted in June 1993.

In June 1993, three monitoring wells (MW-1, MW-2 and MW-3) were installed within 100 feet of the tank excavation. The Site Plan, Figure 2, illustrates the approximate well locations.

The soil cuttings and samples were logged by an ACC geologist during drilling operations. Lithologic logs of borings MW-1, MW-2, and MW-3 are attached in Appendix B. The soils are described in accordance with the Unified Soil Classification System, attached in Appendix A. Soil cuttings were stored in sealed 55-gallon drums and were labeled with a waste material sticker identifying the content, date obtained and the generator. The drumed soils were later used on-site as backfill material.

2.1 Monitoring Well Construction and Development

Monitoring wells MW-1, MW-2 and MW-3 were installed within the borings MW-1, MW-2 and MW-3, respectively, upon completion of drilling. Well construction details are attached in Appendix B. Monitoring Wells MW-1 and MW-3 were installed with well casings consisting of 2-inch I.D. Schedule 40 PVC with 12 feet of 0.020-inch factory slotted screen below 3 feet of solid casing. Monitoring well MW-2 was installed with well casing consisting of 10 feet of 2-inch I.D. Schedule 40 PVC with 10 feet of 0.02-inch factory slotted screen below 3 feet of solid casing.

All wells were installed with Lonestar #2/12 sand used as annular fill around the screen. The sand extended from the screen base to at least 1/2 foot above the top of the screen. One-half foot of 1/4-inch pelletized bentonite was placed between the annular sand and neat cement seal. "Christy" boxes were cemented over the tops of the PVC casings and set slightly above grade to drain surface waters away from the well head. Locking expansion plugs with locks were placed on each well.

The wells were developed on June 17, 1993. Prior to development, the wells were surged using a double-ended rubber O-ring stopper followed by development using a submersible water pump. The wells were developed until development water was clear and essentially free of fine materials. At least four well casing volumes of water were removed from each monitoring well.

3.0 EXTENT OF HYDROCARBONS PRESENCE IN SOIL AND GROUNDWATER

3.1 Hydrocarbon Concentrations in Soil

Analysis of soil samples taken from under the removed heating oil tanks in April, 1992, indicated non-detectable levels of Total Petroleum Hydrocarbons (TPH) as diesel, benzene, toluene, ethylbenzene and total xylenes.

Analysis of soil collected from borings indicated below detectable levels of TPH as diesel, benzene, toluene, ethylbenzene, and total xylenes.

3.2 Hydrocarbons Concentrations in Groundwater

One grab water sample was collected from the tank excavation. Laboratory analysis of the grab water sample indicated detectable levels of TPH as diesel (640 ppb).

After well installation and development, one groundwater sample from each monitoring well was collected and submitted to ChromaLab for analysis of TPH as diesel, benzene, toluene, ethylbenzene, and total xylenes by EPA Method 602. The inital laboratory analysis results of the groundwater indicated below detectable levels of constituents evaluated. Analysis of groundwater samples collected in September 1993 indicated 69 ppb TPH as diesel in monitoring well MW-1. Groundwater samples collected from monitoring wells MW-2 and MW-3 indicated below detectable levels of consitituents.

Subsequent quarterly groundwater sampling and analysis conducted on January 11, 1994 and April 12, 1994 indicated below detectable levels of constituents in the groundwater from all three monitoring wells on-site. Copies of the analytical results are provided in Appendix C.

3.2.1 Floating Product and Dissolved Hydrocarbons

Floating product was never observed on-site in measurable levels on the groundwater. The maximum concentrations of TPH as diesel was 69 ppb in monitoring well MW-1 in September 1993. Benzene, toluene, ethylbenzene, and total xylenes were never detected in measurable levels in the groundwater.

4.0 HYDROLOGY

4.1 Regional Hydrogeology

The site is located within the Bay Plain. The Bay Plain is a geomorphic terrain which is the gently bayward sloping alluvial plain of Alameda County adjacent to the east shore of San Francisco Bay. The Bay Plain is situated on the eastern side of the San Francisco Bay depression. This depression is an irregular warpage of the earth's crust resulting principally from downward movement along northwest-trending faults at its edge (California Department of Water Resources, 1963).

The Alameda County Flood Control and Water Conservation District, Geo-hydrology and Groundwater - Quality Overview, 205 (j) Report, June 1988 describes the geological formation of Alameda as principally the Merritt Sand of Quarternary age. The report notes this sand consists of loose, well-sorted, fine to medium grained sand with lenses of sandy clay and silt. The Merritt Sand is permeable but yields small quantities of groundwater to wells.

Merritt formational matrial was encountered during drilling. The on-site formational material consisted of sand with trace silt was encountered from below the asphalt surface to the depth investigated of 15 feet below ground surface.

4.2 Groundwater Flow Direction and Gradient

Groundwater measurements were collected quarterly prior to sampling. The depth to the surface of the water table was measured from the top of the PVC casing using a Solinst Water Level Meter. The groundwater gradient at the site was evaluated by triangulation using the elevations of the top of the potentiometric surface measured with respect to Mean Sea Level datum. Information regarding well elevations and groundwater level measurements is summarized in Table 1.

TABLE 1 - WELL INFORMATION

Date Measured	Groundwater Depth (Ft.)	Groundwater Elevation (Ft.)
MW-1 Elevation to Top of Casing (10.06')		
06/25/93	5.77	4.29
09/23/93	6.13	3.93
01/11/94	5.80	4.26
04/11/94	5.59	4.47
MW-2 Elevation to Top of Casing (8.41')		
06/25/93	4.30	4.11
09/23/93	4.62	3.79
01/11/94	4.34	4.07
04/11/94	4.04	4.37
MW-3 Elevation to Top of Casing (9.36')		
06/25/93	5.34	4.21
09/23/93	5.67	3.88
01/11/94	5.36	4.19
04/11/94	5.16	4.20

Notes: All measurements in feet
Elevations surveyed to mean sea level

4.3 Seasonal Variations in Groundwater

Slight seasonal variations occur in the on-site groundwater gradient and direction of flow. During the spring, the groundwater flows in a westerly trend whereas in the winter, the flow is in a southwesterly direction. In addition, due to the location of the site with respect to the San Francisco, the variance in groundwater flow direction may be due to tidal fluctation.

The groundwater gradient as measured each quarter is attached in Appendix D. Table 2 summarizes the change in groundwater gradient and direction of groundwater flow for the entire hydrologic cycle from 1993 through 1994.

TABLE 2 - HISTORIC GROUNDWATER GRADIENT AND DIRECTION

Date Monitored	Gradient	Direction
06/25/93	0.003	west-southwest
09/23/93	0.003	southwest
01/11/94	0.003	southwest
04/11/94	0.003	west

5.0 BENEFICIAL USES OF GROUNDWATER

Discharge from groundwater aquifers consists of natural and artificial discharge. Natural discharge includes evapotranspiration, groundwater discharge to streams, and underflow to San Francisco Bay. Artificial discharge comprises pumping from wells. Water pumped from wells is used for irrigation and industrial use. Domestic water to the site is supplied by the East Bay Municipal Utility District from surface water sources. The sources are from outside of the Alameda area and include the Hetch-Hetchy Reservoir system.

Groundwater on-site occurs in Merritt Sand. The shallow aquifer in the area is the Merritt Sand as described in the Alameda County Flood Control and Water Conservation District 205 (j) report. Wells drilled within the Merritt sand have the lowest groundwater specific capacity of all wells installed throughout Alameda County. The report states that salt-water intrusion has occurred on a limited basis within the Merritt Sand in Alameda.

5.1 Well Inventory

There are approximately 25 wells within one mile of the subject property. An inventory of wells located within one mile of Encinal High School well is attached in Appendix E. None of these wells are listed for domestic purposes. No wells with one mile of the study area are used for municipal purposes. Total depths of the wells in the area range from 13 to 315 feet below ground surface.

Most of the wells in the study area are listed as monitoring wells. There are 13 listed wells within one mile of Alameda Historical High School which are reportedly used for monitoring. There are 7 wells in the area that are listed as irrigation wells. Many of the irrigation wells were drilled during the 1976-77 drought and are relatively shallow. It is currently unknown how many of these wells are still in use today.

5.2 Contaminant Fate Transport

The contaminant of concern is diesel which is a volatile, flammable liquid that has various constituents and up to 200 petroleum-derived chemical additives. Analysis of diesel reveals various components including benzene, toluene, ethylbenzene, and xylene (BTEX). The BTEX components pose the most serious threat to human heath. The components have the potential to move through soil and contaminate groundwater. Benzene is derived from crude oil, tar, or coal. It is a clear, colorless, highly flammable liquid that exhibits a characteristic odor and is only slightly soluble in water (1,780 ppm, Merk Index, 1989).

5.2.1 Toxicity

Benzene is highly toxic and exposure to acute levels can irritate mucous membranes, cause restlessness, convulsions, excitement, depression and even death from respiratory failure. Chronic levels of benzene can cause bone marrow depression or leukemia. The Department of Health Services Action Levels for benzene is 0.7 ppb and the Maximum Contaminant Level (MCL) for drinking water is 1 ppb. Toluene, ethylbenzene and xylene are slightly less toxic than benzene with MCLs at 100 ppb, 680 ppb and 1,750 ppb respectively. The MCL for Diesel oil is not reported.

5.2.2 Persistence

The solubility of benzene in water at 23.1°C is 0.188% (w/w) with a boiling point of 80°C. Toluene, ethylbenzene and xylene are slightly more soluble in water. These elements volatilize quickly in air. A large body of evidence indicates petroleum hydrocarbons are subject to degradation by the action of bacteria. Biodegradation can be enhanced by the presence of fine grained formations, which provide a greater surface area for attachment of hydrocarbons.

5.2.3 Potential for Migration

The lighter fractions of diesel (benzene, toluene, ethylbenzene and xylenes) are more mobile than other fractions. BTEX can therefore migrate or dissipate away from the main body of contamination. The absence of the lighter fractions in the on-site release reduces the risk of rapid mobility.

The density of diesel and it's constituents is less than water. The low density of contaminants would restrict movement of petroleum hydrocarbons into the lower aquifers which are more likely used for domestic purposes.

5.3 Sources of Drinking Water Policy Determination

The "Sources of Drinking Water" Policy, Resolution 88-63 was adopted by the State Water Board in 1988. This Resolution specifies that except under specifically defined circumstances, ground and surface waters of the state are either existing or potential sources of municipal and domestic supply. Waters not considered as existing or potential sources include water with high total dissolved solids concentrations (greater than 3000 mg/L), low sustainable yield (less than 200 gallons per day for a single well), water within agricultural drains, and geothermal water. All water within the study area is an existing or potential source for domestic or municipal water supply.

6.0 REMEDIATION ACTIVITIES AND EFFECTIVENESS

6.1 Underground Storage Tank Removal

In April 1992, Semco of San Mateo removed one heating oil tank (1,500-gallon capacity) from Encinal High School Campus. Analysis of soil samples collected from 10 feet bgs within the excavation indicated below detectable levels of Total Petroleum Hydrocarbons (TPH) as diesel, benzene, toluene, ethylbenzene and total xylenes. A sample of the water within the excavation indicated 640 parts per billion (ppb) of TPH as diesel, 0.5 ppb toluene, 0.3 ppb ethylbenzene, and 2.3 ppb xylenes. Tank Closure Report prepared by SEMCO is attached as Appendix A. Composite analysis of samples collected from the stockpiled soil indicated detectable levels of constituents. The stockpile was disposed of at Guadalupe Landfill in San Jose.

6.2 Groundwater Sampling

Four consecutive quarters of monitoring and sampling were performed using the monitoring wells on-site. A summary of the results for each sampling event is listed in Table 3 and attached as Appendix B.

After water-level measurements were taken, each well was purged by hand using a pre-cleaned PVC bailer. Groundwater pH, temperature and electrical conductivity were monitored during well purging. Each well was considered to be purged when these parameters stabilized. Approximately four well volumes were removed to purge each well.

After the groundwater had recovered to a minimum of approximately 80 percent of its static level, water samples were obtained using separate, disposal Teflon bailers for each well. Two 40-ml VOA vials, without headspace, and two 1-liter bottles were filled with water from each well using the Teflon bailer. These samples were preserved on ice and submitted to ChromaLab analytical laboratory the same day under chain of custody protocol (forms are provided in Appendix B).

TABLE 3 GROUNDWATER ANALYSIS

Well No.	Date Sampled	TPH-d (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)
MW-1	06/25/93	<50	<0.5	<0.5	<0.5	<0.5
	09/23/93	69	<0.5	<0.5	<0.5	<0.5
	01/11/94	<50	<0.5	<0.5	<0.5	<0.5
	04/11/94	<50	<0.5	<0.5	<0.5	<0.5
MW-2	06/25/93	<50	<0.5	<0.5	<0.5	<0.5
	09/23/93	<50	<0.5	<0.5	<0.5	<0.5
	01/11/94	<50	<0.5	<0.5	<0.5	<0.5
	04/11/94	<50	<0.5	<0.5	<0.5	<0.5
MW-3	06/25/93	<50	<0.5	<0.5	<0.5	<0.5
	09/23/93	<50	<0.5	<0.5	<0.5	<0.5
	01/11/94	<50	<0.5	<0.5	<0.5	<0.5
	04/11/94	<50	<0.5	<0.5	<0.5	<0.5

Notes: TPH-d = Total Petroleum Hydrocarbons as diesel

7.0 RESIDUAL HYDROCARBON CONCENTRATIONS IN SOIL AND GROUNDWATER

7.1 Residual Hydrocarbon Occurrence in the Soil

Sampling analysis of the soil from under the removed heating oil tanks indicated no detectable levels of hydrocarbons as diesel, benzene, toluene, ethylbenzene, and total xylenes. Sampling and analysis of soil collected from borings drilled adjacent to and within the former tank excavation indicated below detectable levels of constituents. Thus, these data are interpreted to indicate that no residual hydrocarbons are in the soil.

7.2 Residual Hydrocarbon Occurrence in the Groundwater

Water was encountered in the tank excavation. Analysis of a grab water sample indicated 640 ppb TPH as diesel, 0.5 ppb toluene, 0.3 ppb ethylbenzene, and 2.3 ppb xylenes and below detectable level of benzene.

After completion of monitoring well MW-1, MW-2 and MW-3, groundwater samples were collected. During September quarterly sampling of the on-site wells, analysis indicated 69 ppb of diesel in the groundwater from monitoring well MW-1 and below detectable levels of constituents in the other two monitoring wells. Subsequent quarterly sampling and analysis indicated non-detectable levels of hydrocarbons in the groundwater from all the wells. Benzene, the chemical of concern, was never detected in the groundwater on-site.

7.3 Present Exposure Assessment

Exposure routes for workers and public could be via dermal contact and inhalation of volatilized contaminants and windblown dust. Because concentrations of hydrocarbons are generally non-detectable in the soil and groundwater and because the asphalt cap is generally non-permeable, these exposures scenarios are not likely to occur.

7.4 Impact of Residual Hydrocarbons on Beneficial Uses

The physiochemical characteristics of the principal constituent of concern, benzene, indicate that this compound is subject to natural decomposition by biodegradation. While the constituent is a known human carcinogen, groundwater benzene concentration of groundwater on-site, are below drinking water standards. Because non-detectable levels of constituents were encountered in the groundwater for three quarters and non-detectable levels of benzene were encountered within the groundwater, there is no detectable impact to the quality of nearby groundwater from the release. Detection limits may change in the future, as may regulatory requirements. This closure report does not attempt to predict future regulatory detection limits, but summarizes compliance of the on-site groundwater and soil hydrocarbon concentrations to current regulatory standards.

8.0 SUMMARY AND CONCLUSIONS

Remedial activities included removing one underground storage tank, and installing and monitoring the soils and groundwater at Alameda Unified School District - Encinal High School. Results of groundwater monitoring indicated below detectable levels of constituents for three quarters in monitoring well MW-1. Non-detectable levels of diesel, benzene, toluene, ethylbenzene and total xylenes were reported for four consecutive quarters in monitoring wells MW-2 and MW-3. Therefore, further remedial action or monitoring is not needed or warranted.

9.0 RECOMMENDATIONS

Based on the completion of tank removal and verification groundwater monitoring, ACC Environmental Consulting, Inc. is requesting that the subject site at Alameda Unified School District - Encinal High School be closed from further evaluation and that the three on-site monitoring wells be properly destroyed.

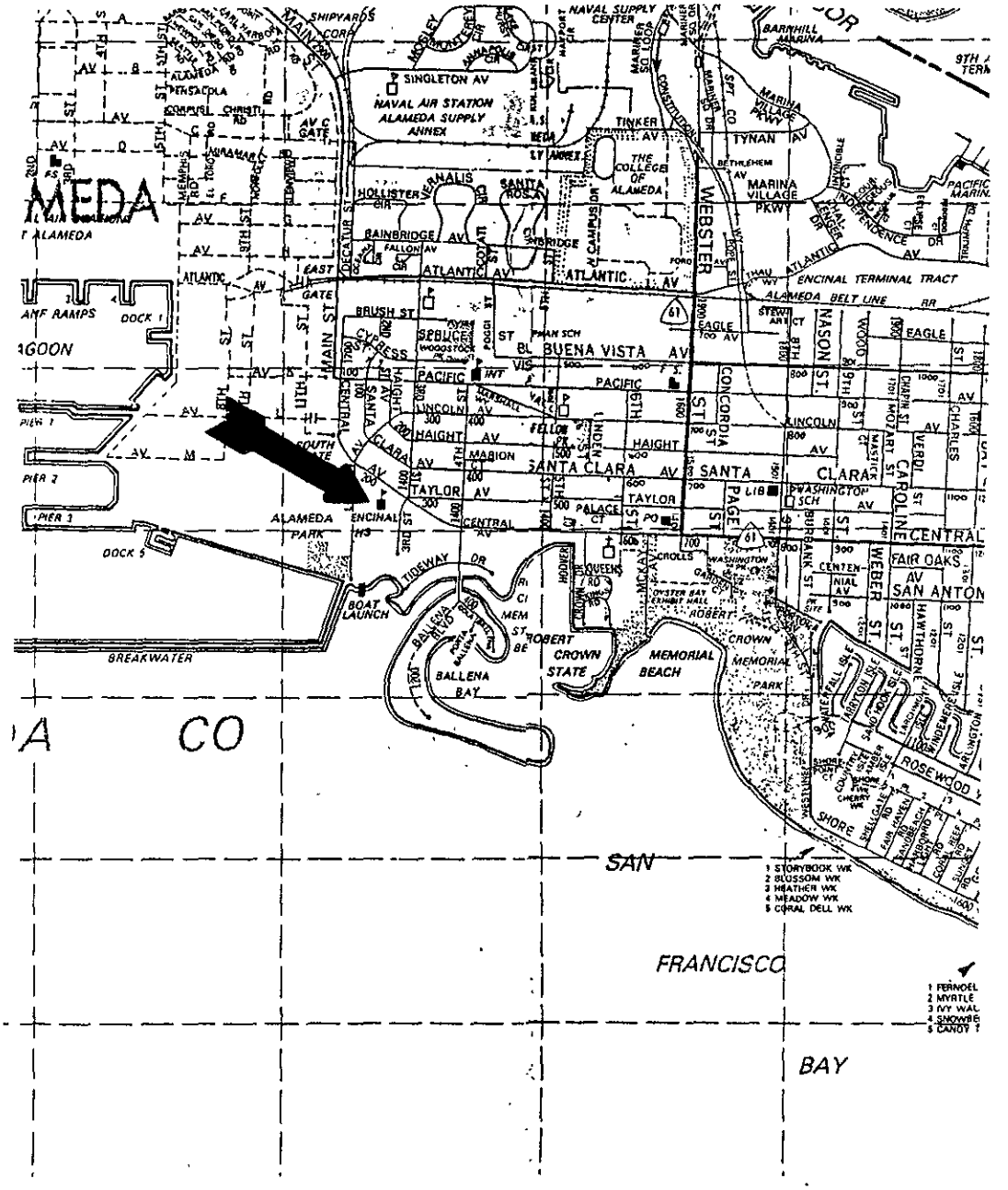
10.0 REFERENCES

California Department of Water Resources, 1960, Intrusion of salt water into groundwater basins of southern Alameda County: California Department Water Resources, Davis. Resources Plan. 81, 64p.

Alameda County Investigation: California Water Resources Board Bull. 13. 1963, 196 p.

Alameda County Flood Control and Water Conservation District, June 1988, Geohydrology and Groundwater - Quality Overview, of the East Bay Plain Area, Alameda County, California: 205 (j) Report.

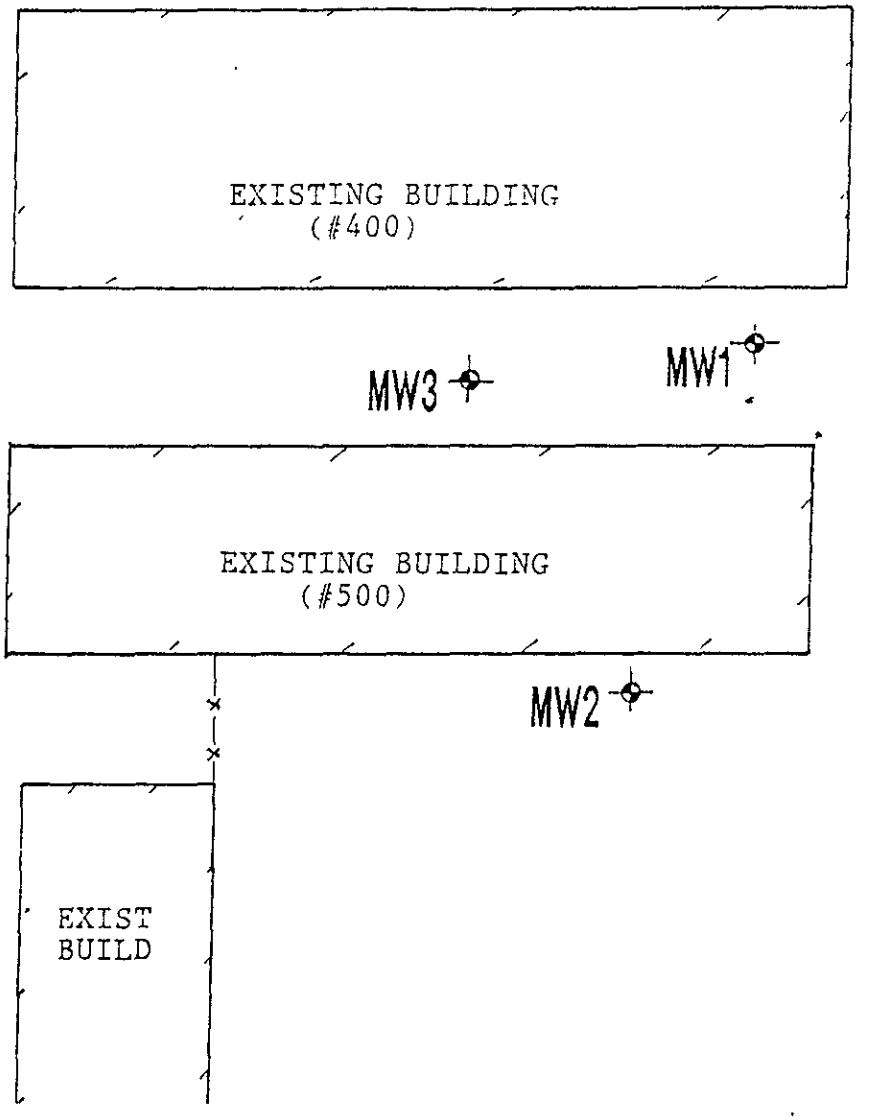
Alameda County Flood Control and Water Conservation District - Zone 7, Well Inventory List of Groundwater Wells and their uses within one mile radius.



Location Map
Encinal High School
210 Central Ave.
Alameda, California

May 3, 1994	Drawn By: MCK	Project: 6029-5

ACC Environmental Consultants • 1000 Atlantic Avenue, Suite 110 • Alameda, CA 94501 • (510) 522-8188 Fax: (510) 865-5731



Site Plan
Encinal High School
210 Central Ave.
Alameda, California

May 3, 1994	Drawn By: MCK	Project: 6029-5

ACC Environmental Consultants • 1000 Atlantic Avenue, Suite 110 • Alameda, CA 94501 • (510) 522-8188 Fax: (510) 865-5731

APPENDIX A

92 JUL -1 P 11:18

TANK CLOSURE REPORT

JOB LOCATION:

ENCINAL HIGH SCHOOL
210 CENTRAL AVE.
ALAMEDA, CALIFORNIA

PREPARED BY:

S E M C O
1741 LESLIE STREET
SAN MATEO, CA 94402
(415) 572-8033

S E M C O
ENVIRONMENTAL CONTRACTORS & GENERAL ENGINEERING
LICENSE # 449864 A, B, C-61/D-40
HAZARDOUS SUBSTANCE CERTIFICATION
1741 LESLIE STREET
SAN MATEO, CALIFORNIA 94402
(415) 572-8033

This tank closure report is submitted to you for your files.
SEMCO will document the removal and excavation of the tank from the site. SEMCO will provide sampling locations, site logs where applicable and deliver detailed analytical reports with chain of custody procedures. Finally, SEMCO will supply manifests for the disposal of the tank as well as appropriate gas free certificate / documentation for final disposition of tank.

This property is located at 210 Central Avenue in Alameda.

REMOVAL AND DISPOSAL OF FUEL STORAGE TANK

One underground heating oil tank was removed from this site on April 20, 1992. Tank abandonment was performed by James C. Bateman Petroleum Services, Inc. "dba" SEMCO Environmental Contractors, License # 449864, Classification A, B, C-61/D40, Hazardous Substance Certification.

The tank was of 1500 gallon capacity.

It was determined that the tank was dry before removal procedures were begun. The tank was inerted by washing it with a hot water detergent wash, followed by placing solid carbon dioxide (dry ice) in the tank to eliminate any explosive vapors that may have existed.

The tank was transported off site by Richard Hamilton Trucking and delivered to Erickson Inc., in Richmond for disposal. The tank was transported on manifest # 90710679.

Three soil samples and one water sample were taken. Two of the soil samples were taken at the North and South ends of the excavation and one was taken from the composite spoils pile. One water sample was also collected. The excavated soils were left on site for disposal.

The soil samples were collected with a drive sampler, sealed in brass tubes, labeled, then stored in an iced container for transportation to Superior Analytical. All samples were to be analyzed for TPH-D and BTXE.

Once the analytical was determined, 35 cubic yards of soil was transported and disposed of at Guadalupe Landfill in San Jose. (see attached tags), and the area was restored to its original condition with asphalt.

SEMCO is pleased to present this tank closure report to you for your files. We would, of course, be happy to answer any questions you may have.

APPENDIX

1) ANALYTICAL RESULTS
   CHAIN OF CUSTODY
   SAMPLING LOCATION MAP

2) PERMITS

3) MANIFESTS

4) INSPECTORS SITE LOG (IF APPLICABLE)

5) DAILY SAFTEY BREIFING REPORT
   SIGNATURE PAGE FROM SITE SAFETY PLAN

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 871-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 54725
CLIENT: SEMCO
CLIENT JOB NO.: 92-0223

DATE RECEIVED: 04/21/92
DATE REPORTED: 04/22/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/kg) Diesel Range
1	#1-N-10'	ND<10
2	#2-S-10'	ND<10
4	#4-COMP	360

mg/kg - parts per million (ppm)
Minimum Detection Limit for Diesel in Soil: 10mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: %DIFF Diesel = <15%
MS/MSD Average Recovery = 102%: Duplicate RPD = 6.9%

Richard Srna, Ph.D.

Cecilia G. Joaquin (for)
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821 7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 54725
CLIENT: SEMCO
CLIENT JOB NO.: 92-0223

DATE RECEIVED: 04/21/92
DATE REPORTED: 04/22/92

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
by EPA SW-846 Methods 5030 and 8020

LAB #	Sample Identification		Concentration Benzene	Toluene	Ethyl Benzene	Xylenes
1	#1-N-10'	ug/kg	ND<3	ND<3	ND<3	ND<3
2	#2-S-10'	ug/kg	ND<3	ND<3	ND<3	ND<3
3	#3-H2O	ug/L	ND<0.3	0.5	0.3	2.3
4	#4-COMP	ug/kg	ND<15	ND<15	ND<15	68

ug/kg or ug/L - parts per billion (ppb)
Minimum Detection Limit in Soil: 3 ug/kg
Minimum Detection Limit in Water: 0.3 ug/L

QAQC Summary:

Daily Standard run at 20ug/L: %DIFF 8020 = <15%
MS/MSD Average Recovery = 84%: Duplicate RPD = 1.8%

Richard Srna, Ph.D.

Cecilia G. Joaquin (for)
Laboratory Director

Superior Precision Analytical, Inc.
1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

C E R T I F I C A T E O F A N A L Y S I S

LABORATORY NO.: 54725
CLIENT: SEMCO
CLIENT JOB NO.: 92-0223

DATE RECEIVED: 04/21/92
DATE REPORTED: 04/22/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (ug/L) Diesel Range
3	#3-H2O	640

ug/L - parts per billion (ppb)
Minimum Detection Limit for Diesel in Water: 50ug/L

QAQC Summary:

Daily Standard run at 200mg/L: %DIFF Diesel = <15%
MS/MSD Average Recovery = 102%: Duplicate RPD = 6.9%

Richard Srna, Ph.D.

Cecilia G. Joaquin (for)
Laboratory Director

Section I

CHAIN OF CUSTODY AND ANALYSIS REQUEST

LAB NO. _____

Consultant Name: SEMCO
Office Location: 1741 Leslie Rd. San Mateo, CA 94402
Fax No.: (415) 572-9734
Project Manager: Chuck Kiper
Phone: (415) 572 8033

TURN AROUND TIME (Circle One)
Same Day | 24 Hrs | 48 Hrs | 72 Hrs | 5 Day

SUPERIOR ANALYTICAL, INC.
Martinez 415/229-1512 | San Francisco 415/647-2081

Send Coolers to : Modesto ☐ San Mateo ☒
Sampler: M. TAMBURINI
Project No. / P.O. No.: 210 Central Ave - 92-0223
Regulatory Agency: ALAMEDA CNTY. HEALTH CARE SERVICES

Section II — Analysis Request

Sample Identification	Matrix (S=Soil A=Air W=Water)	TPH - G & D	TPH - Low Level D	TPH - G	BTXE	O&G	8010	8240	Metals	Others * Subject to Subcontracting				
1 #1-N-10'	S		X		X									
2 #2-S-10'	S		X		X									
3 #3-H2O	W		X		X									
4 #4-COMP	S		X		X									
5														
6														
7														
8														
9														
10														
11														
12														

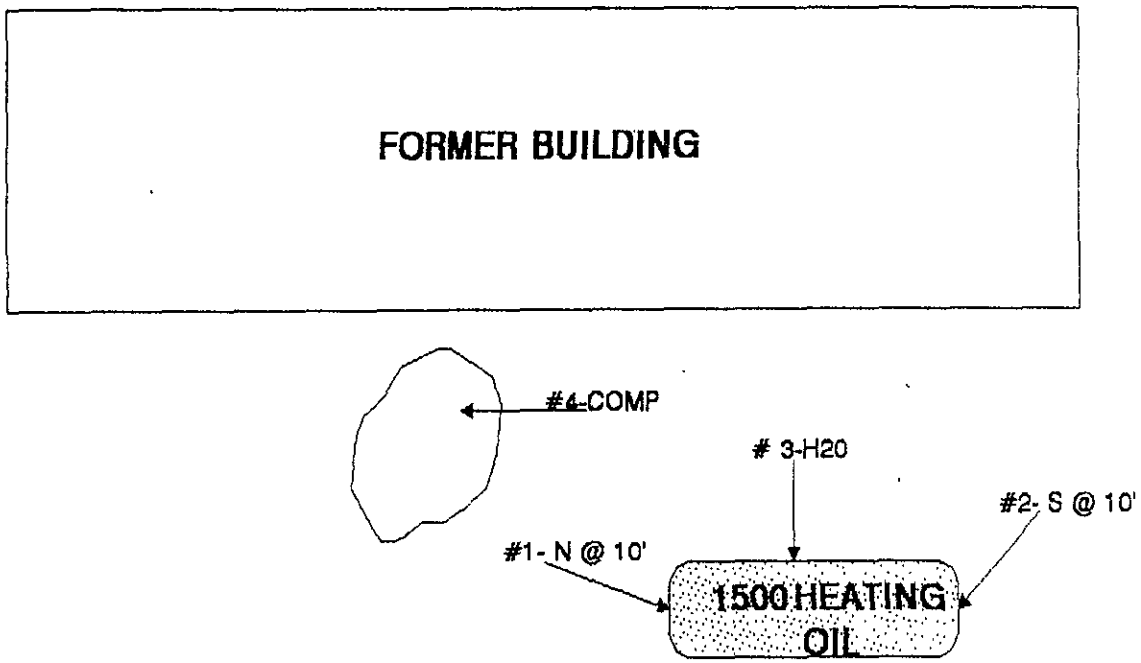
Section III — Sample Information

Date	Time	Containers: Quantity	Containers: Pres.	Sampling Remarks
3/24/92	115	1		
↓	120	1		
↓	245	4		
3/24/92	340	4		COMPOSITE

Bioremediation ☐
Contamination ☐

Relinquished by: [illegible]	Date/Time: 4-1-92 [illegible]	Received by: _____
Organization: SEMCO		Organization:
Relinquished by: _____	Date/Time:	Received by: _____
Organization:		Organization:
Relinquished by: _____	Date/Time:	Received by: _____
Organization:		Organization:

Please Initial: _____
Samples Stored in Ice: _____
Appropriate Containers: _____
Samples Preserved: _____
VOA's without Headspace: _____
Comments: _____



S E M C O

A.U.S.D.
ENCINAL HIGH SCHOOL
210 CENTRAL AVE.
ALAMEDA, CALIFORNIA

N

NOT TO SCALE

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

SOS 3/30/92 ACCEPTED

Project Specialist (print) Scott Seery

Fire Department must witness removal of all underground tanks, and all State and County requirements must be met.

By Scott Seery Date 4-6-92

UNDERGROUND TANK CLOSURE PLAN

*** * * Complete according to attached instructions * * ***

1. Business Name ENCINAL HIGH SCHOOL

   Business Owner ALAMEDA UNIFIED SCHOOL DISTRICT

2. Site Address 210 CENTRAL AVENUE

   City ALAMEDA Zip 94501 Phone 748-4090

3. Mailing Address 2200 CENTRAL AVENUE

   City ALAMEDA Zip 94501 Phone 748-4090

4. Land Owner ALAMEDA UNIFIED SCHOOL DISTRICT

   Address 2200 CENTRAL AVE. City, State ALAMEDA, CA Zip 94501

5. Generator name under which tank will be manifested

   ALAMEDA UNIFIED SCHOOL DISTRICT

   EPA I.D. No. under which tank will be manifested CAD981683774

rev 12/90

CITY OF ALAMEDA
CENTRAL PERMITS OFFICE
2263 Santa Clara Ave. Room 204
Alameda, CA 94501 748-4530

Permit No: B92-5446
Status: APPROVED

Page 1
04/08/92 11:41

JOB ADDRESS : 210 CENTRAL AVE
PERMIT TYPE : PLUMBING PERMIT
Parcel number : 074 -1310-001-00

Applied : 04/08/92
App/Issue : 04/08/92
FINAL :
To Expire :
Class code : 999
Valuation: 1,000

Owner :

Applicant : SEMCO

HOURS OF CONSTRUCTION
MONDAY - FRIDAY 7 A.M. TO 7 P.M.
SATURDAY & SUNDAY 8 A.M. TO 5 P.M.

Project Title : REMOVAL ONE TANK-ENCINAL HIGH Rhonda Reames-Kuper
Signature

Project Desc. : REMOVAL ONE TANK-ENCINAL HIGH SCHOOL

CONTRACTOR : RHONDA REAMES-KUPER Lic. C 449864
1741 LESLIE ST
SAN MATEO, CA 94402

Fee description	Units	Fee/Unit	Ext Fee
~~Vault Toilet~~	1	30.00	30.00
Underground TANK			
Total of Fixture Fees			30.00
Filing Fee			10.00
S.M.I.P Fee			5.00
Assembly Bill 941 (Enter Y)			5.00
Micro-fiche Fee	37.00		37.00

*** Fees Required ***		*** Fees Collected & Credits ***		
Account No.		Receipt No.	Date	Payment
001-300-4220-3360		R002715	04/08/92	5.00
001-300-4240-3745		R002715	04/08/92	10.00
001-220-0000-2239		R002715	04/08/92	5.00
001-300-4240-3305		R002715	04/08/92	5.00
~~001-~~300-4240-3792		R002715	04/08/92	5.00
Fees:	32.50			
Adjustments:	.00	Total Credits:		.00
Total Fees:	32.50	Total Payments:		32.50
		Balance Due:		.00

I UNDERSTAND THAT ANY WORK STARTED BEFORE THE EXPIRATION OF THE APPEAL PERIOD IS DONE AT MY OWN RISK. I AGREE TO MAKE MODIFICATIONS TO THE PROJECT THAT MAY BE REQUIRED AS A RESULT OF THE APPEAL PROCESS.

SIGNATURE_____

THIS CARD MUST BE POSTED ON THE PREMISES AND PLACED SO AS TO BE SEEN FROM THE STREET

CITY OF ALAMEDA, Building Inspection Office

DATE 4-8-92 VALUATION$ 4000 BLDG. PERMIT # _____ PLMG /MECH PERMIT # 92-5404

JOB Underground tank removal

ADDRESS 210 Central Ave

OWNER A.U.S.D.

CONTRACTOR Semco

ROBERT L. WARNICK BUILDING OFFICIAL BY _____

FORMS _____ REQUIRED BEFORE POURING CONCRETE

VAULT TOILET _____

PRELIMINARY GROUND PLUMBING _____

FINAL GROUND PLUMBING _____

ROUGH ELECTRIC _____

ROUGH PLUMBING _____

ROUGH HEATING & VENTILATING _____

SUB FLOOR _____

FRAME _____

INSULATION _____

INTERIOR LATH _____ REQUIRED BEFORE PLASTERING OR TAPING

EXTERIOR LATH _____ REQUIRED BEFORE STUCCO

DESIGN REVIEW _____

INSULATION CERTIFICATE _____

TRACT CONDITIONS _____

P.U.D. CONDITIONS _____

FINAL ELECTRIC _____

FINAL - FIRE DEPT. _____

FINAL PLUMBING _____

FINAL HEATING & VENTILATING _____

FINAL BUILDING _____

ABOVE APPROVALS REQUIRED BEFORE INTERIOR LATHING OR COVERING

DO NOT CALL FOR FINAL INSPECTION UNTIL OTHER ITEMS HAVE BEEN ISSUED

DO NOT OCCUPY STRUCTURE UNTIL CERTIFICATION OF OCCUPANCY HAS BEEN ISSUED.
FOR CERTIFICATE OF OCCUPANCY TO BE ISSUED, A COPY OF HARD CARD WITH ALL FINALS NEEDS TO BE FILED WITH THE CENTRAL PERMIT OFFICE.

REMARKS _____

NOTE: ALL INSPECTION REQUESTS ARE REQUIRED 24 HOURS IN ADVANCE.
CALL BETWEEN 8:30 AM - 10:00 AM 748-4564 (BUILDING) or 748-4563 (PLUMBING/MECHANICAL)

State of California—Health and Welfare Agency
Form Approved OMB No. 2050—0039 (Expires 9-30-91)
Please print or type. *Form designed for use on elite (12-pitch typewriter).*

See Instructions on Back of Page 6 and Front of Page 7

Department of Health Services
Toxic Substances Control Division
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD981683714	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
210 CENTRAL — ALAMEDA UNIFIED School 2200 CENTRAL Av.
4. Generator's Phone (510) 748-4090 ALAMEDA, CA 94501

A. State Manifest Document Number: 90710679
B. State Generator's ID:

5. Transporter 1 Company Name: DEXAMMA ~~[illegible] TRANSPORTATION~~
6. US EPA ID Number: CAD982438566
C. State Transporter's ID:
D. Transporter's Phone: ~~(209) 578-4100~~

7. Transporter 2 Company Name: Dexamma, Ltd
8. US EPA ID Number: CAD982438566
E. State Transporter's ID: 308784
F. Transporter's Phone: (510) 687-1292

9. Designated Facility Name and Site Address
ERICKSON
PARR BLVD.
RICHMOND, CA 94801
10. US EPA ID Number: CAD009466392
G. State Facility's ID: CAD009466392
H. Facility's Phone: (510) 235-1393

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. EMPTY WASTE STORAGE TANK NON RCRA HAZARDOUS WASTE SOLID.	001	T/P	01/5700	P	State 512 / EPA/Other NONE
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above
TANK ICED WITH 15LB DRY ICE PER 1000 GAL CAPACITY 7D PRIOR TO TRANSPORT.
8513

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

15. Special Handling Instructions and Additional Information
KEEP AWAY FROM SOURCE OF IGNITION. ALWAYS WEAR HARD HATS AND GLASSES WHEN WORKING AROUND U.S.T.S. OBSERVE PROPER PROCEDURES. NO SMOKING WITHIN 50 FEET OF TANK;
24 HOUR CONTACT; DON DIEL AND PHONE ; 510 748-4090

16.

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

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

Printed/Typed Name	Signature	Month Day Year
DON DIEL	Donald A Diel	04 21 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
James P. Cox	James P. Cox	04 21 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space
1. No manifest document #.

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month Day Year
DANIEL S CARROLL	Daniel S Carroll	04 24 92

Do Not Write Below This Line

HS 8022 A
EPA 8700—22
(Rev. 6-89) Previous editions are obsolete.

White: TSDF SENDS THIS COPY TO DOHS

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

DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. .

CUSTOMER SEMCO

JOB NO. 78382

FOR: Erickson, Inc. TANK NO. 8513

LOCATION: Richmond DATE: 04/27/92 TIME: 10:39:15

TEST METHOD Visual Gastech/1314 SMPN LAST PRODUCT FO

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 1500 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9%

LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS WASTE FACILITY."

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissable concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

REPRESENTATIVE _____ TITLE _____ INSPECTOR _____

...rnia—Health and Welfare Agency

See instructions on back of page 6.

Department of Health Servic
Toxic Substances Control Progra
Sacramento, Californ

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
CADO[illegible]1616837[illegible]	[illegible]	1 of 1	

GENERATOR

3. Generator's Name and Mailing Address: Alameda United Sewer Dist. 2200 Central Ave Alameda CA 94501

4. Generator's Phone: (510) 748-4400

A. State Manifest Document Number: 91495486

B. State Generator's ID: CADO[illegible]1616837[illegible]

5. Transporter 1 Company Name: Allied Petroleum

6. US EPA ID Number: CAD980675128

C. State Transporter's ID: [illegible]

D. Transporter's Phone: (209)526-8500

7. Transporter 2 Company Name:

8. US EPA ID Number:

E. State Transporter's ID:

F. Transporter's Phone:

9. Designated Facility Name and Site Address: RETHMEIER SERVICE, 13331 N HWY 33 Patterson CA 95363

10. US EPA ID Number: CAD[illegible]1616837[illegible]

G. State Facility's ID: CAD980831667[illegible]

H. Facility's Phone: (800)874-4444

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. WASTE FUEL COMBUSTIBLE LIQUID NOS NA 1993	1	T	25	G	State 223 EPA/Other
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above: 95% WATER AND RINSATE 5% FUEL

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

15. Special Handling Instructions and Additional Information: USE APPROPRIATE PROTECTIVE GEAR
DESIGNATED FACILITY EMERGENCY CONTACT # (800)874-4444
GENERATOR EMERGENCY CONTACT # (510) 748-4400

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

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

Printed/Typed Name	Signature	Month	Day	Year
Donald Diaz	[signature]	04	12	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
G. L. Kelly	[signature]	04	12	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	04	19	92

DO NOT WRITE BELOW THIS LINE.

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

HS 8022A (12/90)
PA 8700—22

(Green) HAULER RETAINS

Health and Welfare Agency

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

See instructions on back of page 6.

Department of Health Services
Toxic Substances Control Program
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.
	CAD981683774	9514610	1 of 1	

GENERATOR

3. Generator's Name and Mailing Address	A. State Manifest Document Number
Alameda Unified School Dist. 2200 Central Ave Alameda CA 94501	91495460
4. Generator's Phone (510) 748-4090	B. State Generator's ID: CAD981683774
5. Transporter 1 Company Name: Allied Petroleum	6. US EPA ID Number: CAD980675128
	C. State Transporter's ID: 2471-4266714
	D. Transporter's Phone: (209)576-8500
7. Transporter 2 Company Name	8. US EPA ID Number
	E. State Transporter's ID
	F. Transporter's Phone
9. Designated Facility Name and Site Address: Refineries Service 13331 N HWY 33 Patterson CA 95363	10. US EPA ID Number: CAD083166728
	G. State Facility's ID: CAD083166728
	H. Facility's Phone: (800)874-4444

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. WASTE FUEL COMBUSTIBLE LIQUID NOS NA 1993	1	T	1325	G	State 223 / EPA/Other
b.					State / EPA/Other
c.					State / EPA/Other
d.					State / EPA/Other

J. Additional Descriptions for Materials Listed Above	K. Handling Codes for Wastes Listed Above	
5% WATER AND RINSATE 95% FUEL	a. 01	b.
	c.	d.

15. Special Handling Instructions and Additional Information
USE APPROPRIATE PROTECTIVE GEAR
DESIGNATED FACILITY EMERGENCY CONTACT # (800)874-4444
GENERATOR EMERGENCY CONTACT #(510) 748-4090

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

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Printed/Typed Name	Signature	Month	Day	Year
DONALD DIEL	Donald Diel	04	21	92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Col. Kelly	Col. Kelly	04	21	92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Month	Day	Year
Glenn Shipman	Glenn Shipman	04	21	92

DO NOT WRITE BELOW THIS LINE.

DHS 8022A (12/90)
CA 8700-22

Yellow: TSDF SENDS THIS COPY TO GENERATOR WITHIN 30 DAYS.

white	-env.health
yellow	-facility
pink	-files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Inspection Form

II,III

Site ID # ____ Site Name Enviro [illegible] Today's Date __/__/__

Site Address 2[illegible] Centre [illegible]

City Alameda Zip 94501 Phone ______

____ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

____ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
__✓_ II. Business Plans, Acute Hazardous Materials
__✓_ III. Underground Tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

12 30 - [illegible]

Comments:

On s[illegible] to witness closure [illegible] UT. [illegible]
The tank was inspected for holes and [illegible]
Neither were observed as the tank was [illegible]
and in good shape. [illegible] the [illegible]
building foundation and [illegible].
Native material appears to be a clean fine [illegible]
sand w/ occasional shell fragments. [illegible]
is saturated. [illegible] material [illegible]
[illegible] from the [illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
[illegible]
[illegible] back [illegible]

II.A BUSINESS PLANS (Title 19)

	Item	Code
__	1. Immediate Reporting	2703
__	2. Bus. Plan Stds.	25503(b)
__	3. RR Cars > 30 days	25503.7
__	4. Inventory Information	25504(a)
__	5. Inventory Complete	2730
__	6. Emergency Response	25504(b)
__	7. Training	25504(c)
__	8. Deficiency	25505(a)
__	9. Modification	25505(b)

II.B ACUTELY HAZ. MAT'LS

	Item	Code
__	10. Registration Form Filed	25533(a)
__	11. Form Complete	25533(b)
__	12. RMPP Contents	25534(c)
__	13 Implement Sch. Req'd? (Y/N)	
__	14. OffSite Conseq. Assess.	25524(c)
__	15. Probable Risk Assessment	25534(d)
__	16. Persons Responsible	25534(g)
__	17 Certification	25534(f)
__	18. Exemption Request? (Y/N)	25536(b)
__	19. Trade Secret Requested?	25538

III. UNDERGROUND TANKS (Title 23)

General

	Item	Code
__	1 Permit Application	25284 (H&S)
__	2. Pipeline Leak Detection	25292 (H&S)
__	3. Records Maintenance	2712
__	4. Release Report	2651
__	5. Closure Plans	2670

Monitoring for Existing Tanks

__ 6. Method
1) Monthly Test
2) Daily Vadose
Semi-annual gndwater
One time soils
3) Daily Vadose
One time soils
Annual tank test
4) Monthly Gndwater
One time soils
5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
6) Daily Inventory
Annual tank testing
Cont pipe leak det
7) Weekly Tank Gauge
Annual tank tstng
8) Annual Tank Testing
Daily Inventory
9) Other ______

	Item	Code
__	7 Precis Tank Test Date: ______	2643
__	8. Inventory Rec.	2644
__	9. Soil Testing.	2646
__	10. Ground Water.	2647

New Tanks

	Item	Code
__	11.Monitor Plan	2632
__	12.Access. Secure	2634
__	13.Plans Submit Date: ______	2711
__	14 As Built Date. ______	2635

Rev 6/88

II, III

Contact: [illegible]

Title: [illegible] Inspector: [illegible]

Signature: ______ Signature: ______

DAILY SAFETY BRIEFING REPORT

Project # 92-0223 Date 4/20/92 Time 9:00 AM

Project Name A.U.S.D. Emilval High

Project Location 210 Central Alameda

Client/Address Same

Project Activity tank removal

SAFETY TOPICS

CHEMICAL HAZARDS-Benzene, Toluene, Xylene, Ethyl Benzene, Freon, Diesel, Waste Oil, Petroleum Hydrocarbons

PHYSICAL HAZARDS-Open excavation, debris piles, exposed piping, cave-ins, moving equipment, electrical shock

RESPIRATORY PROTECTIVE EQUIPMENT-Half-face respirator with organic vapor cartridges if necessary

SAFETY/PERSONAL PROTECTIVE EQUIPMENT/CLOTHING (List specifically for each activity)- Hard hats, steel toe shoes, safety glasses, uniform shirt, protective gloves

SPECIFIC INSTRUCTIONS-No smoking, eating, drinking, or chewing within 25' of the excavation, wash hands before doing any of the above

HOSPITAL/CLINIC Alameda Hospital PHONE (510) 481-5111

HOSPITAL ADDRESS

PARAMEDIC ( ) 911 FIRE DEPT. ( ) 911 POLICE ( )911

EMERGENCY PROCEDURES-Treat minor injuries on site, transport victim to hospital if necessary

-ATTENDEES-

NAME (Please Print)	NAME (Signature)
STEPHEN C. MORRIS	
Rodney Hayes	
Chuck Kiper	

Meeting Conducted By Robert J. Hayes

Supervisor MIKE TAMBLONI

10.0 Signatures & Acknowledgments:

I acknowledge having read and understood the preceding Health & Safety Plan:

Signature	Date	Signature	Date
	4/20/92		
	4/20/92		
	4/20/92		
	4-20-92		
	4-21-92		
	4-21-92		

Guadalupe Rubbish Disposal Co., Inc.
P.O. Box 20957, San Jose, California 95160
Street Address: 15999 Guadalupe Mines Road

WEIGH TICK

92022

Guadalupe Landfill

Payshack # 2

Account SEMCO 1291
Fleet # Tag #
Loop Tag
Transaction # 369128 Site PS
Transtn Type = 3rd Party Transaction
Payment Type = Charge
Vehicle Type = Not Specified
Origin Type = Other
Materl. Type = Special Soil CY
Destin. Type = Not Specified

	In	Out	BE
Date	04-24-92	04-24-92	IN
Time	10:47	10:47	0
Scale Op	SJR	SJR	
	lbs	tons	
Gross Wt	0	0.000	--
Tare Wt	0	0.000	--
Net Wt	0	0.000	CY

Cubic Yards = 15
Rate $ 30.00/CY
Tip Fee $ 450.00
Spec Fee $ 0.00
Sales Tax $ 0.00
Total Fee $ 450.00

Message: HOUSEHOLD HAZ.WASTE DISP.299-7300

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weigh
or counted by a weighmaster whose signature is on this certificate, who s

DRIVERS SIGNATURE

Guadalupe Rubbish Disposal Co., Inc.
P.O. Box 20957, San Jose, California 95160
Street Address: 15999 Guadalupe Mines Road

WEIGH TICK

Guadalupe Landfill

92 0222
ALSD
Encl

Payshack # 2

Account SEMCO 1291
Fleet # Tag #
Loop Tag
Transaction # 369122 Site PS
Transtn Type = 3rd Party Transaction
Payment Type = Charge
Vehicle Type = Not Specified
Origin Type = San Jose
Materl. Type = Special Soil CY
Destin. Type = Not Specified

	In	Out	BE
Date	04-24-92	04-24-92	IN
Time	10:42	10:42	0
Scale Op	SJR	SJR	
	lbs	tons	
Gross Wt	0	0.000	--
Tare Wt	0	0.000	--
Net Wt	0	0.000	CY

Cubic Yards = 20
Rate $ 30.00/CY
Tip Fee $ 600.00
Spec Fee $ 0.00
Sales Tax $ 0.00
Total Fee $ 600.00

Message: HOUSEHOLD HAZ.WASTE DISP.299-7300

WEIGHMASTER CERTIFICATE
THIS IS TO CERTIFY that the following described commodity was weig
or counted by a weighmaster whose signature is on this certificate, who
recognized authority of accuracy, as prescribed by Chapter 7 (commenc
Section 12700) of Division 5 of the California Business and Professions
administered by the Division of Measurement Standards of the Californi
of Food and Agriculture.

DRIVERS SIGNATURE

DEPUTY WEIGHMASTER

CUSTOMER COPY

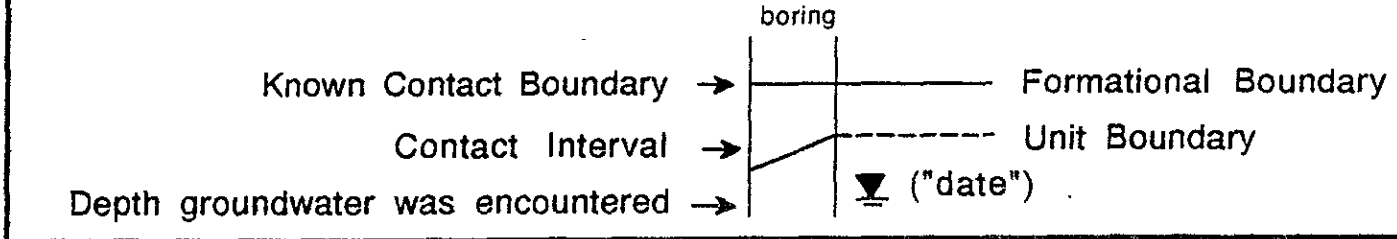
Stop TRUCK No. TRL #

APPENDIX B

UNIFIED SOIL CLASSIFICATION SYSTEM

	MAJOR DIVISIONS				TYPICAL NAMES
COARSE GRAINED SOILS more than half > #200 sieve	GRAVELS more than half coarse fraction is larger than No. 4 sieve	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		well graded gravels, gravel-sand mixtures
			GP		poorly graded gravels, gravel-sand mixtures
		GRAVELS WITH OVER 12% FINES	GM		silty gravels, poorly graded gravel-sand silt mixtures
			GC		clayey gravels, poorly graded gravel-sand clay mixtures
	SANDS more than half coarse fraction is smaller than No. 4 sieve	CLEAN SANDS WITH LITTLE OR NO FINES	SW		well graded sands, gravelly sands
			SP		poorly graded sands, gravelly sands
		SANDS WITH OVER 12% FINES	SM		silty sands, poorly graded sand-silt mixtures
			SC		clayey sands, poorly graded sand-clay mixtures
FINE GRAINED SOILS more than half < #200 sieve	SILTS AND CLAYS liquid limit less than 50		ML		inorg. silts and v.fine sands, rock flour silty or clayey sands, or clayey silts w/sl. plasticity
			CL		inorg. clays of low-med plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL		organic clays and organic silty clays of low plasticity
	SILTY AND CLAYS liquid limit greater than 50		MH		inorganic silty, micaceous or diatomacious fine sandy or silty soils, elastic silts
			CH		inorganic clays of high plasticity, fat clays
			OH		organic clays of medium to high plasticity organic silts
	HIGHLY ORGANIC SOILS		Pt		peat and other highly organic soils

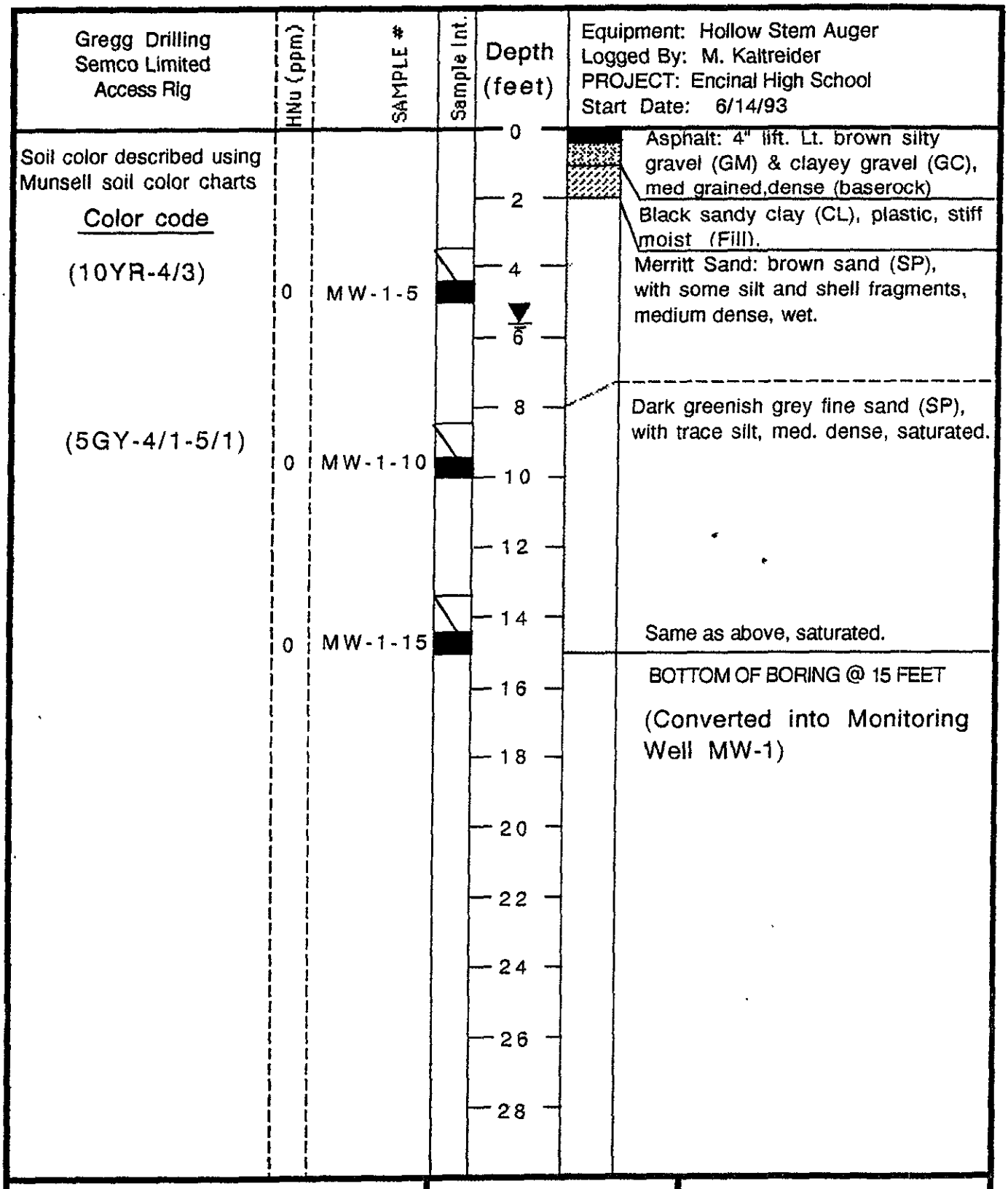
LEGEND FOR BORING LOGS



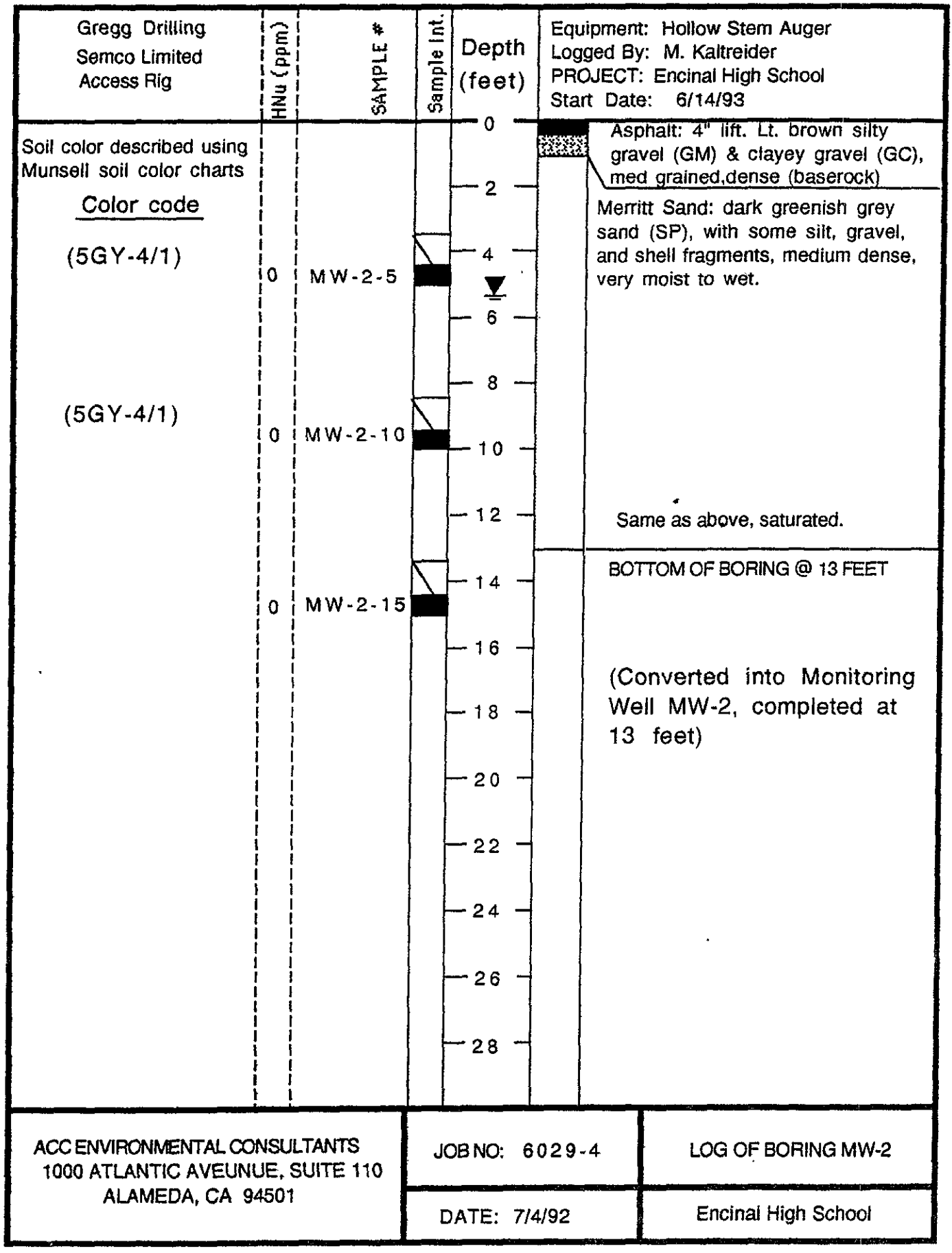
ACC ENVIRONMENTAL CONSULTANTS
1000 ATLANTIC AVENUE, SUITE 110
ALAMEDA, CA 94501

Soil Classification System

Project No. 6029-4	Date: 6/9/93	DRN: MCK	Encinal High School



ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501	JOB NO: 6029-4	LOG OF BORING MW-1
	DATE: 7/4/92	Encinal High School


Gregg Drilling
Semco Limited
Access Rig
HNu (ppm)
SAMPLE #
Sample Int.
Depth (feet)
Equipment: Hollow Stem Auger
Logged By: M. Kaltreider
PROJECT: Encinal High School
Start Date: 6/14/93
Soil color described using Munsell soil color charts
Color code
(5GY-4/1)
(5GY-4/1)
0
MW-2-5
0
MW-2-10
0
MW-2-15
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
Asphalt: 4" lift. Lt. brown silty gravel (GM) & clayey gravel (GC), med grained,dense (baserock)
Merritt Sand: dark greenish grey sand (SP), with some silt, gravel, and shell fragments, medium dense, very moist to wet.
Same as above, saturated.
BOTTOM OF BORING @ 13 FEET
(Converted into Monitoring Well MW-2, completed at 13 feet)
ACC ENVIRONMENTAL CONSULTANTS
1000 ATLANTIC AVEUNUE, SUITE 110
ALAMEDA, CA 94501
JOB NO: 6029-4
DATE: 7/4/92
LOG OF BORING MW-2
Encinal High School

Gregg Drilling
Semco Limited
Access Rig

Equipment: Hollow Stem Auger
Logged By: M. Kaltreider
PROJECT: Encinal High School
Start Date: 6/14/93

Soil color described using Munsell soil color charts

Color code

(5GY-4/1)

(5GY-4/1)

HNu (ppm)	SAMPLE #	Depth (feet)
		0
		2
0	MW-3-5	4
		6
		8
0	MW-3-10	10
		12
		14
0	MW-3-15	16
		18
		20
		22
		24
		26
		28

Asphalt: 4" lift. Lt. brown silty gravel (GM) & clayey gravel (GC), med grained,dense (baserock)

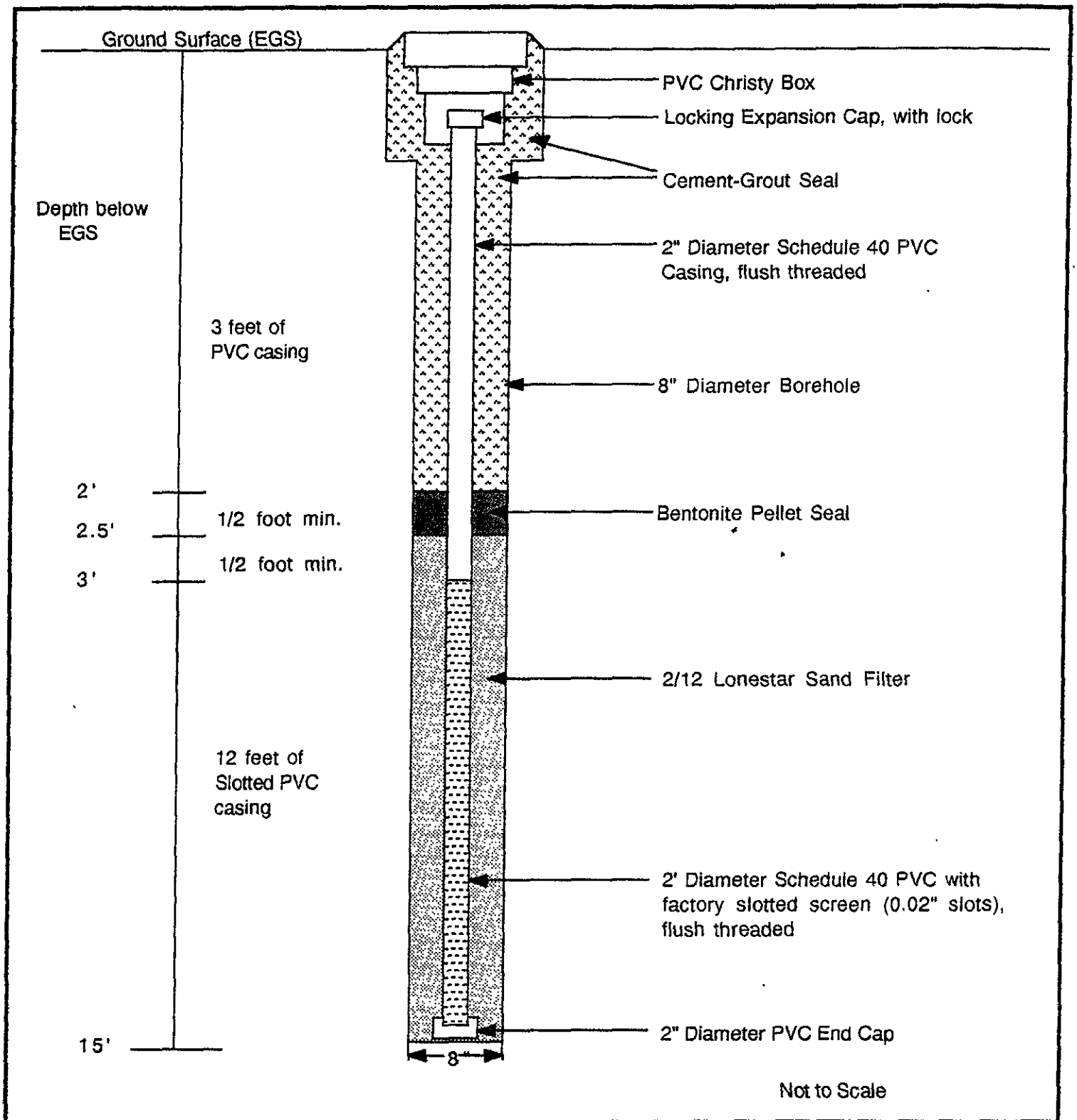
Merritt Sand: dark greenish grey sand (SP), with some silt, gravel, and shell fragments, medium dense, very moist to wet.

Same as above, with lenses of silt, saturated.

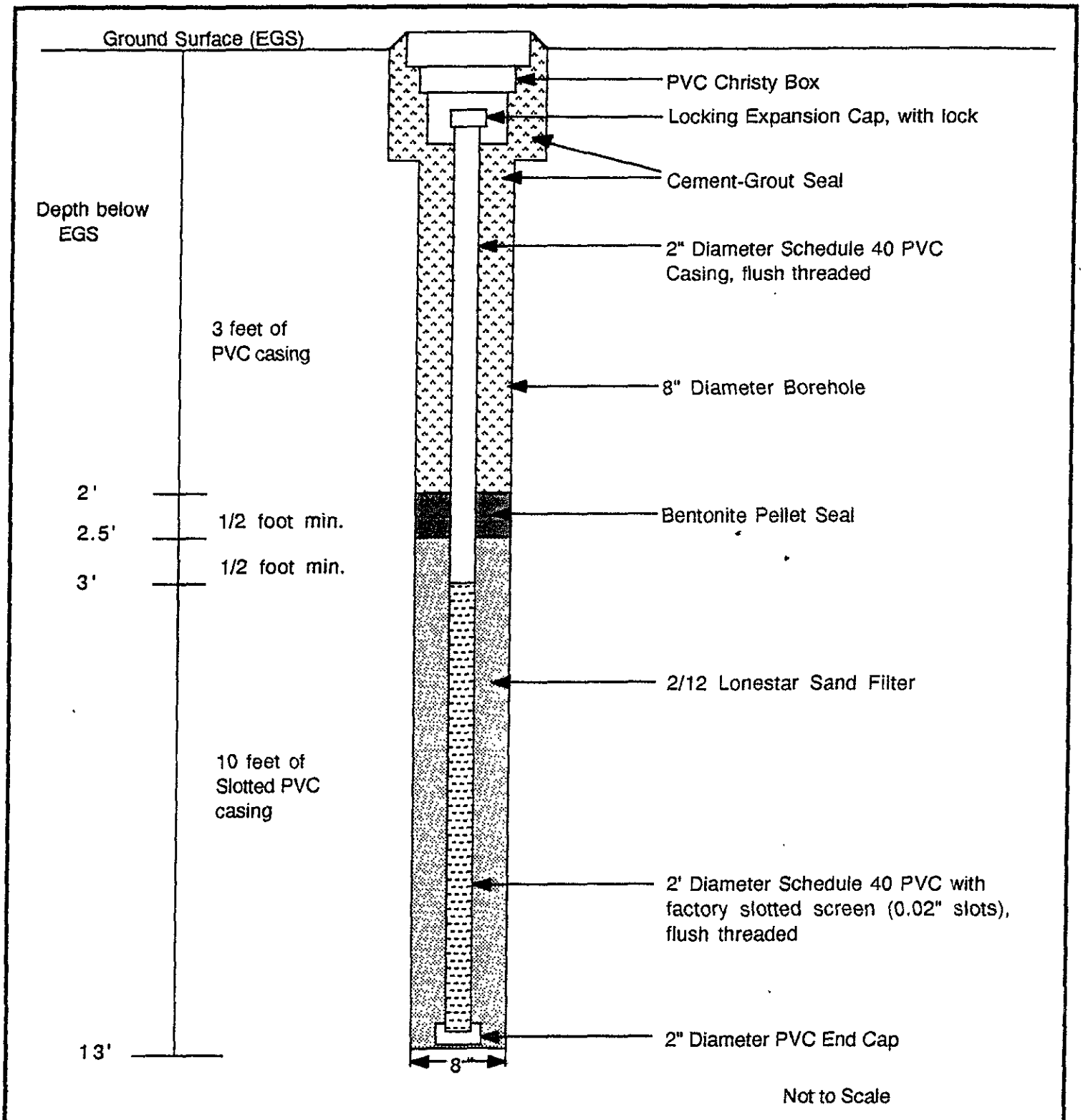
BOTTOM OF BORING @ 15 FEET

(Converted into Monitoring Well MW-3)

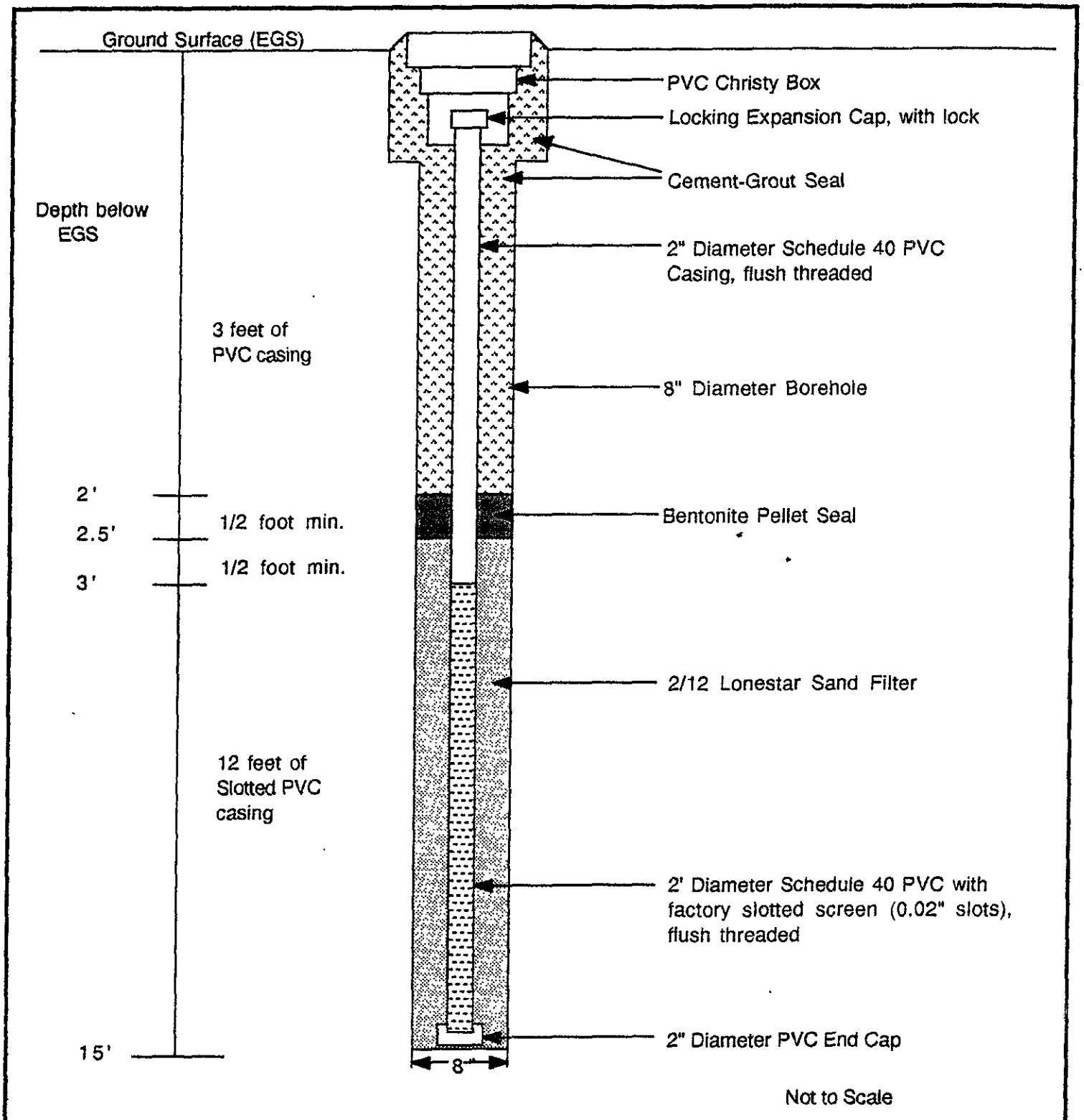
ACC ENVIRONMENTAL CONSULTANTS 1000 ATLANTIC AVEUNUE, SUITE 110 ALAMEDA, CA 94501	JOB NO: 6029-4	LOG OF BORING MW-3
	DATE: 7/4/92	Encinal High School



ACC Environmental Consultants 1000 Atlantic Avenue, Suite 110 Alameda, CA 94501	Job No.: 6029-4	Schematic of Monitoring Well No.: MW-1
	Date: 7/7/93	Encinal High School



ACC Environmental Consultants 1000 Atlantic Avenue, Suite 110 Alameda, CA 94501	Job No.: 6029-4	Schematic of Monitoring Well No.: MW-2
	Date: 7/7/93	Encinal High School



ACC Environmental Consultants 1000 Atlantic Avenue, Suite 110 Alameda, CA 94501	Job No.: 6029-4	Schematic of Monitoring Well No.: MW-3
	Date: 7/7/93	Encinal High School

APPENDIX C

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 22, 1993

ChromaLab File No.: 9306186
Submission #: 9306000186

ACC ENVIRONMENTAL CONSULTANTS

Attn: Misty Kaltreider

RE: Six soil samples for BTEX analysis

Date Sampled: June 14, 1993
Date Analyzed: June 18, 1993

Date Submitted: June 15, 1993

RESULTS:

Sample I.D.	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethyl Benzene (µg/Kg)	Total Xylenes (µg/Kg)
MW-1-5'	N.D.	N.D.	N.D.	N.D.
MW-1-10'	N.D.	N.D.	N.D.	N.D.
MW-2-5'	N.D.	N.D.	N.D.	N.D.
MW-2-10'	N.D.	N.D.	N.D.	N.D.
MW-3-5'	N.D.	N.D.	N.D.	N.D.
MW-3-10'	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	102%	101%	100%	102%
DUP SPIKE RECOVERY	104%	106%	103%	111%
DETECTION LIMIT	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS	8020	8020	8020	8020

ChromaLab, Inc.

Billy Thach
Analytical Chemist

Eric Tam
Laboratory Director

do

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 21, 1993 ChromaLab File No.: 9306186

ACC ENVIRONMENTAL CONSULTANTS

Attn: Misty Kaltreider

RE: Six soil samples for Diesel analysis

Date Sampled: June 14, 1993 Date Submitted: June 15, 1993
Date Extracted: June 18, 1993 Date Analyzed: June 18, 1993

RESULTS:

Sample I.D.	Diesel (mg/Kg)
MW-1-5'	N.D.
MW-1-10'	N.D.
MW-2-5'	N.D.
MW-2-10'	N.D.
MW-3-5'	N.D.
MW-3-10'	N.D.
BLANK	N.D.
SPIKE RECOVERY	110%
DUP SPIKE RECOVERY	96%
DETECTION LIMIT	1.0
METHOD OF ANALYSIS	3550/8015

ChromaLab, Inc.

Alex Tam
Analytical Chemist

Eric Tam
Laboratory Director

cc

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

SUBM #: 9306000186
CLIENT: ACCENV
DUE: 06/22/93

186/8535 order # 12097
8543

94583

DOHS 1094

Chain of Custody

DATE _____ PAGE _____ OF _____

PROJ. MGR. M. Kaltreider
COMPANY ACC Environmental
ADDRESS 1000 Atlantic, Sui 110
Atlantic Ave.

SAMPLERS (SIGNATURE) Misty Kaltreider

(PHONE NO.) 510-522-8188

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)		HOLD		NUMBER OF CONTAINERS
MW-1-5'	6/14/93		Soil				X	X																	1
MW-1-10'							X	X																	1
MW-1-15'																							X		1
MW-2-5'							X	X																	1
MW-2-10'							X	X																	1
MW-2-15'																							X		1
MW-3-5'							X	X																	1
MW-3-10'							X	X																	1
MW-3-15'																							X		1

PROJECT INFORMATION

PROJECT NAME: Encinal HS.
PROJECT NUMBER:
P.O.#

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	9
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

TAT: STANDARD 5-DAY | | | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3.
(SIGNATURE) Misty Kaltreider (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) Misty Kaltreider (DATE) 6/15/93	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) ACC Environmental	(COMPANY)	(COMPANY)
RECEIVED BY 1.	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3.**
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) 15:27 (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) B. Marou 6-15-93 (DATE)
(COMPANY)	(COMPANY)	(LAB) Chromelab

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

June 30, 1993

ChromaLab File No.: 9306328
Submission #: 9306000328

ACC ENVIRONMENTAL CONSULTANTS

Attn: Misty Kaltreider

RE: Three water samples for Diesel analysis

Project Name: ENCINAL HS.
Project Number: 6029-4
Date Sampled: June 25, 1993
Date Submitted: June 25, 1993
Date Extracted: June 29, 1993
Date Analyzed: June 29, 1993

RESULTS:

Sample I.D.	Diesel (µg/L)
MW-1	N.D.
MW-2	N.D.
MW-3	N.D.
BLANK	N.D.
SPIKE RECOVERY	90%
DUP SPIKE RECOVERY	91%
DETECTION LIMIT	50
METHOD OF ANALYSIS	3510/8015

ChromaLab, Inc.

Alex Tam
Analytical Chemist

Eric Tam
Laboratory Director

do

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

July 2, 1993 ChromaLab File No.: 9306328

ACC ENVIRONMENTAL CONSULTANTS

Attn: Misty Kaltreider

RE: Three water samples for BTEX analysis

Project Name: ENCINAL HS.
Project Number: 6029-4
Date Sampled: June 25, 1993 Date Submitted: June 25, 1993
Date Analyzed: June 30, 1993

RESULTS:

Sample I.D.	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
MW-1	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.
MW-3	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	100%	97%	94%	98%
DUP SPIKE RECOVERY	99%	98%	106%	104%
DETECTION LIMIT	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	602	602	602	602

ChromaLab, Inc.,

Eric Costa
Analytical Chemist

Eric Tam
Laboratory Director

cc

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

DOHS 1094

SUBM #: 9306000328
CLIENT: ACCENV
DUE: 07/02/93
REF: 12255

Order # 12255
328/9426-8

Chain of Custody

DATE 6/25/93 PAGE 1 OF 1

PROJ. MGR. Misty Kaltreider
COMPANY ACC Environmental
ADDRESS 1000 Atlantic Ave.
Alameda, CA 94501

SAMPLERS (SIGNATURE) Misty Kaltreider (PHONE NO.) (510) 522-8188

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
MW-1	6/25	10:10	Water				X	X																	3
MW-2	6/25/93	10:45	"				X	X																	3
MW-3	6/25/93	9:30	"				X	X																	3

PROJECT INFORMATION

PROJECT NAME: Encinal HS.
PROJECT NUMBER: 6029-4
P.O. # 6029-4
TAT: STANDARD 5-DAY | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS:

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	9
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

	1.	2.	3.
RELINQUISHED BY	Misty Kaltreider		
(SIGNATURE) (TIME)	Misty Kaltreider 6/25/93		
(PRINTED NAME) (DATE)	ACCENVironmental		
(COMPANY)			
RECEIVED BY			
(SIGNATURE) (TIME)			
(PRINTED NAME) (DATE)			
(COMPANY)			
RECEIVED BY (LABORATORY)			3.
(SIGNATURE) (TIME)			15:30
(PRINTED NAME) (DATE)			6/25/93
(LAB)			

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

October 1, 1993 ChromaLab File No.: 9309334

ACC ENVIRONMENTAL CONSULTANTS

Attn: Misty Kaltreider

RE: Three water samples for Diesel analysis

Project Name: ENCINAL H. S.
Project Number: 6029-3
Date Sampled: Sept. 23, 1993 Date Submitted: Sept. 24, 1993
Date Extracted: Sept. 29, 1993 Date Analyzed: Sept. 30, 1993

RESULTS:

Sample I.D.	Diesel (µg/L)
MW1	69
MW2	N.D.
MW3	N.D.
BLANK	N.D.
SPIKE RECOVERY	92%
DUP SPIKE RECOVERY	96%
DETECTION LIMIT	50
METHOD OF ANALYSIS	3510/8015

ChromaLab, Inc.

Alex Tam
Analytical Chemist

Eric Tam
Laboratory Director

cc

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

September 30, 1993 ChromaLab File No.: 9309334

ACC ENVIRONMENTAL CONSULTANTS

Attn: Misty Kaltreider

RE: Three water samples for BTEX analysis

Project Name: ENCINAL H. S.
Project Number: 6029-3
Date Sampled: Sept. 23, 1993 Date Submitted: Sept. 24, 1993
Date Analyzed: Sept. 28, 1993

RESULTS:

Sample I.D.	Benzene (µg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	Total Xylenes (µg/L)
MW-1	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.
MW-3	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.
SPIKE RECOVERY	96%	98%	97%	100%
DUP SPIKE RECOVERY	95%	94%	95%	97%
DETECTION LIMIT	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	602	602	602	602

ChromaLab, Inc.

Billy Thach
Analytical Chemist

Eric Tam
Laboratory Director

cc

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

DOHS 1094

SUBM #: 9309334
CLIENT: ACCENV
DUE: 10/01/93
22: REF: 13457

Order # 13457

Chain of Custody

DATE 9/24/93 PAGE 1 OF 1

PROJ. MGR. Misty Kaltreider
COMPANY ACC Environmental
ADDRESS 1000 Atlantic Ave.
Alameda, CA 94501

SAMPLERS (SIGNATURE) Misty Kaltreider (PHONE NO.) (510) 522-9188

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
MW-1	9/23/93		W				X	X																	3
MW-2	"		"				X	X																	3
MW-3	"		"				X	X																	3

PROJECT INFORMATION

PROJECT NAME: ENCINAL HS
PROJECT NUMBER: 6029-3
P.O. # 6029-3
TAT: (STANDARD 5-DAY) | 24 | 48 | 72 | OTHER

SPECIAL INSTRUCTIONS/COMMENTS:

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	9
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

	1.	2.	3.
RELINQUISHED BY	Misty Kaltreider		
(SIGNATURE) (TIME)	Misty Kaltreider 9/24/93		
(PRINTED NAME) (DATE)	ACC Environmental		
(COMPANY)			
RECEIVED BY			R. Morrow 12:20
(SIGNATURE) (TIME)			R. Morrow 9-24-93
(PRINTED NAME) (DATE)			Chromalab
(COMPANY)			(LAB)

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 17, 1994 ChromaLab File No.: 9401122

ACC ENVIRONMENTAL CONSULTANTS

Attn: Misty Kaltreider

RE: Three water samples for Diesel analysis

Project Name: ENCINAL H.S.
Project Number: 6029-5
Date Sampled: January 11, 1994 Date Submitted: January 12, 1994
Date Extracted: January 14, 1994 Date Analyzed: January 14, 1994

RESULTS:

Sample I.D.	Diesel (µg/L)
MW-1	N.D.
MW-2	N.D.
MW-3	N.D.
BLANK	N.D.
SPIKE RECOVERY	73%
DUP SPIKE RECOVERY	83%
DETECTION LIMIT	50
METHOD OF ANALYSIS	3510/8015

ChromaLab, Inc.

Alex Tam
Analytical Chemist

Eric Tam
Laboratory Director

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Laboratory (1094)

5 DAYS TURNAROUND

January 19, 1994 ChromaLab File#: 9401122

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: ENCINAL H.S. **Project#:** 6029-5
Submitted: January 12, 1994

re: 3 samples for BTEX analysis.

Matrix: WATER
Sampled on: January 11, 1994 *Analyzed on:* January 13, 1994
Method: EPA 602 *Run#:* 2034

Lab # SAMPLE ID	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
41332 MW-1	N.D.	N.D.	N.D.	N.D.
41333 MW-2	N.D.	N.D.	N.D.	N.D.
41334 MW-3	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS	0.5	0.5	0.5	0.5
BLANK	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY(%)	105	102	99	101

ChromaLab, Inc.

Jack Kelly
Chemist

Eric Tam
Laboratory Director

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

SUBM #: 9401122
CLIENT: ACC
DUE: 01/19/94
REF: 14762

order # 14762
122/41332 – 41334

CHROMALAB, INC.

DOHS 1094

Chain of Custody

DATE 1/11/94 PAGE 1 OF 1

PROJ. MGR. M. Kaltreider
COMPANY ACC Environmental
ADDRESS 1220 Atlantic Ave. Suite 110, Alameda, CA 94501
SAMPLERS (SIGNATURE) Misty A. Kaltreider
(PHONE NO.) (510) 522-8188

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
MW-1	1/11/94		W				X	X																	3
MW-2	"		"				X	X																	3
MW-3	"		"				X	X																	3

PROJECT INFORMATION

PROJECT NAME: Encinal HS
PROJECT NUMBER: 6029-5
P.O. #: 6029-5
TAT: (STANDARD 5-DAY) | 24 | 48 | 72 | OTHER

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	9
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY 1	RELINQUISHED BY 2.	RELINQUISHED BY 3
(SIGNATURE) Misty Kaltreider (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) Misty Kaltreider (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY) ACC Environmental	(COMPANY)	(COMPANY)
RECEIVED BY 1	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3**
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) 1430 (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	B. Morrow 1-12-94 (PRINTED NAME) (DATE)

CHROMALAB, INC.

Environmental Services (SDB)

April 14, 1994 ChromaLab File#: 9404128

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: ENCINAL H.S. **Project#:** 6039-4
Received: April 12, 1994

re: 3 samples for BTEX analysis.

Matrix: WATER
Sampled on: April 11, 1994 *Analyzed on:* April 13, 1994
Method: EPA 602 *Run#:* 2652

Lab #	SAMPLE ID	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
48786	MW1	N.D.	N.D.	N.D.	N.D.
48787	MW2	N.D.	N.D.	N.D.	N.D.
48788	MW3	N.D.	N.D.	N.D.	N.D.
	DETECTION LIMITS	0.5	0.5	0.5	0.5
	BLANK	N.D.	N.D.	N.D.	N.D.
	BLANK SPIKE RECOVERY(%)	117	120	120	120

ChromaLab, Inc.

Jack Kelly
Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798
Federal ID #68-0140157

LIMS

CHROMALAB, INC.

Environmental Services (SDB)

April 19, 1994 ChromaLab File No.: 9404128

ACC ENVIRONMENTAL CONSULTANTS

Attn: Misty Kaltreider

RE: Three water samples for Diesel analysis

Project Name: ENCINAL H.S.
Project Number: 6039-4
Date Sampled: April 11, 1994 Date Submitted: April 12, 1994
Date Extracted: April 18, 1994 Date Analyzed: April 18, 1994

RESULTS:

Sample I.D.	Diesel (µg/L)
MW-1	N.D.
MW-2	N.D.
MW-3	N.D.
BLANK	N.D.
BLANK SPIKE RECOVERY	100%
DETECTION LIMIT	125
METHOD OF ANALYSIS	3510/8015

ChromaLab, Inc.

Alex Tam
Analytical Chemist

Eric Tam
Laboratory Director

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798
Federal ID #68-0140157

Order # 15945
128/48786 - 48788

CHROMALAB, INC.

DOHS 1094

SUBM #: 9404128
CLIENT: ACC
DUE: 04/19/94
REF: 15945

Chain of Custody

DATE 4-11-94 PAGE 1 OF 1

PROJ. MGR. Misty Kaltwieder
COMPANY ACC Environmental Consulting
ADDRESS 1000 Atlantic Ave, 110 Suite
Alameda, CA 94501
SAMPLERS (SIGNATURE) (PHONE NO.)
Bret Culbert (510) 522-8188

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
MW1	4-11-94	4:00p	H_2O	Cold			X	X																	3
MW2	4-11-94	4:00 pm	H_2O	Cold			|	|																		3
MW3	4-11-94	4:00 pm	H_2O	Cold			|	|																		3

PROJECT INFORMATION

PROJECT NAME: Encinal H.S.
PROJECT NUMBER: 6039-4
P.O. #

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	9
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

TAT	STANDARD 5-DAY			24	48	72	OTHER

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY 1
Bret Culbert 4:00pm
(SIGNATURE) (TIME)
BRET CULBERT 4-11-94
(PRINTED NAME) (DATE)
ACC Environmental Consulting
(COMPANY)

RELINQUISHED BY 2
(SIGNATURE) (TIME)
(PRINTED NAME) (DATE)
(COMPANY)

RELINQUISHED BY 3.
(SIGNATURE) (TIME)
(PRINTED NAME) (DATE)
(COMPANY)

RECEIVED BY 1
(SIGNATURE) (TIME)
(PRINTED NAME) (DATE)
(COMPANY)

RECEIVED BY 2.
(SIGNATURE) (TIME)
(PRINTED NAME) (DATE)
(COMPANY)

RECEIVED BY (LABORATORY) 3.
B. Morrow 10-24
(SIGNATURE) (TIME)
B. Morrow 4/12/94
(PRINTED NAME) (DATE)
Chromalab
(LAB)

Well Sampling [✓] Well Development [ ] check one

Well Number: MW1

Job Number: 6029-4

Job Name: ENCINAL H.S.

Date: 4-11-94

Sampler: Bret Culbert

Depth to Water (measured from TOC): 5.59'

Inside Diameter of Casing: 2"

Depth of Boring: 15'

Method of well development/purging: Bail

Amount of Water Bailed/Pumped from well: 7.0

Depth to Water after well development:

Depth to water prior to sampling: 5.61

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? NEW

Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil		✓
smell		✓
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5	9.20	2.84	62.0
10	9.22	2.76	61.4
15	9.24	2.71	61.6
20	9.21	2.60	61.4
25	9.22	2.62	61.6
30	9.28	2.68	61.4
35	9.27	2.68	61.4
40			
45			
50			

Samples Obtained:

TPH (gasoline)	
TPH (diesel)	✓
TPH (motor oil)	
BTXE	✓
EPA 624	
EPA 625	
EPA 608	
PCBs only	
Metals	
Other, specify	
Field Blank	

Well Sampling [✓] Well Development [ ] check one

Well Number: MW2

Job Number: 6029-4

Job Name: Encinal H.S.

Date: 4.11.94

Sampler: Bret Culbert

Depth to Water (measured from TOC): 4.04'

Inside Diameter of Casing: 2"

Depth of Boring: 13

Method of well development/purging: Bail

Amount of Water Bailed/Pumped from well: 60

Depth to Water after well development: _____

Depth to water prior to sampling: 4.06'

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New

Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil		✓
smell		✓
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5	9.16	2.65	60.5
10	9.07	2.28	60.5
15	9.15	2.27	60.7
20	9.18	2.26	60.7
25	9.16	2.26	60.5
30			
35			
40			
45			
50			

Samples Obtained:

TPH (gasoline)	
TPH (diesel)	✓
TPH (motor oil)	
BTXE	✓
EPA 624	
EPA 625	
EPA 608	
PCBs only	
Metals	
Other, specify	
Field Blank	

Well Sampling [✓] Well Development [ ] check one

Well Number: MW3

Job Number: 6029-4

Job Name: Encina/ H.S.

Date: 4.11.94

Sampler: Bret Culbert

Depth to Water (measured from TOC): 5.16

Inside Diameter of Casing: 2"

Depth of Boring: 15

Method of well development/purging: Bail

Amount of Water Bailed/Pumped from well: 6.4

Depth to Water after well development:

Depth to water prior to sampling: 5.20

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New

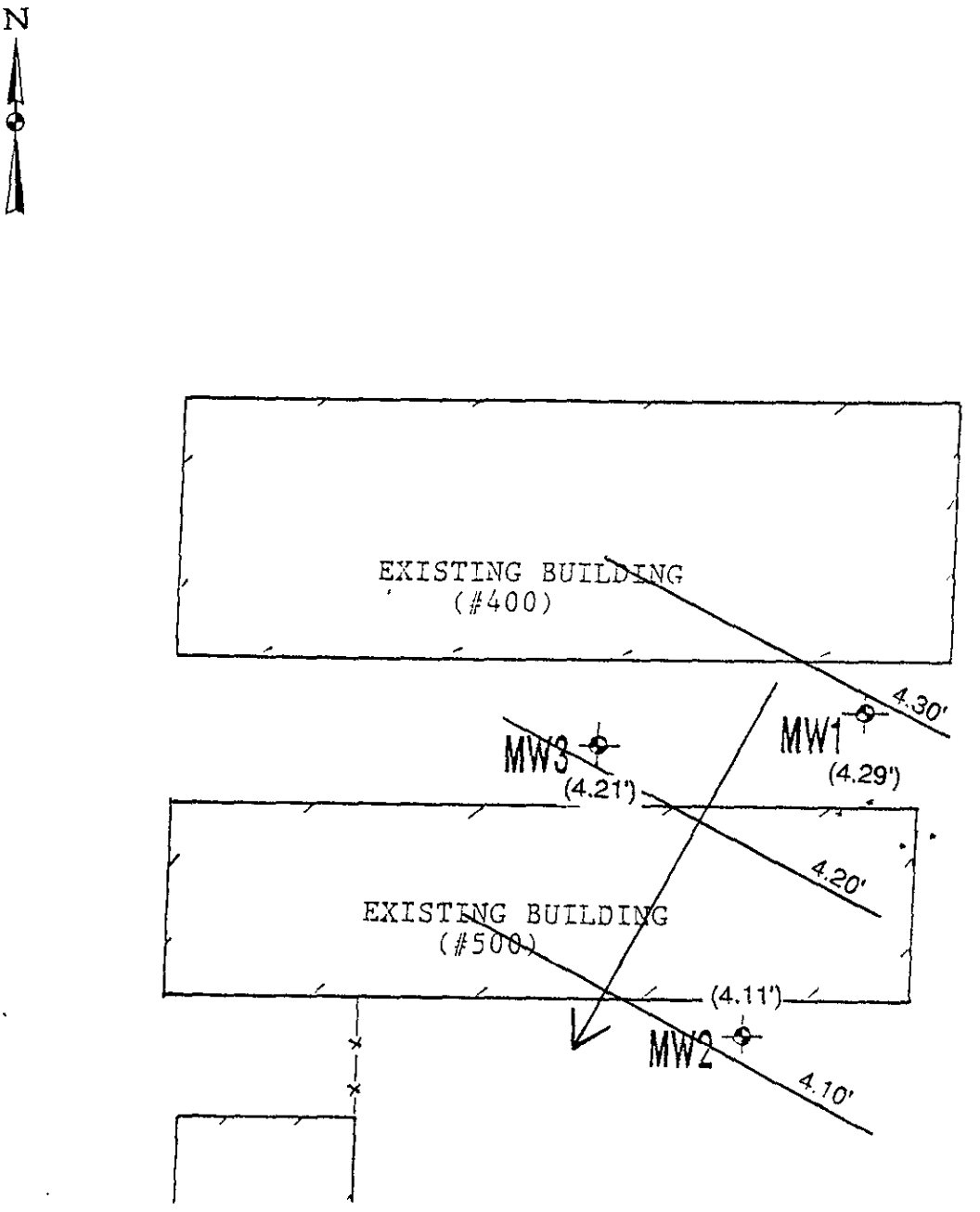
Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil		✓
smell		✓
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5	9.20	1.05	60.3
10	9.06	1.44	60.9
15	9.70	1.76	60.5
20	9.69	1.69	60.5
25	9.69	1.70	60.5
30			
35			
40			
45			
50			

Samples Obtained:

TPH (gasoline)	
TPH (diesel)	✓
TPH (motor oil)	
BTXE	✓
EPA 624	
EPA 625	
EPA 608	
PCBs only	
Metals	
Other, specify	
Field Blank	



Scale 1" = 30'

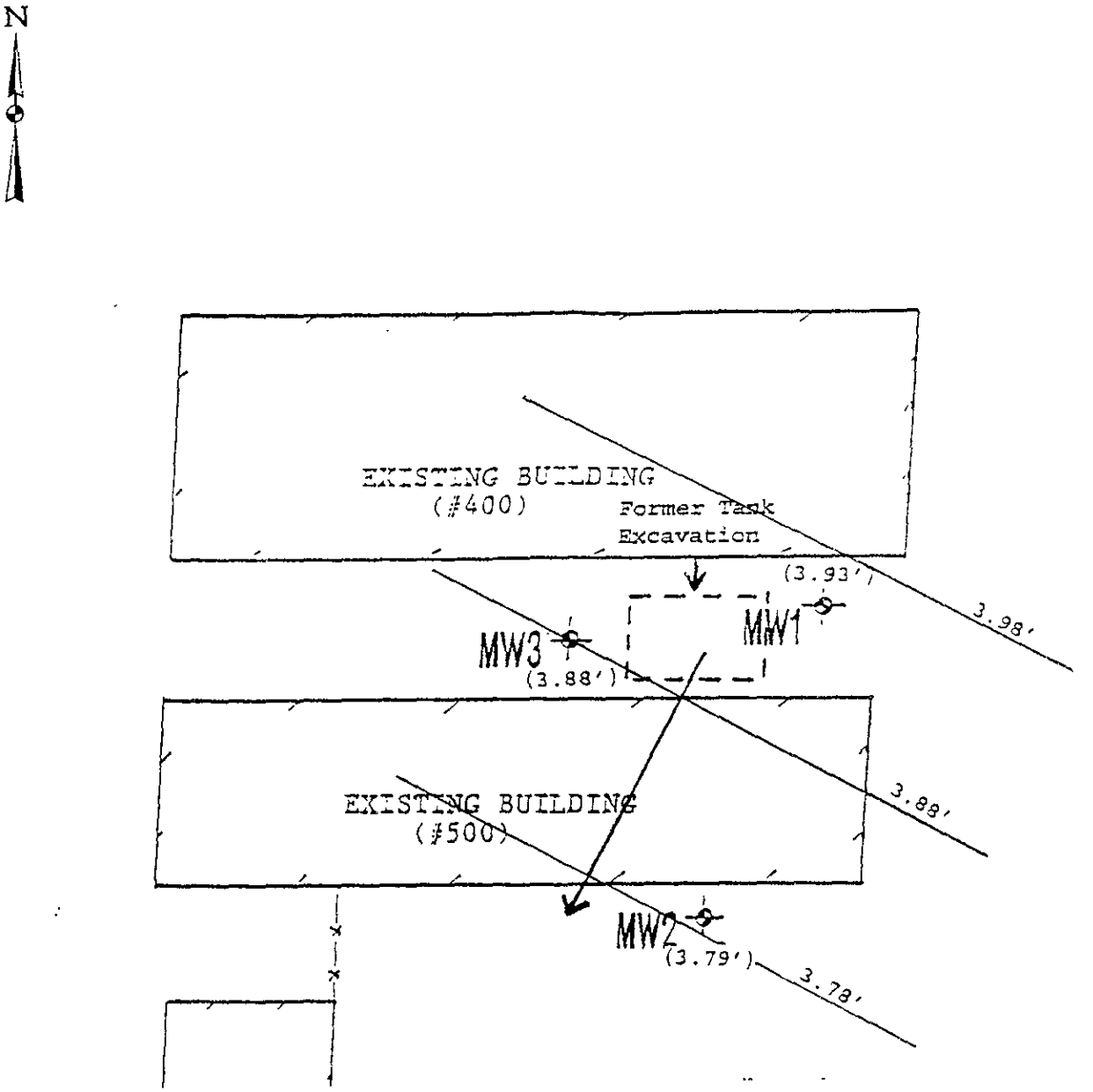
0 10 20 30

Elevations in Feet Above Mean Sea Level

Groundwater Gradient
Encinal High School
210 Central Ave.
Alameda, California

June 25, 1993	Drawn By: MCK	Project: 6029-5

ACC Environmental Consultants • 1000 Atlantic Avenue, Suite 110 • Alameda, CA 94501 • (510) 522-8188 Fax: (510) 865-5731



Scale 1" = 30'

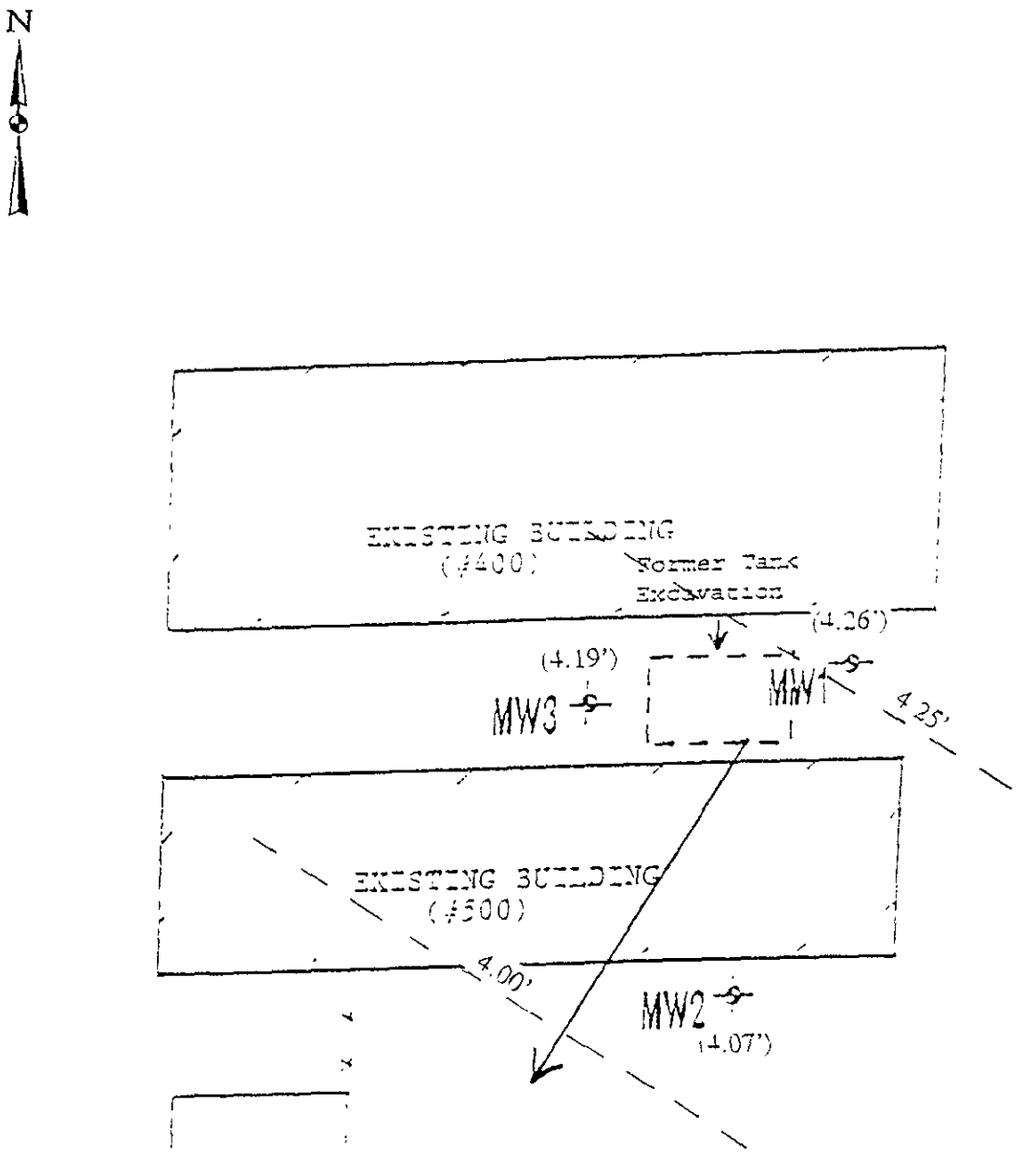
0 10 20 30

Elevations in Feet Above Mean Sea Level

Groundwater Gradient
Encinal High School
210 Central Ave.
Alameda, California

September 23, 1993	Drawn By: MCK	Project: 6029-5

ACC Environmental Consultants • 1000 Atlantic Avenue, Suite 110 • Alameda, CA 94501 • (510) 522-8188 Fax: (510) 865-5731



Scale 1" = 30'

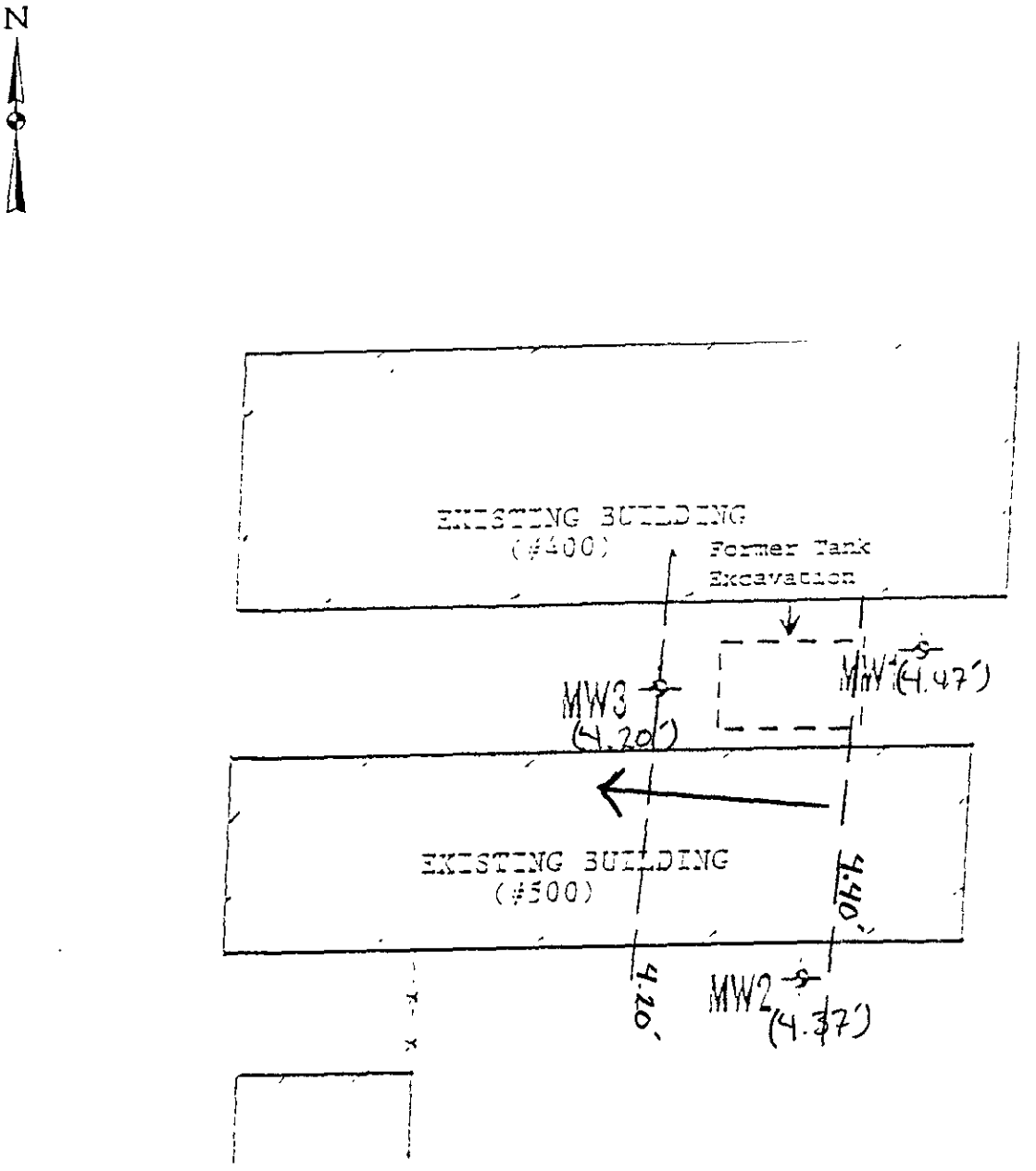
0 10 20 30

Elevations in Feet Above Mean Sea Level

Groundwater Gradient
Encinal High School
210 Central Ave.
Alameda, California

January 11, 1994	Drawn By: MCK	Project: 6029-5

ACC Environmental Consultants • 1000 Atlantic Avenue, Suite 110 • Alameda, CA 94501 • (510) 522-8188 Fax: (510) 865-5731



Scale 1" = 30'

0 10 20 30

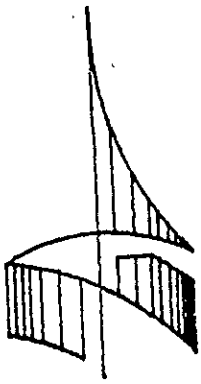
Elevations in Feet Above Mean Sea Level

Groundwater Gradient
Encinal High School
210 Central Ave.
Alameda, California

April 11, 1994	Drawn By: MCK	Project: 6029-5

ACC Environmental Consultants • 1000 Atlantic Avenue, Suite 110 • Alameda, CA 94501 • (510) 522-8188 Fax: (510) 865-5731

APPENDIX D



SCALE 1" = 30'

EXISTING BUILDING
(#400)

MW3

44.5

MW1

55.0

56.80

EXISTING BUILDING
(#500)

MW2

EXIST
BUILD

1" = 30'

0 15 30 60 90

Graphic Scale
In feet

PLAT SHOWING EXISTING MONITORING WELLS AT ENCINAL HIGH SCHOOL AROUND BLDG. 500, AT 210 CENTRAL AVE. AT LINCLN AVE., ALAMEDA, CA.

RON ARCHER
CIVIL ENGINEER, INC.
CONSULTING • PLANNING • DESIGN • SURVEYING
4133 Mohr Ave., Suite E • Pleasanton, CA 94566
(510) 462-9372

FOR: ACC	PROJ: 6029-4	DATE: JUNE 18, 1993	JOB NO. 2031

RON ARCHER
CIVIL ENGINEER, INC.
CONSULTING • PLANNING • DESIGN • SURVEYING

4133 Mohr Ave., Suite E • Pleasanton, CA 94566
(510) 462-9372

JUNE 16, 1993 JOB NO. 2031

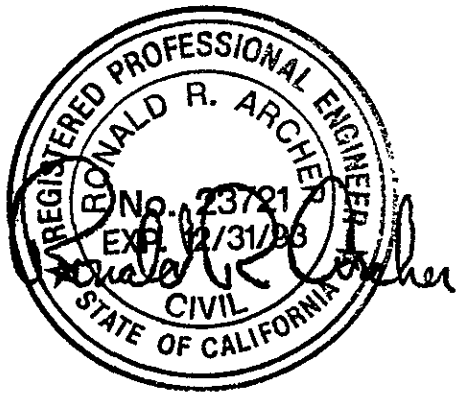
ELEVATIONS OF EXISTING MONITORING WELLS AT ENCINAL HIGH SCHOOL (AROUND BUILDING #500) LOCATED AT 210 CENTRAL AVENUE AT LINCOLN AVENUE, CITY OF ALAMEDA, ALAMEDA COUNTY, CALIFORNIA.

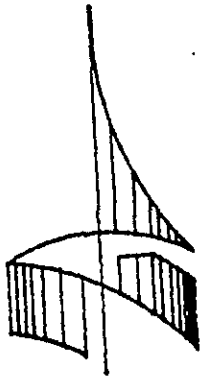
FOR: ACC ENVIRONMENTAL INC.
PROJECT NO. 6029-4

BENCHMARK:
TOP OF BRASS DISC SET IN STANDARD CONCRETE MONUMENT 50+/- WEST OF THE WEST CURB LINE OF LINCOLN AVENUE AT CENTERLINE OF CENTRAL AVENUE. ELEVATION TAKEN AS 8.191 M.S.L.

MONITOR WELL DATA TABLE

WELL NO.	ELEVATION	DESCRIPTION
MW1	10.06	TOP OF PVC CASING
	10.36	TOP OF BOX
MW2	8.41	TOP OF PVC CASING
	8.70	TOP OF BOX
MW3	9.55	TOP OF PVC CASING
	9.77	TOP OF BOX





SCALE 1" = 30'

REGISTERED PROFESSIONAL ENGINEER
RONALD R. ARCHER
No. 23721
EXP. 12/31/93
CIVIL
STATE OF CALIFORNIA

EXISTING BUILDING
(#400)

MW3

MW1

EXISTING BUILDING
(#500)

MW2

EXIST
BUILD

1" = 30'

0 15 30 60 90

Graphic Scale
In feet

PLAT SHOWING EXISTING MONITORING WELLS AT ENCINAL HIGH SCHOOL AROUND BLDG. 500, AT 210 CENTRAL AVE. AT LINCLN AVE., ALAMEDA, CA.

RON ARCHER
CIVIL ENGINEER, INC.
CONSULTING • PLANNING • DESIGN • SURVEYING
4133 Mohr Ave., Suite E • Pleasanton, CA 94566
(510) 462-9372

FOR: ACC	PROJ: 6029-4	DATE: JUNE 18, 1993	JOB NO. 2031

Well Sampling [✓] Well Development [ ] check one

Well Number: MW1

Job Number: 6029-4

Job Name: ENCINAL H.S.

Date: 4-11-94

Sampler: Bret Culbert

Depth to Water (measured from TOC): 5.59'

Inside Diameter of Casing: 2"

Depth of Boring: 15'

Method of well development/purging: Bail

Amount of Water Bailed/Pumped from well: 7.0

Depth to Water after well development:

Depth to water prior to sampling: 5 61

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? NEW

Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil		✓
smell		✓
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5	9.20	2.84	62.0
10	9.22	2.76	61.4
15	9.24	2.72	61.8
20	9.24	2.60	61.4
25	9.22	2.62	61.6
30	9.28	2.68	61.4
35	9.27	2.68	61.4
40			
45			
50			

Samples Obtained:

TPH (gasoline)	
TPH (diesel)	✓
TPH (motor oil)	
BTXE	✓
EPA 624	
EPA 625	
EPA 608	
PCBs only	
Metals	
Other, specify	
Field Blank	

Well Sampling [✓] Well Development [ ] check one

Well Number: MW2

Job Number: 6029-4

Job Name: Encinal H.S.

Date: 4.11.94

Sampler: Bret Culbert

Depth to Water (measured from TOC): 4.04'

Inside Diameter of Casing: 2"

Depth of Boring: 13

Method of well development/purging: Bail

Amount of Water Bailed/Pumped from well: 60

Depth to Water after well development: _____

Depth to water prior to sampling: 4.06'

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? new

Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil		✓
smell		✓
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5	9.16	2.65	60.5
10	9.07	2.28	60.5
15	9.15	2.27	60.7
20	9.16	2.26	60.7
25	9.16	2.26	60.5
30			
35			
40			
45			
50			

Samples Obtained:

TPH (gasoline)	
TPH (diesel)	✓
TPH (motor oil)	
BTXE	✓
EPA 624	
EPA 625	
EPA 608	
PCBs only	
Metals	
Other, specify	
Field Blank	

Well Sampling [✓] Well Development [ ] check one

Well Number: MW3

Job Number: 6029-4

Job Name: Encinal H.S.

Date: 4-11-94

Sampler: Bret Culbert

Depth to Water (measured from TOC): 5.16

Inside Diameter of Casing: 2"

Depth of Boring: 15

Method of well development/purging: Bail

Amount of Water Bailed/Pumped from well: 6.4

Depth to Water after well development:

Depth to water prior to sampling: 5.20

Bailed water stored on-site ? How ? Drums

Number of well volumes removed: 4

TSP wash, distilled rinse, new rope ? New

Water Appearance:

	yes	no
froth		✓
irridesence		✓
oil		✓
smell		✓
product		✓
other, describe		✓

Gallons Removed	pH	EC	Temp
5	9.20	1.05	60.2
10	9.06	1.44	60.9
15	9.70	1.76	60.5
20	9.69	1.69	60.5
25	9.69	1.70	60.5
30			
35			
40			
45			
50			

Samples Obtained:

TPH (gasoline)	
TPH (diesel)	✓
TPH (motor oil)	
BTXE	✓
EPA 624	
EPA 625	
EPA 608	
PCBs only	
Metals	
Other, specify	
Field Blank	

APPENDIX E

WELL INVENTORY LIST

Well No.	Well Owner	Well Address	install Date	Total Depth	Well Use	Diam	Depth to H20
2S/4W 10A1	John Cavallo	462 Buena Vista	1935	23	irr	5	4
2S/4W 10A2	G.S. Stagnaro	441 Pacific & 5th	1906	315	irr	6	71
2S/4W 10B1	Idella McManus	134 Haight Ave.	1977	35	irr	4	7
2S/4W 10C1	Naval Air Station	Main St. & K Ave.	1987	66	mon	4	-
2S/4W 10C1	Naval Air Station	11th & L	1991	14	mon	2	7
2S/4W 10E1	Naval Air Station	L Ave. & 8th	1987	100	mon	4	-
2S/4W 10F1	Naval Air Station	11th St. & K Ave.	1987	63	mon	6	-
2S/4W 10F2	Naval Air Station	11th St. & K Ave.	1987	20	obs	2	-
2S/4W 10F3	Naval Air Station	11th St. & K Ave.	1987	20	obs	2	-
2S/4W 10F4	Naval Air Station	L Ave & 11th St.	1987	60	mon	4	-
2S/4W 10F5	Naval Air Station	Main Street	1987	67	mon	4	-
2S/4W 10F6	Naval Air Station	M Ave. & 10th St	1987	115	mon	4	-
2S/4W 10F7	Naval Air Station	K Ave & 10th Street	1989	14	test	2	6
2S/4W 10G1	James Golightly	314 Santa Clara Ave.	1977	32	irr	8	9
2S/4W 10G2	Ala Unif School	210 Central Ave.	1993	15	mon	2	6
2S/4W 10G3	Ala Unif School	210 Central Ave.	1993	13	mon	2	4
2S/4W 10G4	Ala Unif School	210 Central Ave.	1993	15	mon	2	5
2S/4W 10H1	A. Bryant	447 Taylor Ave.	1977	36	irr	8	9
2S/4W 10H2	Richard Faucett	427 Santa Clara Ave.	1977	30	irr	-	5
2S/4W 10H3	PG&E	462 Santa Clara Ave.	1976	120	cat	-	-
2S/4W 10J1	Richard Ruth	1417 5th Street	1977	45	irr	-	18
2S/4W 10J2	Ballena Marina	1150 Ballena Blv.	1992	15	mon	2	7
2S/4W 10J3	Ballena Marina	1150 Ballena Blv.	1992	15	mon	2	7
2S/4W 10J4	Ballena Marina	1150 Ballena Blv.	1992	15	mon	2	7
2S/4W 10M1	Jerry Killingstad	N & M Avenues	1974	-	geo	-	-