

McLaren Environmental Engineering

LETTER OF TRANSMITTAL

Engineering	
Rancho Cordova: (916) 638-3696	DATE 1/15/89 JOB NO. UPS- (10)
Los Angeles: (714) 756-2667	
Alameda: (415) 521-5200	RE: A. A. A. A. A. D. A. A.
TO Alameda County Health Agency	RE: Analytical Results
80 Swan Way Rm 200	
OAKland Cai 94621	
WE ARE SENDING YOU Attached Under sepe	erate cover viathe following items:
☐ Shop drawings ☐ Prints ☐] Plans
☐ Copy of letter ☐ Change order ☐	J
COPIES DATE	DESCRIPTION
NORTH SIDE	PROTEO1.
THESE ARE TRANSMITTED as checked below:	
☐ For approval ☐ Approved as s	ubmitted
	
For your use Approved as r	
☐ As requested ☐ Returned for o	orrections
For review and comment	
☐ FOR BIDS DUE19	PRINTS RETURNED AFTER LOAN TO US
REMARKS Dear Me. Levi : Enclosed are	the analytical results for the soil
	January 4,1990 from the UST at
the UPS ward in OAKland.	0
7 /	you would call and inform me as
to what specification you follow	e) in Alamaca County for tank removal
	k for samples taken January 8,1990
should be available on the	7 1/1-4
16th,	
16.411	Ext. # 748-5697

RECEIVED

McLaren Environmental Engineering 333 15 1990

MACLAREN

Date: January 12, 1990

LP #: 2597

Brent Brelje McLaren 980 Atlantic Avenue Alameda, CA 94501

Dear Mr. Brelje:

Enclosed are the laboratory results for the two sample(s) submitted by you to the McLaren Analytical Laboratory on January 5, 1990, for the project UPS 1.0.

The analyses you requested are:

602 (BTEX) & TVH (TPH-G) (1 - Water) 8020 (BTEX) & TVH (TPH-G) (1 - Soil)

The report consists of the following sections:

- A copy of the chain of custody
- Sample description (chain of custody summary form) 2.
- Quality Control Report 3.
- 4. Comments '
- Analytical results

Unless otherwise instructed by you, samples will be disposed of two weeks from the date of this letter.

Thank you for choosing McLaren Analytical Laboratory. We are looking forward to serving you in the future. Should you have any questions concerning this analytical report or the analytical methods employed, please do not hesitate to call.

Sincerely,

Moratory Director

Shakoora S. Azimi

Quality Assurance Officer

Mclaren

CHAIN OF CUSTODY RECORD

Telephone: (465) SHIP TO: McLaren A	Analytical Laborator nite Rock Road ordova, CA 95670 -3696	Airbi	Shipped: 1/4/90 Il Number: 2031249457 SEND RESUL Client N Compan Address:	ame: Browle) y: Mala	ight/B	exert Brelj	······································
PROJECTNAMI	E: OPS-1.C	3	PROJECT#:	26401			
	PROJECT (LP) #:	/, 2	.597 P.O.#:		,		
Relinquished by: (Sign	nature)	Rece	ived by: (Signature)	Date:	14189	Time: /4	00
Relinquished by: (Sign	nature)	Rece	ived by: (Signature)	Date:	, .,	Time:	
Relinquished by: *Sign	nature)	40	ived at lab by: (Signatury)	Date:	15/90	Time:	20()
			ANALYSIS REQUEST				
Sample ID Number	Sample Description	Date/Time	Analysis Requested	T.A.T.	Type of Container	Number of Containers	Lab ID
028576	Under dispenser prope	1/4189	TPH/g BIEX	3_	Brits		352/>
028577	sueface Grab	1/4/89	TPH/q	<u>3</u>	VOA	1 3	5218
028578		1/4/89	State	3	VOA		
028579		1/4/89	Spale	3	<u> VOA</u>		
028580		114189	spape	3_	Uo.4		
028581		1/4/89	BTEX	3_	VoA		ame ID aga 52/8
018582		1/4/84	Space	3_	<u>VOA</u>		
938583		1/4/89	5 pare	3_	UOA		
028584		1/4/89	Spare	3	UDA		
Special Instructions, Bubbles	Comments:	 unavo:6	lable Gample taken	feom	Distu	ebec) alt	
Sample Condition U	Jpon Receipt:						
1 = Immediate Atte	•		andard: 4 = Standard: week 2 wccks	Laboratory Disp Storage Refrigers Storage Freezer i	ator ID	Secured Yes No	_

McLaren Analytical Laboratory 11101 White Rock Road Rancho Cordova, CA 95670 (916) 638-3696

Client: Brent Brelje

McLaren

Alameda, CA 94501

L.P. #: Date Rec'd: 2597

1/5/90

Date Due:

1/12/90

Section:

GC

Project Name: UPS-1.0

Project #:

26401

Contact:

Brent Brelje

Phone:

415-521-5200

Samples received on 1/5/90 @ 10:00 under Chain(s) of Custody 000962. Chain(s) of Custody agree(s) with sample container(s). Samples received included:

- 1 sample(s) in voa vials for BTEX/TPH-G analysis(es);
- 1 sample(s) in a brass tube for BTEX/TPH-G analysis(es).

Correction(s) made and/or Problem(s): None



QUALITY CONTROL REPORT

METHOD BLANK RESULTS: A method blank (MB) is a laboratory generated sample free of any contamination. The method blank assesses the degree to which the laboratory operations and procedures cause false-positive analytical results for your samples. The method blank results associated with your samples are attached.

LABORATORY CONTROL SPIKES

The LCS Program:

The laboratory control spike is a well characterized matrix (organic pure type II for water samples and contamination free sand for soil samples) which is spiked with certain target parameters and analyzed in duplicate at approximately 10% of the sample load in order to assure the accuracy and precision of the analytical method. The results of the laboratory control spike associated with your samples are attached.

Accuracy is measured using percent recovery, i.e.:

Precision is measured using the relative percent difference (RPD) from duplicate tests, i.e.:

Control limits for accuracy and precision are different for different methods. They may also vary with the different sample matrices. They are based on laboratory average historical data and EPA limits which are approved by the Quality Assurance Department. McLaren Analytical Laboratory reanalyzes samples if the precision or accuracy is out of acceptance control limits.

QUALITY CONTROL REPORT

METHOD BLANK

Method:

602 (BTEX) & TVH

Units:

ug/L (ppb)

COMPOUNDS	REPORTING LIMIT	RESULTS OF THE MB
Benzene	0.5	BRL
Toluene	0.5	BRL
Ethyl Benzene	0.5	BRL
p-Xylene	0.5	BRL
m-Xylene	0.5	BRL
o-Xylene	0.5	BRL
Total Volatile Hydrocarbons	50.	BRL

LABORATORY CONTROL SPIKE

Method: 602 (BTEX) & TVH Units: ug/L (ppb)

	CONCE	NTRATION	ACCURACY	PRECISION
COMPOUNDS	SPIKED	MEASURED	% RECOVERY	RPD
Chlorobenzene	10.	10.	100	11
Benzene	10.	11.	110	10
Ethyl Benzene	10.	10.	100	11
Total Volatile Hydrocarbons	100.	120.	120	16



QUALITY CONTROL REPORT

METHOD BLANK

Method:

8020 (BTEX) & TVH

Units:

ug/g (ppm)

R COMPOUNDS	EPORTING LIMIT	RESULTS OF THE MB
Benzene	0.02	BRL
Toluene	0.02	BRL
Ethyl Benzene	0.02	BRL
p-Xylene	0.02	BRL
m-Xylene	0.02	BRL
o-Xylene	0.02	BRL
Total Volatile Hydrocarbons	1.	BRL

LABORATORY CONTROL SPIKE

Method:

8020 (BTEX) & TVH

Units: ug/g (ppm)

	CONCE	NTRATION	ACCURACY	PRECISION
COMPOUNDS	SPIKED	MEASURED	% RECOVERY	RPD
Chlorobenzene	0.50	0.44	88	9
Benzene	0.50	0.50	100	9
Ethyl Benzene	0.50	0.57	114	15
Total Volatile Hydrocarbons	5.	6.	120	0

COMMENTS

The samples in this project were analyzed by the methods requested on the chain of custody with no deviations in procedure.

ANALYTICAL RESULTS

Test methods may include minor modifications of published EPA methods (e.g., reporting limits or parameter lists). Reporting limits are adjusted to reflect dilution of the sample when appropriate. Solids and waste are analyzed with no correction made for moisture content. Results are corrected for concentrations of analytes which may be found in the blanks.

ABBREVIATIONS USED IN THIS REPORT:

RRT

DKL	Delow reporcing rimic
MB	Method Blank
MS	Matrix Spike
MSD	Matrix Spike Duplicate
LCS	Laboratory Control Spike
LCSD	Laboratory Control Spike Duplicate
RPD	Relative Percent Difference

Relow reporting limit

Results are on the attached data sheets.



VOLATILE AROMATIC COMPOUNDS MODIFIED EPA METHOD 602 (BTEX) AND

TOTAL VOLATILE HYDROCARBONS

Lab Project

Project: <u>UPS 1.0 26401</u> Number: <u>2597</u>

Sample Lab ID

Location: Surface Grab Number: 35218

Sample Date

Number: <u>028577-84</u> Received: <u>01/05/90</u>

Date Date

Sampled: <u>01/04/90</u> Analyzed: <u>01/06/90</u>

COMPOUND	ANALYTE CONCENTRATION ug/L (ppb)	REPORTING LIMIT ug/L (ppb)
Benzene	380.	50.
Toluene	83 0.	50.
Ethyl Benzene	BRL	50.
p-Xylene	BRL	50.
m-Xylene	BRL	50.
o-Xylene	့်ခ ုဝ်.	50.
Total Volatile Hydrocarbons	5000.	5000.
Surrogate recovery (percent) a,a,a-Trifluorotoluene	83	

Comments: 1:100 dilution used in analysis.

Approved By: 0 0 Date: 01/09/90

Ant ----



VOLATILE AROMATIC COMPOUNDS MODIFIED EPA METHOD 8020 (BTEX) AND

TOTAL VOLATILE HYDROCARBONS

Lab Project

Project: <u>UPS 1.0 26401</u> Number: <u>2597</u>

Sample Lab ID

Location: <u>Under Dispenser Pipe</u> Number: <u>35217</u>

Sample Date

Number: 028576 Received: 01/05/90

Date Date

Sampled: 01/04/90 Analyzed: 01/10/90

COMPOUND	ANALYTE <u>CONCENTRATION</u> ug/g (ppm)	REPORTING LIMIT ug/g (ppm)
Benzene	BRL	0.02
Toluene	BRL	0.02
Ethyl Benzene	BRL	0.02
p-Xylene	BRL	0.02
m-Xylene	BRL	0.02
o-Xylene	BRL	0.02
Total Volatile Hydrocarbons	BRL	1.

Surrogate recovery (percent):
a,a,a-Trifluorotoluene 77

Comments:

