Richmond, CA 94801

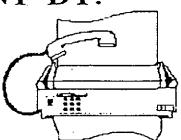
(510) 235-1393

93 OCT 29 AM II: 37

## **COVER SHEET**



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HARD	COPY TO FOL	LOW: X	XES		)	
FROM:	MARY L. BOYD,	ERICKSON, IN	IC.			
THE FO	OLLOWING IS:	SUBSURFACE S	SOIL STUD	Y PERFORM	ED ON OCTOBE	R 1, 1992
					•	
COMM	ENTS: HARD	COPY TO BE MAI	IL <u>ED TOD</u> A	Y TO YOUR	OAKLAND OF	FICE.Y
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HE-SEND THE FAX !

THANK YOU!



290 West Channel Road, P.O. Box 866, Benicia, CA 94510-0866 1350 East Greg Street, Suite 3, Sparks, NV 89431 503 West 400 South, Salt Lake City, UT 84101

Phone (707) 745-8907 (800) 272-6899 FAX (707) 745-8024

Certified mail article No. p 225 524 097

November 4, 1992

Steve Slade, General Manager Charles Lowe Company 1400 Park Avenue Emeryville, CA 94608-0445

SUBJECT:

SUMMARY OF SUBSURFACE INVESTIGATION

and

IMMEDIATE MITIGATION PROPOSAL

Chromex / Charles Lowe Company

1400 Park Avenue Emeryville, California

Dear Mr. Slade:

This letter summarizes the findings of the October 1, 1992 subsurface investigation performed at the former Chromex facility in Emeryville, California. In addition, based on the results of the investigation, a proposal to immediately mitigate the chromium contamination in the vault is also presented in this letter. Results of the investigation indicate that there has been a release of chrome to the soil, a localized release of chromium to groundwater, and a limited release of zinc, copper, and silver to the soil. Moreover, potential offsite releases of halogenated hydrocarbons have contaminated the underlying groundwater.

#### SUMMARY OF SUBSURFACE INVESTIGATION

As part of the subsurface investigation, Excel Trans Inc. subcontracted Terratech to drill boreholes, classify the soil, and sample the soil and groundwater. Once drilling commenced, Terratech collected and prepared groundwater and soil samples for transfer to a DHS certified laboratory. Trace Analysis, a DHS certified laboratory, performed all laboratory work for the investigation. A copy of laboratory analysis, the geological report, and a sample location map are attached to this report.

Laboratory analysis of two soil samples reveal that some metal species are above typical background levels. In particular, the control boring appears to have elevated levels of copper, lead, and zinc at the 1 foot level. Boring B3 appears to have elevated chromium and silver levels at 1 foot. Table I lists sample locations and summarizes contaminates in the soil samples.

As noted in the attached Terratech "Summary of Environmental Services" (page 2, paragraph 2), borehole number B2 did not recharge quickly enough to obtain a groundwater sample.

#### IMMEDIATE MITIGATION PROPOSAL

It is our opinion that the most immediate concern at this time is mitigation of the chromium contamination in the vault. At present, there appears to be no migration of chrome from the vault to the groundwater. To prevent the possibility of future migration, we recomend that the soil in the vault be immediately excavated below the water table, and that the excavated hole be refilled with pea-gravel after analysis shows that soil chrome concentrations have dropped below a level of regulatory concern. After the soil has been excavated, we propose that the soil pile be analyzed for contamination and be labeled, transported, and disposed of according to all local, state, and federal regulations.

Thank you for your interest and willingness to move quickly on this project. If you have any questions, please do not hesitate to call me at (707) 745-8907.

Sincerely,

Mary L. Boyd

Excel Trans, Inc.

Mary L. Bord



1365 VANDER WAY 7891 WESTWOOD DR., SUITE 101 12 THOMAS OWENS WAY 141 SUBURBAN RD., SUITE C2 SAN JOSE, CA 95112 GILROY, CA 95020 MONTEREY, CA 93940 SAN LUIS OBISPO, CA 93401 (408) 297-6969 (408) 842-0236 (408) 372-3716 (805) 543-5493 FAX (408) 297-7716 FAX (408) 842-7314 FAX (408) 372-7481 FAX (805) 543-2748

October 26, 1992 Project 5229

Excel Trans 290 West Channel Road Benicia, California 94510-0866

Attention: Mary Boyd

Subject:

Summary of Environmental Services

Charles Lowe Company 1400 Park Avenue Emeryville, California

Dear Ms. Boyd:

This letter report summarizes our procedures and findings from the environmental services we provided on October 1, 1992, at the Charles Lowe Company, located at 1400 Park Avenue in Emeryville, California. We performed our work in accordance with tasks outlined in the "Request for Quotation" you supplied us on June 29, 1992, and the excerpts from the work plan you provided us on September 23, 1992 (except as noted in the fifth paragraph on page 2).

We sub-contracted with West Tek, Inc., a C57-licensed drilling company from San Jose, to drill and sample the soil. West Tek drilled four holes using steam-cleaned, 8-inch-outside-diameter, hollow-stem augers advanced by a CME 55 truck-mounted drill rig. The holes were advanced roughly at the locations indicated by the symbols BO, B2, and B3 on the attached drawing, which you provided; B1 was advanced about 5 feet north of the location shown on the drawing due to the drill rig's inability to climb a 2-foot-tall berm.

An environmental geologist with our firm was on site to direct the drilling crew, pack samples, and log the holes. We classified the soils using the Unified Soil Classification System with visual-manual procedures (ASTM D2488-84). Neither our geologist nor the drillers noted unusual odors or discoloration in soils from the drill holes. Exploration drill hole logs, which are appended to this letter, display details regarding types of soil encountered.

In accordance with your sampling plan, the drillers collected samples at depths of 1 to 2 feet, 5 feet, and 10 feet. The drillers sampled using an 18-inch-long, modified California, split-spoon sampler driven with an automatic hammer. Prior to each use, the drillers washed the sampler in a non-phosphate soap solution, rinsed it twice in potable water, and rinsed it once more with distilled water. We provided the drillers with unused, 6-inch-long, brass liners, which they placed in the sampler for each sampling drive.

October 26, 1992

Project 5229

The drillers placed soil cuttings from each hole in separate, labelled, covered, 55-gallon, steel drums (total of four drums with soil). The drillers and our geologist placed rinse water in a fifth labelled, covered, 55-gallon, steel drum. The five drums and their contents were left in a fenced area on site and are the property of the Charles Lowe Company, which bears the responsibility of properly disposing of the drums and their contents, in accordance with regulatory guidelines.

Upon collection, we packed the bottom liner from each drive by placing Teflon sheets over the ends, placing plastic caps over the Teflon, and sealing the caps with masking tape. We then transferred the soil samples to you for labelling, storing with ice, and eventual analytical testing. Chain-of-custody procedures were followed to document sample collection and handling.

At the completion of drilling and soil sampling, the drillers placed PVC pipe (with 5 feet of factory slotting at the bottom) in each of the four drill holes. The drillers then placed about 7 feet of sand in the annular space around the slotted pipe. We allowed the holes to stand undisturbed for about 1 to 4 hours in order for ground water to accumulate in them. Water rose in holes BO, B1, and B3, but no water rose in B2, even after 3 hours.

We used pre-cleaned Teflon bailers to obtain samples of the ground water from each of the three holes that contained water. We transferred the water from the bailers into containers you supplied. For each of the three holes containing water, we filled one half-liter plastic container for analysis for metals, and two VOA vials for volatile-organic analysis. We filtered the water for metals analysis using a QED Sample Pro filter fitted with an unused, 0.45-micron filter cartridge. Before use at each hole, we cleaned the filter vessel and pump with a non-phosphate soap solution, rinsed it in running potable water, rinsed it again with distilled water, and fitted it with a new filter cartridge. We filled the VOA vials until a positive meniscus formed, sealed them with Teflon-faced silicone caps, and inverted and tapped the vials to verify that no bubbles had formed. We then transferred the water samples to you for labelling, storing with ice, and eventual analytical testing. Chain-of-custody procedures were followed to document sample collection and handling.

We let ground water levels equilibrate for at least one hour after water sampling and surveyed the elevations of the tops of the PVC pipes. As you know, the drillers removed the PVC pipes from the holes before we could measure all the water levels. Therefore, we could not obtain the information necessary to determine the ground-water gradient or flow direction.

After removing all PVC casings, the drillers sealed the holes using a slurry of cement and bentonite.

Our personnel (geologist and surveyor) and that of our subcontractor (drillers) were OSHA/SARA certified in compliance with the 29 CFR 1910.120 and California Title 8, GISO, Sec. 5192.

October 26, 1992

Project 5229

We appreciate the opportunity to assist on this project. If you have any questions regarding the information in this letter report, please call Shiela Chrisley or me at 408-297-6969. PROFESSIONA

ERIC R. LAUTENBACH

CIVIL

No. C042437,

Sincerely,

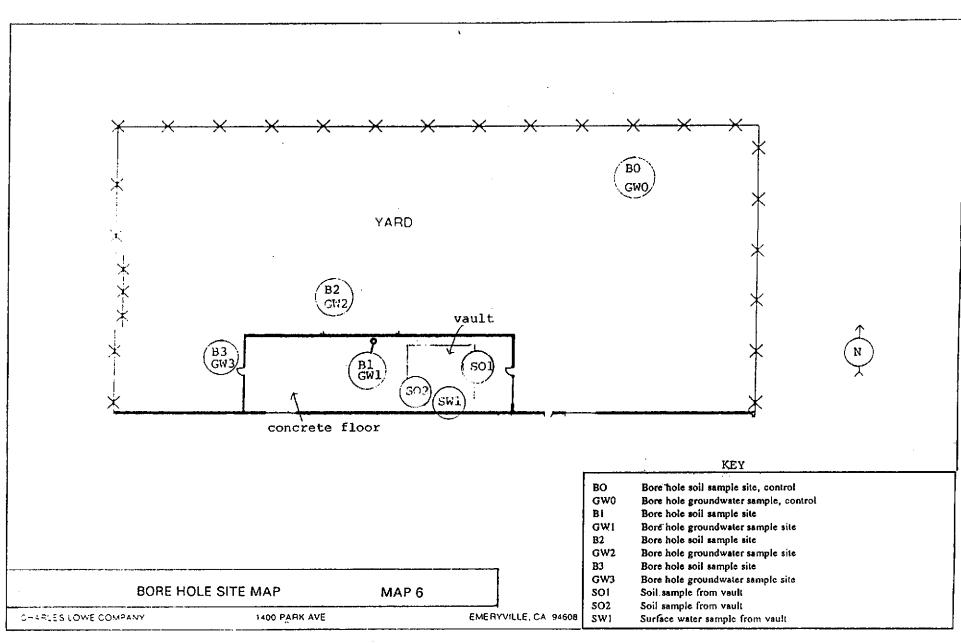
TERRATECH, INC.

S. R. ttl

Eric Lautenbach Registered Professional Engineer

FJG smc

Attachments: Site Plan, exploration drill hole logs, key to exploration drill hole logs



Site Plan provided by Excel Trans, October 1992

# KEY TO EXPLORATION DRILL HOLE LOGS

#### SOIL CLASSIFICATION

	PRIM/	ARY DIVISI	ONS	GROUP SYMBOL	SECONDARY DIVISIONS			
	larger	GRAVELS	Clean Gravels	GW	Well graded gravels, gravel-sand mixtures, little or no fines.			
ILS	la tor Ize	More than half (less than 5% fines) fraction is larger than		GP	Poorly graded gravels, gravel-sand mixtures, little or no fines.			
GRAINED SOILS	of material ( 200 sieve sl				GM	Silty gravels, gravel-sand-silt mixtures, non- plastic fines.		
INE	mater ) sie	NO. 4 618V8	fines	GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines.			
	f of 200	SANDS	Clean Sands	SW	Well graded sands, gravelly sands, little or no fines.			
COARSE	then half then No.	More than half of coarse	,,,	SP	Poorly graded sands or gravelly sands, little or no fines.			
00	# # # # # # # # # # # # # # # # # # #	fraction is smaller than	Sands with	SM	Silty sands, sand-silt mixtures, non-plastic fines.			
	More	No. 4 Sieve	fines	SC	Clayey sands, sand-clay mixtures, plastic fines.			
	£ 6	SILTS AN	D CLAYS	ML	Inorganic silts, clayey silts, rock flour, very silty fine sands.			
	smoller	Liquid Limi		CL	Inorganic clays of low plasticity, gravelly clays of low plasticity.			
11.5	size	then 35 (	"lean")	OL	Organic silts and organic silty clays of low plasticity.			
) SC	ter to	SILTS AN	D CLAYS	MI	Inorganic silts, clayey silts and silty fine sands of intermediate plasticity.			
I NE	of material is 200 sieve size	Liquid Limit		CI	Inorganic clays, gravelly clays, sandy clays and silty clays of intermediate plasticity.			
GR/	nolf o	35 and	± 50	01	Organic clays and silty clays of intermediate plasticity.			
FINE GRAINED SOILS	than half o	SILTS AN	D CLAYS	МН	Inorganic silts, clayey silts, elastic silts, micaceous or distomaceous silty or fine sandy soils.			
	More t	Liquid Limit		СН	Inorganic clays of high plasticity.			
	<b>ž</b>	than 50	("fat")	OH	Organic clays and silts of high plasticity.			
	HIGHL	Y ORGANIC S	OILS	Pt	Peat, meadow mat, highly organic soils.			

#### SOIL CONSISTENCY

SANDS and GRAVELS (non-cohesive)	BLOWS per FOOT
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	over 50

SILTS and CLAYS	UNCONFINED SHEAR STRENGTH (PSF)
Very Soft	0 - 250
Soft	250 - 500
Firm	500 - 1000
Stiff	1000 - 2000
Very Stiff	2000 - 4000
Hard	4000+

See "Notes" and "Symbols & Abbreviations" on following page.

EXPLORATION DRILL HOLE	LOG				HOLE	No.	ВО	_
PROJECT: C. Lowe Company	DAT	E: 10-0	1-92		LOGGE	BY: F	JG	-
DRILL RIG: CME 55 HOLE DIA.	HOLE DIA.: 8 inches SAMPLER: MO							
GROUND WATER DEPTH INITIAL: 8 feet FINAL	: 7 fe	eet	Н0	LE ELE	V.: 13	feet		
DESCRIPTION	SOIL TYPE	ОЕРТН	SAMPLE	BLOWS PER FOOT	PID (ppmv)	WATER LEVEL	CASING	ANNULAR MATERIAL
WELL-GRADED GRAVEL WITH SAND; brown, moist, medium dense; base rock	GW	_ 1 2	/ / X	18				
FAT CLAY; dark gray, moist, stiff; alluvium	СН	_ 3_ _ 4						
CLAYEY SAND; brown and gray, moist, medium dense; 40% clay; alluvium	SC	_ 5 6 7_	/ x	12		<b>▼</b>	BLANK	
POORLY GRADED GRAVEL WITH CLAY AND SAND alternating with FAT CLAY WITH GRAVEL; brown to dark gray, wet, medium dense (gravel) or stiff (clay); alluvium	GP- GC &CH	_ 8_ _ 9_ _10_	// *					UARIUM
(gravery or service (gray), arrangement		_11_ _12_ _13_					SCREEN	SAND: LONESTAR MEDIUM AQUARIU
Bottom of hole at 15 feet below the ground		_14_ _15_					- S	SAND: I ONFST
surface.		_16_ _17_ _18_						
		_19_ _20						
PROJECT NUMBER: 5229 TERRATECH,	INC.					PAGE 1	OF 1	

EXPLORATION DRILL HOLE	LOG				HOLE	No.	B1	
PROJECT: C. Lowe Company	DAT	E: 10-0	1-92		LOGGE	BY: F	JG	
DRILL RIG: CME 55 HOLE DIA.:	: 8 ir	iches	SAI	MPLER:	MOD C	AL	·	
GROUND WATER DEPTH INITIAL: 10 feet FINAL	: Not	det.	HO	LE ELE	V.: 13	feet		
DESCRIPTION	SOIL TYPE	ОЕРТН	SAMPLE	BLOWS PER FOOT	PID (ppmv)	WATER LEVEL	CASING	ANNULAR MATERIAL
WELL-GRADED GRAVEL WITH CLAY AND SAND alter- nating with FAT CLAY; yellowish brown to dark gray, damp to moist, dense (gravel) or stiff (clay); alluvium	GW- GC& CH	_ 1_ _ 2_ _ 3_	/ x	,		-		
SANDY CLAY; brown, moist, stiff; alluvium	CI	- 4- - 5- - 6- - 7- - 8-	/ / X	10			BLANK	
POORLY GRADED SAND WITH CLAY AND GRAVEL; brown, wet, loose; interlayered with clay;	SP- SC	_ 9_ _10_	/ / x	7				DUARIUM
coarse sand; fine gravel; alluvium		_11_ _12_ _13_ _14_		*			SCREEN	SAND: LONESTAR MEDIUM AQUARIU
Bottom of hole at 15 feet below the ground surface.		15 16 17 18 19						SAN
PROJECT NUMBER: 5229 TERRATECH,	INC.	20				PAGE 1	0F 1	

EXPLORATION DRILL HO	LE LOG				HOLE	No.	B2	
PROJECT: C. Lowe Company	mpany DATE: 10-01-92					BY: F	JG	
DRILL RIG: CME 55 HOLE D	IA.: 8 ir	nches	SAI	MPLER:	MOD C	AL		
GROUND WATER DEPTH INITIAL: 8 feet FI	NAL: Not	det.	НО	LE ELE	V.: 13	feet		
DESCRIPTION	SOIL TYPE	DEPTH	SAMPLE	BLOWS PER FOOT	PIO (ppmv)	WATER LEVEL	CASING	ANNULAR
FAT CLAY; dark gray, damp to moist, stiff; alluvium  brown, with a few percent fine sand  wet, firm	СН	- 1_ - 2_ - 3_ - 4_ - 5_ - 6_ - 7_ - 8_ - 9_		14		₹.	BLANK	X1UM
Bottom of hole at 15 feet below the ground surface.	d	10_ 11_ 12_ 13_ 14_ 15 16_ 17_ 18_ 19_	X				SCREEN	SAND: LONESTAR MEDIUM AQUARIUM
PROJECT NUMBER: 5229 TERRATEC	LI TAIC	20				PAGE 1	OF 1	<u> </u>

EXPLORATION DRILL HOLE	LOG			·	HOLE	No.	В3	
PROJECT: C. Lowe Company	DAT	E: 10-0	)1-92		LOGGE	BY: I	JG	
DRILL RIG: CME 55 HOLE DIA.:	HOLE DIA.: 8 inches SAMPLER:				MOD C	AL		
GROUND WATER DEPTH INITIAL: 8 feet FINAL:	± 6.	3 ft.	НО	LE ELE	V.: 13	feet		
DESCRIPTION	SOIL TYPE	ОЕРТН	SAMPLE	BLOWS PER FOOT	PID (ppmv)	WATER LEVEL	CASING	ANNULAR MATERIAL
FAT CLAY; dark gray, damp to moist, stiff; with 5-10% gravel; alluvium  brown and dark gray, firm; with 20% sand and gravel	СН	_ 1_ _ 2_ _ 3_ _ 4_ _ 5_ _ 6_ _ 7_ _ 8_ _ 9_	X	7		<u>~</u>	BLANK	Υ.
SANDY CLAY; gray and brown, wet, soft to firm; with 40% sand and gravel; alluvium  Bottom of hole at 15 feet below the ground surface.	CI	_10_ _11_ _12_ _13_ _14_ _15_	x	5			SCREEN	SAND: LONESTAR MEDIUM AQUARIUM
PROJECT NUMBER: 5229 TERRATECH,	INC	_16_ _17_ _18_ _19_ _20				PAGE 1	OF 1	

## KEY TO EXPLORATION DRILL HOLE LOGS (CONTINUED)

#### **NOTES**

- 1. FINES Material smaller than No. 200 sieve size.
- 2. BLOWS per FOOT Resistance to the advancement of the soil samplernumber of blows of a 140 pound hammer falling 30 inches to drive a split spoon sampler.
- 3. The stratification lines on the logs represent the approximate boundary between soil types, and the transition may be gradual.
- 4. Mod. Cal. 2⅓ inch O.D. (1½ inch I.D.) "Modified California" split spoon sampler.
- 5. Std. Pen. 2 inch O.D. (1% inch I.D.) "Standard Penetration" split spoon sampler (ASTM D1586-84).

#### SYMBOLS & ABBREVIATIONS

- Initial ground water level

- Final ground water level

PID - Photo Ionization Detector

ppmv - Parts per million by volume

/ - Soil sample collected

X - Soil sample transferred to client for analysis

S - Slough

N/R - No recovery



October 16, 1992

Ms. Mary Boyd Excel Trans, Inc. P.O. Box 866 Benicia, California 94510-0866

Dear Ms. Boyd:

Trace Analysis Laboratory received twelve soil samples and six water samples on October 1, 1992 for your project, Chromex Subsurface Investigation (our custody log number 2553).

These samples were analyzed for Priority-13 Metals. The water samples were analyzed by EPA Method 8240. Our analytical report and the completed chain of custody form are enclosed for your review.

Trace Analysis Laboratory is certified under the California Environmental Laboratory Accreditation Program. Our certification number is 1199.

If you should have any questions or require additional information, please call me.

Sincerely yours

Jehnifér Pekol Project Specialist

**Enclosures** 

**7.4**4

LOG NUMBER: 2553

DATE SAMPLED: 10/01/92

DATE RECEIVED:

10/01/92

DATE ANALYZED:

10/13/92

DATE REPORTED:

10/15/92

**CUSTOMER:** 

Excel Trans, Inc.

**REQUESTER:** 

Mary Boyd

PROJECT:

Chromex Subsurface Investigation

•			Sample	Type:	Water ·		
		GWO	) <u></u>	GW1		GW3	
Method and <u>Constituent</u> :	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>	Concen- tration	Reporting <u>Limit</u>
EPA Method 8240:							
Chloromethane	ug/l	NĐ	10	ND	10	ND	10
Bromomethane	ug/1	ND	2.0	ND	2.0	_ND	2.0
Vinyl Chloride	ug/1	ND	10	ND	10	ND	10
Chloroethane	ug/1	ND	2.0	ND	2.0	ND	2.0
Methylene Chloride	ug/1	ND	2.0	ND	2.0	ND	2.0
Trichlorofluoromethane	ug/l	ND	2.0	ND	2.0	ND	2.0
1,1-Dichloroethene	ug/l	ND	2.0	ND	2.0	ND	2.0
1,1-Dichloroethane	ug/1	ND	2.0	ND	2.0	ND	2.0
Trans-1,2-Dichloroethene	ug/1	ND	2.0	10	2.0	ND ND	2.0
Chloroform	ug/1	ND	2.0	ND	2.0	ND	2.0
1,2-Dichloroethane	ug/1	МD	2.0	ND	2.0	ND	2.0
1,1,1-Trichloroethane	ug/1	ND	2.0	ND	2.0	ND	2.0
Carbon Tetrachloride	ug/l	ND	2.0	ND	2.0	ND	2.0
Bromodichloromethane	ug/1	ND	2.0	ND	2.0	ND	2.0
1,2-Dichloropropane	ug/1	ND	2.0	ND	2.0	ND	2.0
Trans-1,3-Dichloropropene	ug/l	ND	2.0	ND	2.0	ND	2.0
1,1,2-Trichloroethane	ug/1	ND	3.0	ND	3.0	ND	3.0
Trichloroethene	ug/l	5.8	2.0	4.1	2.0	4.7	2.0
Benzene	ug/l	ND	2.0	ND	2.0	ND	2.0

LOG NUMBER: DATE SAMPLED:

2553 10/01/92

DATE RECEIVED: DATE ANALYZED: DATE REPORTED: 10/01/92 10/13/92 10/16/92

PAGE:

Two

	<del></del>		Sample	Type:	Water		
			GWO GW		1	GW3	
Method and <u>Constituent</u>	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>	Concen- tration	Reporting <u>Limit</u>
EPA Method 8240 (Continued	i):						
2-Chloroethylvinyl Ether	ug/1	ND	10	ND	10	ND	10
Dibromochloromethane	ug/1	ND	2.0	ND	2.0	ND	2.0
Cis-1,3-Dichloropropene	ug/1	ND	2.0	ND	2.0	ND	2.0
Bromoform	ug/l	ND	2.0	ND	2.0	ND	2.0
1,1,2,2-Tetrachloroethane	ug/1	ND	3.0	ND	3.0	ND	3.0
Tetrachloroethene	ug/1	10.4	2.0	ND	2.0	3.6	2.0
Toluene	ug/1	ND	2.0	ND	2.0	ND	2.0
Chlorobenzene	ug/1	ND	2.0	ND	2.0	ND	2.0
Ethylbenzene	ug/1	ND	2.0	ND	2.0	ND	2.0
1,3-Dichlorobenzene	ug/l	ND	3.0	ND	3.0	ND	3.0
1,2-Dichlorobenzene	ug/l	NĐ	3.0	ND	3.0	ND	3.0
1,4-Dichlorobenzene	ug/l	ND	3.0	ND	3.0	ND	3.0
Surrogate % Recovery							
Bromochloromethane		:	106		117		103
1-Chloro,2-Bromopropane		•	123		133		118
1,4-Dichlorobutane			105		102		102

LOG NUMBER: 2553
DATE SAMPLED: 10/01/92
DATE RECEIVED: 10/13/92
DATE ANALYZED: 10/13/92
DATE REPORTED: 10/16/92
PAGE: Three

			Sample Typ	e: Water
Method and Constituent:	<u>Units</u>	<u>Method</u> Concen- <u>tration</u>	Blank Reporting Limit	
EPA Method 8240:				
Chloromethane	ug/l	ND	10	·
Bromomethane	ug/1	ND	2.0	
Vinyl Chloride	ug/1	MD	10	
Chloroethane	ug/1	ND	2.0	
Methylene Chloride	ug/1	5.7/	2.0	
Trichlorofluoromethane	ug/1	NB	2.0	
1,1-Dichloroethene	ug/l	ND	2.0	
1,1-Dichloroethane	ug/1	ND	2.0	
Trans-1,2-Dichloroethene	ug/l	ND	2.0	
Chloroform	ug/1	ND	2.0	
1,2-Dichloroethane	ug/1	ND	2.0	
1,1,1-Trichloroethane	ug/1	ND	2.0	
Carbon Tetrachloride	ug/1	ND	2.0	
Bromodichloromethane	ug/1	ND	2.0	
1,2-Dichloropropane	ug/l	ND	2.0	
Trans-1,3-Dichloropropene	ug/l	ND	2.0	
1,1,2-Trichloroethane	ug/1	ND	3.0	
Trichloroethene	ug/1	ND	2.0	
Benzene	ug/l	ND	2.0	

LOG NUMBER: 2553
DATE SAMPLED: 10/01/92
DATE RECEIVED: 10/01/92
DATE ANALYZED: 10/13/92
DATE REPORTED: 10/16/92
PAGE: Four

Sample Type: Water

			d Blank
Method and Constituent	Units	Concen- tration	Reporting Limit
		<u> </u>	
EPA Method 8240 (Continued	d):		
2-Chloroethylvinyl Ether	ug/1	ND	10
Dibromochloromethane	ug/l	ND	2.0
Cis-1,3-Dichloropropene	ug/1	ND	2.0
Bromoform	ug/1	ND	2.0
1,1,2,2-Tetrachloroethane	ug/l	ND	3.0
Tetrachloroethene	ug/1	ND	2.0
Toluene	ug/l	ND	2.0
Chlorobenzene	ug/1	ND	2.0
Ethylbenzene	ug/1	ND	2.0
1,3-Dichlorobenzene	ug/l	ND	3.0
1,2-Dichlorobenzene	ug/1	ND	3.0
1,4-Dichlorobenzene	ug/l	ND	3.0
Surrogate % Recovery			
Bromochloromethane			98
1-Chloro,2-Bromopropane			88
1,4-Dichlorobutane		,	102

LOG NUMBER:

2553

DATE SAMPLED:

10/01/92

DATE RECEIVED:

10/01/92

DATE EXTRACTED: 10/12/92, 10/14/92 and 10/15/92 10/13/92, 10/14/92 and 10/15/92

DATE ANALYZED: DATE REPORTED:

10/16/92

PAGE:

Five

	Sample Type: Soil								
		во	-1′	ВО	-5'	BO-10'			
Method and Constituent:	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>		
EPA Method 7041: Antimony	ug/kg	ND	14,000	ND	14,000	ND	14,000		
EPA Method 7060: Arsenic	ug/kg	16,000	120	15,000	120	11,000	120		
EPA Method 7090: Beryllium	ug/kg	300	120	120	120	140	120		
EPA Method 7130: Cadmium	ug/kg	1,400	250	ND	250	ND	250		
EPA Method 7190: Chromium	ug/kg	43,000	1,200	27,000	1,200	29,000	1,200		
EPA Method 7210: Copper	ug/kg	260,000	5,000	15,000	5,000	16,000	5,000		
EPA Method 7420: Lead	ug/kg	270,000	2,500	3,500	2,500	3,000	2,500		
EPA Method 7471: Mercury	ug/kg	180	50	95	50	ND	50		

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	<del> </del>	Sample Type: Soil								
		80	)-1'	BO-5'		B0	-10′			
Method and <u>Constituent</u> :	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>			
EPA Method 7520: Nickel	ug/kg	52,000	7,500	38,000	7,500	43,000	7,500			
EPA Method 7741: Selenium	ug/kg	ND	120	ND	120	ND	120			
EPA Method 7760: Silver	ug/kg	ND	250	ND	250	ND	250			
<pre>¿PA Method 7841: Thallium</pre>	ug/kg	ND	3,800	ND	3,800	ND	3,800			
EPA Method 7950: Zinc	ug/kg	320,000	1,200	34,000	1,200	47,000	1,200			

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	Sample Type: Soil							
		Metho	d Blank	OC Sum	nary			
Method and Constituent:	<u>Units</u>	Concen- <u>tration</u>	Reporting Limit	% <u>Recovery</u>	% RPD			
EPA Method 7041:								
Antimony	ug/kg	ND	14,000	94*	**			
EPA Method 7060:								
Arsenic	ug/kg	ND	120	98*	3.3			
EPA Method 7090:								
Beryllium	ug/kg	ND	120	70	4.3			
EPA Method 7130:								
Cadmium	ug/kg	ND	250	88	14			
EPA Method 7190:			-					
Chromium	ug/kg	ND	1,200	123*	1.2			
EPA Method 7210:								
Copper	ug/kg	ND	5,000	78	1.1			
EPA Method 7420:								
Lead	ug/kg	ND	2,500	75	12			
EPA Method 7471:								
Mercury	ug/kg	ND	50	103	8.7			

Concentrations reported as ND were not detected at or above the reporting limit.

<sup>\*</sup> The Recovery is for the Laboratory Control Sample, due to interference in the spiked sample. \*\* The RPD is not reportable since the sample prepared in duplicate was not detectable.

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Soil Sample Type:

		Metho	d Blank	OC Summary		
Method and		Concen-	Reporting	%	%	
<u>Constituent</u> :	<u>Units</u>	<u>tration</u>	<u>Limit</u>	<u>Recovery</u>	<u>rpd</u>	
EPA Method 7520: Nickel	ug/kg	ND	7,500	83	1.9	
EPA Method 7741:						
Selenium	ug/kg	ND	120	90*	**	
JC ( C.) ( C.)	~5/5	,,,,	224			
EPA Method 7760:						
Silver	ug/kg	ND	250	50*	**	
¿PA Method 7841:						
Thallium	ug/kg	ND	3,800	89	**	
EPA Method 7950:						
	()	ND	1 200	73	1.5	
Zinc	ug/kg	ND	1,200	13	1.5	

The Recovery is for the Laboratory Control Sample, due to interference in the spiked sample. \*\* The RPD is not reportable since the sample prepared in duplicate was not detectable.

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			Sample	Туре:	Water		····
		GWO-	HNO3	GW1-HNO3		GW3-HNO3	
Method and Constituent:	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>	Concen- tration	Reporting <u>Limit</u>
EPA Method 7041: Antimony	ug/l	ND	650	ND	650	ND	650
EPA Method 7060: Arsenic	ug/l	ND	5.0	ND	5.0	ND	5.0
EPA Method 7090: Beryllium	ug/1	ND	5.0	ND	5.0	ND	5.0
EPA Method 7130: Cadmium	ug/l	ND	10	ND	10	ND	10
EPA Method 7190: Chromium	ug/l	ND	50	ND	50	ND	50
EPA Method 7210:	ug/l	ND	200	ND	200	ND	200
EPA Method 7420: Lead	ug/1	ND	100	ND	100	ND	100
EPA Method 7471: Mercury	ug/l	ND	1.0	ND	1.0	ND	1.0

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		Sample Type: Water								
		GWO-	HNO3	GW1-HNO3		GW3-	HN03			
Method and Constituent:	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>	Concen- tration	Reporting <u>Limit</u>			
EPA Method 7520: Nickel	ug/l	ND	300	ND	300	ND	300			
EPA Method 7741: Selenium	ug/1	ND	5.0	ND	5.0	ND	5.0			
EPA Method 7760: Silver	ug/l	ND	10	ND	10	ND	10			
EPA Method 7841: Thallium	ug/1	ND	100	ND	100	ND	100			
EPA Method 7950: Zinc	ug/l	ND	50	ND	50	ND	50			

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			<u>Sample</u>	Type:	Water
Method and Constituent:	<u>Units</u>	<u>Metho</u> Concen- <u>tration</u>	d Blank Reporting Limit	OC Summ % Recovery	ary % RPD
EPA Method 7041: . Antimony	ug/1	ND	650	101	**
EPA Method 7060: Arsenic	ug/1	ND	5.0	107	**
EPA Method 7090: Beryllium	ug/l	ND	5.0	108	**
EPA Method 7130: Cadmium	ug/l	ND	10	101	**
EPA Method 7190: Chromium	ug/l	ND	50	91	**
EPA Method 7210: Copper	ug/l	ND	200	98	**
EPA Method 7420: Lead	ug/l	ND	100	95	14
EPA Method 7471: Mercury	ug/l	ND	1.0	95	**

Concentrations reported as ND were not detected at or above the reporting limit.

\*\* The RPD is not reportable since the sample prepared in duplicate was not detectable.

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	Sample Type: Water							
			d Blank	QC_Sum				
Method and Constituent:	<u>Units</u>	Concen- <u>tration</u>	Reporting <u>Limit</u>	% <u>Recovery</u>	% RPD			
; EPA Method 7520:					•			
Nickel	ug/1	ND	300	98	**			
EPA Method 7741:								
Selenium	ug/1	ND	5.0	90	**			
EPA Method 7760:								
Silver	ug/1	ND	10	104	**			
EPA Method 7841:								
Thallium	ug/1	ND	100	124	**			
EPA Method 7950:								
Zinc	ug/l	ND	50	93	3.1			

Concentrations reported as ND were not detected at or above the reporting limit.

The RPD is not reportable since the sample prepared in duplicate was not detectable.

Louis W. DuPuis

Quality Assurance/Quality Control Manager

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Sample Type: Soil

		B1-2' B1-5'		B1-10'			
Method and Constituent:	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>
EPA Method 7041: Antimony	ug/kg	ND	14,000	ND	14,000	· ND	14,000
EPA Method 7060: Arsenic	ug/kg	5,400	120	9,100	120	11,000	120
EPA Method 7090: Beryllium	ug/kg	ND	120	200	120	150	120
EPA Method 7130: Cadmium	ug/kg	ND	250	ND	250	ND	250
EPA Method 7190: Chromium	ug/kg	2,200	1,200	46,000	1,200	27,000	1,200
EPA Method 7210: Copper	ug/kg	5,500	5,000	20,000	5,000	23,000	5,000
EPA Method 7420: Lead	ug/kg	ND	2,500	4,500	2,500	3,800	2,500
EPA Method 7471: Mercury	ug/kg	ND	50	91	50	100	50

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	Sample Type: Soil								
Method and Constituent:		Ri	1-2'	B1-5'		_B1	-10'		
	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>		
EPA Method 7520: Nickel	ug/kg	ND	7,500	67,000	7,500	35,000	7,500		
EPA Method 7741: Selenium	ug/kg	ND	120	ND	120	ND	120		
EPA Method 7760: Silver	ug/kg	ND	250	ND	250	ND	250		
EPA Method 7841: Thallium	ug/kg	ND	3,800	ND	3,800	ND	3,800		
EPA Method 7950: Zinc	ug/kg	21,000	1,200	50,000	1,200	47,000	1,200		

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		Sample Ty		Type: Şoil			
		B2-1'		B2-5′		82-10'	
Method and Constituent:	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>	Concen- tration	Reporting Limit
EPA Method 7041: Antimony	ug/kg	ND	14,000	ND	14,000	ND	14,000
EPA Method 7060: Arsenic	ug/kg	16,000	120	12,000	120	14,000	120
EPA Method 7090: Beryllium	ug/kg	230	120	140	120	190	120
EPA Method 7130: Cadmium	ug/kg	320	250	ND	250	300	250
EPA Method 7190: Chromium	ug/kg	41,000	1,200	34,000	1,200	40,000	1,200
EPA Method 7210: Copper	ug/kg	24,000	5,000	25,000	5,000	24,000	5,000
EPA Method 7420: Lead	ug/kg	11,000	2,500	4,000	2,500	5,000	2,500
EPA Method 7471: Mercury	ug/kg	67	50	91	50	68	50

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Method and Constituent:	Sample Type: Soil								
		R2	2-1'	B2	-5′	B2	-10'		
	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit		
EPA Method 7520: Nickel	ug/kg	55,000	7,500	33,000	7,500	44,000	7,500		
EPA Method 7741: Selenium	ug/kg	ND	120	ND	120	ND	120		
EPA Method 7760: Silver	ug/kg	ND	250	ND	250	ND	250		
EPA Method 7841: Thallium	ug/kg	ND	3,800	ND	3,800	ND	3,800		
EPA Method 7950: Zinc	ug/kg	61,000	1,200	46,000	1,200	51,000	1,200		

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			Sample	Type:	Soil		
		83	-1'	B <u>3</u>	-5′	B3	-10'
Method and Constituent:	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>	Concen- tration	ReportingLimit
EPA Method 7041: Antimony	ug/kg	ND	14,000	ND	14,000	· ND	14,000
EPA Method 7060: Arsenic	ug/kg	6,100	120	7,500	120	12,000	120
EPA Method 7090: Beryllium	ug/kg	220	120	130	120	150	120
EPA Method 7130: Cadmium	ug/kg	ND	250	ND	250	ND	250
EPA Method 7190: Chromium	ug/kg	88,000	1,200	37,000	1,200	29,000	1,200
EPA Method 7210: Copper	ug/kg	22,000	5,000	16,000	5,000	16,000	5,000
EPA Method 7420: Lead	ug/kg	6,500	2,500	3,000	2,500	4,000	2,500
EPA Method 7471: Mercury	ug/kg	91	50	200	50	160	50

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			Sample	Type:	Soil		<del></del>
		R3	-1'	B3	-5′	B3	-10'
Method and Constituent:	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>
EPA Method 7520: Nickel	ug/kg	64,000	7,500	35,000	7,500	36,000	7,500
EPA Method 7741: Selenium	ug/kg	ND	120	ND	120	ND	120
EPA Method 7760: Silver	ug/kg	1,800	250	ND	250	ND	250
EPA Method 7841: Thallium	ug/kg	ND	3,800	ND	3,800	ND	3,800
EPA Method 7950: Zinc	ug/kg	56,000	1,200	39,000	1,200	39,000	1,200



10-1-92 SUBSURFACE INVESTIGATION / CHROMEX 1400 PARK AUE EMERYVILLE, CA

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DATE TIME \$ \$ SAMPLE LOCATION  HEDIA  CO-1-12 4/17  X BOCKHOLE #1; TWO FEET deep SCIL  10-1-12 4/12 X Borehole #1; five frex deep Scil  10-1-14 10:36 X Borehole #1; one feet deep Soil  10-1-14 10:36 X Borehole #1; five frex deep Soil  10-1-14 10:44 X Borehole #1; five frex deep Soil  10-1-14 10:44 X Borehole #1; five frex deep Soil  10-1-14 10:45 X Borehole #1; five frex deep Soil  10-1-14 10:55 X Borehole #1; five frex deep Soil  10-1-14 11:55 X Borehole #3; one feet deep Soil  10-1-14 12:56 X Control #5; five frex deep Soil  10-1-14 13:08 X Control Borehole #0; one feet Soil  10-1-14 13:08 X Control Borehole #0; then feet Soil  10-1-14 13:08 X Control Borehole #0; then feet Soil  10-1-14 13:08 X Control Borehole #0; then feet Soil  10-1-14 13:08 X Control Borehole #0; then feet Soil  10-1-14 13:08 X Control Borehole #0; then feet Soil  10-1-14 13:08 X Control Borehole #0; then feet Soil  10-1-15 13:08 X Control Borehole #0; then feet Soil  10-1-15 13:08 X Control Borehole #0; then feet Soil  10-1-15 13:08 X Control Borehole #0; then feet Soil  10-1-15 13:08 X Control Borehole #0; then feet Soil  10-1-15 13:08 X Control Borehole #0; then feet Soil  10-1-15 13:08 X Control Borehole #0; then feet Soil  10-1-15 13:08 X Control Borehole #0; then feet Soil	ELTRANS  CHYCOMER SUBSURFACE INVESTIGATION  DATE THE S S SAMPLE LOCATION  DATE THE S S SAMPLE LOCATION  COLL X  BOCKHOLE # 1; TWO FRET deep SCIL X  BOTE HOLE # 1; FIVE FRET deep SCIL X  BOTE HOLE # 1; FIVE FRET deep SCIL X  BOTE HOLE # 1; FIVE FRET deep SCIL X  BOTE HOLE # 1; FIVE FRET deep SCIL X  BOTE HOLE # 1; FIVE FRET deep SCIL X  BOTE HOLE # 1; FIVE FRET deep SCIL X  BOTE HOLE # 1; FIVE FRET deep SCIL X  BOTE HOLE # 1; FIVE FRET deep SCIL X  BOTE HOLE # 1; FIVE FRET deep SCIL X  BOTE HOLE # 1; FIVE FRET deep SCIL X  BOTE HOLE # 1; FIVE FRET deep SCIL X  BOTE HOLE # 3; FIVE FRET deep SCIL X  BOTE HOLE # 3; FIVE FRET deep SCIL X  BOTE HOLE # 3; FIVE FRET deep SCIL X  BOTE HOLE # 3; FIVE FRET DEEP SCIL X  BOTE HOLE # 3; FIVE FRET DEEP SCIL X  BOTE HOLE # 3; FIVE FRET DEEP SCIL X  BOTE HOLE # 3; FIVE FRET DEEP SCIL X  BOTE HOLE # 3; FIVE FRET DEEP SCIL X  BOTE HOLE # 3; FIVE FRET DEEP SCIL X  BOTE HOLE # 3; FIVE FRET DEEP SCIL X  BOTE HOLE # 3; FIVE FRET DEEP SCIL X  BOTE HOLE # 13:03 X CONTROL BOTE HOLE # 0; FIVE FRET SCIL X  BOTE HOLE # 1:00 FRET DEEP SCIL X  BOTE HOLE # 1:00 FRET	ELTRANS  CITICAMER SUBSULTACE  TOWNER CONFILE TOWNLESH, INC.  DATE TIME & Somethie Townlesh, Inc.  DATE TIME & South X  DATE TIME & Received by: 15-parameter  The Date Time & Received by: 15-parameter  DATE TIME & Received for Laboratory by:	ELTRANS  CHYCAMER SUBSULFACE  INVESTIGATION  PAUL CONFTE TONDERM, Inc.  DATE THE S S SAMPLE LOCATION  HEDIA  COL-92 9/17   SORTHOLE #1; TWO FACT deep SCIL X  10-194 9/22   Berehole #1; Five fiet deep SCIL X  10-194 10:49   Borchole #1; One feet deep SCIL X  10-194 10:49   X Borchole #1; Five fiet deep SCIL X  10-194 10:49   X Borchole #1; One feet deep SCIL X  10-194 10:49   X Borchole #1; One feet deep SCIL X  10-194 10:49   X Borchole #1; One feet deep SCIL X  10-194 10:49   X Borchole #1; One feet deep SCIL X  10-194 10:49   X Borchole #1; One feet deep SCIL X  10-194 10:55   X Borchole #1; One feet deep SCIL X  10-194 10:55   X Borchole #1; Five feet deep SCIL X  10-194 10:55   X Control #1; The feet deep SCIL X  10-194 10:56   X Control #2; The feet deep SCIL X  10-194 10:56   X Control Borchole #0; One feet SCIL X  10-194 10:69   Date / Time Received by: (Sepanary)  Relinquished  Date / Time Received for Laboratory by:  Date / Time Received for Laboratory by:	ELTRANS  CHECKER SUBSURFACE  INVESTIGATION  SISPONIAN  SISPONIAN  DATE TIME & S SAMPLE LOCATION  DATE TIME & SOCIALE #1; TWO FACT deep SCIL X  10-1-92 9/17 X Borehole #1; Two Fact deep SCIL X  10-1-92 9/17 X Borehole #1; Two Fact deep SCIL X  10-1-92 9/12 X X Borehole #2; One fact deep SCIL X  10-1-92 10:340 X Borehole #2; Sive fact deep SCIL X  10-1-92 10:491 X Borehole #2; Sive fact deep SCIL X  10-1-92 10:491 X Borehole #2; One fact deep SCIL X  10-1-92 11:491 X Borehole #3; One fact deep SCIL X  10-1-92 11:551 X BOREHOLE #3; Two Fact deep SCIL X  10-1-92 11:551 X Control #3; Ten Fact deep SCIL X  10-1-92 13:03 X Control #2; Two Fact deep SCIL X  10-1-92 13:03 X Control Borehole #0; One foot SCIL X  10-1-92 13:03 X Control Borehole #0; Two Fact SCIL X  10-1-94 13:08 X Control Borehole #0; Hen fact SCIL X  Date / Time Received by: Isonanum Relatinguished B	ELTRANS  INVESTIGATION  SISPANNEL  SISPANNEL  DATE TIME & SAMPLE LOCATION  LOCI-19, 1917  X BORTHOLE #1; TWO Feet deep SCIL X  BORTHOLE #1; five first deep SCIL X  BORTHOLE #1; five first deep SCIL X  LOCI-19, 1918  X BORCHOLE #1; one feet deep SCIL X  LOCI-19, 10:36  X BORCHOLE #1; one feet deep SCIL X  LOCI-19, 10:36  X BORCHOLE #1; five first deep SCIL X  LOCI-19, 10:49  X BORCHOLE #1; five first deep SCIL X  LOCI-19, 10:49  X BORCHOLE #1; five first deep SCIL X  LOCI-19, 10:49  X BORCHOLE #1; five first deep SCIL X  LOCI-19, 10:49  X BORCHOLE #1; five first deep SCIL X  LOCI-19, 11:55  X BORCHOLE #1; five first deep SCIL X  LOCI-19, 11:55  X BORCHOLE #1; five first deep SCIL X  LOCI-19, 11:55  X BORCHOLE #1; five first deep SCIL X  LOCI-19, 13:03  X CONTROL BORCHOLE #0; FIVE FEET SCIL X  LOCI-19, 13:08  X CONTROL BORCHOLE #0; FIVE FEET SCIL X  LOCI-19, 13:08  Date / Time Received by: (Signanura)  Retinquished by: (Signanura)  Retinquished by: (Signanura)	ELTRANS  CHATGARE SUBSURFACE  INVESTIGATION  SISPANNEL  SISPANNEL  CANTILE LOCATION  HEDIA  COLLEGE 9/17 X CORPOLE # 1; TWO FACT deep SCIL X  BORCHOLE # 1; FIVE FACT deep SCIL X  10-1-91 9/128 X BORCHOLE # 1; FIVE FACT deep SCIL X  10-1-91 10:36 X CORPOLE # 2; One fact deep SCIL X  10-1-91 10:36 X CORPOLE # 2; One fact deep SCIL X  10-1-91 10:48 X BORCHOLE # 2; FIVE FACT deep SCIL X  10-1-91 10:48 X BORCHOLE # 3; ONE FACT deep SCIL X  10-1-91 11:49 X BORCHOLE # 3; ONE FACT deep SCIL X  10-1-91 11:55 X CORPOLE # 3; FIVE FACT deep SCIL X  10-1-91 11:55 X CORPOLE # 3; FIVE FACT deep SCIL X  10-1-91 11:55 X CORPOLE # 3; FIVE FACT deep SCIL X  10-1-91 13:03 X CORPOLE # 3; FIVE FACT deep SCIL X  10-1-91 13:03 X CORPOLE # 3; FIVE FACT deep SCIL X  10-1-91 13:03 X CORPOLE # 3; FIVE FACT deep SCIL X  10-1-91 13:03 X CORPOLE # 0; FIVE FACT SCIL X  10-1-91 13:05 X CORPOLE # 0; FIVE FACT SCIL X  10-1-91 10:05 X CORPOLE # 0; FIVE FACT SCIL X  10-1-91 10:05 X CORPO	ELTRANS  CITICAMEN SUBSIDERACE INVESTIGATION  SISPANDIE INCATION  DATE TIME & SAMPLE IDUATION  LOI-1-1 9/17 X BOCKHOLE #1; TWO FACT deep SCIL X  BOCKHOLE #1; TWO FACT deep SCIL X  BOCKHOLE #1; TWO FACT deep SCIL X  LOI-1-1 9/12 X BOCKHOLE #1; TWO FACT deep SCIL X  LOI-1-1 10:36 X BOCKHOLE #1; TWO FACT deep SCIL X  LOI-1-1 10:36 X BOCKHOLE #1; ONE FOOT deep SCIL X  LOI-1-1 10:48 X BOCKHOLE #1; ONE FOOT deep SCIL X  LOI-1-1 10:48 X BOCKHOLE #1; ONE FOOT deep SCIL X  LOI-1-1 10:55 X BOCKHOLE #1; ONE FOOT deep SCIL X  LOI-1-1 10:55 X BOCKHOLE #1; ONE FOOT deep SCIL X  LOI-1-1 10:55 X BOCKHOLE #1; ONE FOOT deep SCIL X  LOI-1-1 10:55 X CONTROL BOCKHOLE #0; ONE FOOT SCIL X  LOI-1-1 10:56 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:56 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; FIVE FEET SCIL X  LOI-1-1 10:08 X CONTROL BOCKHOLE #0; 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DETECTION  DETECTION  DETECTION  DETECTION  LIMIT  10-1-9-9-17-17-18-18-18-19-18-18-18-18-18-18-18-18-18-18-18-18-18-	ELTRANS  CHROME SUBSULTAGE  TOUGHT GATION  S. ISPANICE  THE B S SAMPLE LOCATION  DETECTION  LIMIT  DOTE TIME B S SAMPLE LOCATION  DETECTION  LIMIT  DOTE TIME B S SAMPLE LOCATION  DETECTION  LIMIT  DOTE TIME B S SAMPLE LOCATION  HEDIA  LIMIT  DOTE TIME  DOTE HOLE # 1; TWO FACE deep SCIL X  DOTE HOLE # 1; TWO FACE deep SCIL X  DOTE HOLE # 1; ONE FACE deep SCIL X  DOTE HOLE # 2; FIVE FACE deep SCIL X  DOTE HOLE # 3; FIVE FACE deep SCIL X  DOTE HOLE # 3; FIVE FACE deep SCIL X  DOTE HOLE # 3; FIVE FACE deep SCIL X  DOTE HOLE # 3; FIVE FACE deep SCIL X  DOTE HOLE # 3; FIVE FACE deep SCIL X  DOTE HOLE # 3; FIVE FACE deep SCIL X  DOTE HOLE # 3; FIVE FACE deep SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  DOTE HOLE # 3; FIVE FACE DEEP SCIL X  REFINGUISHED BY: (Signature)  DOTE HOLE # 15;  DOTE	ELTHANS  CHYCHER SUBSITION  SEPTEMBER  TIME S SAMPLE LOCATION  DETECTION TURN  LOLI-1: 4117  A BOCK HOLE #1; TWO feet deep SCIL X  BOCK HOLE #1; Five fiet SCIL X  BOCK HOLE #1; Five	ELTRANS  THE STORY ON THE TONDOOR SUBSIDERACE THE THE STORY ON THE THE STORY ON THE TONDOOR SCILL X  DATE THE STORY ON THE TONDOOR SCILL X  BORTHOUTH 1; TWO WAS DEED SCILL X  BORTHOUTH 1; TWO WAS DEED X  BORTHOUTH 1; TW	ELTRANS  CHYCLORY  TUNESTICATION  HEDIA  DETECTION  TURN-AROUND  SUITH  THE \$\frac{3}{5}\$\$ SAMPLE LOCATION  HEDIA  DETECTION  TURN-AROUND  SUITH  THE \$\frac{3}{5}\$\$ SAMPLE LOCATION  HEDIA  DETECTION  TURN-AROUND  SUITH  THE \$\frac{3}{5}\$\$ SAMPLE LOCATION  HEDIA  DETECTION  TURN-AROUND  SUITH  THE  SUITH  THE  SUITH  SUITH  THE  SUITH  SUITH  THE  SUITH  SUI

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10-1-92 SUBSURFACE THURSTIGHTION CHROMEX, 1400 FARE AVE, EMERYVIVE, CA. CHAIN OF CUSTODY RECORD

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SUBSURFACE THUESTIGATION / CHROMEX 1400 PARK AUE EMERYVILLE,

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MANN CANTER, TONARCH, JNC.  PIE DATE TIME \$ \$ \$ SAMPLE LOCATION  PRICE TIME TIME TIME THE TONARCH SOLL X  LOLLY GIT X CORPERCE \$1; TWO FREE deep SOLL X  STULT. Chromium  STULT.			TRA	N		CHYCOM	ኒሮጆ <b>5</b> ∪8	SURFACI	F				S						/				
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1.5 in 191 (2.2) X fore hole \$ \$; five feet deep Soil X  1.			<del></del>	<b> </b>	区	BOREHOL	TE #1,	Two Get	t deep	SOIL										SIT	U.7.	Chre	mium
Formation   128   X   Borehole   1   ten freet deep   Soil   X     Soil   101   10134   X   Borehole   2   Soil   101   X     Soil   1014   X   Sorehole   2   Five feet deep   Soil   X     Soil   1014   X   Borehole   2   Five feet deep   Soil   X     Soil   115   X   Borehole   3   Five feet deep   Soil   X     Soil   1015   X   Borehole   3   Five feet deep   Soil   X     Soil   1015   X   Borehole   3   Five feet deep   Soil   X     Soil   1015   X   Control   8   Five feet   X     Soil   1015   X   Control   8   Five feet   X     Soil   1015   X   Cont		<del> </del>		_			•			عدد	X												
AT 10-74 10:36 X Corkote #3; One foot dead SOIL X  So 1-4 10:44 X Borehole #3; Five feet deep SOIL X  1-10 10-14 10:48 X Borehole #3; One foot deep SOIL X  -1/ 0-1-74 11:44 X Borehole #3; One foot deep SOIL X  -5/ 10-14 11:51 X Corkote #3; One foot deep SOIL X  -5/ 10-14 11:55 X Corkote #3; En Feet deep SOIL X  -1/ 10-14 12:55 X Corkote #3; En Feet deep SOIL X  -5/ 10-14 13:08 X Corkote #0; One foot SOIL X  -5/ 10-14 13:08 X Corkote #0; Five feet SOIL X  -5/ 10-14 13:08 X Corkote Borehole #0; Five feet SOIL X  -10/ 10-1-743:08 X CORKOTE BOREHOLE #0; Five feet SOIL X  -10/ 10-1-743:08 X CORKOTE BOREHOLE #0; Five feet SOIL X  -10/ 10-1-743:08 X CORKOTE BOREHOLE #0; Five feet SOIL X  -10/ 10-1-743:08 X CORKOTE BOREHOLE #0; Five feet SOIL X  -10/ 10-1-743:08 X CORKOTE BOREHOLE #0; Five feet SOIL X  -10/ 10-1-743:08 X CORKOTE BOREHOLE #0; Five feet SOIL X  -10/ 10-1-743:08 X COR				_	×	Bore hole	31 ; te	n fect 1	dece	Sol	×												
Social and the local and the social	T-				×	Borchole	#1;0	ne fout	deep .	SOLL	×				<u> </u>		<u> </u>	فالإخروسوا بالخان			<u> </u>	<b></b> '	
3-10 in 1-11-10-10 X Sorchole \$2; ten frot deep Soil X  3-5' in 1-12   11-14 X Sorchole \$3; Sive feet deep Soil X  3-5' in 1-12   11-15 X Sorchole \$3; Sive feet deep Soil X  3-10' in 1-12   11-15 X Sorchole \$3; Sive feet deep Soil X  3-10' in 1-12   11-15 X Sorchole \$3; ten feet deep Soil X  3-10' in 1-12   11-15 X Control, sorchole \$0; one feet Soil X  3-10' in 1-12   11-15 X Control, sorchole \$0; five feet Soil X  3-10' in 1-12   11-15 X Control Soil X  3-10' in 1-12   11-12 X Control Soil X  3-10' in 1-12 X Control Soil X					×	Borchole	2#2; F	ive feet	: deep	Soit	X				L'						<u> </u>		
Service 11:44 X Borehole \$3; one floor deep Soil X  3-5' 10-194 11:55 X Borehole \$3; five feet deep Soil 7  3-10' 10-194 11:55 X Borehole \$3; feet deep Soil 7  3-10' 10-194 11:55 X Borehole \$3; feet deep Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; one floor Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; one floor Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X Control. Sorehole \$0; five feet Soil X  3-10' 10-194 11:55 X  3-1				-1 -	X	porchale	#2 +	ten feet	dee e	SOIL	T×						1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		<u></u>	<u> </u>		
Sold ton-12 [1:5] X Borehole #3: Five feet deep Soil X  Sold ton-12 [1:55] X Borehole #3: ten feet deep Soil X  -[1] tan-13: 12:56 X Control. Forehole #0: one flot Soil X  -[5] ton-14: 13:08 X Control. Borehole #0: five feet Soil X  Delp ton-13:08 X Control Borehole #0: ten feet Soil X  -[6] ton-13:08 X Control Borehole #0: ten feet Soil X  -[7] ton-13:08 X Control Borehole #0: ten feet Soil X  -[8] ton-14: 13:08 X Control Borehole #0: ten feet Soil X  -[9] ton-13:08 X Control Borehole #0: ten feet So	-17	10-1-92	, हिस्स		×	Borehole	¢#3;	one feat	deee	Soil	×		<u> </u>	<u>'</u>	<u>.</u>		<u></u>		]	<b></b> '	<b></b>		<del></del>
Sorchola #3; ten feet deep SOIL X  -[1] In-1-9, 12:56 × Control, Forehole #0; one flot Soil X  -[2] In-1-9, 13:03 × Control, Sorehole #0; five feeth Soil X  -[3] In-1-9, 13:08 × Control Borehole #0; five feeth Soil X  -[4] In-1-9, 13:08 × Control Borehole #0; five feeth Soil X  -[5] In-1-9, 13:08 × Control Borehole #0; five feeth Soil X	-5'	10-4-61	11:51		×	Borehole	c #3;	five fee	et deep	SOIL	17			'	<u> </u>	!		<del>,</del>		<u></u>		1	<b></b>
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-5' 10-1-12-13:08  X Control Borehole #O; five feet Soil X  -10" 10-1-713:08  X Control Borehole #O; ten feet Soil X  -10" 10-1-713:08  X Control Borehole #O; ten feet Soil X	- (1	14 ~[~9	9-12:56								<u> X</u>				1_		<u></u>			<u></u>	<b></b>	<u></u>	<b></b>
Date / Time   Received by: (Signature)   Date / Time   Received by: (Signature	-5'	10-1-92	12-13:03	<u> </u>		ŧ				SOIL			<b>_</b> '	<b>_</b> _'	1	<u> </u>	<u> </u>			<u></u>		<b></b>	<del> </del>
Date / Time Received by: (Square)  Relinquished by: (Square)  [Match, 40c  [Match,					<u>ا</u> ×	Control	Boreitole	-#0; ter	a feet	SOIL	1×		1_	<b></b> _'	1	1	<u> </u>	<del>,</del>			<u></u>		<u> </u>
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					40												<u>_</u> F	المستحيد بالمستفي			Jakine		condua
Inquished by: (Service) Date / Time Received for Laboratory by: Date / Time Remarks / L., GWO, GW-1, GWB - 1-500 ml	) UGO:FF	hed by:	15:gnawn	**		Date	/Time	Received 1	by: (Signature	•	El es	anquit	ived 2	ry: 15	i <b>j</b> nste	res)		Dati	1 / 1 40	(Mat.)	fecathen ma	: Sargetanu	*43
and 2-40 ml HCI each - 8918	linguisi	hed by:	(Spul	nl		Date	/Time	Received ( (Signature)		ork phs	1	O:	PH / T	inte		Rema	ul me	2-4	NWO Dom	,6w-	1,6w3 C1 cac	-1-50 L 56	one HN ggreen
51,B2,B3,B0-1-BTeach Y-5	<u></u>				لبم		1	<u> </u>					<del></del>			\display	1,8	2,153	380	2 <del>-</del> ,	1-BTea	.ch	y-5,

LOG NUMBER:

2518

DATE SAMPLED:

09/22/92 09/22/92

DATE RECEIVED: DATE EXTRACTED:

10/04/92 and 10/06/92

DATE ANALYZED:

10/05/92, 10/06/92 and 10/07/92

DATE REPORTED: 10/15/92

CUSTOMER:

Excel Trans, Inc.

REQUESTER:

Mary Boyd

PROJECT:

No. 072027, Chromex Subsurface Investigation

			Sample	Type:	Water ·		
		SW-	1	Metho	d Blank	QC_Sun	mary
Method and Constituent:	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>	% <u>Recovery</u>	% RPD
EPA Method 7041:							
Antimony	ug/l	ND	650	ND	650	101	*
EPA Method 7060:							
Arsenic	ug/l	ND	5.0	ND	5.0	107	*
EPA Method 7090:							
Beryllium	ug/1	ND	5.0	ND	5.0	108	*
EPA Method 7130:							
Cadmium	ug/l	ND	10	ND	10	101	*
EPA Method 7190:							
Chromium	ug/1	2,500	50	ND	50	91	*
EPA Method 7210:							•
Copper	ug/1	ND	200	ND	200	98	*
EPA Method 7420:							
Lead	ug/1	ND	100	NĐ	100	95	14
EPA Method 7471:							
Mercury	ug/l	ND	1.0	ND	1.0	95	*

Concentrations reported as ND were not detected at or above the reporting limit.

The RPD is not reportable since the sample prepared in duplicate was not detectable.

LOG NUMBER:

2518

DATE SAMPLED: DATE RECEIVED: 09/22/92

DATE EXTRACTED: DATE ANALYZED:

09/22/92

10/12/92, 10/14/92 and 10/15/92 10/13/92, 10/14/92 and 10/15/92

DATE REPORTED:

10/15/92

PAGE:

Three

			<u>Sample</u>	Type:	Soil
Method and Constituent:	<u>Units</u>	SO-1 Concen- tration	Reporting Limit	SO-2 Concen- tration	Reporting Limit
EPA Method 7041: .	ug/kg	ND	14,000	ND	14,000
EPA Method 7060: Arsenic	ug/kg	12,000	120	18,000	120
EPA Method 7090: Beryllium	ug/kg	190	120	180	120
EPA Method 7130: Cadmium	ug/kg	. ND	250	260	250
EPA Method 7190: Chromium	ug/kg	540,000	1,200	1,300,000	1,200
EPA Method 7210: Copper	ug/kg	20,000	5,000	23,000	5,000
EPA Method 7420: Lead	ug/kg	7,000	2,500	26,000	2,500
EPA Method 7471: Mercury	ug/kg	68	50	130	50

TABLE II

ANALYSIS OF VAULT SOIL SAMPLES

SURFACE SAMPLE FROM BOTTOM OF VAULT / LOCATION	CHROMIUM CONCENTRATION (mg/kg)
SO1 / Southeast corner of vault	Chromium: 540 mg/kg
SO2 / Northwest corner of vault	Chromium: 1,300 mg/kg

In addition to soil samples, groundwater samples from borings and a standing water sample from the floor of the vault were also analyzed. Significantly, metal analysis of all borehole groundwater samples showed nondetecable levels for all tested metals. In contrast, the standing water sample from the floor of the vault showed an elevated chromium concentration. Moreover, analysis of groundwater for volatile organics revealed trichloroethene from potential offsite locations may have migrated onto the Chromex site. Offsite migration is evidenced by the constant and ubiquitous level of trichloroethene in groundwater samples, including the control sample. Table III summarizes the contaminate levels for both the groundwater and the vault water samples.

TABLE III
GROUNDWATER AND VAULT WATER CONTAMINATES

GROUNDWATER SAMPLE / DEPTH	CONTAMINA	ATE LEVEL (mg/l)
GW0 / 8 feet	Trichloroethene: Tetrachloroethene:	.0058 mg/l .0104 mg /l
GW1 / 10 feet	Trichloroethene:	.0041 mg/l
GW3 / 8 feet	Trichloroethene: Tetrachloroethene:	.0047 mg/l .0036 mg/l
SW1 / Surface water from floor of vault	Chromium:	2.5 mg/i

TABLE I

#### SUMMARY OF BOREHOLE SOIL SAMPLING FOR METALS

BOREHOLE SAMPLE / DEPTH	METAL CONCENTRATION (mg/kg)
B0-1' / 1 foot	Copper: 260 mg/kg Lead: 270 mg/kg Zinc: 320 mg/kg
B0-5' / 5 feet	Typical background levels
B0-10' / 10 feet	Typical background levels
B1-2' / 2 feet	Typical background levels
B1-5' / 5 feet	Typical background levels
B1-10' / 10 feet	Typical background levels
B2-1' / 1 foot	Typical background levels
B2-5' / 5 feet	Typical background levels
B2-10' / 10 feet	Typical background levels
B3-1' / 1 foot	Chrome: 88 mg/kg Silver: 1.8 mg/kg
B3-5' / 5 feet	Typical background levels
B3-10' / 10 feet	Typical background levels

Further, two surface soil samples from the floor of the vault were also collected. Both vault soil samples showed elevated concentrations of chromium. Table II summarizes the chromium levels found in the vault soil samples.





October 15, 1992

Ms. Mary Boyd Excel Trans, Inc. P.O. Box 866 Benicia, California 94510-0866

Dear Ms. Boyd:

Trace Analysis Laboratory received one water sample and two soil samples on September 22, 1992 for your project No. 072027, Chromex Subsurface Investigation (our custody log number 2518).

These samples were analyzed for Priority-13 Metals. Our analytical report and the completed chain of custody form are enclosed for your review.

Trace Analysis Laboratory is certified under the California Environmental Laboratory Accreditation Program. Our certification number is 1199.

If you should have any questions or require additional information, please call me.

Sincerely yours,

Project Specialist

Enclosures

RECEIVED OCT 2 2 1992

LOG NUMBER:

2518

DATE SAMPLED:

09/22/92

DATE RECEIVED:

09/22/92

DATE EXTRACTED: DATE ANALYZED:

10/04/92 and 10/06/92 10/05/92, 10/06/92 and 10/07/92

DATE REPORTED:

10/15/92

PAGE:

Two

				Sample	Type:	Water		
			S	W-1	Metho	d Blank	QC Sum	mary
	Method and Constituent:	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	% Recovery	% RPD
	EPA Method 7520: Nickel	ug/1	ND	300	ND	300	98	*
	EPA Method 7741: Selenium	ug/1	ND	5.0	ND	5.0	90	*
	EPA Method 7760: Silver	ug/1	ND	10	ND	10	104	*
,	EPA Method 7841: Thallium	ug/1	ND	100	ND	100	124	*
	EPA Method 7950: Zinc	ug/1	ND	50	ND	50	93	3.1

Concentrations reported as ND were not detected at or above the reporting limit.

<sup>\*</sup> The RPD is not reportable since the sample prepared in duplicate was not detectable.

LOG NUMBER:

2518

DATE SAMPLED: DATE RECEIVED: 09/22/92 09/22/92

DATE EXTRACTED:

10/12/92, 10/13/92 and 10/14/92 10/13/92, 10/14/92 and 10/15/92

DATE ANALYZED: DATE REPORTED:

10/15/92

PAGE:

Four

	Sample Type: Soil							
		SO-1		\$0-2		Method Blank		
Method and Constituent:	<u>Units</u>	Concen- tration	Reporting Limit	Concen- tration	Reporting Limit	Concen- tration	Reporting <u>Limit</u>	
EPA Method 7520: Nickel	ug/kg	38,000	7,500	39,000	7,500	ND	7,500	
EPA Method 7741: Selenium	ug/kg	ND	120	NĐ	120	ND	120	
EPA Method 7760: Silver	ug/kg	ND	250	ND	250	ND	250	
EPA Method 7841: Thallium	ug/kg	ND	3,800	ND	3,800	ND	3,800	
EPA Method 7950: Zinc	ug/kg	110,000	1,200	150,000	1,200	ND	1,200	

LOG NUMBER:

2518

DATE SAMPLED: DATE RECEIVED: 09/22/92 09/22/92

DATE EXTRACTED: DATE ANALYZED:

10/12/92, 10/14/92 and 10/15/9 10/13/92, 10/14/92 and 10/15/9

DATE REPORTED:

10/15/92

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		Sample Type:			Soil
Method and Constituent:	<u>Units</u>	<u>Metho</u> Concen- <u>tration</u>	d Blank Reporting Limit	<u>QC Summ</u> % <u>Recovery</u>	ary % RPD
EPA Method 7041: Antimony	ug/kg	ND	14,000	94**	<b>.</b> *
EPA Method 7060: Arsenic	ug/kg	ND	120	98**	3.3
EPA Method 7090: Beryllium	ug/kg	ND	120	70	4.3
EPA Method 7130: Cadmium	ug/kg	ND	250	88	14
EPA Method 7190: Chromium	ug/kg	ND	1,200	123	1.2
EPA Method 7210: Copper	ug/kg	ND	5,000	78	1.1
EPA Method 7420:	ug/kg	ND	2,500	75	12
EPA Method 7471: Mercury	ug/kg	ND	50	103	8.7

<sup>\*</sup> The RPD is not reportable since the sample prepared in duplicate was not detectable.

\*\* The Recovery is for the Laboratory Control Sample, due to interference in the spiked sample.

2518 LOG NUMBER: DATE SAMPLED: 09/22/92 DATE RECEIVED: 09/22/92

10/12/92, 10/13/92 and 10/14/92 DATE EXTRACTED: 10/13/92, 10/14/92 and 10/15/92 DATE ANALYZED:

10/15/92 DATE REPORTED: Six

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	Sample Type: Soil					
			Method Blank		ary	
Method and Constituent:	<u>Units</u>	Concen- <u>tration</u>	Reporting <u>Limit</u>	% <u>Recovery</u>	% RPD	
EPA Method 7520:						
Nickel	ug/kg	ND	7,500	83	1.9	
EPA Method 7741:						
Selenium	ug/kg	ND	120	90**	*	
EPA Method 7760:						
Silver	ug/kg	ND	250	50**	*	
EPA Method 7841:	• •					
Thallium .	ug/kg	ND	3,800	89	*	
EPA Method 7950:						
Zinc	ug/kg	ND	1,200	73	1.5	

Concentrations reported as ND were not detected at or above the reporting limit.

\* The RPD is not reportable since the sample prepared in duplicate was not detectable. \*\* The Recovery is for the Laboratory Control Sample, due to interference in the spiked sample.

Louis W. DuPuis

Quality Assurance/Quality Control Manager