aqua science engineers inc.

ALCO HAZMAT

94 APR 18 PM 1:01

April 14, 1994

RWQCB
2101 Webster Street, Suite 500
Oakland, CA 94612

Stockpile soil results attached

ATTENTION: Mr. Rich Hiett

SUBJECT: On-site Excavation Pit Water
5293 Crow Canyon Road
Castro Valley, California

Dear Mr. Hiett:

Please accept this letter as follow-up to our telephone conversation on April 12, 1994. Aqua Science Engineers (ASE) has been contracted by the property owners of the subject property to backfill the open excavation at the subject site. The excavation is the former resting place of 3-8,000 gallon gasoline underground storage tanks (removed in 1989). Since the UST removal, the excavation has remained open and has collected rain water. The excavation is filled with approximately 10,000+ gallons of water, underwater foliage/weeds, and minnow-like fish. In order to properly backfill the excavation with clean imported fill, ASE has recommended to our clients that the water be evacuated from the pit prior to backfilling.

On March 23, 1994 ASE personnel collected a representative water sample from the excavation using a new disposable bailer (sample PW-1). The water sample was decanted from the bailer into three preserved 40-ml glass VOAs and two preserved 1-liter amber glass sample containers. The sample containers were labeled and placed immediately on ice for cold storage prior to delivery to the analytical laboratory. The water samples were delivered under chain of custody to American Environmental Network, a CAL-EPA certified analytical laboratory (DOHS No. 1172) where they were analyzed for TPH as gasoline by EPA method 8015M, for BTEX by EPA method 8020, and for oil & grease by EPA methods 5520 C & F. These analyses were chosen because of the contents of the former USTs on site. The laboratory results indicated N.D. levels for all constituents tested, see Appendix A for a copy of the analytical report.

Upon your recommendation, ASE has plans to remove the water from the excavation and use it as dust control and moisture-content control of the soils on site during backfilling operations. The subject water will not be allowed to collect, pool, or leave the subject site.

ASE and its clients appreciate your assistance and consideration regarding this matter. If you have any questions or comments, please feel free to give us a call at (510) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

David Allen
Project Manager

cc: Mr. Mel Gerton, Property Ownership Representative
Mr. Scott Seery, Alameda County Health Care Services Agency

APPENDIX A

CAL-EPA Certified Analytical
Laboratory Report of Water Samples

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172 AIHA Accreditation: 11134

AQUA SCIENCE ENGINEERING, INC
2411 OLD CROW CANYON RD. #4
SAN RAMON, CA 94583

ATTN: ROBERT KITAY
CLIENT PROJ. ID: 2740
CLIENT PROJ. NAME: CROW CANYON RD

REPORT DATE: 04/11/94
DATE(S) SAMPLED: 03/23/94
DATE RECEIVED: 03/23/94
AEN WORK ORDER: 9403256

PROJECT SUMMARY:

On March 23, 1994, this laboratory received 5 (4 soil and 1 water) sample(s).

Client requested samples be analyzed for organic parameters. Sample identification, methodologies, results and dates analyzed are summarized on the following page.

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein
General Manager

AQUA SCIENCE ENGINEERS, INC.

DATE SAMPLED: 03/23/94
DATE RECEIVED: 03/23/94
CLIENT PROJ. ID: 2740

REPORT DATE: 04/11/94
AEN JOB NO: 9403256

Client Sample Id	AEN Lab Id	Purgeable Hydrocarbons as Gasoline (mg/kg)	Oil & Grease (mg/kg)	Hydrocarbons (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
STKP-A	01A	ND	50	30	ND	ND	ND	ND
STKP-B	02A	ND	340	210	ND	ND	ND	ND
STKP-C	03A	ND	90	70	ND	ND	ND	ND
STKP-D	04A	ND	90	60	ND	ND	ND	ND
Reporting Limit		0.2	10	10	0.005	0.005	0.005	0.005
EPA Method:		5030 GCFID	5520E	5520F	8020	8020	8020	8020
Date Extracted:		NA	03/28/94	03/28/94	NA	NA	NA	NA
Date Analyzed:		03/28-29/94	03/29/94	03/29/94	03/28-29/94	03/28-29/94	03/28-29/94	03/28-29/94
PW-1	05	ND ug/L	ND ug/L	ND ug/L	ND ug/L	ND ug/L	ND ug/L	ND ug/L
Reporting Limit		50 ug/L	1000 ug/L	1000 ug/L	0.5 ug/L	0.5 ug/L	0.5 ug/L	2 ug/L
EPA Method:		5030 GCFID	5520C	5520F	8020	8020	8020	8020
Date Extracted:		NA	03/29/94	03/29/94	NA	NA	NA	NA
Date Analyzed:		03/29/94	03/29/94	03/29/94	03/29/94	03/29/94	03/29/94	03/29/94

NA = Not Applicable
ND = Not Detected

Per S Seery's notes to case file dated 4/6/94, the stockpile soil was not used as backfill & was to be bioremediated on site. A w/plan was to be submitted for this task.

AEN (CALIFORNIA)
QUALITY CONTROL REPORT

AEN JOB NUMBER: 9403256

CLIENT PROJECT ID: 2740

Quality Control Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

The following abbreviations are found throughout the QC report:

ND = Not Detected at or above the reporting limit
RPD = Relative Percent Difference
< = Less Than

QUALITY CONTROL DATA

DATE EXTRACTED: 03/28/94
DATE ANALYZED: 03/28/94
CLIENT PROJ. ID: 2740

AEN JOB NO: 9403256
SAMPLE SPIKED: 9403269-05
INSTRUMENT: IR

IR DETERMINATION FOR OIL & GREASE/HYDROCARBONS
MATRIX SPIKE RECOVERY SUMMARY
(SOIL MATRIX)

ANALYTE	Spike Added (mg/kg)	Average Percent Recovery	RPD
Oil	251	81	<1

CURRENT QC LIMITS

Analyte	Percent Recovery	RPD
Oil	(70-118)	18

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

DATE EXTRACTED: 03/29/94
DATE ANALYZED: 03/29/94
CLIENT PROJ. ID: 2740

AEN JOB NO: 9403256
SAMPLE SPIKED: DI WATER
INSTRUMENT: ME1

GRAVIMETRIC DETERMINATION/OIL AND GREASE
METHOD SPIKE RECOVERY SUMMARY
STANDARD METHOD 5520 (WATER MATRIX)

ANALYTE	Spike Added (mg/L)	Duplicate Spike Added (mg/L)	Average Percent Recovery	RPD
Oil	52.6	79.1	92	2

CURRENT QC LIMITS

Analyte	Percent Recovery	RPD
Oil	(92-100)	5

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

CLIENT PROJ. ID: 2740

AEN JOB NO: 9403256

INSTRUMENT: H

SURROGATE STANDARD RECOVERY SUMMARY
METHOD: EPA 8020, 5030 GCFID
(SOIL MATRIX)

Date Analyzed	SAMPLE IDENTIFICATION Client Id.	Lab Id.	SURROGATE RECOVERY (PERCENT) Fluorobenzene
03/28/94	STKP-A	01	105
03/28/94	STKP-B	02	105
03/29/94	STKP-C	03	100
03/28/94	STKP-D	04	102

CURRENT QC LIMITS

ANALYTE	PERCENT RECOVERY
Fluorobenzene	(78-114)

QUALITY CONTROL DATA

DATE ANALYZED: 03/29/94
SAMPLE SPIKED: 9403206-11
CLIENT PROJ. ID: 2740

AEN JOB NO: 9403256
INSTRUMENT: H

MATRIX SPIKE RECOVERY SUMMARY
METHOD: EPA 8020, 5030 GCFID
(SOIL MATRIX)

ANALYTE	Spike Added (ug/kg)	Average Percent Recovery	RPD
Benzene	16.9	118	8
Toluene	64.9	114	8
Hydrocarbons as Gasoline	1000	99	5

CURRENT QC LIMITS

Analyte	Percent Recovery	RPD
Benzene	(81-127)	11
Toluene	(84-121)	14
Gasoline	(66-116)	20

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

CLIENT PROJ. ID: 2740

AEN JOB NO: 9403256

INSTRUMENT: F

SURROGATE STANDARD RECOVERY SUMMARY
METHOD: EPA 8020, 5030 GCFID
(WATER MATRIX)

Date Analyzed	SAMPLE IDENTIFICATION		SURROGATE RECOVERY (PERCENT)
	Client Id.	Lab Id.	Fluorobenzene
03/29/94	PW-1	05	101

CURRENT QC LIMITS

ANALYTE	PERCENT RECOVERY
Fluorobenzene	(70-115)

QUALITY CONTROL DATA

DATE ANALYZED: 03/29/94

CLIENT PROJ. ID: 2740

AEN JOB NO: 9403256
SAMPLE SPIKED: LCS
INSTRUMENT: F

LABORATORY CONTROL SAMPLE
METHOD: EPA 8020, 5030 GCFID
(WATER MATRIX)

ANALYTE	Spike Added (ug/L)	Percent Recovery
Benzene	10.0	98
Toluene	34.7	98
Hydrocarbons as Gasoline	500	96

CURRENT QC LIMITS

Analyte	Percent Recovery
Benzene	(65-122)
Toluene	(67-124)
Gasoline	(60-125)

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

*** END OF REPORT ***

R-4,5-A

9403256

Aqua Science Engineers, Inc.
2411 Old Crow Canyon Road, #4,
San Ramon, CA 94583
(510) 820-9391 - FAX (510) 837-4853

Chain of Custody

DATE 3-23-94 PAGE 1 OF 1

SAMPLERS (SIGNATURE) C. Allen (PHONE NO.) 820-9391

PROJECT NAME CROW CANYON R.D. NO. 2790

ADDRESS 52-93 CROW CANYON RD. C.V.

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:

	SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH: GASOLINE (EPA 5030/8015)	TPH: GASOLINE/BTEX (EPA 5030/8015-8020)	TPH: DIESEL (EPA 3510/8015)	PURGABLE AROMATICS (EPA 602/8020)	PURGABLE HALOCARBONS (EPA 601/8010)	VOLATILE ORGANICS (EPA 624/8240)	BASE/NUETRALS, ACIDS (EPA 625/8270)	OIL & GREASE (EPA 5520 E&F or B&F)	LUFT METALS (5) (EPA 6010+7000)	TITLE 22 (CAM 17) (EPA 6010+7000)	TCLP (EPA 1311/1310)	STLC- CAM WET (EPA 1311/1310)	REACTIVITY CORROSIVITY IGNITABILITY
01A	STKP-A	3/23	11:30	SOIL	1		X						X					
02A	STKP-B	"	12:15	"	1		X						X					
03A	STKP-C	"	12:35	"	1		X						X					
04A	STKP-D	"	12:55	"	1		X						X					
05A-E	PW-1	"	11:00	H_2O	5		X						X					

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY LABORATORY:	COMMENTS:
C. Allen 1:30	13:30	18:20	Denise Harrington	REGULAR TURNAROUND TIME.
(signature) (time)	(signature) (time)	(signature) (time)	(signature) (time)	
D. ALLEN 3-23-94	NEIL HERRICK 3/23/94	NEIL HERRICK 3/23/94	DENISE HARRINGTON 3/23/94	
(printed name) (date)	(printed name) (date)	(printed name) (date)	(printed name) (date)	
Company- ASE	Company- AEN	Company-	Company- AEN 1820	