ALISTO ENGINEERING GROUP

June 28, 1999

Mr. Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

10-479-01-001

Subject: Health and Safety Plan for Field Activities
6301 San Pablo Avenue
Oakland, California

Dear Mr. Chan:

On behalf of Ms. Connie Lam, Alisto Engineering Group is pleased to submit the information requested in your letter of May 5, 1999 to address your concerns regarding construction activities at 6301 San Pablo Avenue, Oakland, California.

1. *Provide a Health and Safety Plan for Construction Workers*

   A Health and Safety Plan is attached for your review.

2. *Provide a Soil and Groundwater Management Plan for Proper Storage and Disposal*

   On June 22, 1999, soil samples were collected from the stockpile soil and composited in the laboratory for analysis of the following:

   - Total petroleum hydrocarbons as gasoline using EPA Method 8015
   - Benzene, toluene, ethylbenzene, and total xylenes using EPA Method 8020
   - Total lead using EPA Method 6010

   S1-S4 large pile

   Soil samples were collected from at least 2 feet into the stockpile. Soil Samples ~~S-5~~ S-1 through S-8 were collected after approximately 5 feet of soil was scraped off the top of the pile. The eight discrete samples were collected for compositing into 2 samples for analysis from the approximately 225 cubic yards of soil currently stored onsite.

   need 2 piles: 30x30x 15' 30x30 x 7'

   Analysis of the stockpiled soil did not detect petroleum hydrocarbons above the reported detection limits. Total lead was detected at concentrations of 8.2 and 11.2 milligrams per kilogram. A copy of the analytical report is attached.

   Based on the results of stockpiled soil sample analysis, it is apparent that it is appropriate to use the stockpiled soil as backfill during future grading activities at the site.

Concrete pit

1575 TREAT BOULEVARD, SUITE 201 • WALNUT CREEK, CA 94598 • (925) 295-1650 • FAX (925) 295-1823
CONTRACTORS LICENSE NO. A-652544

3. *Provide the Proper Closure of Any Affected Monitoring Wells*

   On June 25, 1999, Monitoring Well MW-1 was abandoned by a licensed drilling company by pressure grouting. A report documenting the destruction of Monitoring Well MW-1, which was within the footing of the proposed building, is attached.

4. *Provide a Health Risk Evaluation for Current and Future Exposed Populations*

   It is our understanding that all excavation activities at the site have been completed. As such, and in accordance with our telephone conversation of June 14, 1999, a health risk evaluation to for construction workers is not warranted and need not be submitted.

5. *Include a Blueprint of Proposed Construction*

   A blueprint of the proposed building is attached for your review.

Please call if you have questions or need additional information.

Sincerely,

ALISTO ENGINEERING GROUP

Brady Nagle
Project Manager

Attachments

Attachment 1: Health and Safety Plan
Attachment 2: Analytical Results of Stockpiled Soil Sample Analysis
Attachment 3: Well Destruction Report
Attachment 4: Plans of Proposed Oil Change Station

Cc: Ms. Connie Lam

ATTACHMENT 1

HEALTH AND SAFETY PLAN

HEALTH AND SAFETY PLAN

6301 San Pablo Avenue
Oakland, California

Project No. 10-479-01-001

Prepared for:

Ms. Connie Lam
200 Dorado Terrace
San Francisco, California

Prepared by:

Alisto Engineering Group
1575 Treat Boulevard, Suite 201
Walnut Creek, California

June 28, 1999

Brady Nagle
Project Manager

Al Sevilla, P.E.
Principal

REGISTERED PROFESSIONAL ENGINEER
ALBERTO SANCHEZ SEVILLA
26392
Exp. Date 3/31/00
CIVIL
STATE OF CALIFORNIA

1.0 INTRODUCTION

This health and safety plan (HASP), designed to address safety provisions during field activities, provides procedures to protect onsite personnel from physical and chemical hazards resulting from soil excavation, soil stockpile sampling, soil transport and disposal, and groundwater monitoring well destruction. The HASP establishes personnel responsibilities, general safe work practices and field procedures, personal protective equipment (PPE) standards, decontamination procedures, and emergency action plans.

This HASP conforms with health and safety requirements promulgated by the United States Occupational Safety and Health Administration (OSHA) and California Occupational Safety and Health Administration (Cal-OSHA). Alisto Engineering Group will conduct the proposed scope of work at the above property following the procedures set forth in this HASP.

2.0 RESPONSIBILITIES OF KEY PERSONNEL

Onsite personnel will have assigned responsibilities. The project manager, assigned to supervise field work, will serve as the site safety officer (SSO). The SSO or a designated alternative will ensure that all personnel have received a copy of the HASP. The SSO will be ensure that personnel understand and comply with the HASP. Additionally, the SSO will be responsible for initiating emergency response procedures, if necessary.

Before the work begins, the SSO will conduct a site-specific training session to ensure that personnel are aware of potential physical and chemical hazards and safe work practices.

Personnel must initially complete a 40-hour hazardous materials training course as required by Code of Federal Regulations (CFR) 1910.120. Thereafter, they are required to complete an 8-hour hazardous materials refresher course annually. Additionally, personnel will be required to document their full understanding of this HASP before admission to the site. Compliance with the HASP will be monitored at all times by the SSO. Appropriate PPE, listed in Section 7.0, will be available and used by onsite personnel.

Personnel will take reasonable precautions to avoid unforeseen hazards. They will be held responsible to perform only those tasks for which they are qualified. Each person will be responsible for strict adherence to all procedures described in the HASP. Any deviation will be reported to the SSO and corrected.

3.0 STANDARD OPERATING PROCEDURES

Onsite personnel will be briefed each day in "tail-gate" meetings as to the day's goals and equipment to be used. Anticipated contaminants, physical hazards, and emergency procedures will be reviewed. Appropriate PPE will be worn and verified correct by the SSO, including respirator fit. Health and safety procedures will be discussed.

A qualified drilling contractor will deliver and operate equipment. Only qualified personnel will have contact with this equipment. All personnel, including the drilling contractor and his employees, will be required to wear hard hats and steel-toed boots when close to drilling

equipment. Additionally, safety glasses with side shields or goggles and hearing protection may be required. Nitrile or neoprene gloves will be worn by personnel collecting or handling samples, to prevent exposure to contaminants. Gloves will be changed between samples, and used ones discarded, to avoid cross-contamination.

Respiratory equipment will be worn if vapor contamination levels exceed action levels. No onsite smoking, open flame, or sparks will be permitted, to prevent accidental ignition. All personnel will adhere to safety procedures and requirements.

4.0 JOB HAZARD ANALYSIS

Physical and chemical hazards which may be encountered onsite include those associated with operating mechanical equipment and dealing with potentially hazardous chemicals.

4.1 Physical Hazard Assessment

Physical hazards which may be encountered during drilling, excavation, site restoration, and system maintenance include the following:

1. Injury or limb amputation from falling objects, moving machinery, or equipment placed in a walk area.

2. Explosion and fires resulting from punctured natural gas pipelines or combustion of flammable/combustible liquids.

3. Electrocution from buried or overhead power lines.

4. Explosion in trenches or excavations containing flammable/combustible chemicals.

5. Asphyxiation or toxic inhalation resulting from entering confined spaces containing less than 19.5 percent or more than 25 percent oxygen or containing hazardous chemicals.

6. Hearing loss resulting from noise generated during operation of heavy equipment.

7. Heat stress associated with hot weather and/or use of PPE.

4.2 Chemical Hazard Assessment

Hazardous chemicals which may be encountered onsite include fuel hydrocarbons; benzene, toluene, ethylbenzene, and total xylenes (BTEX). These chemicals are volatile, flammable, and moderately to extremely toxic. They present a possible inhalation, absorption, and ingestion hazard. They may damage an unprotected individual's liver, kidneys, central nervous system, and bone marrow. Benzene is a known human carcinogen and ethylbenzene in vapor and liquid form is a skin irritant.

OSHA and the American Conference of Governmental Industrial Hygienists (ACGIH) have established exposure limits for these chemicals. Threshold limit value (TLV) is the exposure limit determined by ACGIH to which a person may be repeatedly exposed without adverse effects.

The permissible exposure limit (PEL) is the maximum permitted 8-hour time-weighted average (TWA) of airborne contaminant that a person may be exposed to. The short-term exposure limit (STEL) is a 15-minute TWA exposure which is not to be exceeded at any time during a workday even if the 8-hour TWA is below the PEL. The ceiling limit (CL) is the maximum concentration of an airborne contaminant to which a person may be exposed at any time.

PEL, STEL, and CL are measured in ppm and/or milligrams per meter cubed (mg/m^3). Exposure limits established by OSHA and ACGIH for contaminants which may become airborne at this site are listed in the following table. Values are from OSHA unless otherwise noted. For purposes of health and safety, the strictest established exposure limit will be used.

Compound	TLV (ppm)	PEL (ppm)	STEL (ppm)	CL (ppm)
Benzene	1.0	5.0	0.10 *	1.0 *
Ethylbenzene	100	100	125	
Toluene	100	150	100	500
Total Xylenes	100	150	100	300

*Values specified by ACGIH.

5.0 SITE MONITORING

Physical and chemical hazards must be monitored at the site to ensure that employees are not exposed to hazardous situations. Monitoring will be performed during this project as described below.

5.1 Monitoring of Physical Hazards

Exposure to excessive heat, noise, and hazardous work conditions will be monitored throughout the project. Personnel entering areas where people cannot carry on a normal conversation will be required to wear hearing protection. If heat stress is anticipated due to hot weather or use of PPE, personnel will be monitored by the HASP and provided beverages, shaded rest areas, and breaks.

Work area safety inspections will be conducted by the SSO on a daily basis before start of work and as conditions change. Hazardous conditions reported to or observed by the SSO will be corrected immediately.

5.2 Exposure Monitoring Plan

Fire, explosive, and toxic inhalation hazards will be evaluated throughout the project. A direct-reading combustible gas indicator (CGI) or organic vapor meter (OVM) will be used to evaluate possible formation of flammable atmospheres in the work area. Continuous flammability measurements will be taken at the top of the boring near the work crew throughout

well installation. Periodic measurements will be taken from soil piles, excavations, and confined areas where flammable/combustible vapors may accumulate. Work will be suspended if combustible readings exceed 10 percent of the lower explosive limit (LEL).

6.0 SAFETY PRACTICES AND PRECAUTIONS

Simple precautions will reduce or eliminate physical and chemical hazards associated with drilling, excavation, site restoration, and system maintenance. Precautions include using qualified and trained personnel; ensuring compliance with the HASP; ensuring proper engineering controls; good housekeeping procedures; using PPE; and familiarity with emergency response procedures.

To prevent injury from moving machinery, automobiles, fires, or other physical hazards, the following procedures will be implemented:

1. Keep drill rig and mast at least 50 feet away from overhead electrical power lines.

2. Identify underground utilities before work begins. Shut down, lock out, and tag power lines and pipelines as appropriate, particularly power supply and emergency "shutoffs" for dispenser pumps and associated delivery lines.

3. Bond and ground drilling and excavation equipment during all operations. Bond and ground handling and transportation equipment during loading of soils and pumping and transfer of leachate.

4. Maintain equipment in proper working order and inspect before each use.

5. Use spark-resistant tools in areas where an ignition source could start a fire.

6. Clean up spills or deposits of oil or flammable, combustible, or hazardous liquids.

7. Water down, if necessary, working areas, excavated material, and unpaved roadways during excavation, handling, stockpiling, and backfilling, to minimize dust.

8. Remove or properly contain waste materials daily. Store excavated materials in closed-top barrels or roll-off bins located onsite to prevent any volatile organic compounds (VOCs) from escaping into the atmosphere.

9. Remove materials which may fuel a fire or impede regress of a fire from work area.

10. Keep access to the fire extinguisher clear. Use fire extinguishers on equipment or small fires only.

11. Maintain an adequately-stocked first-aid kit onsite at all times.

12. Keep the work area clean and free of obstacles.

13. Use a "buddy system" in areas of high automobile traffic.

14. Wear ear plugs in areas of high noise (whenever noise makes it difficult for a normal conversation to be carried on).

15. Do not use drugs or alcohol during response operations.

The following procedures must be followed when working with or around hazardous materials or soils which may be contaminated with hazardous chemicals:

1. Do not smoke, eat, drink, or engage in any other activity which would increase hand- to-mouth contact.

2. Wear respiratory protective equipment and clothing as deemed necessary by the SSO. Do not wear a respirator over facial hair as this prevents a proper seal.

3. Do not walk, sit, lean, or kneel in puddles, leachate, or discolored surfaces.

4. Wash hands and face when leaving the work area.

5. Wash the entire body if decontamination procedures are in effect for outer garments.

6. Clean, sanitize, inspect, and maintain respirators after each use.

7. Establish work areas including the hot (contaminated) zone, decontamination zone, and safe zone, as necessary. Minimize personnel and equipment in the hot zone.

8. Establish procedures for exiting the hot zone before beginning onsite activities.

7.0 PPE

PPE may be required to safely perform onsite work. Onsite personnel will have access to respirators with organic vapor cartridges. Replacement cartridges will be available onsite as needed. When handling samples, the geologist will wear nitrile or neoprene gloves. Personnel will wear hard hats and steel-toed boots when in the proximity of drilling equipment.

PPE required for this project includes:

1. Half-face air purifying respirator with organic vapor cartridges and dust/mist filters

2. Hard hat

3. Steel-toed boots or chemically-resistant booties

4. Safety glasses with side-shields or safety goggles

5. Nitrile or Neoprene gloves

6. Ear plugs or muffs

7. Coveralls or other suitable work clothing

8.0 WORK ZONES AND SECURITY MEASURES

Access to the site will be restricted to authorized personnel. Barricades and/or traffic cones will be placed to form a barricade at least 20 feet away from and surrounding the site during drilling operations. The SSO will be responsible for site security.

9.0 DECONTAMINATION MEASURES

The best method for protection is to avoid contamination. To achieve this, comply with the safety precautions discussed in Section 6.0. Drilling and sampling equipment will be decontaminated by steam cleaning before being brought onsite. Sampling equipment will be decontaminated before each sample is collected and drilling equipment will be decontaminated before each boring is drilled. The project geologist will oversee operations and log borings in consultation with drillers. He or she will also ensure that proper protocol is used when collecting and handling samples.

10.0 TRAINING

The SSO will conduct a pre-job training session to discuss all points of the HASP. The SSO will ensure that everyone fully understands site hazards before work begins. Onsite personnel will be trained in the following:

1. Anticipated hazards

2. Safety practices to be followed

3. PPE

4. Emergency procedures and location of posted phone numbers

Personnel must initially complete a 40-hour hazardous materials training course as required by CFR 1910.120. Thereafter, personnel are required to annually complete an 8-hour hazardous materials refresher course. Use of respirators must be in accordance with the written respiratory protection program. Personnel must be properly trained and fit-tested for the respirator worn.

11.0 MEDICAL SURVEILLANCE

According to CFR 29, 1910.120, paragraph (f), employees who wear respirators 30 days or more during 1 year or who have been exposed to hazardous substances or health hazards above established PELs are required to be medically monitored. Although airborne contamination levels are anticipated below permissible PELs, respirators fitted with organic vapor cartridges

should be worn when a petroleum hydrocarbon odor is present. Consequently, personnel must participate in a medical surveillance program.

12.0 RECORDKEEPING

Documentation will be kept on all personnel exposed to contaminant hazards on the job site according to OSHA regulations. This will include documentation that employees have received training on the HASP, respiratory protection, MSDS forms, and all emergency procedures. These will be reviewed during the pre-site training meeting.

Exposure records on each job will be kept for 30 years to meet regulatory requirements. Included will be names and social security numbers of employees, medical evaluations, on-the-job logs from entry to exit, first aid administered, visits onsite by non-employees, and personal air monitoring records.

13.0 EMERGENCY RESPONSE AND CONTINGENCY PLAN

In the event of accident, injury, fire, explosion, or other emergency, the project geologist, SSO, or designated representative will be responsible for coordinating emergency response activities. The responsible person will call: 911; the hospital during a medical emergency; and the appropriate agencies. During an emergency, the following steps will be implemented:

1. The SSO will verbally notify onsite personnel of the emergency and direct personnel to perform any required duties, including shutdown of site utilities, if necessary.

2. If the emergency cannot be readily contained, extinguished, or controlled by onsite personnel, the SSO will call 911 and inform them of the location and details of the emergency situation.

3. If evacuation is necessary, personnel will meet at the southern end of the site near the intersection of N. Main Street and Adobe Road.

4. The SSO will notify the project manager and principal, if necessary.

5. The SSO and the project manager, will decide when to resume operations after an incident has been controlled.

13.1 Flammable Atmosphere

In the event that CGI or OVM readings on site exceed 10 percent LEL, work will be suspended, monitoring will be continued, the area will be isolated, and some or all of the following engineering controls will be implemented:

1. Contaminated soils will be sprayed down, if necessary, with deodorizing chemicals to reduce vaporization of volatile organic compounds or permeation of other gases.

2. Vapors from pooled petroleum product will be suppressed, if necessary, by spraying with

foam or an appropriate chemical suppressant.

3. Portions of the stockpiled soil will be covered with plastic sheeting.

4. Air movers will be used to ventilate areas of concentration to below 10 percent LEL.

5. Wells emitting excessive chemical concentrations will be ventilated, capped, or shut in, as necessary.

13.2 Toxic Atmosphere

In the event that airborne concentrations of the chemicals of concern exceed the TLV, the above engineering control measures will be implemented to reduce concentrations to or below the TLVs, if practical. If such reduction is not possible, PPE will be used to limit worker exposure during operations.

In the event that airborne concentrations of the chemicals exceed twice the TLV, work will be suspended and appropriate engineering controls will be implemented to reduce concentrations to or below twice the TLV.

14.0 RESPONSIBLE PARTIES

Responsible parties involved with the proposed site activities are:

- Ms. Connie Lam
  200 Dorado Terrace
  San Francisco, California 94112
  (415) 973-0521

- Alisto Engineering Group
  1575 Treat Boulevard, Suite 201
  Walnut Creek, California 94598
  Contact: Brady Nagle (925) 295-1650

15.0 SUMMARY OF SITE ORGANIZATION AND COORDINATION

- General:
  Site Safety Officer (SSO) – Brady Nagle, Alisto Engineering Group
  Subcontractor - Alfred Preine (construction activities) and V&W Drilling (well destruction)

- Site Access Control

  Activities will be onsite, outdoors, and the work area will be well ventilated. The area will be barricaded at least 20 feet in all directions. The public right-of-way will not be impacted at this time.

16.0 EMERGENCY MEDICAL CARE AND PROCEDURES

- Nearest Emergency Medical Facility

  Alta Bates, Emergency
  2450 Ashby Avenue
  Berkeley, California
  (510) 204-4444

Directions: Proceed north (left) on San Pablo Avenue approx. 1 mile; turn east (right) on Ashby approx. 4 miles; Alta Bates is on the right side of Ashby at Regent Street.

- Emergency Telephone Numbers:

  Fire Department: 911 Police Department: 911

ACKNOWLEDGEMENT

I have read, understand, and agree to comply with the health and safety plan for the following project:

6301 San Pablo Avenue
Oakland, California

Signature: _____ Date: _____
Representing: _____
Title: _____

Signature: _____ Date: _____
Representing: _____
Title: _____

Signature: _____ Date: _____
Representing: _____
Title: _____

Signature: _____ Date: _____
Representing: _____
Title: _____

Signature: _____ Date: _____
Representing: _____
Title: _____

Signature: _____ Date: _____
Representing: _____
Title: _____

Signature: _____ Date: _____
Representing: _____
Title: _____

ATTACHMENT 2

ANALYTICAL RESULTS OF STOCKPILED SOIL SAMPLES ANALYSIS

ORGANICS · INORGANICS · ON-SITE
GC / MS · GC · AA · IR

ARGON Laboratories, Inc.

3037 5th Street · Ceres, CA 95307 · (209) 581-9280 · Fax (209) 581-9282

ALISTO ENGINEERING GROUP
1575 TREAT BLVD., SUITE 201
WALNUT CREEK, CA 94598

ATTN: BRADY NAGLE
CLIENT PROJ. ID: 10-479-01-003

REPORT DATE: 06/24/99
DATE SAMPLED: 06/22/99

AL JOB #: 906101

Project Summary:

On June 23, 1999, this laboratory received 8 soil samples.

Samples were analyzed according to instructions in accompanying chain-of-custody. Results of analysis are summarized on the following pages. Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Sample Control at (209)581-9280.

Hiram Cueto
Lab Director

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GC / MS · GC · AA · IR

ARGON Laboratories, Inc.

3037 5th Street · Ceres, CA 95307 · (209) 581-9280 · Fax (209) 581-9282

ALISTO ENGINEERING GROUP
1575 Treat Blvd., Suite 201
Walnut Creek, CA 94598

Proj. ID: 10-479-01-003
Site: 6301 San Pablo Ave.- Oakland, CA

TPH-g / BTX&E/ MTBE

Method: 8015M / 8020

Date Sampled: 06/22/99
Date Received: 06/23/99
Date Analyzed: 06/23/99

Lab ID:	906101	906102
Sample ID:	SP(1,2,3,4)	SP(5,6,7,8)
Matrix:	Soil	Soil
Total Petroleum Hydrocarbons @ Gasoline	<1.0	<1.0
Benzene	<0.005	<0.005
Toluene	<0.005	<0.005
Xylenes	<0.005	<0.005
Ethyl Benzene	<0.005	<0.005
Methyl tert-Butyl Ether	<0.050	<0.050
QA/QC:		
Surrogate Spike Recovery: Trifluorotoluene	75%	82%

* water samples are reported in ug/L; soil and sludge samples in mg/kg

Hiram Cueto
Lab Director
DHS Certification No. 2359

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ARGON Laboratories, Inc.

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ALISTO ENGINEERING GROUP
1575 Treat Blvd., Suite 201
Walnut Creek, CA 94598

Proj. ID: 10-479-01-003
Site: 6301 San Pablo Ave.- Oakland, CA

Blank / QC Data

Date Analyzed: 06/23/99

Method: 8015M / 8020

Lab ID:	Blank
Sample ID:	BLK90623
Matrix:	Soil

Total Petroleum Hydrocarbons @ Gasoline	<1.0
Benzene	<0.005
Toluene	<0.005
Xylenes	<0.005
Ethyl Benzene	<0.005
Methyl tert-Butyl Ether	<0.050
QA/QC: Surrogate Spike Recovery:	89%

Matrix Spike Recovery Summary

Lab ID	Client ID	Analyte	Percent Recovery MS / MSD	%RPD
906056	BP-MW1-90.5'	Benzene	89 / 103	14.6

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ALISTO ENGINEERING GROUP
1575 Treat Blvd., Suite 201
Walnut Creek, CA 94598

Proj. ID: 10-479-01-003
Site: 6301 San Pablo Ave.- Oakland, CA
Matrix: Soil

Lead, Pb

EPA Method: 7420

Date Sampled: 06/22/99
Date Received: 06/23/99
Date Analyzed: 06/23/99

Lab ID	Sample ID	Result	Reporting Limit (mg/kg)
906101	SP(1,2,3,4) Composite	8.2	2.0
906102	SP(5,6,7,8) Composite	11.2	2.0

Note: Water samples are reported in ug/L (ppb), soil samples are reported in mg/kg (ppm)

Hiram Cueto
Lab Director
DHS Certification No. 2359

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ARGON Laboratories, Inc.

3037 5th Street · Ceres, CA 95307 · (209) 581-9280 · Fax (209) 581-9282

ALISTO ENGINEERING GROUP
1575 Treat Blvd., Suite 201
Walnut Creek, CA 94598

Proj. ID: 10-479-01-003
Site: 6301 San Pablo Ave.- Oakland, CA
Matrix: Soil

Blank / QC Data

EPA Method: 7420

Date Analyzed: 06/23/99

Lab ID	Sample ID	Result	Reporting Limit (mg/kg)
BLK90623	Blank	ND	2.0

Laboratory Control Spike Recovery Summary

Lab ID	Client ID	Analyte	Percent Recovery MS / MSD	%RPD
LCS90623	Blank	Lead	111 / 105	5.6

Note:
ND = Not detected at or above the reporting limit.

ALISTO ENGINEERING GROUP
CHAIN OF CUSTODY

Project Information:

Project No:	10-479-01-003
Project Title:	Stockpiled Soil Sampling
Location:	6301 San Pablo Avenue Oakland, California
Sampler's Name: (print)	Brady Nagle
Sampler's Signature:	

Report To:

Consultant:	Alisto Engineering Group
Address:	1575 Treat Blvd., Suite 201 Walnut Creek, CA 94598
Contact:	Brady Nagle
Phone:	(925) 295-1650
Fax:	(925) 295-1823

Bill To:

Consultant:	Alisto Engineering
Address:	1575 Treat Blvd., Suite 201 Walnut Creek, CA 94598

Samples Submitted To:

Laboratory:	Argon
Address:	3037 5th Street Ceres, California 95307
Contact:	Hiram
Phone:	209.581.9280
Fax:	209.581.9282

Date Results Required: Friday, 6/25/99

Date Report Required: Friday, 6/25/99

TURN AROUND TIME

RUSH	24 Hour	48 Hour	5 Day	Standard (10-14 days)
☐	☒	☐	☐	☐

Sample ID.	Date	# Containers	Matrix	TPH-Gasoline (EPA 8015)	BTEX/MTBE (EPA 8020)	Total Lead	COMMENTS: Container / Preservative
SP-1	6/22/99	1	Soil	X	X	X	
SP-2	6/22/99	1	Soil				Composite into one sample for analysis
SP-3	6/22/99	1	Soil				
SP-4	6/22/99	1	Soil				
SP-5	6/22/99	1	Soil				
SP-6	6/22/99	1	Soil				Composite into one sample for analysis
SP-7	6/22/99	1	Soil				
SP-8	6/22/99	1	Soil				

Relinquished By:	**Date:** 6/23/99 **Time:** 9:00	**Received By:**	**Date:** 6-23-99 **Time:** 9:00	**SPECIAL INSTRUCTIONS:**
Relinquished By:	**Date:** 6-23-99 **Time:** 1100	**Received By:**	**Date:** 6/23/99 **Time:** 11:00	1) Analyze fuel oxygenates and 12-DCA on the one groundwater sample with the highest TPH-G/BTEX/MTBE results.
Relinquished By:	**Date:** **Time:**	**Received By:**	**Date:** **Time:**	

ATTACHMENT 3

WELL DESTRUCTION REPORT

WELL DESTRUCTION REPORT

6301 San Pablo Avenue
Oakland, California

Project No. 10-479-01-001

Prepared for:

Ms. Connie Lam
200 Dorado Terrace
San Francisco, California

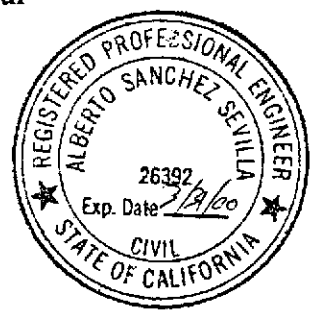
Prepared by:

Alisto Engineering Group
1575 Treat Boulevard, Suite 201
Walnut Creek, California

June 28, 1999

Brady Nagle
Project Manager

Al Sevilla, P.E.
Principal



WELL DESTRUCTION REPORT

6301 San Pablo Avenue
Oakland, California

Project No. 10-479-01-001

June 25, 1999

INTRODUCTION

Alisto Engineering was retained to destroy Groundwater Monitoring Well MW-1 at 6301 San Pablo Avenue, Oakland, California. A site vicinity map is shown on Figure 1, and the location of the destroyed well is shown on Figure 2. Groundwater Monitoring Well MW-1 was constructed using 4-inch-diameter PVC casing to a depth of 20 feet below grade.

FIELD PROCEDURES

Before field activities were performed, a well destruction permit was obtained from the Alameda County Public Works Department (ACPWD). A copies of the permit is included in Appendix A, and the boring log and well construction details are included in Appendix B.

On May 28, 1999, Monitoring Well MW-1 was destroyed by pressure grouting with neat cement through a 1-inch-diameter tremie pipe to within five feet of the bottom of the well. After tremie grouting, the well vault was removed, and the surface was restored to match surrounding conditions.

SOURCE:
USGS MAP, OAKLAND WEST QUADRANGLE,
7.5 MINUTE SERIES. 1959.
PHOTOREVISED 1980.

N

CALIF

QUADRANGLE LOCATION

0 1000' 2000'

FIGURE 1

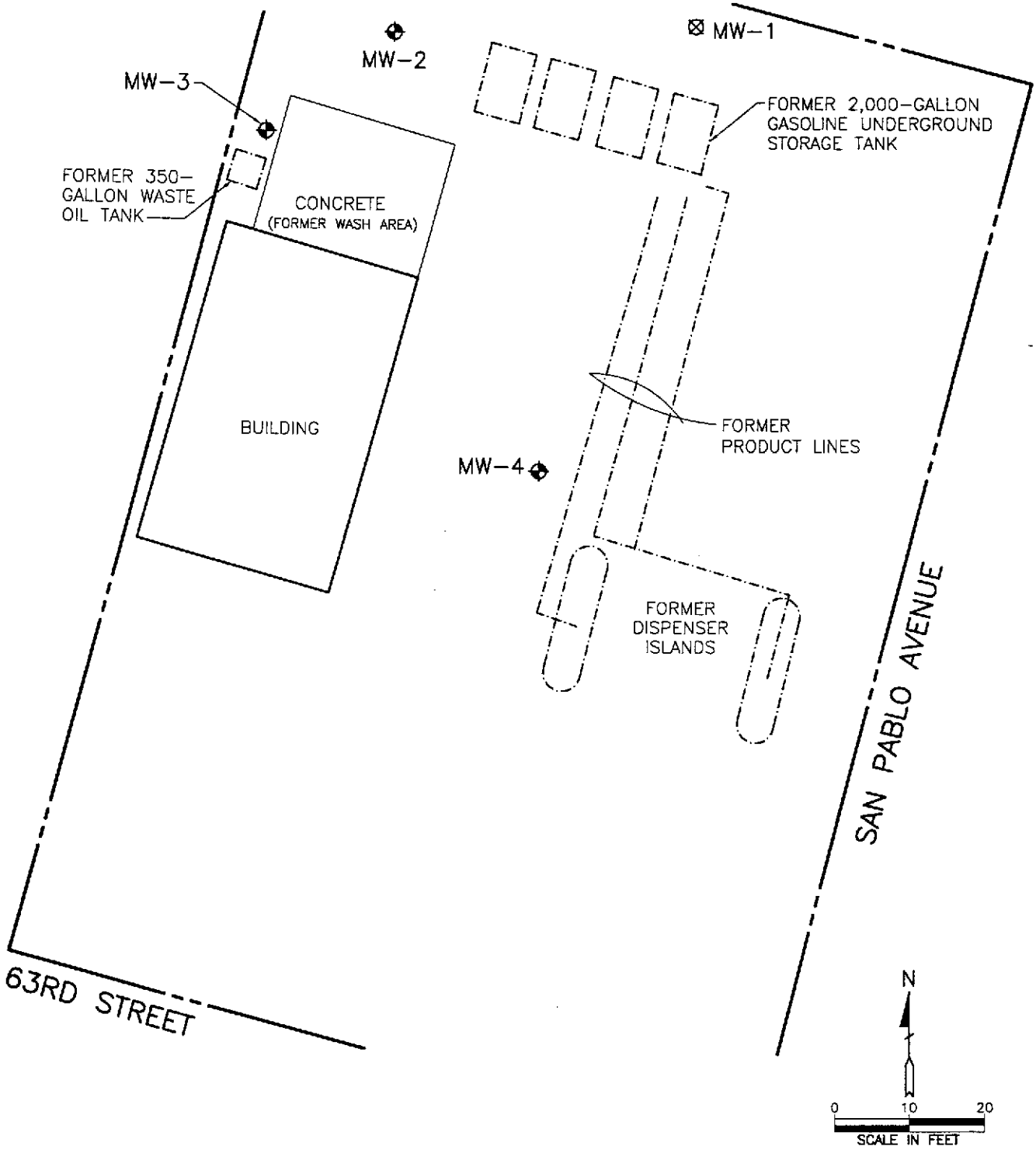
SITE VICINITY MAP

6301 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10-309

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10309B--DWG 9-22-95 MAP 1=1



LEGEND

- GROUNDWATER MONITORING WELL
- DESTROYED WELL

FIGURE 2

SITE PLAN

6301 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

PROJECT NO. 10-479

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

10479C--.DWG 6-25-99 RKW 1=20

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 630 | San Pablo Ave. (@63RD St)
Oakland CA

California Coordinates Source _____ ft. Accuracy ± ___ ft.
CCN _____ ft. CCE _____ ft.
APN _____

CLIENT
Name MS. Connie Lam
Address 201 Dunado Terrace Phone _____
City SF CA Zip _____

APPLICANT
Name Alisto Engineering Group Fax 925 295 1823
Address 1575 Treat Blvd Phone 925 295 1650
City Walnut Creek Zip 94598

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☐	Well Destruction	X

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other _____	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☐
Cable	☐	Other	☐		

DRILLER'S LICENSE NO. 557-720904

WELL PROJECTS
Drill Hole Diameter _____ in. Maximum
Casing Diameter _____ in. Depth _____ ft.
Surface Seal Depth _____ ft. Number _____

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 6/25/99
ESTIMATED COMPLETION DATE 6/25/99

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE _____ DATE 6/22/99

FOR OFFICE USE

PERMIT NUMBER _____
WELL NUMBER _____
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL
1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER SUPPLY WELLS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL
Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS

APPROVED _____ DATE _____

APPENDIX B

BORING LOGS AND WELL CONSTRUCTION DETAILS

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA

LOG OF BORING MW-1

SEE SITE PLAN

ALISTO PROJECT NO: 10-309-01 DATE DRILLED: 03/01/96
CLIENT: Mobil Oil Corporation
LOCATION: 6301 San Pablo Avenue, Oakland, California
DRILLING METHOD: Hollow-Stem Auger (10")
DRILLING COMPANY: V & W Drilling CASING ELEVATION: 32.79 'MSL
LOGGED BY: C. Ladd APPROVED BY: Al Sevilla

BLOWS/6 IN.	PID VALUES	WELL DIAGRAN	DEPTH feet	SAMPLES	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION
						ML	2.5" asphalt
10,12,14			5				sandy SILT: light brown mottled Fe oxide stain, damp to moist, very stiff; fine-grained sand.
10,11,13			10				Same: reddish brown, damp to moist, very stiff; very fine-grained sand; some fill gravels (pea gravel).
9,12,13			15			SM	silty SAND: tan occasional black mottling, damp to moist, medium dense; fine-grained sand.
10,12,15			20			ML	clayey SILT: reddish brown mottled tan, damp, very stiff; minor fines; occasional rootlets.
			25				Stabilized water level measured on March 14, 1996.
			30				

WELL DIAGRAN: 4" Sch. 40 PVC; Neat Cement; Bentonite Seal; #12 Sand; 4" 0.010" Slotted PVC Screen

ATTACHMENT 4

PLANS OF PROPOSED OIL CHANGE STATION