STATE OF CALIFORNIA—BUSINESS, TRANSPORTATION AND HOUSING AGENCY GRAY DAVIS, Governor

DEPARTMENT OF TRANSPORTATION
BOX 23660
OAKLAND, CA 94623-0660
(510) 286-4444
TDD (510) 286-4454

August 1, 2001

AUG 06 2001

Mr. Barney Chan
Alameda County Department of Health Services
1131 Harborway Parkway
Alameda, California 94502

2433

Subject: Ground Water Monitoring Report for the First Quarter of 2001 at the South Oakland Maintenance Station located at 1112 29th Avenue in Oakland, Alameda County, California

Dear Mr. Chan:

Attached is a copy of Geocon Consultants, Inc. "*Quarterly Groundwater Monitoring Report, First Quarter 2001*" dated June 29, 2001 for work performed at the above-referenced site. Results of the cumulative sampling and analysis indicate that benzene and Methyl-tertiary-Butyl-Ether (MtBE) may have migrated down gradient from the former underground storage tank location.

We are preparing a Work Plan for a site investigation to install three boreholes down gradient and off-site to the Caltrans property to define the lateral and vertical extent of specific gasoline constituents in the ground water. At this time, no monitoring wells will be installed off-site and it is anticipated the fieldwork will be completed in September 2001.

A temporary construction easement from the property owners of All Aboard Mini Storage has been obtained. We will continue to sample the wells on a quarterly basis unless otherwise instructed by your office.

Still elevated MTBE/TAME/TBA/tert butyl alcohol in MW-3

If you have any questions or require additional information, please contact Ms. Frances Maroni of my staff at (510) 286-5657.

Sincerely,

HARRY Y. YAHATA
District Director

By:

for RAY BOYER
District Branch Chief
Office of Environmental Engineering

Attachment

cc: Regional Water Quality Control Board, SF Bay Region, File

GEOCON

GEOTECHNICAL
&
ENVIRONMENTAL
CONSULTANTS

QUARTERLY GROUNDWATER MONITORING REPORT

FIRST QUARTER 2001

SOUTH OAKLAND MAINTENANCE STATION 1112 29TH AVENUE OAKLAND, CALIFORNIA

PREPARED FOR

CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 4

OAKLAND, CALIFORNIA

TASK ORDER NO. 04-987901-9B

GEOCON PROJECT NO. E8000-06-62

JUNE 2001

GEOCON
CONSULTANTS, INC.
ENVIRONMENTAL ■ GEOTECHNICAL ■ MATERIALS

Project No. E8000-06-62
June 29, 2001

Ms. Frances Maroni
California Department of Transportation
District 4
111 Grand Avenue, 14th Floor
Post Office Box 23660
Oakland, California 94623-0660

AUG 06 2001

Subject: GROUNDWATER MONITORING REPORT – FIRST QUARTER 2001
SOUTH OAKLAND MAINTENANCE STATION – 1112 29TH AVENUE
OAKLAND, CALIFORNIA
CONTRACT NO. 43A0012
TASK ORDER NO. 04-987901-9B

Dear Ms. Maroni:

In accordance with California Department of Transportation (Caltrans) Contract No. 43A0012 and Task Order No. 04-987901-9B, Geocon Consultants, Inc. has performed environmental engineering services at the project site. The project site consists of the South Oakland Maintenance Station located at 1112 29th Avenue in Oakland, California.

The accompanying report summarizes the services performed consisting of the collection of groundwater samples and laboratory analyses.

The contents of this report reflect the views of Geocon Consultants, Inc., who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

If there are any questions concerning the contents of this report, or if Geocon may be of further service, please contact the undersigned at your convenience.

Sincerely,

GEOCON CONSULTANTS, INC.

Ross J. White
Sr. Staff Geologist

Richard W. Day, CEG, CHG
Regional Manager

STATE OF CALIFORNIA
CERTIFIED ENGINEERING GEOLOGIST
1849
RICHARD DAY
REGISTERED GEOLOGIST

RJW:RWD:rjw

(5) Addressee

TABLE OF CONTENTS

SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Quarterly Groundwater Monitoring Report for the Caltrans South Oakland Maintenance Station was prepared under California Department of Transportation (Caltrans) Contract No. 43A0012 and Task Order (TO) No. 04-987901-9B.

1.1 Site Description

The subject site is located at 1112 29th Avenue in Oakland, California. The site is used by Caltrans to store and service maintenance vehicles and equipment. The approximate location of the site is depicted on the attached Vicinity Map presented as Figure 1. The approximate site boundaries and existing structures are depicted on the Site Plan presented as Figure 2.

1.2 Background

This section presents a summary of the project background information based on the background section of the subject TO.

In June 1990, Geo/Resource Consultants, Inc. drilled four soil boreholes in the vicinity of a former 6,000-gallon diesel underground storage tank (UST) and a former 1,000-gallon unleaded gasoline UST. Three of the boreholes were converted to monitoring wells MW2, MW3, and MW4. Soil and groundwater samples collected and analyzed did not exhibit detectable concentrations of total petroleum hydrocarbons as gasoline (TPHg); total petroleum hydrocarbons as diesel (TPHd); or benzene, toluene, ethylbenzene, and xylenes (BTEX).

Between June 13 and 15, 1994, GHH Engineering, Inc. (GHH) removed one 1,000-gallon gasoline UST along with its associated piping and fuel dispenser. The product piping was cut and capped at the dispenser island and at the edge of the tank excavation. Approximately 20 feet of piping was left in place. During the excavation activities, one soil sample was collected from beneath each tank end, one soil sample was collected from beneath the fuel dispenser, and composite soil samples were collected from the excavation stockpile. Groundwater was not encountered during the excavation activities.

The soil samples were analyzed for TPHg and BTEX. The composite soil samples collected from the excavation stockpile exhibited detectable concentrations of TPHg and BTEX. The other soil samples did not exhibit TPHg or BTEX concentrations greater than respective laboratory reporting limits.

In January 1998, additional groundwater samples were collected from each of the three monitoring wells and were analyzed for TPHg, TPHd, BTEX fuel oxygenate compounds (FOCs), volatile organic compounds (VOCs), and lead. The three groundwater samples exhibited TPHd concentrations ranging from 0.06 to 0.2 milligrams per liter (mg/l). The groundwater samples collected from monitoring wells MW3 and MW4 also exhibited lead concentrations of 0.05 and 0.07 mg/l, respectively.

In March 1998, one 6,000-gallon diesel fiberglass UST and its associated product piping were removed and 11 soil samples were collected from beneath the UST, along the piping trench, beneath the dispenser, and from the soil stockpile. TPHd was detected in the stockpile at a maximum concentration of 8.2 milligrams per kilogram (mg/kg). The other soil samples did not exhibit TPHd, BTEX, or methyl tertiary butylether (MTBE) concentrations greater than respective laboratory reporting limits.

Quarterly groundwater monitoring continued from November 1998 through April 2000. During this period the groundwater samples exhibited only concentrations of TPHd.

On April 18 and 19, 2000, additional soil and groundwater samples were collected from seven boreholes. One soil sample exhibited a bis(2-Ethylhexyl)phthalate concentration of 0.741 mg/kg. Other soil and groundwater samples did not exhibit TPHd, TPHg, BTEX, FOC, or SVOC concentrations greater than respective laboratory reporting limits.

Analytical laboratory results for the three most recent quarterly groundwater sampling events indicate that TPHg, BTEX, and FOCs are present in groundwater samples collected from monitoring wells MW1 and MW3. MTBE has also been detected in groundwater samples collected from monitoring well MW2.

1.3 Purpose

The purpose of the scope of work performed by Geocon is to continue to monitor groundwater for the contaminants of concern to evaluate whether or not the constituents are migrating.

2.0 SCOPE OF SERVICES

The following scope of services was performed as requested by Caltrans in TO No. 04-987901-9B.

2.1 Pre-Field Activities

- Prepared a *Health and Safety Plan* for the proposed field activities. The health and safety plan provided guidelines on the use of personal protective equipment and the health and safety procedures to be implemented during the proposed field activities.

- Retained the services of: Advanced Technology Laboratories (ATL), a California-certified hazardous materials testing laboratory (ELAP No. 1838), to perform laboratory analyses.

2.2 Field Activities

On March 27, 2001, monitoring wells MW1 through MW4 were purged and subsequently sampled. The groundwater samples were analyzed for the presence of TPHg, TPHd, BTEX, FOCs, and VOCs.

3.0 INVESTIGATIVE METHODS

3.1 Groundwater Sampling

At the time of groundwater sampling, groundwater was measured at depths ranging from 2.43 to 2.68 meters (7.96 to 8.79 feet) below the top of the well casings. Prior to sampling the wells, approximately three casing volumes of groundwater were purged from each well. The purging was accomplished utilizing a battery-operated submersible pump. The pump was cleansed prior to use by washing the pump with an Alconox solution followed by two rinses with distilled water. During the well purging, groundwater temperature, pH, and conductivity, were periodically recorded.

After purging the monitoring wells, groundwater samples were collected utilizing disposable polyethylene bailers. The groundwater samples were transferred to laboratory-provided containers, labeled, and placed in a cooler with ice and transported to ATL using chain-of-custody documentation. The purged groundwater was containerized in one 55-gallon drum and stored on-site pending disposal.

3.2 Laboratory Analyses

As required by the subject TO, Geocon instructed the analytical laboratory to perform the following laboratory analyses under a standard turn-around-time:

- TPHg following EPA Test Method 8015;
- BTEX following EPA Test Method 8020; and
- FOCs and VOCs following EPA Test Method 8260B.

Reproductions of the laboratory reports and chain of custody documentation are presented as Appendix A. The laboratory QA/QC procedures included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever was more frequent, with spike made at ten times the detection limit or at the analyte level.

Prior to submitting the soil samples to the laboratory, the chain-of-custody documentation was reviewed for accuracy and completeness.

4.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

4.1 Site Hydrogeology

Since June 27, 2000, groundwater beneath the site has ranged in elevation from approximately 88.96 to 91.08 feet above mean sea level. Historical groundwater level measurements are presented as Table 1. During the most recent sampling event the direction of the groundwater gradient is generally towards the east and ranges in magnitude from 0.0028 to 0.0096 ft/ft. A Groundwater Elevation Map is presented as Figure 3.

4.2 Analytical Results

A summary of the most recent analytical laboratory results is presented as a portion of Table 2. The results are discussed below:

- Gasoline-range hydrocarbons were detected in the groundwater sample collected from monitoring well MW3 at a concentration of 5.2 mg/l. The other groundwater samples did not exhibit gasoline-range hydrocarbons at concentrations greater than the laboratory reporting limit of 0.20 mg/l.

- Benzene, toluene, and ethylbenzene were detected in the groundwater sample collected from monitoring well MW3 at concentrations of 220, 5.9, and 2.2 micrograms per liter (ug/l), respectively by EPA Test Method 8020; and 280, 12, and 7.3 ug/l, respectively by EPA Test Method 8260B. The other groundwater samples did not exhibit BTEX concentrations greater than the respective laboratory reporting limits.

- MTBE, tertiary amyl methylether (TAME), and tert-butanol were detected in the groundwater sample collected from monitoring well MW3 at concentrations of 5,500, 12, and 270 ug/l, respectively. In addition, MTBE was also detected in the groundwater samples collected from monitoring wells MW1 and MW2 at concentrations of 29 and 110 ug/l, respectively. The groundwater sample collected from monitoring well MW4 did not exhibit FOC concentrations greater than the respective laboratory reporting limits.

- Chloroform was detected in the groundwater sample collected from monitoring well MW4 at a concentration of 5.1 ug/l. The other groundwater samples did not exhibit additional VOCs at concentrations greater than the respective laboratory reporting limits.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Analytical laboratory data indicates that TPHg, BTEX, and FOC impacts appear to be limited to groundwater within the vicinity of monitoring well MW3. Since TPHg, and BTEX were not detected in groundwater samples collected from downgradient monitoring wells; these constituents do not appear to be migrating.

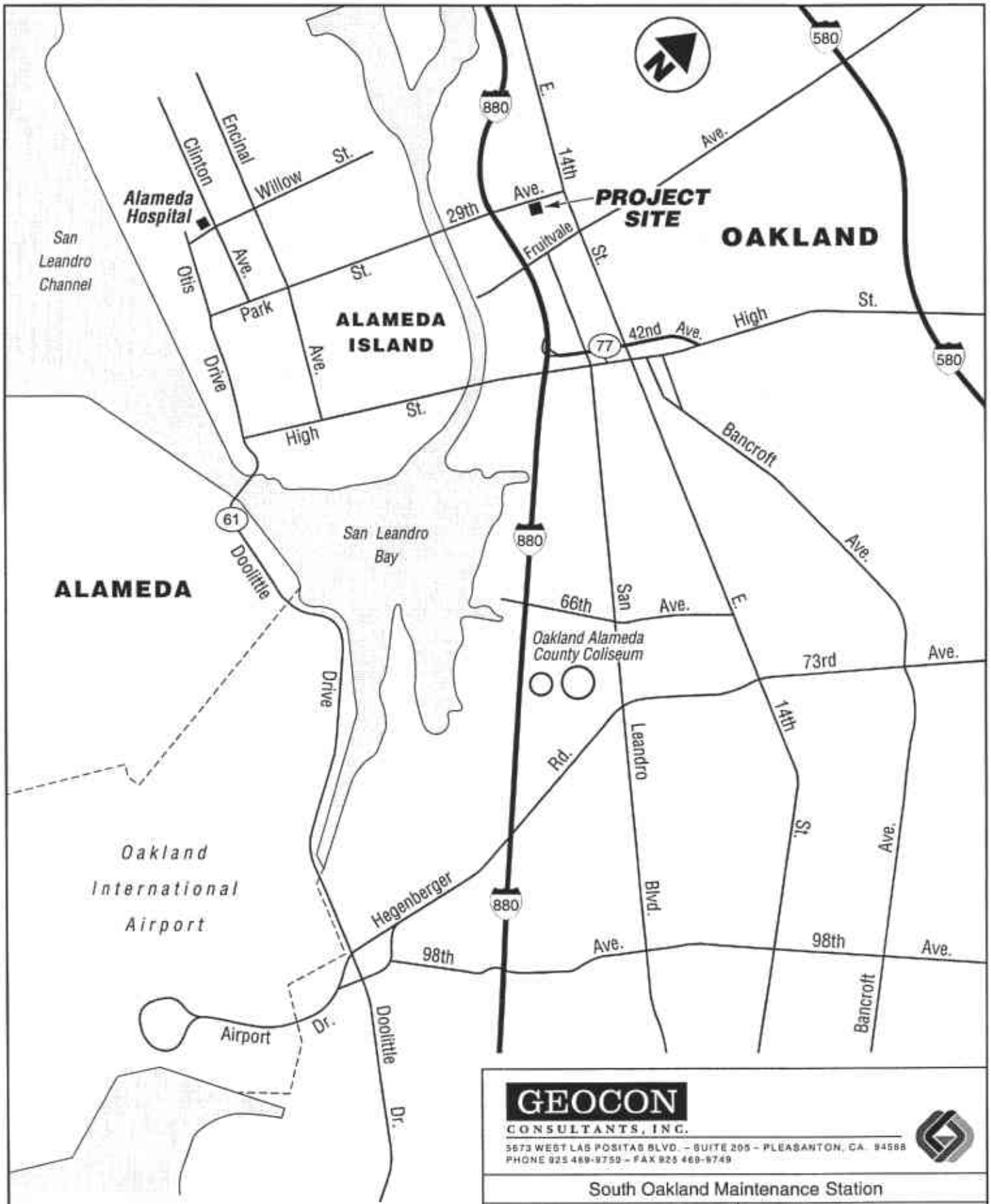
While MTBE was also detected in monitoring wells MW1 and MW2, the concentrations detected have not increased since the last sampling event. Consequently, MTBE does not appear to be migrating. Geocon recommends that the on-site monitoring wells continue to be monitored quarterly for TPHg, BTEX, and FOCs.

gradient, if SW, would make MW-2 not dg of MW3

6.0 REPORT LIMITATIONS

This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report, and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.



GEOCON
CONSULTANTS, INC.
5673 WEST LAS POSITAS BLVD. – SUITE 205 – PLEASANTON, CA. 94588
PHONE 925 469-9759 – FAX 925 469-9749

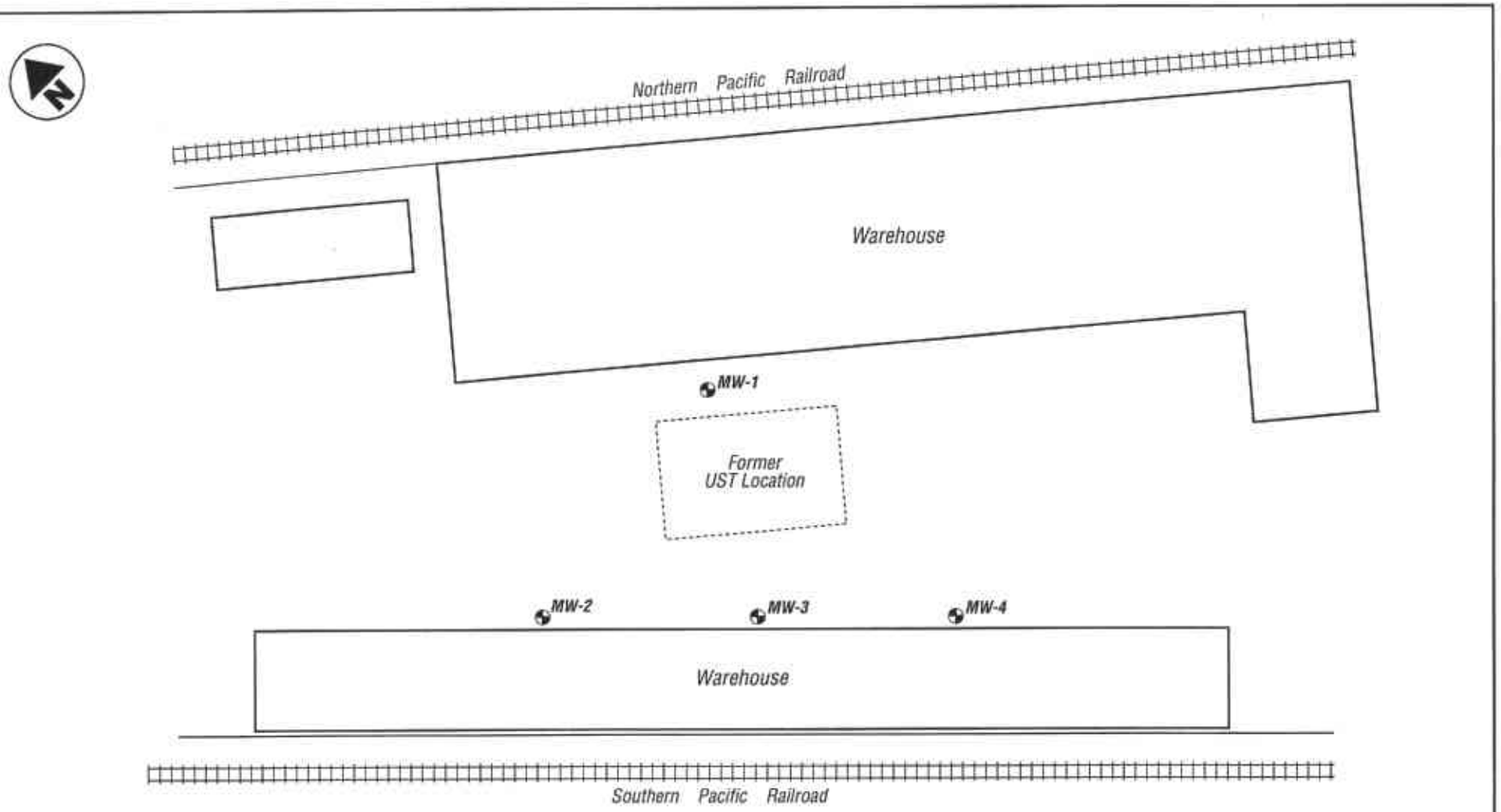
South Oakland Maintenance Station

Alameda County, California

VICINITY MAP

GEOCON Proj. No. E8000-06-62

Task Order No. 04-987901-9B | April 2001 | Figure 1



LEGEND:

MW-1 Approximate Monitoring Well Location

0 5 10m

Scale: 1:500

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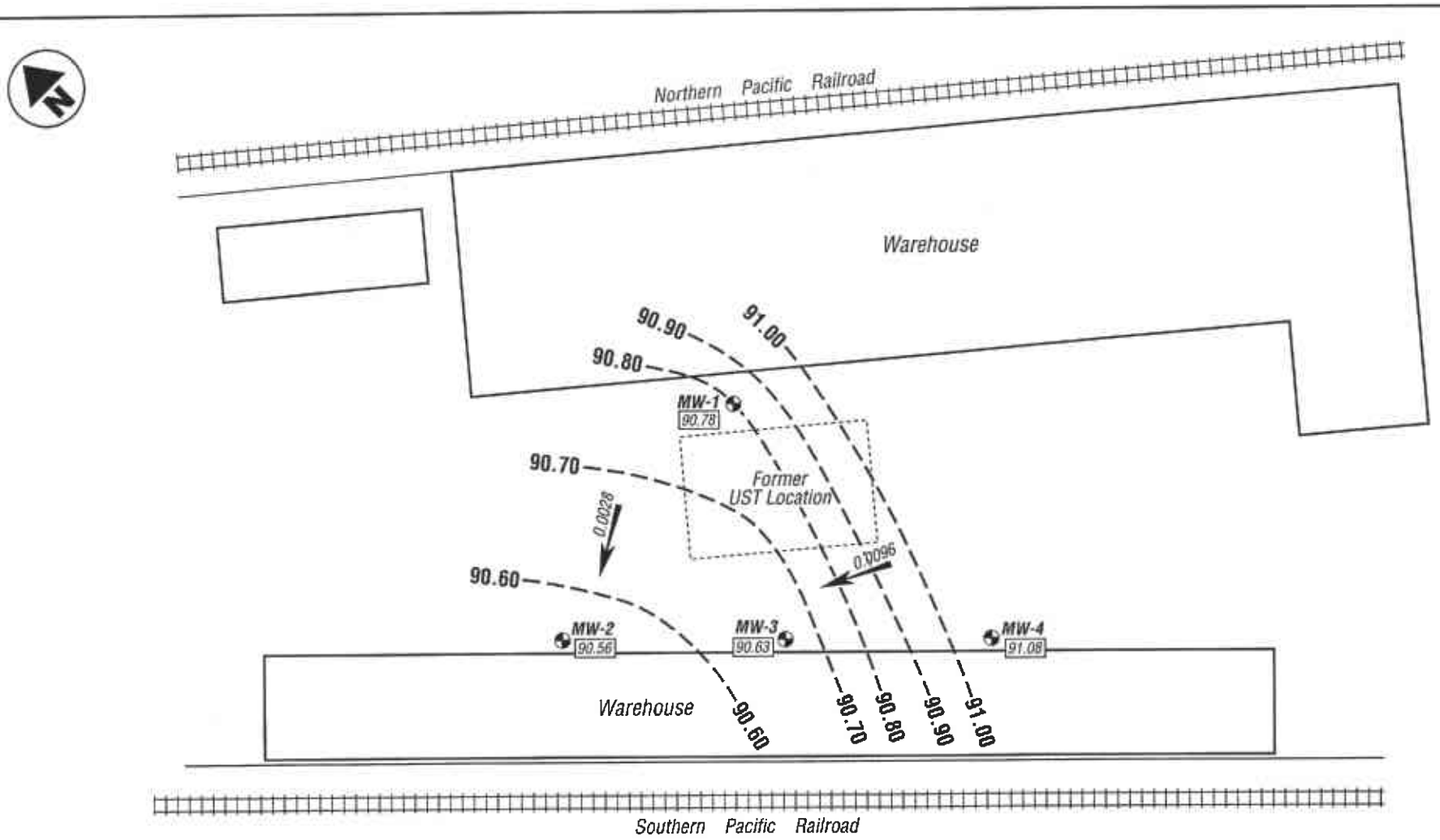
South Oakland Maintenance Station

Alameda County, California

SITE PLAN

GEOCON Proj. No. E8000-06-62

Task Order No. 04-987901-9B | April 2001 | Figure 2



LEGEND:

MW-1 Approximate Monitoring Well Location

Groundwater Elevation Contour (Interval = 0.10 Ft.)

90.56 MSL Elevation of Groundwater

0.0028 Approximate Groundwater Direction & Gradient

0 5 10m

Scale: 1:500

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South Oakland Maintenance Station

Alameda County, California

GROUNDWATER ELEVATION MAP- MARCH 2001

GEOCON Proj. No. E8000-06-62

Task Order No. 04-987901-9B

April 2001

Figure 3

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
SOUTH OAKLAND MAINTENANCE STATION

Well	Date	TPHg (mg/l)	TPHd (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	ETBE (ug/l)	TAME (ug/l)	Tert-butanol (ug/l)	Di-isopropyl ether (ug/l)	Other VOCs (ug/l)
MW1	6/27/2000	0.85	---	20	< 1.0	< 1.0	19	880	---	< 5	< 50	---	---
	9/11/2000	0.92	---	14	< 1.0	1.6	3.6	860	---	< 5	190	---	---
	11/28/2000	< 0.5	---	3.6	< 2.5	< 2.5	< 7.5	610	---	< 25	< 250	---	---
	3/27/2001	< 0.20	---	< 0.50	< 0.50	< 0.50	< 1.0	29	< 5.0	< 5.0	< 200	< 5.0	< 5.0
MW2	6/27/2000	< 0.5	---	< 1.0	< 1.0	< 1.0	< 3.0	86	---	< 5	< 50	---	---
	9/11/2000	< 0.5	---	< 1.0	< 1.0	< 1.0	< 3.0	110	---	< 5	< 50	---	---
	11/28/2000	< 0.5	---	< 1.0	< 1.0	< 1.0	< 3.0	130	---	< 5	< 50	---	---
	3/27/2001	< 0.20	---	< 0.50	< 0.50	< 0.50	< 1.0	110	< 5.0	< 5.0	< 200	< 5.0	< 5.0
MW3	6/27/2000	2.7	< 0.4	73	1.7	1.2	4.6	5,000	---	11	1,500	---	---
	9/11/2000	1.9	---	19	< 1.0	< 1.0	< 3.0	2,700	---	10	310	---	---
	11/28/2000	1.7	---	27	92	< 10	< 30	2,500	---	< 100	< 1,000	---	---
	3/27/2001	5.2	---	220	5.9	2.2	< 1.0	5,500	< 5.0	12	270	< 5.0	Benzene = 280 Ethylbenzene = 7.3 Toluene = 12

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
SOUTH OAKLAND MAINTENANCE STATION

Well	Date	TPHg (mg/l)	TPHd (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	ETBE (ug/l)	TAME (ug/l)	Tert-butanol (ug/l)	Di-isopropyl ether (ug/l)	Other VOCs (ug/l)
MW4	6/27/2000	< 0.5	---	< 1.0	< 1.0	< 1.0	< 3.0	18	---	< 5	< 50	---	---
	9/11/2000	< 0.5	---	< 1.0	< 1.0	< 1.0	< 3.0	< 1.0	---	< 5	< 50	---	---
	11/28/2000	< 0.5	---	< 0.5	< 0.5	< 0.5	< 1.5	< 1.0	---	< 5	< 50	---	---
	3/27/2001	< 0.20	---	< 0.50	< 0.50	< 0.50	< 1.0	< 5.0	< 5.0	< 5.0	< 200	< 5.0	Chloroform = 5.1

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline following EPA Test Method 8015B
TPHd = Total Petroleum Hydrocarbons as diesel following EPA Test Method 8015B
BTEX = benzene, toluene, ethylbenzene, and total xylenes following EPA Test Method 8020
FOCs = Fuel Oxygenate Compounds (tert-butanol, methyl tertiary butylether [MTBE], di-isopropyl ether, ethyl tertiary butylether [ETBE], and tertiary amyl methylether[TAME]) following EPA Test Method 8020/8260B
VOCs = Volatile Organic Compounds following EPA Test Method 8260B
mg/l = milligrams per liter
ug/l = micrograms per liter
--- = Analysis not performed or not reported
< = less than indicated reporting limit

TABLE 1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
SOUTH OAKLAND MAINTENANCE STATION

Well	Date	TOC Elevation (Feet, MSL)	Depth to Water (Feet, BTOC)	Water Elevation (Feet, MSL)
MW1	6/27/2000	99.57	9.13	90.44
	9/11/2000	99.57	9.52	90.05
	11/28/2000	99.57	9.62	89.95
	3/27/2001	99.57	8.79	90.78
MW2	6/27/2000	98.91	9.05	89.86
	9/11/2000	98.91	9.95	88.96
	11/28/2000	98.91	9.94	88.97
	3/27/2001	98.91	8.35	90.56
MW3	6/27/2000	98.98	8.76	90.22
	9/11/2000	98.98	9.28	89.70
	11/28/2000	98.98	9.36	89.62
	3/27/2001	98.98	8.35	90.63
MW4	6/27/2000	99.04	8.74	90.30
	9/11/2000	99.04	9.30	89.74
	11/28/2000	99.04	9.32	89.72
	3/27/2001	99.04	7.96	91.08

Notes:

Feet, BTOC = Feet below top of well casing

TOC = Top of well casing

Feet, MSL = Feet, with respect mean sea level

APPENDIX A

S Oakland Q1, 2001

April 06, 2001

Ross White
Geocon Environmental
5673 W. Las Positas Blvd., Ste 205
Pleasanton, CA 94588
TEL: (925) 469-9750
FAX (925) 469-9749

ELAP No: 1838

RE: S Oakland M.S. - E8000-06-62

Work Order No.: 050400

Attention: Ross White

Enclosed are the results for sample(s) received on April 02, 2001 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Edgar Caballero
Laboratory Director

This cover letter is an integral part of this analytical report.

FAX

Date 4/4/01

Number of pages including cover sheet 1

TO: DIANE/ADRIAN

Phone
Fax Phone

FROM: Ross J. White
Geocon Consultants, Inc.
5673 W. Las Positas Blvd., Suite 205
Pleasanton, CA 94588

Phone 925.469.9750
Fax 925.469.9749

CC:

REMARKS: ☑ Urgent ☐ For your review ☐ Reply ASAP ☐ Please Comment

The water samples you received for [redacted] Geocon's projects:

- South Oakland MS (EB000-06-62), and
- Hegenberger MS (EB000-06-63)

should also be analyzed for FOCs (8260). The COC indicated VOCs/SVOCs (8260).

↑ This should have been FOCs.

If the samples have been analyzed for VOCs w/out FOCs, please re-analyze via 8260 and include FOCs.

Thanks
– Ross

CHAIN OF CUSTODY RECORD

Pg ____ of ____

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____
Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt:
1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☐
2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐
3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Geocon (Pleasanton) Address: 5673 W Las Positas Blvd #105 TEL: (925) 469-9250
Attn: Ross White City: Pleasanton State: CA Zip Code: 94588 FAX: (925) 469-9749

Project Name: S OAKLAND M.S. Project #: E8000-06-02 Sampler: (Printed Name) Travis Mills (Signature)

Relinquished by: (Signature and Printed Name)	Date: 3/	Time: 1700	Received by: (Signature and Printed Name)	Date:	Time: 1700
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date: 4-2-01	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Print Name Date
Signature

Send Report To:
Attn: _____
Co: _____
Address _____
City _____ State ____ Zip ____

Bill To:
Attn: _____
Co: _____
Address _____
City _____ State ____ Zip ____

Special Instructions/Comments:

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other _____
☐ Return To: _____
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCB-GC); 8260 (Volatiles-GC/MS); 625 / 8270 (BNA-GC/MS); Metals-Total (CAC-6010 / 7000); 8015M TPH/BTEX COMBINATION; 8015M TPH/D (Diesel-GC); VOCs 8260; SVOCs 8270

CIRCLE APPROPRIATE MATRIX: SOLID • SOIL • SLUDGE; OIL • SOLVENT • LIQUID; WATER • WASTEWATER; DRINKING WATER; AIR; WIPE • FILTER; OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Container(s): Type	PRESERVATION	REMARKS
	50400-001	MW-4	3/21	1055	E	5	V	H	
	2	MW-3		1130					
	3	MW-2		1205					
	4	MW-1		1230					

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☒ OTHER ☐

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=Hcl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report Yellow to folder, Pink to submitter.

Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-4
Lab Order:	050400		
Project:	S Oakland M.S. - E8000-06-62	**Collection Date:**	3/27/01 10:55:00 AM
Lab ID:	050400-001A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
GRO	ND	0.20		mg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/PID		**EPA 8020A**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
Benzene	ND	0.50		µg/L	1	4/4/01
Ethylbenzene	ND	0.50		µg/L	1	4/4/01
m,p-Xylene	ND	0.50		µg/L	1	4/4/01
o-Xylene	ND	0.50		µg/L	1	4/4/01
Toluene	ND	0.50		µg/L	1	4/4/01

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- DO - Surrogate Diluted Out
- S - Spike/Surrogate outside of limits due to matrix interference.
- H - Samples exceeding analytical holding time
- E - Value above quantitation range
- M - Not Monitored. Highly Reactive

Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-4
Lab Order:	050400		
Project:	S Oakland M.S. - E8000-06-62	**Collection Date:**	3/27/01 10:55:00 AM
Lab ID:	050400-001A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
Di-isopropyl ether	ND	5.0		µg/L	1	4/4/01
Ethyl tert-butyl ether	ND	5.0		µg/L	1	4/4/01
MTBE	ND	5.0		µg/L	1	4/4/01
Tert-amyl methyl ether	ND	5.0		µg/L	1	4/4/01
Tert-Butanol	ND	200		µg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	1	4/4/01
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/4/01
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/4/01
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/4/01
1,1-Dichloroethane	ND	5.0		µg/L	1	4/4/01
1,1-Dichloroethene	ND	5.0		µg/L	1	4/4/01
1,1-Dichloropropene	ND	5.0		µg/L	1	4/4/01
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2,3-Trichloropropane	ND	5.0		µg/L	1	4/4/01
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	4/4/01
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/4/01
1,2-Dibromoethane	ND	5.0		µg/L	1	4/4/01
1,2-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2-Dichloroethane	ND	5.0		µg/L	1	4/4/01
1,2-Dichloropropane	ND	5.0		µg/L	1	4/4/01
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	4/4/01
1,3-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,3-Dichloropropane	ND	5.0		µg/L	1	4/4/01
1,4-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
2,2-Dichloropropane	ND	5.0		µg/L	1	4/4/01
2-Chlorotoluene	ND	5.0		µg/L	1	4/4/01
4-Chlorotoluene	ND	5.0		µg/L	1	4/4/01
4-Isopropyltoluene	ND	5.0		µg/L	1	4/4/01
Benzene	ND	5.0		µg/L	1	4/4/01
Bromobenzene	ND	5.0		µg/L	1	4/4/01
Bromodichloromethane	ND	5.0		µg/L	1	4/4/01
Bromoform	ND	5.0		µg/L	1	4/4/01
Bromomethane	ND	5.0		µg/L	1	4/4/01
Carbon tetrachloride	ND	5.0		µg/L	1	4/4/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials:

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-4
Lab Order:	050400		
Project:	S Oakland M.S. - E8000-06-62	**Collection Date:**	3/27/01 10:55:00 AM
Lab ID:	050400-001A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
Chlorobenzene	ND	5.0		µg/L	1	4/4/01
Chloroethane	ND	5.0		µg/L	1	4/4/01
Chloroform	5.1	5.0		µg/L	1	4/4/01
Chloromethane	ND	5.0		µg/L	1	4/4/01
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	4/4/01
Dibromochloromethane	ND	5.0		µg/L	1	4/4/01
Dibromomethane	ND	5.0		µg/L	1	4/4/01
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/4/01
Ethylbenzene	ND	5.0		µg/L	1	4/4/01
Hexachlorobutadiene	ND	5.0		µg/L	1	4/4/01
Isopropylbenzene	ND	5.0		µg/L	1	4/4/01
m,p-Xylene	ND	5.0		µg/L	1	4/4/01
Methylene chloride	ND	5.0		µg/L	1	4/4/01
n-Butylbenzene	ND	5.0		µg/L	1	4/4/01
n-Propylbenzene	ND	5.0		µg/L	1	4/4/01
Naphthalene	ND	5.0		µg/L	1	4/4/01
o-Xylene	ND	5.0		µg/L	1	4/4/01
sec-Butylbenzene	ND	5.0		µg/L	1	4/4/01
Styrene	ND	5.0		µg/L	1	4/4/01
tert-Butylbenzene	ND	5.0		µg/L	1	4/4/01
Tetrachloroethene	ND	5.0		µg/L	1	4/4/01
Toluene	ND	5.0		µg/L	1	4/4/01
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	4/4/01
Trichloroethene	ND	5.0		µg/L	1	4/4/01
Trichlorofluoromethane	ND	5.0		µg/L	1	4/4/01
Vinyl chloride	ND	5.0		µg/L	1	4/4/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-3
Lab Order:	050400		
Project:	S Oakland M.S. - E8000-06-62	**Collection Date:**	3/27/01 11:30:00 AM
Lab ID:	050400-002A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
GRO	5.2	0.20		mg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/PID		**EPA 8020A**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
Benzene	220	0.50		µg/L	1	4/4/01
Ethylbenzene	2.2	0.50		µg/L	1	4/4/01
m,p-Xylene	ND	0.50		µg/L	1	4/4/01
o-Xylene	ND	0.50		µg/L	1	4/4/01
Toluene	5.9	0.50		µg/L	1	4/4/01

Qualifiers:

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- M - Not Monitored. Highly Reactive

Initials: (P)

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT: Geocon Environmental
Client Sample ID: MW-3
Lab Order: 050400
Project: S Oakland M.S. - E8000-06-62
Collection Date: 3/27/01 11:30:00 AM
Lab ID: 050400-002A
Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
Di-isopropyl ether	ND	5.0		µg/L	1	4/4/01
Ethyl tert-butyl ether	ND	5.0		µg/L	1	4/4/01
MTBE	5500	500		µg/L	100	4/5/01
Tert-amyl methyl ether	12	5.0		µg/L	1	4/4/01
Tert-Butanol	270	200		µg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	1	4/4/01
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/4/01
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/4/01
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/4/01
1,1-Dichloroethane	ND	5.0		µg/L	1	4/4/01
1,1-Dichloroethene	ND	5.0		µg/L	1	4/4/01
1,1-Dichloropropene	ND	5.0		µg/L	1	4/4/01
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2,3-Trichloropropane	ND	5.0		µg/L	1	4/4/01
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	4/4/01
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/4/01
1,2-Dibromoethane	ND	5.0		µg/L	1	4/4/01
1,2-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2-Dichloroethane	ND	5.0		µg/L	1	4/4/01
1,2-Dichloropropane	ND	5.0		µg/L	1	4/4/01
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	4/4/01
1,3-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,3-Dichloropropane	ND	5.0		µg/L	1	4/4/01
1,4-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
2,2-Dichloropropane	ND	5.0		µg/L	1	4/4/01
2-Chlorotoluene	ND	5.0		µg/L	1	4/4/01
4-Chlorotoluene	ND	5.0		µg/L	1	4/4/01
4-Isopropyltoluene	ND	5.0		µg/L	1	4/4/01
Benzene	280	5.0		µg/L	1	4/4/01
Bromobenzene	ND	5.0		µg/L	1	4/4/01
Bromodichloromethane	ND	5.0		µg/L	1	4/4/01
Bromoform	ND	5.0		µg/L	1	4/4/01
Bromomethane	ND	5.0		µg/L	1	4/4/01
Carbon tetrachloride	ND	5.0		µg/L	1	4/4/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials:

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-3
Lab Order:	050400		
Project:	S Oakland M.S. - E8000-06-62	**Collection Date:**	3/27/01 11:30:00 AM
Lab ID:	050400-002A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
Chlorobenzene	ND	5.0		µg/L	1	4/4/01
Chloroethane	ND	5.0		µg/L	1	4/4/01
Chloroform	ND	5.0		µg/L	1	4/4/01
Chloromethane	ND	5.0		µg/L	1	4/4/01
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	4/4/01
Dibromochloromethane	ND	5.0		µg/L	1	4/4/01
Dibromomethane	ND	5.0		µg/L	1	4/4/01
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/4/01
Ethylbenzene	7.3	5.0		µg/L	1	4/4/01
Hexachlorobutadiene	ND	5.0		µg/L	1	4/4/01
Isopropylbenzene	ND	5.0		µg/L	1	4/4/01
m,p-Xylene	ND	5.0		µg/L	1	4/4/01
Methylene chloride	ND	5.0		µg/L	1	4/4/01
n-Butylbenzene	ND	5.0		µg/L	1	4/4/01
n-Propylbenzene	ND	5.0		µg/L	1	4/4/01
Naphthalene	ND	5.0		µg/L	1	4/4/01
o-Xylene	ND	5.0		µg/L	1	4/4/01
sec-Butylbenzene	ND	5.0		µg/L	1	4/4/01
Styrene	ND	5.0		µg/L	1	4/4/01
tert-Butylbenzene	ND	5.0		µg/L	1	4/4/01
Tetrachloroethene	ND	5.0		µg/L	1	4/4/01
Toluene	12	5.0		µg/L	1	4/4/01
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	4/4/01
Trichloroethene	ND	5.0		µg/L	1	4/4/01
Trichlorofluoromethane	ND	5.0		µg/L	1	4/4/01
Vinyl chloride	ND	5.0		µg/L	1	4/4/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: (JD)

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-2
Lab Order:	050400		
Project:	S Oakland M.S. - E8000-06-62	**Collection Date:**	3/27/01 12:05:00 PM
Lab ID:	050400-003A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
GRO	ND	0.20		mg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/PID		**EPA 8020A**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
Benzene	ND	0.50		µg/L	1	4/4/01
Ethylbenzene	ND	0.50		µg/L	1	4/4/01
m,p-Xylene	ND	0.50		µg/L	1	4/4/01
o-Xylene	ND	0.50		µg/L	1	4/4/01
Toluene	ND	0.50		µg/L	1	4/4/01

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- DO - Surrogate Diluted Out
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Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-2
Lab Order:	050400		
Project:	S Oakland M.S. - E8000-06-62	**Collection Date:**	3/27/01 12:05:00 PM
Lab ID:	050400-003A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
Di-isopropyl ether	ND	5.0		µg/L	1	4/4/01
Ethyl tert-butyl ether	ND	5.0		µg/L	1	4/4/01
MTBE	110	5.0		µg/L	1	4/4/01
Tert-amyl methyl ether	ND	5.0		µg/L	1	4/4/01
Tert-Butanol	ND	200		µg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	1	4/4/01
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/4/01
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/4/01
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/4/01
1,1-Dichloroethane	ND	5.0		µg/L	1	4/4/01
1,1-Dichloroethene	ND	5.0		µg/L	1	4/4/01
1,1-Dichloropropene	ND	5.0		µg/L	1	4/4/01
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2,3-Trichloropropane	ND	5.0		µg/L	1	4/4/01
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	4/4/01
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/4/01
1,2-Dibromoethane	ND	5.0		µg/L	1	4/4/01
1,2-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2-Dichloroethane	ND	5.0		µg/L	1	4/4/01
1,2-Dichloropropane	ND	5.0		µg/L	1	4/4/01
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	4/4/01
1,3-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,3-Dichloropropane	ND	5.0		µg/L	1	4/4/01
1,4-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
2,2-Dichloropropane	ND	5.0		µg/L	1	4/4/01
2-Chlorotoluene	ND	5.0		µg/L	1	4/4/01
4-Chlorotoluene	ND	5.0		µg/L	1	4/4/01
4-Isopropyltoluene	ND	5.0		µg/L	1	4/4/01
Benzene	ND	5.0		µg/L	1	4/4/01
Bromobenzene	ND	5.0		µg/L	1	4/4/01
Bromodichloromethane	ND	5.0		µg/L	1	4/4/01
Bromoform	ND	5.0		µg/L	1	4/4/01
Bromomethane	ND	5.0		µg/L	1	4/4/01
Carbon tetrachloride	ND	5.0		µg/L	1	4/4/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
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Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-2
Lab Order:	050400		
Project:	S Oakland M.S. - E8000-06-62	**Collection Date:**	3/27/01 12:05:00 PM
Lab ID:	050400-003A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
Chlorobenzene	ND	5.0		µg/L	1	4/4/01
Chloroethane	ND	5.0		µg/L	1	4/4/01
Chloroform	ND	5.0		µg/L	1	4/4/01
Chloromethane	ND	5.0		µg/L	1	4/4/01
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	4/4/01
Dibromochloromethane	ND	5.0		µg/L	1	4/4/01
Dibromomethane	ND	5.0		µg/L	1	4/4/01
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/4/01
Ethylbenzene	ND	5.0		µg/L	1	4/4/01
Hexachlorobutadiene	ND	5.0		µg/L	1	4/4/01
Isopropylbenzene	ND	5.0		µg/L	1	4/4/01
m,p-Xylene	ND	5.0		µg/L	1	4/4/01
Methylene chloride	ND	5.0		µg/L	1	4/4/01
n-Butylbenzene	ND	5.0		µg/L	1	4/4/01
n-Propylbenzene	ND	5.0		µg/L	1	4/4/01
Naphthalene	ND	5.0		µg/L	1	4/4/01
o-Xylene	ND	5.0		µg/L	1	4/4/01
sec-Butylbenzene	ND	5.0		µg/L	1	4/4/01
Styrene	ND	5.0		µg/L	1	4/4/01
tert-Butylbenzene	ND	5.0		µg/L	1	4/4/01
Tetrachloroethene	ND	5.0		µg/L	1	4/4/01
Toluene	ND	5.0		µg/L	1	4/4/01
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	4/4/01
Trichloroethene	ND	5.0		µg/L	1	4/4/01
Trichlorofluoromethane	ND	5.0		µg/L	1	4/4/01
Vinyl chloride	ND	5.0		µg/L	1	4/4/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: ____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-1
Lab Order:	050400		
Project:	S Oakland M.S. - E8000-06-62	**Collection Date:**	3/27/01 12:30:00 PM
Lab ID:	050400-004A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
GRO	ND	0.20		mg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/PID		**EPA 8020A**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
Benzene	ND	0.50		µg/L	1	4/4/01
Ethylbenzene	ND	0.50		µg/L	1	4/4/01
m,p-Xylene	ND	0.50		µg/L	1	4/4/01
o-Xylene	ND	0.50		µg/L	1	4/4/01
Toluene	ND	0.50		µg/L	1	4/4/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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DO - Surrogate Diluted Out
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H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: (V)

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3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-1
Lab Order:	050400		
Project:	S Oakland M.S. - E8000-06-62	**Collection Date:**	3/27/01 12:30:00 PM
Lab ID:	050400-004A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
Di-isopropyl ether	ND	5.0		µg/L	1	4/4/01
Ethyl tert-butyl ether	ND	5.0		µg/L	1	4/4/01
MTBE	29	5.0		µg/L	1	4/4/01
Tert-amyl methyl ether	ND	5.0		µg/L	1	4/4/01
Tert-Butanol	ND	200		µg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	1	4/4/01
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/4/01
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/4/01
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/4/01
1,1-Dichloroethane	ND	5.0		µg/L	1	4/4/01
1,1-Dichloroethene	ND	5.0		µg/L	1	4/4/01
1,1-Dichloropropene	ND	5.0		µg/L	1	4/4/01
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2,3-Trichloropropane	ND	5.0		µg/L	1	4/4/01
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	4/4/01
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/4/01
1,2-Dibromoethane	ND	5.0		µg/L	1	4/4/01
1,2-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,2-Dichloroethane	ND	5.0		µg/L	1	4/4/01
1,2-Dichloropropane	ND	5.0		µg/L	1	4/4/01
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	4/4/01
1,3-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
1,3-Dichloropropane	ND	5.0		µg/L	1	4/4/01
1,4-Dichlorobenzene	ND	5.0		µg/L	1	4/4/01
2,2-Dichloropropane	ND	5.0		µg/L	1	4/4/01
2-Chlorotoluene	ND	5.0		µg/L	1	4/4/01
4-Chlorotoluene	ND	5.0		µg/L	1	4/4/01
4-Isopropyltoluene	ND	5.0		µg/L	1	4/4/01
Benzene	ND	5.0		µg/L	1	4/4/01
Bromobenzene	ND	5.0		µg/L	1	4/4/01
Bromodichloromethane	ND	5.0		µg/L	1	4/4/01
Bromoform	ND	5.0		µg/L	1	4/4/01
Bromomethane	ND	5.0		µg/L	1	4/4/01
Carbon tetrachloride	ND	5.0		µg/L	1	4/4/01

Qualifiers:

ND - Not Detected at the Reporting Limit
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H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____

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Advanced Technology Laboratories

Print Date: *4/6/01*

CLIENT: Geocon Environmental
Client Sample ID: MW-1
Lab Order: 050400
Project: S Oakland M.S. - E8000-06-62
Collection Date: 3/27/01 12:30:00 PM
Lab ID: 050400-004A
Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404A** BatchID: **Q01VOCW074**						PrepDate:
Chlorobenzene	ND	5.0		µg/L	1	4/4/01
Chloroethane	ND	5.0		µg/L	1	4/4/01
Chloroform	ND	5.0		µg/L	1	4/4/01
Chloromethane	ND	5.0		µg/L	1	4/4/01
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	4/4/01
Dibromochloromethane	ND	5.0		µg/L	1	4/4/01
Dibromomethane	ND	5.0		µg/L	1	4/4/01
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/4/01
Ethylbenzene	ND	5.0		µg/L	1	4/4/01
Hexachlorobutadiene	ND	5.0		µg/L	1	4/4/01
Isopropylbenzene	ND	5.0		µg/L	1	4/4/01
m,p-Xylene	ND	5.0		µg/L	1	4/4/01
Methylene chloride	ND	5.0		µg/L	1	4/4/01
n-Butylbenzene	ND	5.0		µg/L	1	4/4/01
n-Propylbenzene	ND	5.0		µg/L	1	4/4/01
Naphthalene	ND	5.0		µg/L	1	4/4/01
o-Xylene	ND	5.0		µg/L	1	4/4/01
sec-Butylbenzene	ND	5.0		µg/L	1	4/4/01
Styrene	ND	5.0		µg/L	1	4/4/01
tert-Butylbenzene	ND	5.0		µg/L	1	4/4/01
Tetrachloroethene	ND	5.0		µg/L	1	4/4/01
Toluene	ND	5.0		µg/L	1	4/4/01
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	4/4/01
Trichloroethene	ND	5.0		µg/L	1	4/4/01
Trichlorofluoromethane	ND	5.0		µg/L	1	4/4/01
Vinyl chloride	ND	5.0		µg/L	1	4/4/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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H - Samples exceeding analytical holding time
E - Value above quantitation range
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Initials: [illegible]

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Advanced Technology Laboratories

Date: *06-Apr-01*

CLIENT: Geocon Environmental
Work Order: 050400
Project: S Oakland M.S. - E8000-06-62

QC SUMMARY REPORT
Method Blank

Sample ID **010404BLKW2** Batch ID: **I018G20W055** Test Name **GASOLINE RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date:
MBLK SeqNo: **115676**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.20									J

Sample ID **010404BLKW2** Batch ID: **I018G20W055** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/PID** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
MBLK SeqNo: **115662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									
Toluene	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials:

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CLIENT: Geocon Environmental
Work Order: 050400
Project: S Oakland M.S. - E8000-06-62

QC SUMMARY REPORT
Method Blank

Sample ID **010404BLKW1** Batch ID: **Q01VOCW074** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/4/01** Prep Date:

MBLK SeqNo: **115730**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2-Chloroethyl vinyl ether	ND	5.0									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Ethyl tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank; M - Not Monitored. Highly Reactive; S - Spike/Surrogate outside of limits due to matrix interference; DO - Surrogate Diluted Out

Initials: [illegible]

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CLIENT: Geocon Environmental
Work Order: 050400
Project: S Oakland M.S. - E8000-06-62

QC SUMMARY REPORT
Method Blank

o-Xylene	ND	5.0
Tert-amyl methyl ether	ND	5.0
Tert-Butanol	ND	200
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	5.0

Sample ID **010404BLKW3** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:

MBLK SeqNo: **115752**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	ND	5.0									
Ethyl tert-butyl ether	ND	5.0									
MTBE	ND	5.0									
Tert-amyl methyl ether	ND	5.0									
Tert-Butanol	ND	200									

Qualifiers:
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

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CLIENT: Geocon Environmental
Work Order: 050400
Project: S Oakland M.S. - E8000-06-62

QC SUMMARY REPORT
Method Blank

Sample ID **010404BLKW1** Batch ID: **Q01VOCW074** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
MBLK SeqNo: **115382**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	5.0									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: [illegible]

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CLIENT: Geocon Environmental
Work Order: 050400
Project: S Oakland M.S. - E8000-06-62

QC SUMMARY REPORT
Method Blank

Bromomethane	ND	5.0
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	5.0
Chloroform	ND	5.0
Chloromethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Dibromomethane	ND	5.0
Dichlorodifluoromethane	ND	5.0
Ethylbenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Isopropylbenzene	ND	5.0
m,p-Xylene	ND	5.0
Methylene chloride	ND	5.0
n-Butylbenzene	ND	5.0
n-Propylbenzene	ND	5.0
Naphthalene	ND	5.0
o-Xylene	ND	5.0
sec-Butylbenzene	ND	5.0
Styrene	ND	5.0
tert-Butylbenzene	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	5.0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
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S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials:

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CLIENT: Geocon Environmental
Work Order: 050400
Project: S Oakland M.S. - E8000-06-62

QC SUMMARY REPORT
Method Blank

Sample ID **010404BLKW3** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:

MBLK SeqNo: **115742**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	5.0									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Butanone	ND	50									
2-Chloroethyl vinyl ether	ND	5.0									
2-Chlorotoluene	ND	5.0									
2-Hexanone	ND	50									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
4-Methyl-2-pentanone	ND	50									

Qualifiers: ND - Not Detected at the Reporting Limit; B - Analyte detected in the associated Method Blank; DO - Surrogate Diluted Out
J - Analyte detected below quantitation limits; M - Not Monitored. Highly Reactive
R - RPD outside accepted recovery limits; S - Spike/Surrogate outside of limits due to matrix interference

Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Environmental
Work Order: 050400
Project: S Oakland M.S. - E8000-06-62

QC SUMMARY REPORT
Method Blank

Acetone	ND	50
Acrolein	ND	50
Acrylonitrile	ND	50
Benzene	ND	5.0
Bromobenzene	ND	5.0
Bromochloromethane	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	5.0
Carbon disulfide	ND	5.0
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	5.0
Chloroform	ND	5.0
Chloromethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
Cyclohexanone	ND	50
Dibromochloromethane	ND	5.0
Dibromomethane	ND	5.0
Dichlorodifluoromethane	ND	5.0
Ethyl Acetate	ND	50
Ethyl Ether	ND	50
Ethylbenzene	ND	5.0
Freon-113	ND	5.0
Hexachlorobutadiene	ND	5.0
Iodomethane	ND	5.0
Isopropylbenzene	ND	5.0
m,p-Xylene	ND	5.0
Methylene chloride	ND	5.0
MTBE	ND	5.0
n-Butylbenzene	ND	5.0
n-Propylbenzene	ND	5.0

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: [illegible]

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Environmental
Work Order: 050400
Project: S Oakland M.S. - E8000-06-62

QC SUMMARY REPORT
Method Blank

Naphthalene	ND	5.0						
o-Xylene	ND	5.0						
sec-Butylbenzene	ND	5.0						
Styrene	ND	5.0						
tert-Butylbenzene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,2-Dichloroethene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Trichlorofluoromethane	ND	5.0						
Vinyl acetate	ND	50						
Vinyl chloride	ND	5.0						
Xylenes, Total	ND	10	50	0	0	0	0	0

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials:

Advanced Technology Laboratories
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Advanced Technology Laboratories

Date: *06-Apr-01*

CLIENT: Geocon Environmental
Work Order: 050400
Project: S Oakland M.S. - E8000-06-62

QC SUMMARY REPORT
Sample Duplicate

Sample ID **050402-002A** Batch ID: **I018G20W055** Test Name **GASOLINE RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date:
DUP SeqNo: **115682**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.163	0.20	0	0	0	0	0	0.198	19	30	J

Sample ID **050402-002A** Batch ID: **I018G20W055** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/PID** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
DUP SeqNo: **115668**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.66	0.50	0	0	0	0	0	2.732	3	30	
Ethylbenzene	ND	0.50	0	0	0	0	0	0	0	30	
m,p-Xylene	0.841	0.50	0	0	0	0	0	0.84	0	30	
o-Xylene	ND	0.50	0	0	0	0	0	0	0	30	
Toluene	0.785	0.50	0	0	0	0	0	0.817	4	30	

Sample ID **050405-001A** Batch ID: **Q01VOCW074** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
DUP SeqNo: **115732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	ND	5.0	0	0	0	0	0	0	0	30	
Ethyl tert-butyl ether	ND	5.0	0	0	0	0	0	0	0	30	
MTBE	ND	5.0	0	0	0	0	0	0	0	30	
Tert-amyl methyl ether	ND	5.0	0	0	0	0	0	0	0	30	
Tert-Butanol	ND	200	0	0	0	0	0	0	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
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M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

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QC SUMMARY REPORT
Sample Duplicate

Sample ID **050404-002A** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:

DUP SeqNo: **115760**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	9.65	5.0	0	0	0	0	0	10.87	12	30	
Ethyl tert-butyl ether	ND	5.0	0	0	0	0	0	0	0	30	
MTBE	ND	5.0	0	0	0	0	0	0	0	30	
Tert-amyl methyl ether	ND	5.0	0	0	0	0	0	0	0	30	
Tert-Butanol	ND	200	0	0	0	0	0	0	0	30	

Qualifiers:
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QC SUMMARY REPORT
Sample Duplicate

Sample ID **050405-001A DUP** Batch ID: **Q01VOCW074** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
SeqNo: **115719**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0	0	0	0	0	0	0	0	30	
1,1,1-Trichloroethane	ND	5.0	0	0	0	0	0	0	0	30	
1,1,2,2-Tetrachloroethane	ND	5.0	0	0	0	0	0	0	0	30	
1,1,2-Trichloroethane	ND	5.0	0	0	0	0	0	0	0	30	
1,1-Dichloroethane	ND	5.0	0	0	0	0	0	0	0	30	
1,1-Dichloroethene	ND	5.0	0	0	0	0	0	0	0	30	
1,1-Dichloropropene	ND	5.0	0	0	0	0	0	0	0	30	
1,2,3-Trichlorobenzene	ND	5.0	0	0	0	0	0	0	0	30	
1,2,3-Trichloropropane	ND	5.0	0	0	0	0	0	0	0	30	
1,2,4-Trichlorobenzene	ND	5.0	0	0	0	0	0	0	0	30	
1,2,4-Trimethylbenzene	ND	5.0	0	0	0	0	0	0	0	30	
1,2-Dibromo-3-chloropropane	ND	5.0	0	0	0	0	0	0	0	30	
1,2-Dibromoethane	ND	5.0	0	0	0	0	0	0	0	30	
1,2-Dichlorobenzene	ND	5.0	0	0	0	0	0	0	0	30	
1,2-Dichloroethane	ND	5.0	0	0	0	0	0	0	0	30	
1,2-Dichloropropane	ND	5.0	0	0	0	0	0	0	0	30	
1,3,5-Trimethylbenzene	7.5	5.0	0	0	0	0	0	7.72	3	30	
1,3-Dichlorobenzene	ND	5.0	0	0	0	0	0	0	0	30	
1,3-Dichloropropane	ND	5.0	0	0	0	0	0	0	0	30	
1,4-Dichlorobenzene	ND	5.0	0	0	0	0	0	0	0	30	
2,2-Dichloropropane	ND	5.0	0	0	0	0	0	0	0	30	
2-Chlorotoluene	ND	5.0	0	0	0	0	0	0	0	30	
4-Chlorotoluene	ND	5.0	0	0	0	0	0	0	0	30	
4-Isopropyltoluene	8.44	5.0	0	0	0	0	0	8.45	0	30	
Benzene	66.51	5.0	0	0	0	0	0	67.23	1	30	
Bromobenzene	ND	5.0	0	0	0	0	0	0	0	30	
Bromodichloromethane	ND	5.0	0	0	0	0	0	0	0	30	
Bromoform	ND	5.0	0	0	0	0	0	0	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit
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QC SUMMARY REPORT

Sample Duplicate

Bromomethane	ND	5.0	0	0	0	0	0	0	0	30
Carbon tetrachloride	ND	5.0	0	0	0	0	0	0	0	30
Chlorobenzene	ND	5.0	0	0	0	0	0	0	0	30
Chloroethane	ND	5.0	0	0	0	0	0	0	0	30
Chloroform	ND	5.0	0	0	0	0	0	0	0	30
Chloromethane	ND	5.0	0	0	0	0	0	0	0	30
cis-1,2-Dichloroethene	ND	5.0	0	0	0	0	0	0	0	30
Dibromochloromethane	ND	5.0	0	0	0	0	0	0	0	30
Dibromomethane	ND	5.0	0	0	0	0	0	0	0	30
Dichlorodifluoromethane	ND	5.0	0	0	0	0	0	0	0	30
Ethylbenzene	182.2	5.0	0	0	0	0	0	188.5	3	30
Hexachlorobutadiene	ND	5.0	0	0	0	0	0	0	0	30
Isopropylbenzene	170.8	5.0	0	0	0	0	0	175.2	3	30
m,p-Xylene	40.51	5.0	0	0	0	0	0	40.87	1	30
Methylene chloride	ND	5.0	0	0	0	0	0	0	0	30
n-Butylbenzene	25.37	5.0	0	0	0	0	0	25.56	1	30
n-Propylbenzene	272.5	5.0	0	0	0	0	0	282	3	30
Naphthalene	45.18	5.0	0	0	0	0	0	45.44	1	30
o-Xylene	ND	5.0	0	0	0	0	0	0	0	30
sec-Butylbenzene	12.16	5.0	0	0	0	0	0	12.5	3	30
Styrene	ND	5.0	0	0	0	0	0	0	0	30
tert-Butylbenzene	20.73	5.0	0	0	0	0	0	21.42	3	30
Tetrachloroethene	ND	5.0	0	0	0	0	0	0	0	30
Toluene	24.39	5.0	0	0	0	0	0	24.55	1	30
trans-1,2-Dichloroethene	ND	5.0	0	0	0	0	0	0	0	30
Trichloroethene	ND	5.0	0	0	0	0	0	0	0	30
Trichlorofluoromethane	ND	5.0	0	0	0	0	0	0	0	30
Vinyl chloride	ND	5.0	0	0	0	0	0	0	0	30

Qualifiers:
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Date: *06-Apr-01*

CLIENT: Geocon Environmental
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QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **010404BLKW1** Batch ID: **I018G20W055** Test Name **GASOLINE RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date:
MS SeqNo: **115673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.919	0.20	1	0.056	86	50	119	0			

Sample ID **010404BLKW1** Batch ID: **I018G20W055** Test Name **GASOLINE RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date:
MSD SeqNo: **115674**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.934	0.20	1	0.056	88	50	119	0.919	2	20	

Sample ID **010404BLKW1** Batch ID: **I018G20W055** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/PID** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
MS SeqNo: **115659**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	4.843	0.50	5.5	0	88	60	136	0			
Toluene	25.96	0.50	30	0	87	61	128	0			

Sample ID **010404BLKW1** Batch ID: **I018G20W055** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/PID** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
MSD SeqNo: **115660**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	4.872	0.50	5.5	0	89	60	136	4.843	1	18	
Toluene	25.82	0.50	30	0	86	61	128	25.96	1	22	

Qualifiers:
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QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **010404BLKW1** Batch ID: **Q01VOCW074** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/4/01** Prep Date:

MS SeqNo: **115380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	111.1	5.0	100	0	111	71	120	0			
Benzene	114.1	5.0	100	0	114	82	122	0			
Chlorobenzene	101.2	5.0	100	0	101	81	121	0			
Toluene	112.1	5.0	100	0	112	81	125	0			
Trichloroethene	113.3	5.0	100	0	113	80	123	0			

Sample ID **010404BLKW1** Batch ID: **Q01VOCW074** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/4/01** Prep Date:

MSD SeqNo: **115381**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	97.13	5.0	100	0	97	71	120	111.1	13	21	
Benzene	102.7	5.0	100	0	103	82	122	114.1	11	19	
Chlorobenzene	92.3	5.0	100	0	92	81	121	101.2	9	18	
Toluene	99.46	5.0	100	0	99	81	125	112.1	12	20	
Trichloroethene	102.5	5.0	100	0	102	80	123	113.3	10	20	

Sample ID **010404BLKW3** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:

MS SeqNo: **115740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	117.6	5.0	100	0	118	71	120	0			
Benzene	121.1	5.0	100	0	121	82	122	0			
Chlorobenzene	113.9	5.0	100	0	114	81	121	0			
Toluene	119.7	5.0	100	0	120	81	125	0			
Trichloroethene	107.7	5.0	100	0	108	80	123	0			

Qualifiers:
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DO - Surrogate Diluted Out

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QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Sample ID **010404BLKW3** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:

MSD SeqNo: **115741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	114	5.0	100	0	114	71	120	117.6	3	21	
Benzene	121.2	5.0	100	0	121	82	122	121.1	0	19	
Chlorobenzene	112.3	5.0	100	0	112	81	121	113.9	1	18	
Toluene	117.7	5.0	100	0	118	81	125	119.7	2	20	
Trichloroethene	111.7	5.0	100	0	112	80	123	107.7	4	20	

Qualifiers:
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DO - Surrogate Diluted Out

Initials: W

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Date: *06-Apr-01*

CLIENT: Geocon Environmental
Work Order: 050400
Project: S Oakland M.S. - E8000-06-62

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **010404LCSW1** Batch ID: **I018G20W055** Test Name **GASOLINE RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date:

LCS SeqNo: **115686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.869	0.20	1	0.056	81	64	107	0			

Sample ID **010404LCSW1** Batch ID: **I018G20W055** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/PID** Units **µg/L** Analysis Date: **4/4/01** Prep Date:

LCS SeqNo: **115672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5.676	0.50	5.5	0	103	58	131	0			
Ethylbenzene	7.399	0.50	8.6	0	86	58	131	0			
m,p-Xylene	30.83	0.50	35	0	88	58	131	0			
o-Xylene	11.12	0.50	12	0	93	58	131	0			
Toluene	24.45	0.50	30	0	81	58	131	0			

Qualifiers:
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QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **010404LCSW1** Batch ID: **Q01VOCW074** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/4/01** Prep Date:

LCS SeqNo: **115379**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	115.4	5.0	100	0	115	30	150	0			
1,1,2,2-Tetrachloroethane	90.14	5.0	100	0	90	30	150	0			
1,1,2-Trichloroethane	123.1	5.0	100	0	123	30	150	0			
1,1-Dichloroethane	115.8	5.0	100	0	116	30	150	0			
1,1-Dichloroethene	117.3	5.0	100	0	117	30	150	0			
1,2-Dichlorobenzene	87.61	5.0	100	0	88	30	150	0			
1,2-Dichloroethane	128.2	5.0	100	0	128	30	150	0			
1,2-Dichloropropane	117.4	5.0	100	0	117	30	150	0			
1,3-Dichlorobenzene	86.84	5.0	100	0	87	30	150	0			
1,3-Dichloropropane	107.7	5.0	100	0	108	30	150	0			
1,4-Dichlorobenzene	89.14	5.0	100	0	89	30	150	0			
2-Chlorotoluene	89.67	5.0	100	0	90	30	150	0			
Benzene	122	5.0	100	0	122	30	150	0			
Bromodichloromethane	118.2	5.0	100	0	118	30	150	0			
Bromoform	117.5	5.0	100	0	118	30	150	0			
Bromomethane	108.4	5.0	100	0	108	30	150	0			
Carbon tetrachloride	113	5.0	100	0	113	30	150	0			
Chlorobenzene	109.9	5.0	100	0	110	30	150	0			
Chloroethane	119.9	5.0	100	0	120	30	150	0			
Chloroform	118.9	5.0	100	0	119	30	150	0			
Chloromethane	120.3	5.0	100	0	120	30	150	0			
Dibromomethane	128.6	5.0	100	0	129	30	150	0			
Dichlorodifluoromethane	130.2	5.0	100	0	130	30	150	0			
Ethylbenzene	107.4	5.0	100	0	107	30	150	0			
m,p-Xylene	220.1	5.0	200	0	110	30	150	0			
Methylene chloride	116	5.0	100	0	116	30	150	0			
o-Xylene	108.9	5.0	100	0	109	30	150	0			
Tetrachloroethene	110.8	5.0	100	0	111	30	150	0			

Qualifiers:
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DO - Surrogate Diluted Out

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QC SUMMARY REPORT

Laboratory Control Spike - generic

Toluene	118.6	5.0	100	0	119	30	150	0
trans-1,2-Dichloroethene	112.9	5.0	100	0	113	30	150	0
Trichloroethene	123.8	5.0	100	0	124	30	150	0
Trichlorofluoromethane	123.3	5.0	100	0	123	30	150	0
Vinyl chloride	114.6	5.0	100	0	115	30	150	0

Qualifiers:
ND - Not Detected at the Reporting Limit
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Initials: (R)

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QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID **010404LCSW2** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:

LCS SeqNo: **115739**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	115.4	5.0	100	0	115	30	150	0			
1,1,2,2-Tetrachloroethane	88.22	5.0	100	0	88	30	150	0			
1,1,2-Trichloroethane	124.5	5.0	100	0	124	30	150	0			
1,1-Dichloroethane	113.5	5.0	100	0	113	30	150	0			
1,1-Dichloroethene	117.8	5.0	100	0	118	30	150	0			
1,2-Dichlorobenzene	91.49	5.0	100	0	91	30	150	0			
1,2-Dichloroethane	127.1	5.0	100	0	127	30	150	0			
1,2-Dichloropropane	120.8	5.0	100	0	121	30	150	0			
1,3-Dichlorobenzene	93.26	5.0	100	0	93	30	150	0			
1,3-Dichloropropane	109.4	5.0	100	0	109	30	150	0			
1,4-Dichlorobenzene	94.92	5.0	100	0	95	30	150	0			
2-Chloroethyl vinyl ether	95.28	5.0	100	0	95	30	150	0			
2-Chlorotoluene	93.54	5.0	100	0	94	30	150	0			
Benzene	123.9	5.0	100	0	124	30	150	0			
Bromodichloromethane	118.7	5.0	100	0	119	30	150	0			
Bromoform	117	5.0	100	0	117	30	150	0			
Bromomethane	104.3	5.0	100	0	104	30	150	0			
Carbon tetrachloride	114.7	5.0	100	0	115	30	150	0			
Chlorobenzene	111.3	5.0	100	0	111	30	150	0			
Chloroethane	122.1	5.0	100	0	122	30	150	0			
Chloroform	117	5.0	100	0	117	30	150	0			
Chloromethane	136.2	5.0	100	0	136	30	150	0			
cis-1,3-Dichloropropene	106.2	5.0	100	0	106	30	150	0			
Dibromomethane	127.3	5.0	100	0	127	30	150	0			
Dichlorodifluoromethane	131.4	5.0	100	0	131	30	150	0			
Ethylbenzene	110.5	5.0	100	0	111	30	150	0			
m,p-Xylene	222.5	5.0	200	0	111	30	150	0			
Methylene chloride	117.4	5.0	100	0	117	30	150	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

Advanced Technology Laboratories
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CLIENT: Geocon Environmental
Work Order: 050400
Project: S Oakland M.S. - E8000-06-62

QC SUMMARY REPORT

Laboratory Control Spike - generic

MTBE	114	5.0	100	0	114	30	150	0
o-Xylene	111	5.0	100	0	111	30	150	0
Tetrachloroethene	112.4	5.0	100	0	112	30	150	0
Toluene	120.1	5.0	100	0	120	30	150	0
trans-1,2-Dichloroethene	112.3	5.0	100	0	112	30	150	0
trans-1,3-Dichloropropene	104.4	5.0	100	0	104	30	150	0
Trichloroethene	131	5.0	100	0	131	30	150	0
Trichlorofluoromethane	122.2	5.0	100	0	122	30	150	0
Vinyl chloride	118	5.0	100	0	118	30	150	0
Xylenes, Total	333.5	10	300	0	111	30	150	0

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