Hornecker, Lynn M CIV BRAC Dept, (EFDSW)

From: Hornecker, Lynn M CIV BRAC Dept, (EFDSW)
Sent: Monday, July 26, 2004 12:32 PM
To: 'issinghoffg@rb5f.swrcb.ca.gov'
Cc: Bloom, Michael S CIV BRAC Dept, (EFDSW); 'donald.m.chuck@nasa.gov'; 'msonke@envres.org'; 'jantzr@mail.co.stanislaus.ca.us'; 'fdonofri@dtsc.ca.gov'; 'bob.hulet@shawgrp.com'; 'david.kelly@shawgrp.com'
Subject: Chemicals in Extracted Groundwater from the Administration Area Plume at NASA Crows Landing Flight Facility

Hello Greg,

Michael Bloom and I discussed the identification of two new chemicals with you during a telephone conversation earlier today. This message is intended to provide preliminary information about the two chemicals - acetophenone and 2-phenyl-2-propanol - that were identified during routine sampling of extracted groundwater from the Administration Area Plume.

Groundwater is extracted from wells CL1-EX-01 and CL1-MW-12(S) near the southern end of the Administration Area Plume, near a former dry well. During the analysis of water samples that were collected from CL1-EX-01 and CL1-MW-12(S) in May 2004, the laboratory noted the presence of isolated peaks in the C10 - C11 range and an unknown mixture in the diesel range. A dilution factor of 96 was used for the diesel analysis. Further evaluation and testing resulted in the identification of two chemicals - acetophenone and 2-phenyl-2-propanol. Split samples were collected in June 2004 for analysis at two independent laboratories. Comparable concentrations of acetophenone and 2-phenyl-2-propanol were identified by both laboratories.

The attached Preliminary Data Package includes a tabular summary of the results from the analysis of the June 2004 samples and the laboratory test reports for samples collected in May and June 2004.

We are in the process of evaluating the properties and hazards associated with these chemicals, the potential industrial uses of these chemicals, and the potential sources of these chemicals at NASA Crows Landing Flight Facility. We will keep you informed as our evaluation progresses.

Please do not hesitate to contact Michael Bloom at (619) 532-0967 or me at (619) 532-0783 if you have questions pertaining to this message.

V/R
Lynn Marie Hornecker
Southwest Division
Naval Facilities Engineering Command
(619) 532-0783/Fax (619) 532-0780
26 July 2004

:lPrelimDataSummar
y26July2004....

- PRELIMINARY DATA SUMMARY -

26 July 2004

Laboratory Test Results for Acetophenone and 2-Phenyl-2-Propanol

Groundwater Extraction Wells CL1-EX-01 and CL1-MW-12(S)
NASA Crows Landing Flight Facility

Chemical Identifier	Test Method	Laboratory	Well CL1-EX-01 Sample Date: 17 June 2004	Well CL1-MW-12(S) Sample Date: 17 June 2004
Acetophenone	8270-SIM	APCL [a]	18,000 ug/L	5,900 ug/L
Acetophenone	SW 3520C/8270C	EMAX [b]	11,000 ug/L	5,900 ug/L
2-phenyl-2-propanol	8270-SIM	APCL	94,000 ug/L	25,000 ug/L
2-phenyl-2-propanol (reported as "a,a-dimethyl benzyl alcohol" by EMAX)	SW 3520C/8270C	EMAX	100,000 ug/L	20,000 ug/L

NOTES:

[a] APCL denotes Applied P & CH Laboratories, Chino, CA
[b] EMAX denotes EMAX Laboratories, Inc., Torrance, CA

SIM denotes Selected Ion Monitoring

Attachments - Laboratory Reports for Water Samples from CL1-EX-01 and CL1-MW-12(S):

APCL report dated 20 May 2004
(elevated dilution factor for diesel analysis by method 8015E is highlighted)

APCL report dated 19 May 2004
(acetophenone and 2-phenyl-2-propanol by method 8270-SIM)

APCL report dated 23 June 2004
(acetophenone and 2-phenyl-2-propanol by method 8270-SIM)

EMAX report dated 23 June 2004
(acetophenone and "a,a-dimethyl benzyl alcohol" by SW 3520C/8270C)

Applied P & CH Laboratories
13760 Magnolia Ave., Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

APCL Analytical Report

Submitted to:
Shaw E & I
Attention: Rose Condit
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-042931
Collected by: P.Deocampo
Collected on: 05/13/04

Received: 05/14/04
Extracted: 05/19/04
Tested: 05/14-19/04
Reported: 05/20/04

Sample Description: Water from Monthly Extration System.
Project Description: 101454 Crows Landing

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result CL1-EX-01(5/13/04) 04-02931-1	CL1-MW-12S(5/13/04) 04-02931-2	TB(5/13/04) 04-02931-3
Dilution Factor				10	10	1
GASOLINE RANGE ORGANICS	M8015V	mg/L	0.05	23.5 [a]	20.1	0.02J
Dilution Factor				10	10	1
JET FUEL, JP-4	M8015V	mg/L	0.05	<0.5	<0.5	<0.05
VOLATILE ORGANICS						
Dilution Factor				50	50	1
ACETONE	SW8260B	μg/L	10	25,000	430J	<10
BENZENE	SW8260B	μg/L	0.5	8,900 [b]	8,270 [b]	<0.5
BROMOBENZENE	SW8260B	μg/L	0.5	<25	<25	<0.5
BROMOCHLOROMETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
BROMODICHLOROMETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
BROMOFORM	SW8260B	μg/L	0.5	<25	<25	<0.5
BROMOMETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
2-BUTANONE (MEK)	SW8260B	μg/L	10	3,900	<500	<10
N-BUTYLBENZENE	SW8260B	μg/L	0.5	<25	<25	<0.5
SEC-BUTYLBENZENE	SW8260B	μg/L	0.5	<25	<25	<0.5
TERT-BUTYLBENZENE	SW8260B	μg/L	0.5	24J	30	<0.5
CARBON DISULFIDE	SW8260B	μg/L	10	<500	<500	<10
CARBON TETRACHLORIDE	SW8260B	μg/L	0.5	<25	<25	<0.5
CHLOROBENZENE	SW8260B	μg/L	0.5	<25	<25	<0.5
DIBROMOCHLOROMETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
CHLOROETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
CHLOROFORM	SW8260B	μg/L	0.5	<25	<25	<0.5
CHLOROMETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
2-CHLOROTOLUENE	SW8260B	μg/L	0.5	<25	<25	<0.5
4-CHLOROTOLUENE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,2-DIBROMOETHANE (EDB)	SW8260B	μg/L	0.5	<25	40	<0.5
DIBROMOMETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,2-DICHLOROBENZENE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,3-DICHLOROBENZENE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,4-DICHLOROBENZENE	SW8260B	μg/L	0.5	<25	<25	<0.5

DICHLORODIFLUOROMETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,1-DICHLOROETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,2-DICHLOROETHANE	SW8260B	μg/L	0.5	280	270	<0.5
1,1-DICHLOROETHENE	SW8260B	μg/L	0.5	<25	<25	<0.5
CIS-1,2-DICHLOROETHENE	SW8260B	μg/L	0.5	<25	<25	<0.5
TRANS-1,2-DICHLOROETHENE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,2-DICHLOROPROPANE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,3-DICHLOROPROPANE	SW8260B	μg/L	0.5	<25	<25	<0.5
2,2-DICHLOROPROPANE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,1-DICHLOROPROPENE	SW8260B	μg/L	0.5	<25	<25	<0.5
CIS-1,3-DICHLOROPROPENE	SW8260B	μg/L	0.5	<25	<25	<0.5
TRANS-1,3-DICHLOROPROPENE	SW8260B	μg/L	0.5	<25	<25	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result CL1-EX-01(5/13/04) 04-02931-1	CL1-MW-12S(5/13/04) 04-02931-2	TB(5/13/04) 04-02931-3
ETHYLBENZENE	SW8260B	μg/L	0.5	130	160	<0.5
HEXACHLOROBUTADIENE	SW8260B	μg/L	0.5	<25	<25	<0.5
2-HEXANONE	SW8260B	μg/L	10	330J	180J	<10
ISOPROPYLBENZENE (CUMENE)	SW8260B	μg/L	0.5	1,050	2,400	<0.5
P-ISOPROPYLTOLUENE	SW8260B	μg/L	0.5	<25	<25	<0.5
METHYLENE CHLORIDE	SW8260B	μg/L	0.5	79	74	<0.5
4-METHYL-2-PENTANONE (MIBK)	SW8260B	μg/L	10	220J	170J	<10
METHYL-T-BYTYL ETHER (MTBE)	SW8260B	μg/L	1	<50	<50	<1
NAPHTHALENE	SW8260B	μg/L	0.5	<25	<25	<0.5
N-PROPYLBENZENE	SW8260B	μg/L	0.5	<25	<25	<0.5
STYRENE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,1,1,2-TETRACHLOROETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,1,2,2-TETRACHLOROETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
TETRACHLOROETHENE	SW8260B	μg/L	0.5	<25	<25	<0.5
TOLUENE	SW8260B	μg/L	0.5	230	544	<0.5
1,2,3-TRICHLOROBENZENE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,2,4-TRICHLOROBENZENE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,1,1-TRICHLOROETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,1,2-TRICHLOROETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
TRICHLOROETHENE	SW8260B	μg/L	0.5	<25	<25	<0.5
TRICHLOROFLUOROMETHANE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,2,3-TRICHLOROPROPANE	SW8260B	μg/L	0.5	<25	<25	<0.5
1,2,4-TRIMETHYLBENZENE	SW8260B	μg/L	0.5	23J	58	<0.5
1,3,5-TRIMETHYLBENZENE	SW8260B	μg/L	0.5	<25	<25	<0.5
VINYL CHLORIDE	SW8260B	μg/L	0.5	<25	<25	<0.5
XYLENE (TOTAL)	SW8260B	μg/L	1	120	320	<1
T-BUTYL ALCOHOL	SW8260B	μg/L	20	1,000	170J	<20

Component Analyzed	Method	Unit	PQL	Analysis Result CL1-EX-01(5/13/04) 04-02931-1	CL1-MW-12S(5/13/04) 04-02931-2
Dilution Factor				96	96
DIESEL RANGE ORGANICS	M8015E	mg/L	0.1	<9.6 (c)	<9.6 (c)
Dilution Factor				96	96
MOTOR OIL RANGE ORGANICS	M8015E	mg/L	0.1	<9.6	<9.6

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0
(a) Not a typical Gasoline or JP-4 pattern.
(b) Analyzed with a dilution factor of 200.
(c) Sample chromatogram contained two isolated peaks at about C10-C11 range and some unknown mixture in Diesel range.

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

Applied P & CH Laboratories
13760 Magnolia Ave. Chino CA 91710
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APCL Analytical Report

Submitted to:
Shaw E & I
Attention: Rose Condit
4005 Port Chicago Highway
Concord CA 94520-1120
Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-042945
Collected by: P.Deocampo
Collected on: 05/13/04

Received: 05/14/04
Extracted: 05/18/04
Tested: 05/18-19/04
Reported: 05/19/04

Sample Description: Water from Special 8270-SIM
Project Description: CTO 86 Crows Landing

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result CL1-MW-12S 04-02945-1	Analysis Result CL1-EX-01 04-02945-2
Dilution Factor				480	1920
ACETOPHENONE	8270-SIM	μg/L	5	7,100	20,000
2-PHENYL-2-PROPANOL	8270-SIM	μg/L	5	24,000	86,000

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Tau
Laboratory Director
Applied P & CH Laboratories

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APCL Analytical Report

Submitted to:
Shaw E & I
Attention: Rose Condit
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Tel: (925)288-9898 Fax: (925)827-5927

Service ID #: 801-043379
Collected by: P. deOcampo
Collected on: 06/17/04

Received: 06/18/04
Extracted: 06/22/04
Tested: 06/23/04
Reported: 06/23/04

Sample Description: Water
Project Description: 836557 Crows Landing-CTO 86

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result CL1-EX-01(6/17/04) 04-03379-1	CL1-MW-12S(6/17/04) 04-03379-2
Dilution Factor				962	96.2
ACETOPHENONE	8270-SIM	µg/L	5	18,000	5,900
Dilution Factor				1920	962
2-PHENYL-2-PROPANOL	8270-SIM	µg/L	5	94,000	25,000

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & CH Laboratories

SW 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

Client	: SHAW E&I	Date Collected:	06/17/04
Project	: CROWS LANDING - CTO 86	Date Received:	06/18/04
Batch No.	: 04F087	Date Extracted:	06/22/04 15:00
Sample ID:	CL1-EX-01(6/17/04)	Date Analyzed:	06/23/04 16:44
Lab Samp ID:	F087-01	Dilution Factor:	940
Lab File ID:	RFZ044	Matrix :	WATER
Ext Btch ID:	SCF017W	% Moisture :	NA
Calib. Ref.:	RFZ023	Instrument ID :	T-048

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACETOPHENONE	11000	9400	4700
A,A-DIMETHYL BENZYL ALCOHOL	100000	9400	4700

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
PHENOL-D5	DO	30-130

RL: Reporting Limit
DO: Diluted out.

SW 3520C/8270C
SEMI VOLATILE ORGANICS BY GC/MS

Client	: SHAW E&I	Date Collected:	06/17/04
Project	: CROWS LANDING - CTO 86	Date Received:	06/18/04
Batch No.	: 04F087	Date Extracted:	06/22/04 15:00
Sample ID:	CL1-MW-12S(6/17/04)	Date Analyzed:	06/23/04 15:33
Lab Samp ID:	F087-02	Dilution Factor:	290
Lab File ID:	RFZ042	Matrix :	WATER
Ext Btch ID:	SCF017W	% Moisture :	NA
Calib. Ref.:	RFZ023	Instrument ID :	T-048

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
ACETOPHENONE	5900	2900	1400
A,A-DIMETHYL BENZYL ALCOHOL	20000	2900	1400

SURROGATE PARAMETERS	% RECOVERY	QC LIMIT
PHENOL-D5	DO	30-130

RL: Reporting Limit
DO: Diluted out.

3005

SOUTHWESTNAVFACENGCOM
Code 06CC.LMH
Telephone: (619) 532-0783/Fax (619) 532-0780

File: cladminrectrltr.doc

TRANSMITTAL

Date: 26 July 2004

From: Lynn Marie Hornecker
CROWS LANDING

To: Diane Silva
Code ~~01LS.DS~~ 05G.DS

Subj: CERCLA Administrative Record Materials
Former Naval Auxiliary Landing Field, Crows Landing

Installation: Former Naval Auxiliary Landing Field, Crows Landing

UIC Number: N60211

Document Title (or subject): Chemicals in Extracted Groundwater

Author: Lynn M Hornecker, Navy

Recipient: Greg Issinghoff, RWQCB

Record Date: 26 July 2004

Approximate Number of Pages: 9

EPA Category: 01.1

Sites: Site 17

Key Words: groundwater

Contract: N/A

CTO Number: N/A