

RUST ENVIRONMENT & INFRASTRUCTURE

(FORMERLY WAHLER ASSOCIATES)

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FAX TRANSMITTAL COVER SHEET

To: Ms. Maduhia Logan

Date: 9/20/94

Time: 10:50A

Project No. MARR SITE

Attention: _____

Number of Pages 8
(including transmittal)

FAX No.: _____

From: Robert Serafin

Subject: Analytical Results ^{from pit}
and stockpile

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	<input type="checkbox"/> For your approval	<input type="checkbox"/> For your action
	<input type="checkbox"/> For your information	<input type="checkbox"/> For your files

Comments: Samples labeled SW are from the pit & ^{sidewall} excavation subsequent to over excavation. All others are from the pit & sidewall immediately after bank removal but before over excavation. Samples labeled SP are 3 part composites from the stockpile. The completed report will be forwarded to you within next week. Please call with any questions or comments.

Original will follow by: Regular Mail Federal Express Other

Original will not follow:

ANY QUESTIONS REGARDING TRANSMISSION PLEASE CALL (510) 746-8890

CHROMALAB, INC.

Environmental Services (SDB)

July 6, 1994

Submission #: 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H

Project#: 89477.00

Received: June 27, 1994

re: 8 samples for Gasoline and BTEX analysis.

Matrix: SOIL

Sampled: June 27, 1994

Lab Run#: 3265

Analyzed: July 1, 1994

Method: EPA 5030/8015M/8020

Lab #	SAMPLE ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
55815	AB-1	N.D.	N.D.	N.D.	N.D.	N.D.
55816	BB-1	3.4	12	68	75	320
55817	CB-1	12	N.D.	N.D.	29	40
55820	AB-2	N.D.	N.D.	N.D.	N.D.	N.D.
55821	BB-2	15	8.8	160	170	980

Matrix: SOIL

Sampled: June 27, 1994

Lab Run#: 3284

Analyzed: July 5, 1994

Method: EPA 5030/8015M/8020

Lab #	SAMPLE ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
55819	SP-1A,B,C	1600	870	12000	14000	77000
55822	CB-2	24	N.D.	N.D.	39	56
55823	SP-2A,B,C	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS		1.0	5.0	5.0	5.0	5.0
BLANK		N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY(%)		90	104	109	102	108

ChromaLab, Inc.


Billy Thach
Chemist

Ali Kharrazi
Organic Manager

BILLY 12:33:27

CHROMALAB, INC.

Environmental Services (SDB)

July 5, 1994

Submission #: 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H

Project#: 89477.00

Received: June 27, 1994

re: 1 sample for Diesel analysis

Matrix: SOIL

Sampled: June 27, 1994

Analyzed: July 1, 1994

RESULTS:

<u>Sample I.D.</u>	<u>Diesel (mg/Kg)</u>
DB-1	N.D.
BLANK	N.D.
SPIKE RECOVERY	84%
DUP SPIKE RECOVERY	99%
DETECTION LIMIT	1.0
METHOD OF ANALYSIS	3550/8015

ChromaLab, Inc.

*Sirirat Chullakorn*Sirirat Chullakorn
Analytical Chemist*Ali Kharrazi*Ali Kharrazi
Organic Manager

99

CHROMALAB, INC.

Environmental Services (SDB)

July 6, 1994

Submission #: 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H
Received: June 27, 1994

Project#: 89477.00

re: 1 sample for Oil & Grease analysis


Matrix: SOIL
Sampled: June 27, 1994

Analyzed: July 1, 1994

RESULTS:

Sample I.D.	Oil & Grease (mg/Kg)
DB-1	N.D.
BLANK	N.D.
DETECTION LIMIT	50
METHOD OF ANALYSIS	STD METHOD 5520 E & F

ChromaLab, Inc.


Carolyn M. House
Analyst
Ali Kharrazi
Organic Manager

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CHROMALAB, INC.

Environmental Services (SDB)

July 7, 1994

Submission #: 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H

Project#: 89477.00

Received: June 27, 1994

re: One sample for Volatile Organic Compounds analysis.

Sample: DB-1

Matrix: SOIL

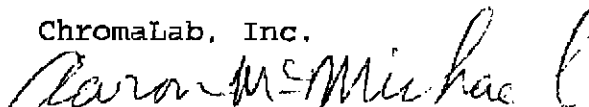
Sampled: June 27, 1994

Lab#: 55818 Run: 3315 Analyzed: July 2, 1994


Method: EPA 8240/8260

ANALYTE	RESULT	REPORTING	BLANK	BLANK SPIKE
	(ug/Kg)	LIMIT	RESULT	RESULT
		(ug/Kg)	(ug/Kg)	(%)
ACETONE	N.D.	25	N.D.	--
BENZENE	N.D.	5.0	N.D.	67
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
BROMOFORM	N.D.	5.0	N.D.	--
BROMOMETHANE	N.D.	5.0	N.D.	--
2-BUTANONE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
CHLOROETHANE	N.D.	5.0	N.D.	99
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
CHLOROMETHANE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	93
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	--
ETHYL BENZENE	N.D.	5.0	N.D.	--
2-HEXANONE	N.D.	5.0	N.D.	--
METHYLENE CHLORIDE	N.D.	25	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	--
STYRENE	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	--
TOLUENE	N.D.	5.0	N.D.	104
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	99
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
VINYL ACETATE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
XYLENES (TOTAL)	N.D.	5.0	N.D.	--

ChromaLab, Inc.



Aaron McMichael
Chemist



Ali Kharrazi
Organic Manager

DATAAARON 1810

CHROMALAB, INC.

Environmental Services (SDB)

July 21, 1994

Submission #: 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H

Project#: 89477.00

Received: June 27, 1994

re: 2 samples for reactivity, corrosivity, and
ignitability (RCI) analyses.

Matrix: SOIL


Sampled: June 27, 1994

Analyzed: July 21, 1994

Method: CA Title 22 SEC.66261.23(1-4)

Sample #	Client Sample ID	Reactivity	Corrosivity	Ignitability
55819	SP1 ABC	No	pH 8.4	No
55823	SP2 ABC	No	pH 9.0	No
Blank		No	pH 7.0	No

ChromaLab, Inc.


Carolyn M. House
Analyst


Ali Kharrazi
Organic Manager

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CHROMALAB, INC.

Environmental Services (SDB)

July 5, 1994

Submission #: 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H
 Received: June 27, 1994

Project#: 89477.00

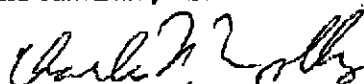
re: 8 samples for Lead analysis.

Matrix: SOIL
 Sampled: June 27, 1994
 Method: EPA 3050/7420


Lab Run#: 3287
 Extracted: July 5, 1994
 Analyzed: July 5, 1994

LAB #	SAMPLE ID	LEAD (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
55815	AB-1	8.0	0.5	N.D.	93
55816	BB-1	5.9	0.5	N.D.	93
55817	CB-1	6.9	0.5	N.D.	93
→ 55819	SP-1A,B,C	14	0.5	N.D.	93
55820	AB-2	8.5	0.5	N.D.	93
55821	BB-2	10.0	0.5	N.D.	93
55822	CB-2	9.3	0.5	N.D.	93
→ 55823	SP-2A,B,C	14	0.5	N.D.	93

ChromaLab, Inc.



Charles Woolley
 Chemist



Eric Tam
 Laboratory Director

CHROMALAB, INC.

Environmental Services (SDB)

July 27, 1994

Submission #: 9407073

RUST E&I

Atten: Robert Serafin

Project: MARR TANK EXC.
Received: July 7, 1994

Project#: MAR-W02H

re: 13 samples for Gasoline and BTEX analysis.

Matrix: SOIL

Sampled: July 6, 1994

Lab Run#: 3360

Analyzed: July 11, 1994

Method: EPA 5030/8015M/8020

Spl #	CLIENT	SMPL ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
56976	SW-1		9.5	8.3	N.D.	58	81
56977	SW-2		N.D.	N.D.	N.D.	N.D.	N.D.
56978	SW-3		N.D.	N.D.	N.D.	N.D.	N.D.
56979	SW-4		N.D.	N.D.	N.D.	N.D.	N.D.
56980	SW-5		N.D.	N.D.	N.D.	N.D.	N.D.
56981	SW-6		210	400	990	2800	11000
56982	SW-7		250	120	120	330	480
Note: MATRIX INTERFERENCE VERIFIED BY RE-ANALYSIS							
56983	SW-8		N.D.	N.D.	N.D.	N.D.	N.D.

Matrix: SOIL

Sampled: July 6, 1994


Lab Run#: 3382

Analyzed: July 13, 1994


Method: EPA 5030/8015M/8020

Spl #	CLIENT	SMPL ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
56984	SW-9		N.D.	N.D.	N.D.	N.D.	N.D.
56985	SW-10		5.4	N.D.	N.D.	20	37
56986	SW-11		8.2	15	N.D.	16	23
Note: MATRIX INTERFERENCE VERIFIED BY RE-ANALYSIS							
56987	SW-12		22	N.D.	N.D.	42	34
Note: MATRIX INTERFERENCE VERIFIED BY RE-ANALYSIS							
56988	SW-13		1.8	N.D.	N.D.	N.D.	N.D.
Reporting Limits			0.0	5.0	5.0	5.0	5.0
Blank Result			N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)			111	110	114	111	107

ChromaLab, Inc.



Jack Kelly
Chemist



Ali Kharrfazi
Organic Manager

OCAPP JACK 14-08-10