(510) 370-8295

~8,485



ADVANCED ASSESSMENT AND REMEDIATION SERVICES (AARS)

July 19, 1995

Ms. Lynn Nightingale 250 Executive Park Blvd. Suite 3100 San Francisco, California 94134

5016 GLOUCESTER LANE, MARTINEZ, CA 94553 TEL: \$10-370-8295 FAX: \$10-370-8295		
To: LYNH NIGHTIMARLE	From: Tridib Guha	
Co.:	Co.: Advanced Assessment & Remediation Services	
Phone: 415-468-4900	Phone: (510) 370-8295	

I ax:

of pages: 15.Note:

Fax: 415-468-0167

Subject:

Proposal for Groundwater Quality Investigation

at

4629 Martin Luther King, Jr. Way

Oakland, California

Dear Ms. Nightingale:

Advanced Assessment and Remediation Services (AARS) is pleased to submit this proposal for groundwater quality investigation activities at 4629 Martin Luther King, Jr. Way, Oakland, California. This proposal is based on my telephone conversation with Ms. Eva Chu, Alameda County Environmental Health Department (ACEHD) on July 18, 1995. The proposed scope of work will be conducted in accordance with the guidelines and requirements of the ACEHD and the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB).

As discussed with Ms. Chu, the scope of work is to collect and analyze groundwater samples at the site using one monitoring well and three temporary wells. The depth of groundwater was assumed approximately 15 feet below ground surface (bgs). The total number of soil samples to be analyzed is also minimized, one per boring.

The total estimated budget to conduct this groundwater quality investigation as proposed is approximately \$8,485. An estimated budget detailing each task is presented in Attachment A. The budget will not be exceeded without prior authorization by you. Actual billing will be on a time and material basis in accordance with AARS's current pricing schedule. Also enclosed in Attachment B is our proposal for four quarterly monitoring and sampling and reporting.

Enclosed for your review is a draft work plan. Please feel free to discuss the contents of the work plan with the ACEHD.

AARS is one of the best in the industry for site assessment to site closure, and completing projects within time and budget (abstracts of selected publications enclosed). Also enclosed is the certificate of insurance coverage for \$1,000,000 in commercial general liability and \$1,000,000 in professional liability.

Ms. L. Nightingale July 19, 1995 Page 2

If this proposal is acceptable to you and you wish to authorize us to proceed with the scope of work, then we will proceed with the Standard Service Agreement. Please contact me if you have any questions or need additional information.

Sincerely,

Advanced Assessment and Remediation Services

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Tridib K. Guha, R.G., R.E.A.

Principal

Enclosures

TG/NIGHTANGLE.GW/onclosure

FROM : AdvAssmt&RemdSvc

PROPOSED SCOPE OF WORK FOR GROUNDWATER QUALITY INVESTIGATION at 4629 Martin Luther King, Jr. Way Oakland, California

1.0 INTRODUCTION

This proposal presents the scope of work to conduct a groundwater quality investigation at 4629 Martin Luther King, Jr. Way, Oakland, California. The proposed scope of work is based on previous analytical results of soil sampling conducted during tank removal. Analytical results of the soil samples from the tank cavities detected high concentrations of total extractable hydrocarbons (TEH) and oil and grease (O&G). However, all samples analyzed for total lead were below the background level. The proposed investigative work is designed to evaluate the extent of the subsurface contamination and whether hydrocarbon constituents and soluble lead have impacted the groundwater at the site.

2.0 PROJECT BACKGROUND

In July 1992, five underground storage tanks (previously two tanks stored gasoline and three stored fuel oil) were excavated and removed by SEMCO Inc.. Soil samples were collected from excavations. Analytical results indicated that petroleum hydrocarbons, quantified as diesel and oil & grease, were present in the soil below the fuel tanks. Additionally, toluene, ethylbenzene and xylenes were detected at low concentrations in the soil. Petroleum hydrocarbons and benzene, toluene, ethylbenzene and xylenes (BTEX) were not detected in samples obtained from the gasoline tank excavations at concentrations above the reporting limits.

In May 1993, SCI conducted site investigation by drilling and sampling of nine soil borings and analyzing selected soil samples. SCI reported oil and grease and diesel hydrocarbons were detected in the soil beneath and adjacent to the previous fuel oil tanks, at concentrations up to 760 and 1700 mg/kg, respectively.

3.0 PROPOSED SCOPE OF WORK

The proposed site investigation will be conducted in accordance with the requirements and guidelines of Alameda County Environmental Health (ACEHD) and California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB). As discussed with ACEHD, AARS proposes:

1. Installation of one soil boring to 30 feet bgs, downgradient to Boring #3. Convert this soil boring into a groundwater monitoring well (MW-1).

2. Drill three additional shallow (20 feet bgs) soil borings and convert them into temporary wells (TW-1, TW-2 and TW-3) to collect groundwater grab samples.

The locations of the monitoring well and temporary wells are presented in Figure 1. Collect soil samples during drilling at every 5 feet intervals or at lithologic changes. Analyze selected soil samples for total petroleum hydrocarbon as diesel (TPHd) as gasoline (TPHg) with BTEX, and O&G. Upon collection of groundwater grab samples the temporary wells will be removed and backfilled with cement slurry. The various tasks associated with this site investigation are discussed below.

Task 1: Project Preparation, Submit Work Plan and Acquire Necessary Permits

Information pertinent to the site will be reviewed and will include available literature, previous field work and other sources. A workplan will be prepared, including a health and safety plan, and will be submitted to the ACEHD, as well as Ms. Nightingale. All required permits will be obtained and field activities will be coordinated with the Hazardous Materials Division of the ACEHD. Site will be marked and Underground Service Alert will be notified prior to drilling of soil borings.

Task 2: Drill Soil Borings; Install one Monitoring Well and three Temporary Wells

One soil boring (MW-1) will be drilled to 30 feet bgs by using a truck mounted CME 55 or 75 drilling rig with 8-inch-diameter, hollow-stem augers, following the standard procedures and requirements of the ACEHD. Three additional soil borings (TW-1, TW-2 and TW-3) will be drilled to 20 feet bgs using small diameter (4.5-inch) hollow stem augers. Soil samples will be obtained with a split-spoon sampler lined with clean sampling sleeves. Soil samples will be collected at every 5 feet or at any lithologic changes, starting at 5 feet bgs. Soil borings will be logged lithologically using the Unified Soil Classification System (USCS) and soil samples will be screened in the field using a portable combustible gas indicator. The samples recovered for chemical analysis will be sealed with teflon tape and plastic caps and placed immediately into a cooler with ice and transported to a certified laboratory under chain-of-custody. If groundwater is not encountered within the specified depth described above then the soil borings will be backfilled with neat cement or cement slurry.

One soil boring will be converted to groundwater monitoring well. The groundwater well will be constructed of clean, 2-inch diameter, flush threaded, schedule 40 PVC blank easing which will be extended from grade level to a depth estimated at the highest anticipated water level, and 2-inch-diameter screened easing with 0.010-inch perforations, extending to a depth of at least 10 feet into the water table. The annular space surrounding the screened portion was backfilled with No. 2 Monterey sand (filter pack) to approximately 2 feet above the top of the screened section. A bentonite annular scal (approximately 1 foot thick) will be placed above the filter

car side

pack. The remaining annulus will be grouted with neat cement to the surface. A monument well box will be installed slightly above grade to minimize infiltration of surface waters. Locking watertight well caps will be installed to ensure the integrity of the well.

Three soil borings will be converted to temporary wells. The soil borings will be advanced 3 to 5 feet beyond the top of the saturated zone (approximately 15 feet bgs). A 2-inch diameter, flush-threaded, Schedule 40 PVC 0.010-inch slot size screen casing covered with a polyester filter sock (if available) will be installed in the bore holes. The water will be allowed to stabilize and a small volume of water (approximately 3 to 5 gallons) will be purged. Following purging, a water sample will be collected and the casing will be removed. The borings will then be completely backfilled with neat cement or cement slurry to grade.

All drill cuttings will be stockpilled at the site for proper disposal.

Task 3: Develop and Sample Monitoring Well

Prior to sampling, the water level of the well will be recorded, and the presence of free product or sheen will be observed. The well will be properly developed prior to purging and sampling.

During purging, pH, temperature, and conductivity readings will be recorded. As these readings stabilize, indicating that the groundwater is representative of the water in the aquifer, the water samples will be collected in appropriate clean glassware. The samples will be placed in an iced cooler and transported to a California-certified laboratory.

The removed water will be transferred to 55-gallon drums, labeled and stored at the site for proper disposal.

Task 4: Analyze Soil Samples

Soil samples will be transported to McCampbell Analytical in Pacheco, a California-certified laboratory for analysis following proper chain of custody procedures. A minimum of 1 soil sample (capillary zone) from each boring will be analyzed for TPHd, TPHg with BTEX and O&G using the appropriate EPA methods. The detection limits for both TPHd and TPHg is 1.0 milligram per kilogram (mg/kg) and the detection limits for BTEX are 0.005 mg/kg. The detection limit for O&G is 10.0 mg/kg.

Task 5: Analyze Water samples

Groundwater samples collected from the monitoring well and temporary wells will be analyzed for TPHd, TPHg with BTEX distinction, O&G and total lead, using the

appropriate EPA methods. The detection limits for TPHd and TPHg is 50 microgram per liter ($\mu g/L$) and the detection limits for BTEX are 0.5 $\mu g/L$. The detection limit for O&G is 1.0 mg/L and detection limit for lead is 0.005 mg/L.

Task 6: Analyze Data and Laboratory Results and Prepare Report

Upon completion of the sample analysis and background research, a detailed evaluation of results and available information will be conducted to assess the extent and nature of groundwater contamination. This will include:

- · Interpretation of geologic and hydrogeologic information.
- Description of field and analytical procedures.
- . Tabulation of soil and groundwater analytical results.
- · A report presenting the findings of the investigation including conclusions and recommendations, will be prepared for submission to the ACEHD.

FROM: AdvAssmt&RemdSvc ... PHONE NO.: 5103708295

Jul. 20 1995 07:23AM P07

ATTACHMENT A

GROUNDWATER QUALITY INVESTIGATION

PROPOSED SCOPE OF WORK AND COST ESTIMATE

ESTIMATED BUDGET

GROUNWATER QUALITY INVESTIGATION

4629 Martin Luther King, Jr. Way Oakland, California

	Tasks	nated Cost
1.	Prepare Work Plan and health and safety plan; obtain permits; Site marking, Project Preparation	\$ 900
2.	Drill 4 soil borings; install 1 monitoring well (30 feet bgs) and 3 temporary wells (each 20 feet bgs)- includes geologist time, all field equipments, subcontractor/supplies	\$ 3,360
3.	Develop and sample monitoring well-includes geologist time and equipments	\$ 575
4	Lab. Analysis 4 soil samples TPHd, TPHg with BTEX & O&G	\$ 640
5	Lab Analysis 4 water Samples TPHd, TPHg with BTEX, O&G and total lead	\$ 760
6	Review Data and Laboratory Results and Prepare Report Project Administration	\$ 2,250
State of the latest state	Total Estimated Cost	\$8,485

Note: Disposal of drill cuttings, soil materials and decon water not included in this estimate. Costs for this disposal can be provided once analytical data is available.

ATTACHMENT B

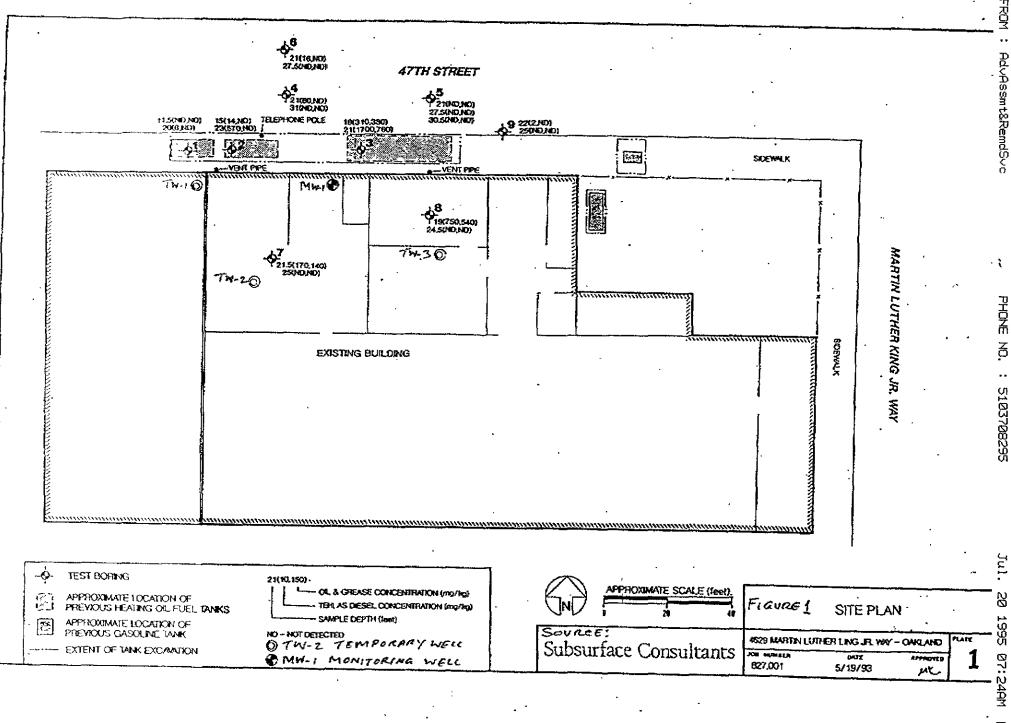
ESTIMATED BUDGET

QUARTERLY GROUNWATER MONITORING AND SAMPLING

4629 Martin Luther King, Jr. Way Oakland, California

	Tasks	Estimated Cost
1.	Water Level Measurement - (includes equipments)	\$ 50
2.	Well purging and sampling (includes equipments)	\$ 250
3.	Lab Analysis 4 water Samples TPHd, TPHg with BTEX, O&G and total lead	\$ 200
6	Review Data and Laboratory Results and Prepare Report and submittal Project Administration	\$ 200
	Total Estimated Cost Per Quarter	\$700

Note: Disposal of purged water not included in this estimate. Costs for this disposal can be provided once analytical data is available.



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CITY of MARTINEZ BUSINESS LICENSE

NUMBER: 05913

BUSINESS NAME

ADVANCED ASSESSMENT & REMEDIATION LOCATION

5016 GLOUCESTER LN ACTIVITY

PROFESSIONAL/CONSULTING

M: 01398

MAILING ADDRESS ADVANCED ASSESS. & REMEDIATION

5016 GLOUCESTER LANE MARTINEZ CA 94553

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DATE PAID EXPIRATION DATE

STATE OF CALIFORNIA

State Board of Registration for Geologists and Geophysicists

CERTIFICATE

IT IS HEREBY CERTIFIED THAT

TRIDIB KUMAR GUHA

REGISTERED GEOLOGIST

Certificate No.

5836

STATE BOARD OF REGISTRATION FOR GEOLOGISTS AND GEOPHYSICISTS

Βv

BY LEAVER

Executive Officer

This 1st day of March, 1994

EGGGEO 01/01/94

THONE NO. : 510378

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