



March 5, 1996

ENVIRONMENTAL
PROTECTION
96 MAR 20 PM 1:36

Mr. Stanley Fung
County of Alameda Public Works Agency
399 Elmhurst Street
Hayward, CA 94544

RE: Decommissioning of Groundwater Monitoring Well MW-2
3495 Castro Valley Boulevard, Castro Valley, California
Redwood Road Expansion Project
Permit Number 96082
ACC Job No. 6163-1.1

Dear Mr. Fung:

On behalf of the County Of Alameda Public Works Agency, ACC Environmental Consultants, Inc., (ACC) presents this letter report summarizing the completed work at the above referenced site.

Background

Groundwater monitoring wells were installed at the Shell service station located at 3495 Castro Valley Boulevard to evaluate the extent of groundwater impact from existing and former underground storage tanks (USTs) located at the site. One of the existing groundwater monitoring wells (MW-2) was installed in the approximate downgradient direction of the USTs. The Shell station is located at the intersection of Castro Valley Boulevard and Redwood Road. When the County of Alameda Public Works Agency proposed the Redwood Road - "A" Street widening project, well MW-2 was found to be located within the limits of the planned expanded roadway. In order to create a corridor to allow the expansion of Redwood Road well MW-2 had to be decommissioned.

Well Destruction

As required by the Occupational Health and Safety Administration, 29 Code of Federal Regulations 1910.120, ACC prepared a site specific Health and Safety Plan prior to proceeding with the planned well decommissioning work.

On February 7, 1996, one 4-inch-diameter groundwater monitoring well (MW-2) was decommissioned by overdrilling by Gregg Drilling and Testing, Inc., of Martinez, California (license C57-485165). Permit Number 96082 was obtained from Zone 7 Water Resources Management prior to scheduling field activities and a copy is attached.

Well Completion Report Number 407475 for the decommissioned well was filed with the State of California Department of Water Resources.

Mr. Stanley Fung
March 5, 1996
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The well was destroyed by overdrilling and removing all well construction materials within the original borehole. Using a tremie pipe, the created hole was filled from the bottom upward to the original ground surface with a neat cement grout containing 5 percent bentonite by weight.

The following procedures were followed for the well decommissioning:

- Prior to destruction the monitoring well was investigated to determine its condition and the details of construction prior to destruction. The depth, casing diameter, and construction and sealing design of the well were ascertained. The well was sounded immediately before destruction to determine whether any obstructions would interfere with destruction. No obstructions were detected. The total depth of the well was 20 feet below ground surface (bgs).
- All downhole equipment was precleaned prior to drilling the boring.
- The monitoring well was destroyed by removing all materials within the original borehole (including the well casing, screen, filter pack, and annular seal). This was accomplished by overdrilling the borehole with 10-inch outside diameter, hollow stem augers. Annular well materials were removed from the augers as they advanced and were drummed appropriately.
- Overdrilling was completed to the depth of the original boring.
- The reamed boring was then backfilled with a neat cement grout containing 5 percent bentonite by weight as the augers were removed from the boring. The grout was placed into the boring from the bottom of the hole to a depth of approximately 2 feet bgs via a tremie pipe. The boring was then filled to existing grade with concrete and finished to match the surrounding surface.
- The PVC well screen, christy box, and well completion materials were placed in labeled drums and stored temporarily on site. Displaced groundwater generated during grouting of the borehole was also drummed and stored temporarily on site.

During well decommissioning, three 55-gallon drums (two containing soil cuttings and one containing displaced groundwater) of waste materials were generated, a sample was collected from each drum containing the well destruction materials, the two soil samples were combined to make a composite sample, and the samples were analyzed for total lead by EPA Method 3050A/7420, total petroleum hydrocarbons as gasoline (TPHg) with benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 5030/8015M/8020, and total petroleum hydrocarbons as diesel (TPHd) by EPA Method 3550/8015M. Laboratory results indicated a concentration of 1,300 mg/kg TPHg and 600 mg/kg TPHd in the composite soil drum sample (D-1,2). As a result, the composite sample was tested additionally for reactivity, corrosivity, and ignitability by method CA Title 22 Sec 66261.21-.24. Analytical results for all the analyses are attached.

Mr. Stanley Fung
March 5, 1996
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After analytical results were obtained, the drums were profiled for proper disposal. The two drums of soil cuttings were disposed of at the BFI waste disposal facility at 4001 North Vasco Road, Livermore, California, under non-hazardous waste manifest number 782795 (attached). The single drum of displaced non-hazardous groundwater at the site was disposed of at the Seaport Environmental facility in Redwood City, California.

Upon your review and approval of this report, ACC will forward a final copy to Mr. Scott Seery and Mr. Keith Simas.

If you have any questions or comments regarding this letter report or any other comments regarding this project, please call me at (510) 638-8400.

Sincerely,



Misty C. Kaltreider
Project Geologist

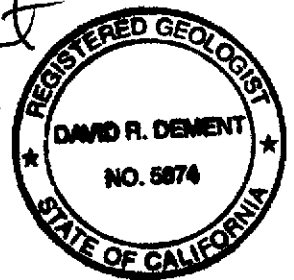
jvc:mcr

Attachments

cc: Mr. Wyman Hong, Zone 7 Water Agency



David R. DeMent, RG
Senior Geologist





ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 464-2800

FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 3495 CASTRO
VALLEY BLVD, CASTRO VALLEY, CA

PERMIT NUMBER 95082
LOCATION NUMBER 3S/2W 10C80

CLIENT

Name ALAMEDA COUNTY PUBLIC WORKS AGENCY
Address 399 ELMHURST Phone 670-6456
City HAYWARD, CA Zip 94544

PERMIT CONDITIONS

Circled Permit Requirements Apply

APPLICANT

Name ACC ENVIRONMENTAL CONSULTANTS INC **(C)** GENERAL
Address 377 COWELL DR. #100 Phone 510-638-8400
City OAKLAND, CA Zip 94621
FAX: (510) 638-8404

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER WELLS, INCLUDING PIEZOMETERS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- C. GEOTECHNICAL.** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- D. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.
- (E) WELL DESTRUCTION.** See attached.

TYPE OF PROJECT

Well Construction	Geotechnical Investigation
Cathodic Protection _____	General _____
Water Supply _____	Contamination _____
Monitoring _____	Well Destruction X <input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

Domestic: _____ Industrial: _____ Other: _____
Municipal: _____ Irrigation: _____

DRILLING METHOD:

Mud Rotary _____ Air Rotary _____ Auger **X**
Cable _____ Other _____

DRILLER'S LICENSE NO. GREGG → C57-485165

WELL PROJECTS

Drill Hole Diameter	<u>8</u> in.	Maximum	
Casing Diameter	<u>2</u> in.	Depth	<u>25</u> ft.
Surface Seal Depth	<u>5</u> ft.	Number	<u>1</u>

GEOTECHNICAL PROJECTS

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

ESTIMATED STARTING DATE 2-7-96
ESTIMATED COMPLETION DATE 2-7-96

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

Approved Wyman Hong Date 2 Feb 96
Wyman Hong

APPLICANT'S SIGNATURE [Signature] Date 1-31-96

31992

CHROMALAB, INC.

Environmental Services (SDB)

February 14, 1996

Submission #: 9602538

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 3495 CASTRO VALLEY
Received: February 7, 1996

Project#: 6163-1.1

re: 1 sample for Gasoline and BTEX compounds analysis.

Method: EPA 5030/8015M/8020


Matrix: WATER

Sampled: February 7, 1996

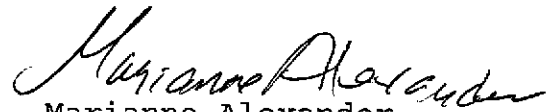
Run#: 652

Analyzed: February 14, 1996

Spl#	CLIENT SPL ID	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
78878	D-3	45000	3400	8100	1700	9300
Reporting Limits		50	0.50	0.50	0.50	0.50
Blank Result		N.D.	ND	ND	ND	ND
Blank Spike Result (%)		93.9	109	111	114	113



June Zhao
Chemist



Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

February 14, 1996

Submission #: 9602538

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 3495 CASTRO VALLEY

Project#: 6163-1.1

Received: February 7, 1996

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Method: EPA 5030/8015M/8020

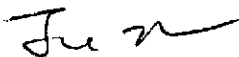
Matrix: SOIL

Sampled: February 7, 1996

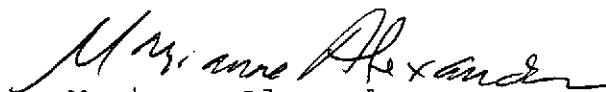
Run#: 651

Analyzed: February 14, 1996

Spl#	CLIENT SPL ID	Gasoline (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethyl Benzene (mg/Kg)	Total Xylenes (mg/Kg)
78877	D-1,2	1300	2.9	35	21	110
Reporting Limits		1.0	0.0050	0.0050	0.0050	0.0050
Blank Result		N.D.	ND	ND	ND	ND
Blank Spike Result (%)		93.7	103	101	104	100



June Zhao
Chemist



Marianne Alexander
Gas/BTEX Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

February 9, 1996

Submission #: 9602538

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 3495 CASTRO VALLEY
Received: February 7, 1996

Project#: 6163-1.1

re: One sample for Lead analysis.

Method: EPA 3050A/7420

Client Sample ID: D-1,2

Spl#: 78877

Matrix: SOIL

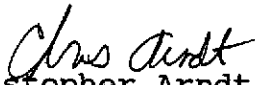
Extracted: February 9, 1996

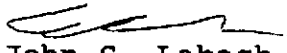
Sampled: February 7, 1996

Run#: 631

Analyzed: February 9, 1996

<u>ANALYTE</u>	<u>RESULT</u> <u>(mg/Kg)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>RESULT</u> <u>(mg/Kg)</u>	<u>BLANK SPIKE</u> <u>(%)</u>	<u>DILUTION</u> <u>FACTOR</u>
LEAD	6.3	1.0	ND	106.5	1


Christopher Arndt
Chemist


John S. Labash
Inorganics Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

February 14, 1996

Submission #: 9602538

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 3495 CASTRO VALLEY
Received: February 7, 1996

Project#: 6163-1.1

re: One sample for Lead analysis.

Method: EPA 6010

Client Sample ID: D-3

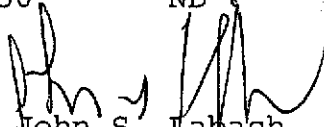
Spl#: 78878
Sampled: February 7, 1996

Matrix: WATER
Run#: 648

Extracted: February 14, 1996
Analyzed: February 14, 1996

ANALYTE	RESULT (mg/L)	REPORTING LIMIT (mg/L)	BLANK RESULT (mg/L)	BLANK SPIKE (%)	DILUTION FACTOR
LEAD	0.0083	0.0050	ND	103.8	1


Charles Woolley
Chemist


John S. Labash
Inorganic Supervisor

CHROMALAB, INC.

Environmental Services (SDB)

February 15, 1996

Submission #: 9602538

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 3495 CASTRO VALLEY
Received: February 7, 1996

Project#: 6163-1.1

re: 2 samples for TPH - Diesel analysis.


Method: EPA 3550/8015M

Sampled: February 7, 1996 Matrix: SOIL Run#: 627 Extracted: February 8, 1996
Analyzed: February 15, 1996


<u>Spl#</u>	<u>CLIENT SPL ID</u>	<u>DIESEL</u> <u>(mg/Kg)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>RESULT</u> <u>(mg/Kg)</u>	<u>BLANK SPIKE</u> <u>(%)</u>	<u>DILUTION</u> <u>FACTOR</u>
78877	D-1,2	600	9.9	ND	101	10

Sampled: February 7, 1996 Matrix: WATER Run#: 629 Extracted: February 8, 1996
Analyzed: February 14, 1996

<u>Spl#</u>	<u>CLIENT SPL ID</u>	<u>DIESEL</u> <u>(ug/L)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(ug/L)</u>	<u>BLANK</u> <u>RESULT</u> <u>(ug/L)</u>	<u>BLANK SPIKE</u> <u>(%)</u>	<u>DILUTION</u> <u>FACTOR</u>
78878	D-3	36000	1000	ND	77.6	20


Kayvan Kimyai
Chemist

FOR


Alex Tam
Semivolatiles Supervisor

CHROMALAB, INC.
SAMPLE RECEIPT CHECKLIST

Client Name ACC

Date/Time Received 2/8/96 0700

Project 3495 CASTRO VALLEY

Received by C. Rowley / Pedro Solis / 2/7/96

Reference/Subm # 26336 / 9602538

Carrier name _____

Checklist completed by: Minnie Pak / 2/8/96
Signature / Date

Logged in by CR / 2/8/96
Matrix Soil & Water / Initials / Date

Shipping container in good condition? NA Yes No

Custody seals present on shipping container? Intact Broken Yes No

Custody seals on sample bottles? Intact Broken Yes No

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Samples intact? Yes No

Sufficient sample volume for indicated test? Yes No

VOA vials have zero headspace? NA Yes No

Trip Blank received? NA Yes No

All samples received within holding time? Yes No

Container temperature? 3.7°C

pH upon receipt _____ pH adjusted _____ Check performed by: _____ NA

Any NO response must be detailed in the comments section below. If items are not applicable, they should be marked NA.

Client contacted? _____ Date contacted? _____

Person contacted? _____ Contacted by? _____

Regarding? _____

Comments: _____

Corrective Action: _____

538/78877-78878

SUBM #: 9602538 REP:
 CLIENT: ACC
 DUE: 02/14/96
 REF #: 26336

26336
 Chain of Custody

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

DATE 2/7/96 PAGE 1 OF 1

PROJ. MGR M. KALTREIDER
 COMPANY ACC Environmental Consultants
 ADDRESS 7977 Capwell Drive, Suite 100
Oakland, California 94621

SAMPLERS (SIGNATURE) *John Conklin* (PHONE NO.) (510) 638-8400
 (FAX NO.) (510) 638-8404

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, 8+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	LUFT METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)	NUMBER OF CONTAINERS
✓ D-1	2/7/96		SOIL	COOL																	1
✓ D-2	"		"	"																	1
✓ D-3	"		H ₂ O	"																	5

PROJECT INFORMATION		SAMPLE RECEIPT			
PROJECT NAME: 3495 CASTRO VALLEY	TOTAL NO. OF CONTAINERS 5				
PROJECT NUMBER 6163-1.1	HEAD SPACE				
P.O. # 6163-1.1	REC'D GOOD CONDITION/COLD				
TAT <u>STANDARD 5-DAY</u>	CONFORMS TO RECORD	24	48	72	OTHER

RELINQUISHED BY 1	RELINQUISHED BY 2	RELINQUISHED BY 3
<u><i>John Conklin</i></u> (SIGNATURE) (TIME)		<u><i>John Solis</i></u> (SIGNATURE) (TIME)
<u>JOHN CONKLIN</u> (PRINTED NAME) (DATE)		<u>JOHN SOLIS 2/8/96</u> (PRINTED NAME) (DATE)
<u>ACC ENVIRONMENTAL</u> (COMPANY)		<u>CHROMALAB INC</u> (COMPANY)

SPECIAL INSTRUCTIONS/COMMENTS:
Please Composite D-1 & D-2

RECEIVED BY 1	RECEIVED BY 2	RECEIVED BY (LABORATORY) 3
<u><i>John Solis</i></u> (SIGNATURE) (TIME)		<u><i>Chris Rowley</i></u> (SIGNATURE) (TIME)
<u>JOHN SOLIS 2/7/96</u> (PRINTED NAME) (DATE)		<u>CHRIS ROWLEY 2/8/96</u> (PRINTED NAME) (DATE)
<u>CHROMALAB INC</u> (COMPANY)		<u>CHROMALAB</u> (LAB)

CHROMALAB, INC.

Environmental Services (SDB)

February 20, 1996

Submission #: 9602113

ACC ENVIRONMENTAL CONSULTANTS

Atten: Misty Kaltreider

Project: 3495 CASTRO VALLEY

Project#: 6163-1.1

Received: February 8, 1996

re: One sample for Reactivity, Corrosivity, and Ignitability (RCI) analysis.

Method: CA TITLE 22 SEC 66261.21-.24

SampleID: D-1,2

Sample #: 118258

Matrix: SOIL


Extracted: February 16, 1996


Sampled: February 7, 1996

Run: 10428-A

Analyzed: February 16, 1996

Analyte	RESULT	REPORTING	BLANK	BLANK SPIKE
	(N/A)	LIMIT	RESULT	RESULT
REACTIVITY	NO	(N/A)	(N/A)	(%)
CORROSIVITY	11.88	N/A	N.D.	--
For above analyte: SAMPLE pH WAS MEASURED IN 0.01M CALCIUM CHLORIDE.				
IGNITABILITY	NO	N/A	N.D.	--


Alex Tam
Chemist


Chip Poalinelli
Operations Manager



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 782795

GENERATOR

a. Generator Name: Co. of Alameda Public Works b. Generating Location: Shell (Simas)
 c. Address: 399 Elmhurst St. d. Address: 3495 Castro Valley Blvd
Hayward, CA 94544 Castro Valley, CA
 e. Phone No.: (510) 670-5480 f. Phone No.: _____
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE:

CA	405	022796	04258
----	-----	--------	-------

 Containers: _____
 j. Description of Waste: Soil Cuttings k. Quantity:

1	Y		T
---	---	--	---

 No. _____ TYPE _____
 TYPE
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

John Conklin
 Generator Authorized Agent Name

John Conklin
 Signature

022896
 Shipment Date

UNITS
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

TRANSPORTER I

a. Name: IWM, Inc.
 b. Address: 950 Ames Ave.
Milpitas, CA 95035
 c. Driver Name/Title: Bill Penn / Driver
 d. Phone No.: (408) 942-8955 e. Truck No.: 111/113
 f. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials:
[Signature] 022896
 Driver Signature Shipment Date

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 Acknowledgement of Receipt of Materials:

 Driver Signature Shipment Date

Site Name: BFI

a. Physical Address: 4001 N Vasco Rd. b. Phone No.: (510) 447-8 0491
Livermore, CA 94550 c. Mailing Address: Same

d. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent: [Signature] g. Receipt Date: 022896

Operator's Address:

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

e. Operator's Name & Title: _____ f. Operator's Signature: _____
 Name and Address of Responsible Agency: _____

g. Fixable Non-Fixable Both W/Leak No Leak

Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition of any other operation.