APCL

Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel. (909) 590-1828 Fax (909) 590-1498

March 6, 2003

GEOFON, Inc.
Attention: Leo Williamson
22632 Golden Spring Dr Ste 270
Diamond Bar CA 91765

Dear Leo Williamson,

This package contains samples in our Service ID 03-1424 and your project : 04-442810 JPL. Enclosed please find:

(1) Original analytical report.
(2) Original Chain of Custody.
(3) One diskette containing EDD deliverable.
(4) One original Level C Data Package Deliverable.

If anything is missing or you have any questions, please feel free to contact me.

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & Ch Laboratory

GEOFON INCORPORATED
22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-19 0003

GEOFON's LAB COORDINATOR: Brad Shojaee	LAB COORDINATOR'S PHONE: (909) 396-7662	LAB COORDINATOR'S FAX: (909) 396-1455	LABORATORY SERVICE ID: –	LABORATORY CONTACT: Kenny Chan	MAIL REPORT (COMPANY NAME): GEOFON, INC.
PROJECT NAME: JPL GW Mon-1Q03	PROJECT LOCATION: MW-19 Pasadena City Yard	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: (909) 590-1828	LABORATORY FAX: (909) 590-1498	RECIPIENT NAME: Leo W. Williamson
PROJECT CONTACT: Leo W. Williamson	PROJECT PHONE NUMBER: (714) 920-8729	PROJECT FAX: (909) 396-1455	LABORATORY ADDRESS: 13760 Magnolia Ave		ADDRESS: 22632 Golden Springs Dr. #270
PROJECT ADDRESS: 4900 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA.	CLIENT: US NAVY, SWDIV	CITY, STATE AND ZIPCODE: Chino, CA 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA 91765
PROJECT MANAGER: Asrar Faheem	PROJECT MANAGER'S PHONE: (909) 396-7662	PROJECT MANAGER'S FAX: (909) 396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T	Analyses: 524.2 (VOCs)	314.0 (Perchlorates)	200.8 Total Chromium	7196 (Hex Chrome)					Comments
1	MW-19-5	H_2O	2/3/03	HCl HNO3 NONE	HCl HNO3 NONE	3+1+1	III	NORMAL	X	X	X	X					
2	MW-19-4	↓	↓	920	↓	↓	↓	↓	X	X	X	X					
3	MW-19-3	↓	↓	1105	↓	↓	↓	↓	X	X	X	X					
4	MW-19-2	↓	↓	1020	↓	↓	↓	↓	X	X	X	X					1424
5	MW-19-1	↓	↓	1145	↓	↓	↓	↓	X	X	X	X					
6																	
7	TB-3-2/3/03	H_2O	2/3/03	N/A	HCl	2	III	NORMAL	X								
8	EB-3-2/3/03	↓	↓	925	HCl HNO3 NONE	3+1+1	↓	↓	X	X	X	X					
9	DUPE-2-1Q03	↓	N/A	N/A	↓	3+1+1	IV	↓	X	X	X	X					DUPLICATE SAMPLE
10																	

SAMPLES COLLECTED BY: Leo W. Williamson

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT: 3.4°C

RELINQUISHED BY	RECEIVED BY	DATE	TIME	SAMPLE'S CONDITION UPON RECEIPT
Leo W. Williamson	[illegible]	2/3/03	1350	
[illegible]	[illegible]	2/3/03	1440	Good Condition

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

Applied P & Ch Laboratory
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APCL Analytical Report

Submitted to:
GEOFON, Inc.
Attention: Leo Williamson
22632 Golden Spring Dr Ste 270
Diamond Bar CA 91765
Tel: (909)396-7662 Fax: (909)396-1455

Service ID #: 801-031424
Collected by: Leo Williamson
Collected on: 02/03/03

Received: 02/03/03
Extracted: N/A
Tested: 02/03-04/03
Reported: 02/06/03

Sample Description: Water from MW-19 Pasadena City Yard.
Project Description: 04-4428.10 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result DUPE-2-1Q03 03-01424-1	EB-3-2/3/03 03-01424-2	MW-19-1 03-01424-3	MW-19-2 03-01424-4
CHROMIUM (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
Dilution Factor				1	1	1	1
PERCHLORATE	314.0	μg/L	4	<4	<4	<4	<4
VOLATILE ORGANICS							
Dilution Factor				1	1	1	1
BENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOCHLOROMETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMODICHLOROMETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOFORM	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOMETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-BUTANONE	524.2	μg/L	10	<10	<10	<10	<10
N-BUTYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
SEC-BUTYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TERT-BUTYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
CARBON TETRACHLORIDE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
CHLOROBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
CHLORODIBROMOMETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
CHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
CHLOROFORM	524.2	μg/L	0.5	1.9	<0.5	<0.5	0.7
CHLOROMETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-CHLOROTOLUENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
4-CHLOROTOLUENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMOETHANE (EDB)	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOMETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
DICHLORODIFLUOROMETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	0.4J
1,2-DICHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,2-DICHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result DUPE-2-1Q03 03-01424-1	EB-3-2/3/03 03-01424-2	MW-19-1 03-01424-3	MW-19-2 03-01424-4
TRANS-1,2-DICHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROPROPANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROPROPANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
2,2-DICHLOROPROPANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROPROPENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,3-DICHLOROPROPENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,3-DICHLOROPROPENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
ETHYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
HEXACHLOROBUTADIENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
ISOPROPYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
P-ISOPROPYLTOLUENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
METHYLENE CHLORIDE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
4-METHYL-2-PENTANONE (MIBK)	524.2	μg/L	10	<10	<10	<10	<10
METHYL-T-BUTYL ETHER (MTBE)	524.2	μg/L	1	<1	<1	<1	<1
NAPHTHALENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
N-PROPYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
STYRENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-TETRACHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-TETRACHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TETRACHLOROETHENE (PCE)	524.2	μg/L	0.5	<0.5	<0.5	<0.5	2.0
TOLUENE	524.2	μg/L	0.5	<0.5	0.4J	<0.5	<0.5
1,2,3-TRICHLOROBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRICHLOROBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-TRICHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-TRICHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROETHENE (TCE)	524.2	μg/L	0.5	<0.5	<0.5	<0.5	1.1
TRICHLOROFLUOROMETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROPROPANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROTRIFLUOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRIMETHYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-TRIMETHYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
VINYL CHLORIDE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
O-XYLENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
M/P-XYLENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-19-3 03-01424-5	MW-19-4 03-01424-6	MW-19-5 03-01424-7	TB-3-2/3/03 03-01424-8
CHROMIUM (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	-
Dilution Factor				1	1	1	1
PERCHLORATE	314.0	µg/L	4	<4	<4	<4	-
VOLATILE ORGANICS							
Dilution Factor				1	1	1	1
BENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOCHLOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMODICHLOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOFORM	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
BROMOMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-BUTANONE	524.2	µg/L	10	<10	<10	<10	<10
N-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
SEC-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TERT-BUTYLBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CARBON TETRACHLORIDE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CHLORODIBROMOMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CHLOROFORM	524.2	µg/L	0.5	0.6	2.0	<0.5	<0.5
CHLOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2-CHLOROTOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
4-CHLOROTOLUENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMOETHANE (EDB)	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
DICHLORODIFLUOROMETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,2-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,2-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
2,2-DICHLOROPROPANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,3-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,3-DICHLOROPROPENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-19-3 03-01424-5	MW-19-4 03-01424-6	MW-19-5 03-01424-7	TB-3-2/3/03 03-01424-8
ETHYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
HEXACHLOROBUTADIENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
ISOPROPYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
P-ISOPROPYLTOLUENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
METHYLENE CHLORIDE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
4-METHYL-2-PENTANONE (MIBK)	524.2	μg/L	10	<10	<10	<10	<10
METHYL-T-BUTYL ETHER (MTBE)	524.2	μg/L	1	<1	<1	<1	<1
NAPHTHALENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
N-PROPYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
STYRENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-TETRACHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-TETRACHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TETRACHLOROETHENE (PCE)	524.2	μg/L	0.5	1.5	<0.5	4.2	<0.5
TOLUENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRICHLOROBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-TRICHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-TRICHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROETHENE (TCE)	524.2	μg/L	0.5	0.5J	<0.5	0.4J	<0.5
TRICHLOROFLUOROMETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROTRIFLUOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROPROPANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRIMETHYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-TRIMETHYLBENZENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
VINYL CHLORIDE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
O-XYLENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
M/P-XYLENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5

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 Laboratory

Level C Data Package Deliverables

General Information

Project: 04-4428.10 JPL

APCL Service ID: 03-1424

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino, CA 91710
Telephone (909)590-1828
Fax (909)590-1498

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Case Narrative

Project: JPL/MW-19 Pasadena City Yard./04-4428.10

For GEOFON, Inc.

APCL Service No: 03-1424

1. Sample Identification

The sample identifications are listed in the following table:

GEOFON, Inc. Sample ID	APCL Sample ID
MW-19-5	03-01424-7
MW-19-4	03-01424-6
MW-19-3	03-01424-5
MW-19-2	03-01424-4
MW-19-1	03-01424-3
TB-3-2/3/03	03-01424-8
EB-3-2/3/03	03-01424-2
DUPE-2-1Q03	03-01424-1

2. Analytical Methodology

Samples are analyzed by EPA methods

524.2 (Volatile Organic Compounds),
7196 (Chromium (VI)),
314.0 (Perchlorate, low level),

3. Holding Time

All samples were extracted, digested and analyzed within the holding times defined by the appropriate EPA methods of the analyses.

4. Preservation

All samples were preserved and stored according to the appropriate EPA methods.

5. Tele-log

None

6. Anomaly

None

"I certify that these data are technically accurate, complete, and in compliance with the terms and conditions of the contract, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and its electronic data deliverable submitted on diskette had been authorized by the Laboratory Manager or her/his designee, as verified by the following signature."

Respectfully submitted,

Regina Kirakozova
Associate QA/QC Director
Applied P & Ch Laboratory

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

Sample Receiving Checklist

APCL ServiceID: 1424 **Client Name/Project:** Geofon Inc

1. Sample Arrival

Date/Time Received 2/3/03 1350 Date/Time Opened 2/3/03 1440 By (name): Paul Ka

Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☑ APCL Empl: R. Stratton

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☑ Signed, dated? By: L.W
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received 8
☑ CoC/Docs Zip-Locked under lid? ☐ Compos.#: _ ☑ #Samples OK? _____
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): _____

3. Shipping Container/Cooler

☑ Cooler Used? # of 1 Cooled by: ☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 3.4°C

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☑ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☐ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number: _____

Type: ☑ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?

Labels: ☑ Unique ID? ☐ Date/Time ☐ Preserved?

7. Turn Around Time

☑ RUSH TAT: 5day ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☑ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____

Received/Checked by: Paul K Date: 3 Feb 2003 Time: 7:37 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

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

Sample Login: Check List

03-01424 (0470_ 105) (2202777_ 105)

02/03/03

Part 1: General Information

☐	Company Information	Name:	*GEOFON, Inc.*
		Address:	*22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765*
☐	Project Information	Project Description:	*JPL*
		Project #:	*04-4428.10*
☐	Billing Information	P.O. #:	
		Bill Address:	*22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765*
		Lab Project ID:	
		Client Database #:	*3*
☐	Receiving Information	Who Received Sample?	*Paul Kou*
		Receiving Date/Time:	*02/03/03 1440*
		COC No.	
☐	Shipping Information	Shipping Company	*APCL pick up*
		Packing Information:	*Cooler/Ice Chester*
		Cooler Temperature:	*3.4 °C*
☐	Container Information	Container Provider:	*Client*
☐	Sampling Information	Sampling Person:	
		Sampling Company:	*Client*
☐	Turn-Around-Time Option:		*Rush 5 working day(s)*
☐	QC Option:		*NEESA D*
☐	Disposal Option:		*Not specify*

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	MW-19-5	VOC	03-01424-7-α	W	V	C	40	3	G	020303	N	0	6	☐
	MW-19-5	CRVI/Perch	03-01424-7-β	W	P		500	1	G	020303	N	0	6	☐
2	MW-19-4	VOC	03-01424-6-α	W	V	C	40	3	G	020303	N	0	6	☐
	MW-19-4	CRVI/Perch	03-01424-6-β	W	P		500	1	G	020303	N	0	6	☐
3	MW-19-3	VOC	03-01424-5-α	W	V	C	40	3	G	020303	N	0	6	☐
	MW-19-3	CRVI/Perch	03-01424-5-β	W	P		500	1	G	020303	N	0	6	☐
4	MW-19-2	VOC	03-01424-4-α	W	V	C	40	3	G	020303	N	0	6	☐
	MW-19-2	CRVI/Perch	03-01424-4-β	W	P		500	1	G	020303	N	0	6	☐
5	MW-19-1	VOC	03-01424-3-α	W	V	C	40	3	G	020303	N	0	6	☐
	MW-19-1	CRVI/Perch	03-01424-3-β	W	P		500	1	G	020303	N	0	6	☐
6	TB-3-2/3/03	VOC	03-01424-8	W	V	C	40	2	G	020303	N	0	6	☐
7	EB-3-2/3/03	VOC	03-01424-2-α	W	V	C	40	3	G	020303	N	0	6	☐
	EB-3-2/3/03	CRVI/Perch	03-01424-2-β	W	P		500	1	G	020303	N	0	6	☐
8	DUPE-2-1Q03	VOC	03-01424-1-α	W	V	C	40	3	G	020303	N	0	6	☐
	DUPE-2-1Q03	CRVI/Perch	03-01424-1-β	W	P		500	1	G	020303	N	0	6	☐

Part 3: Analysis Information

Test Items:

☑	*524.2*	Volatile Organic Compounds
☑	*7196*	Chromium (VI)
☑	*300.0*	Perchlorate, low level
☐	*200.7/6010*	Sodium, Na, by ICP
☐	*200.7/6010*	Potassium, K, by ICP
☐	*200.7/6010*	Calcium, Ca, by ICP
☐	*200.7/6010*	Magnesium, Mg, by ICP
☐	*200.7/6010*	Iron, Fe, by ICP
☐	*300.0*	Sulfate (SO_4^{--}), by IC
☐	*300.0/SM4500NO3C*	Nitrate (NO_3^-) as N by IC
☐	*300.0*	Chloride Cl^- by IC
☐	*SM2320B*	Carbonate
☐	*SM2320B*	Bicarbonate
☐	*9040/150.1*	pH
☐	*160.1*	Solids, Total Dissolved (TDS)
☐	*206.2/7060*	Arsenic, As, by GFAA
☐	*310.1*	Alkalinity

☐ *PAH-SIM* PAH (NOAA)

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	524.2	CHROMIUM	PERCHL	NA	K	CA	MG	FE	
1	MW-19-5	VOC	03-01424-7-α	W	X								☐
	MW-19-5	CRVI/Perch	03-01424-7-β	W		X	X						☐
2	MW-19-4	VOC	03-01424-6-α	W	X								☐
	MW-19-4	CRVI/Perch	03-01424-6-β	W		X	X						☐
3	MW-19-3	VOC	03-01424-5-α	W	X								☐
	MW-19-3	CRVI/Perch	03-01424-5-β	W		X	X						☐
4	MW-19-2	VOC	03-01424-4-α	W	X								☐
	MW-19-2	CRVI/Perch	03-01424-4-β	W		X	X						☐
5	MW-19-1	VOC	03-01424-3-α	W	X								☐
	MW-19-1	CRVI/Perch	03-01424-3-β	W		X	X						☐
6	TB-3-2/3/03	VOC	03-01424-8	W	X								☐
7	EB-3-2/3/03	VOC	03-01424-2-α	W	X								☐
	EB-3-2/3/03	CRVI/Perch	03-01424-2-β	W		X	X						☐
8	DUPE-2-1Q03	VOC	03-01424-1-α	W	X								☐
	DUPE-2-1Q03	CRVI/Perch	03-01424-1-β	W		X	X						☐

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	SO4	NO3	CL	CARBONATE	BICARBON	PH	TDS	AS	
1	MW-19-5	VOC	03-01424-7-α	W									☐
	MW-19-5	CRVI/Perch	03-01424-7-β	W									☐
2	MW-19-4	VOC	03-01424-6-α	W									☐
	MW-19-4	CRVI/Perch	03-01424-6-β	W									☐
3	MW-19-3	VOC	03-01424-5-α	W									☐
	MW-19-3	CRVI/Perch	03-01424-5-β	W									☐
4	MW-19-2	VOC	03-01424-4-α	W									☐
	MW-19-2	CRVI/Perch	03-01424-4-β	W									☐
5	MW-19-1	VOC	03-01424-3-α	W									☐
	MW-19-1	CRVI/Perch	03-01424-3-β	W									☐
6	TB-3-2/3/03	VOC	03-01424-8	W									☐
7	EB-3-2/3/03	VOC	03-01424-2-α	W									☐
	EB-3-2/3/03	CRVI/Perch	03-01424-2-β	W									☐
8	DUPE-2-1Q03	VOC	03-01424-1-α	W									☐
	DUPE-2-1Q03	CRVI/Perch	03-01424-1-β	W									☐

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	ALKALIN	SIM	
1	MW-19-5	VOC	03-01424-7-α	W			☐
	MW-19-5	CRVI/Perch	03-01424-7-β	W			☐
2	MW-19-4	VOC	03-01424-6-α	W			☐
	MW-19-4	CRVI/Perch	03-01424-6-β	W			☐

3	MW-19-3	VOC	03-01424-5-α	W	☐
	MW-19-3	CRVI/Perch	03-01424-5-β	W	☐
4	MW-19-2	VOC	03-01424-4-α	W	☐
	MW-19-2	CRVI/Perch	03-01424-4-β	W	☐
5	MW-19-1	VOC	03-01424-3-α	W	☐
	MW-19-1	CRVI/Perch	03-01424-3-β	W	☐
6	TB-3-2/3/03	VOC	03-01424-8	W	☐
7	EB-3-2/3/03	VOC	03-01424-2-α	W	☐
	EB-3-2/3/03	CRVI/Perch	03-01424-2-β	W	☐
8	DUPE-2-1Q03	VOC	03-01424-1-α	W	☐
	DUPE-2-1Q03	CRVI/Perch	03-01424-1-β	W	☐

☐ Client"s Requirement: **PLE~~ASE RUN MS/MSD ON SAMPLE #~~** EK 2/3/03

☐ **IF ENOUGH SAMPLE**

☐ **FOR 8270SIM, PLEASE INCLUDE 1,4-DIOXANE**

Login By En-Yu Paul Kou

Check By PY

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

APCL Analytical Report

Submitted to:
GEOFON, Inc.
Attention: Leo Williamson
22632 Golden Spring Dr Ste 270
Diamond Bar CA 91765
Tel: (909)396-7662 Fax: (909)396-1455

Service ID #: 801-031425
Collected by:
Collected on: 01/29-02/03/03

Received: 01/29/03
Extracted: N/A
Tested: N/A
Reported: 03/07/03

Sample Description: Water
Project Description: 04-4428.10 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result DUPE-1-1Q03 03-01425-1	DUPE-2-1Q03 03-01425-2	EB-1-1/29/03 03-01425-3	EB-2-1/30/03 03-01425-4
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result EB-3-2/3/03 03-01425-5	MW-19-1 03-01425-6	MW-19-2 03-01425-7	MW-19-3 03-01425-8
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-19-4 03-01425-9	MW-19-5 03-01425-10	MW-20-1 03-01425-11	MW-21-1 03-01425-12
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-21-2 03-01425-13	MW-20-2 03-01425-14	MW-20-3 03-01425-15	MW-21-3 03-01425-16
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-21-4 03-01425-17	MW-20-4 03-01425-18	MW-20-5 03-01425-19	MW-21-5 03-01425-20
CHROMIUM [a]							

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] Subcontracted to Advanced Technology Laboratories Inc. See attached.

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

GEOFON INCORPORATED
22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-19 0003

GEOFON's LAB COORDINATOR: Brad Shojaee	LAB COORDINATOR'S PHONE: (909) 396-7662	LAB COORDINATOR'S FAX: (909) 396-1455	LABORATORY SERVICE ID: –	LABORATORY CONTACT: Kenny Chan	MAIL REPORT (COMPANY NAME): GEOFON, INC.
PROJECT NAME: JPL GW Mon-1Q03	PROJECT LOCATION: MW-19 Pasadena City Yard	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: (909) 590-1828	LABORATORY FAX: (909) 590-1498	RECIPIENT NAME: Leo W. Williamson
PROJECT CONTACT: Leo W. Williamson	PROJECT PHONE NUMBER: (714) 920-8729	PROJECT FAX: (909) 396-1455	LABORATORY ADDRESS: 13760 Magnolia Ave		ADDRESS: 22632 Golden Springs Dr. #270
PROJECT ADDRESS: 4800 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA.	CLIENT: US NAVY, SWDIV	CITY, STATE AND ZIPCODE: Chino, CA. 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA 91765
PROJECT MANAGER: Asrar Faheem	PROJECT MANAGER'S PHONE: (909) 396-7662	PROJECT MANAGER'S FAX: (909) 396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses: 524.2 (VOCs)	314.0 (Perchlorates)	200.8 (Total Chromium)	7196 (Hex Chrome)					Comments
1	MW-19-5	H_2O	2/3/03	HCl HNO3 NaHF	HCl HNO3 None	3+1+1	III	NORMAL	X	X	X	X					
2	MW-19-4	↓	↓	920	↓	↓	↓	↓	X	X	X	X					
3	MW-19-3	↓	↓	1105	↓	↓	↓	↓	X	X	X	X					
4	MW-19-2	↓	↓	1020	↓	↓	↓	↓	X	X	X	X					1425
5	MW-19-1	↓	↓	1145	↓	↓	↓	↓	X	X	X	X					
6																	
7	TB-3-2/3/03	H_2O	2/3/03	N/A	HCl	2	III	NORMAL	X								
8	EB-3-2/3/03	↓	↓	925	HCl HNO3 None	3+1+1	↓	↓	X	X	X	X					
9	DUPE-2-1Q03	↓	N/A	N/A	↓	3+1+1	IV	↓	X	X	X	X					DUPLICATE SAMPLE
10																	

SAMPLES COLLECTED BY: Leo W. Williamson

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT:

SAMPLE'S CONDITION UPON RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE	TIME
Leo W. Williamson	[signature]	2/3/03	1350
[signature]	[signature]	2/3/03	1440

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

GEOFON
INCORPORATED
22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-21 0001

GEOFON's LAB COORDINATOR: Brad Shojaee	LAB COORDINATOR'S PHONE: (909) 396-7662	LAB COORDINATOR'S FAX: (909) 396-1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: Kenny Chan	MAIL REPORT (COMPANY NAME): GEOFON, INC.
PROJECT NAME: JPL GW Monitoring	PROJECT LOCATION: MW-21 - Hahamonga Park	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: (909) 590-1828	LABORATORY FAX: (909) 590-1498	RECIPIENT NAME: Leo W. Williamson
PROJECT CONTACT: Leo W. Williamson	PROJECT PHONE NUMBER: (714) 920-8729	PROJECT FAX: (909) 396-1455	LABORATORY ADDRESS: 13766 Magnolia Ave		ADDRESS: 22632 Golden Springs Dr. #270
PROJECT ADDRESS: 4800 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA.	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: Chino, CA. 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA 91765
PROJECT MANAGER: Asrar Faheem	PROJECT MANAGER'S PHONE: (909) 396-7662	PROJECT MANAGER'S FAX: (909) 396-7662			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 524.2 (VOCs)	314.0 (Perchlorate)	200.8 (Total Chromium)	7196 (Hex Chrome)					Comments
1	MW-21-5	H_2O	1/29/03	840	HCl / HNO_3 / NONE	3+1+1	III	NORMAL	X	X	X	X					NOTE: 314.0 & 7196 Samples are in the same 500ml poly.
2	MW-21-4	↓	↓	915	↓	↓	↓	↓	X	X	X	X					
3	MW-21-3	↓	↓	1245	↓	↓	↓	↓	X	X	X	X					
4	MW-21-2	↓	↓	1320	↓	↓	↓	↓	X	X	X	X					1425
5	MW-21-1	↓	↓	1400	↓	↓	↓	↓	X	X	X	X					
6																	
7	TB-1-1/29/03	H_2O	N/A	N/A	HCl	2	III	NORMAL	X								
8	SOURCE BLANK-1	↓	1/29/03	1100	HCl	3	↓	↓	X								
9	EB-1-1/29/03	↓	↓	1410	HCl / HNO_3 / NONE	3+1+1	↓	↓	X	X	X	X					
10																	

SAMPLES COLLECTED BY: Leo W. Williamson

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
Leo W. Williamson	Richard Atkinson	1-29-03	1500
Richard Atkinson	[illegible]	1-29-03	1600

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

GEOFON INCORPORATED
22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-20 0002

GEOFON's LAB COORDINATOR: Brad Shojaee	LAB COORDINATOR'S PHONE: (909) 396-7662	LAB COORDINATOR'S FAX: (909) 396-1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: Kenny Chan	MAIL REPORT (COMPANY NAME): GEOFON, INC.
PROJECT NAME: JPL GW Monitoring	PROJECT LOCATION: MW-20 Intersec. Lincoln/Mt. View	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: (909) 590-1828	LABORATORY FAX: (909) 590-1498	RECIPIENT NAME: Leo W. Williamson
PROJECT CONTACT: Leo W. Williamson	PROJECT PHONE NUMBER: (994) 920-8729	PROJECT FAX: (909) 396-1455	LABORATORY ADDRESS: 13760 Magnolia Ave		ADDRESS: 22632 Golden Springs Dr #270
PROJECT ADDRESS: 4800 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA.	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: Chino, CA. 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA. 91765
PROJECT MANAGER: Asrar Faheem	PROJECT MANAGER'S PHONE: (909) 396-7662	PROJECT MANAGER'S FAX: (909) 396-1455			

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 524.2 (VOCs)	314.0 (Perchlorate)	200.8 (TOTAL Chromium)	7196 (Hex Chrome)					Comments
1	MW-20-5	H_2O	1/30/03	825	HCl / HNO_3 / NONE	3+1+1	III	NORMAL	X	X	X	X					
2	MW-20-4	↓	↓	925	↓	↓	↓	↓	X	X	X	X					
3	MW-20-3	↓	↓	1055	↓	↓	↓	↓	X	X	X	X					MS/MSD
4	MW-20-2	↓	↓	1140	↓	↓	↓	↓	X	X	X	X					
5	MW-20-1	↓	↓		↓	↓	↓	↓	X	X	X	X					1425
6																	
7	TB-2-1/30/03	H_2O	N/A	HCl	N/A	2	III	NORMAL	X								
8	EB-2-1/30/03	↓	1/30/03	HCl HNO_3 NONE		3+1+1	↓	↓	X	X	X	X					
9	DUPE-1-1Q03	↓	↓	↓	N/A	3+1+1	IV	↓	X	X	X	X					DUPLICATE SAMPLE
10																	

SAMPLES COLLECTED BY: Leo W. Williamson

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
Leo W. Williamson	Adam Waad	1/30/03	1445
Adam WATC	[illegible]	1/30/03	1745

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

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

Sample Receiving Checklist

APCL ServiceID: 1425 **Client Name/Project:** Geofon / JPL

1. Sample Arrival

Date/Time Received 1/29/03 1600 Date/Time Opened 1/29/03 1600 By (name): Kenny Chan

Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☑ APCL Empl: Richard Stinson

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☐ Client has Copy? ☐ Signed, dated? By:
☐ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold # Received 8
☐ CoC/Docs Zip-Locked under lid? ☐ Compos.#: ☑ #Samples OK?
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs):

3. Shipping Container/Cooler

☑ Cooler Used? # of 1 Cooled by: ☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 4.5

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☑ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number:
Type: ☑ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☐ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?
Labels: ☑ Unique ID? ☑ Date/Time ☐ Preserved?

7. Turn Around Time

☐ RUSH TAT: _____ ☑ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☑ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other:
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____

Received/Checked by: Kenny Chan Date: 29 Jan 2003 Time: 7:35 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

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

Sample Receiving Checklist

APCL ServiceID 1425 **Client Name/Project:** Geofon

1. Sample Arrival

Date/Time Received 1/30/03 1745 Date/Time Opened 1/30/03 1745 By (name): Kenny Chan

Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☑ APCL Empl: Adam Wood

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☐ Client has Copy? ☐ Signed, dated? By:
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold # Received 8
☑ CoC/Docs Zip-Locked under lid? ☐ Compos.#: ☑ #Samples OK?
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs):

3. Shipping Container/Cooler

☑ Cooler Used? # of 1 Cooled by: ☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ None
Temp °C 4.4
(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).
Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12
If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☑ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number:
Type: ☑ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?
Labels: ☑ Unique ID? ☑ Date/Time ☐ Preserved?

7. Turn Around Time

☐ RUSH TAT: _____ ☑ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☑ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____

Received/Checked by: [signature] Date: 30 Jan 2003 Time: 7:33 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

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

Sample Receiving Checklist

APCL ServiceID: 1425 **Client Name/Project:** Geofon Inc

1. Sample Arrival

Date/Time Received 2/3/03 1350 Date/Time Opened 2/3/03 1440 By (name): Paul Ka

Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☑ APCL Empl: R. Stratson

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☑ Signed, dated? By: L.W
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received 8
☑ CoC/Docs Zip-Locked under lid? ☐ Compos.#: _ ☑ #Samples OK? _____
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): _____

3. Shipping Container/Cooler

☑ Cooler Used? # of 1 Cooled by: ☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 3.4°C

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☑ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☐ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number: _____

Type: ☑ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?

Labels: ☑ Unique ID? ☐ Date/Time ☐ Preserved?

7. Turn Around Time

☑ RUSH TAT: 5day ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☑ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____

Received/Checked by: Paul K Date: 3 Feb 2003 Time: 7:37 a.m.

HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

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

Sample Login: Check List 2nd

03-01425 (0470_ 106) (2202777_ 106)

02/03/03

Part 1: General Information

☐ Company Information	Name:	*GEOFON, Inc.*
	Address:	*22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765*
☐ Project Information	Project Description:	*JPL*
	Project #:	*04-4428.10*
☐ Billing Information	P.O. #:	
	Bill Address:	*22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765*
	Lab Project ID:	
	Client Database #:	*3*
☐ Receiving Information	Who Received Sample?	*Kenny Chan*
	Receiving Date/Time:	*01/29/03 1600*
	COC No.	
☐ Shipping Information	Shipping Company	*APCL pick up*
	Packing Information:	*Cooler/Ice Chester*
	Cooler Temperature:	*4.5 4.4 3.4 °C*
☐ Container Information	Container Provider:	*Client*
☐ Sampling Information	Sampling Person:	
	Sampling Company:	*Client*
☐ Turn-Around-Time Option:		*Rush 5 working day(s)*
☐ QC Option:		*NEESA D*
☐ Disposal Option:		*Not specify*

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	MW-21-5	Metal	03-01425-20	W	P	N	500	1	G	012903	N	0	7	☐
2	MW-21-4	Metal	03-01425-17	W	P	N	500	1	G	012903	N	0	7	☐
3	MW-21-3	Metal	03-01425-16	W	P	N	500	1	G	012903	N	0	7	☐
4	MW-21-2	Metal	03-01425-13	W	P	N	500	1	G	012903	N	0	7	☐
5	MW-21-1	Metal	03-01425-12	W	P	N	500	1	G	012903	N	0	7	☐
6	EB-1-1/29/03	Metal	03-01425-3	W	P	N	500	1	G	012903	N	0	7	☐
7	MW-20-5	Metal	03-01425-19	W	P	N	500	1	G	013003	N	0	7	☐
8	MW-20-4	Metal	03-01425-18	W	P	N	500	1	G	013003	N	0	7	☐
9	MW-20-3	Metal	03-01425-15	W	P	N	500	2	G	013003	N	0	7	☐
10	MW-20-2	Metal	03-01425-14	W	P	N	500	1	G	013003	N	0	7	☐
11	MW-20-1	Metal	03-01425-11	W	P	N	500	1	G	013003	N	0	7	☐
12	EB-2-1/30/03	Metal	03-01425-4	W	P	N	500	1	G	013003	N	0	7	☐
13	DUPE-1-1Q03	Metal	03-01425-1	W	P	N	500	1	G	013003	N	0	7	☐
14	MW-19-5	Metal	03-01425-10	W	P	N	500	1	G	020303	N	0	7	☐
15	MW-19-4	Metal	03-01425-9	W	P	N	500	1	G	020303	N	0	7	☐
16	MW-19-3	Metal	03-01425-8	W	P	N	500	1	G	020303	N	0	7	☐
17	MW-19-2	Metal	03-01425-7	W	P	N	500	1	G	020303	N	0	7	☐
18	MW-19-1	Metal	03-01425-6	W	P	N	500	1	G	020303	N	0	7	☐
19	EB-3-2/3/03	Metal	03-01425-5	W	P	N	500	1	G	020303	N	0	7	☐
20	DUPE-2-1Q03	Metal	03-01425-2	W	P	N	500	1	G	020303	N	0	7	☐

Part 3: Analysis Information

Test Items: ☐ *200.7/6010B* Chromium, Cr, by ICP

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	CR	
1	MW-21-5	Metal	03-01425-20	W	X	☐
2	MW-21-4	Metal	03-01425-17	W	X	☐
3	MW-21-3	Metal	03-01425-16	W	X	☐
4	MW-21-2	Metal	03-01425-13	W	X	☐
5	MW-21-1	Metal	03-01425-12	W	X	☐
6	EB-1-1/29/03	Metal	03-01425-3	W	X	☐
7	MW-20-5	Metal	03-01425-19	W	X	☐
8	MW-20-4	Metal	03-01425-18	W	X	☐
9	MW-20-3	Metal	03-01425-15	W	X	☐
10	MW-20-2	Metal	03-01425-14	W	X	☐
11	MW-20-1	Metal	03-01425-11	W	X	☐
12	EB-2-1/30/03	Metal	03-01425-4	W	X	☐
13	DUPE-1-1Q03	Metal	03-01425-1	W	X	☐
14	MW-19-5	Metal	03-01425-10	W	X	☐
15	MW-19-4	Metal	03-01425-9	W	X	☐

16	MW-19-3	Metal	03-01425-8	W	X	☐
17	MW-19-2	Metal	03-01425-7	W	X	☐
18	MW-19-1	Metal	03-01425-6	W	X	☐
19	EB-3-2/3/03	Metal	03-01425-5	W	X	☐
20	DUPE-2-1Q03	Metal	03-01425-2	W	X	☐

☐ Client"s Requirement: **RUN MS/MSD ON SAMPLE** #15 EPK 2/3/03

Login By En-Yu Paul Kou

Check By PK

APCL Project: JPL

ATL #: 061277-001A/020A

001

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Table of Contents:

ATL #: 061277-001A/020A
APCL #: **NA**

Section	Pages
Case Narrative	003-005
Sample Receiving Items	006-009
EPA 200.8	010-116

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Case Narrative

Client: Applied P & Ch Laboratory
Attn: Kenny Chan
Client's Project: JPL

ATL Number: 061277-001A/020A
Date Received: 2/12/02

Advanced Technology Laboratories received 20 water sample(s) for sample analysis. All receiving information is located on the Chain-of-Custody, which has been included in the data package.

Table's 1 describe in detail the individual sample information. Table 2 describes some important information associated with the sample batch.

Table 1: Sample Description

Lab Sample ID	Client Sample ID	Sample Description	Matrix
061277-001A	MW-21-5	NA	Water
061277-002A	MW-21-4	NA	Water
061277-003A	MW-21-3	NA	Water
061277-004A	MW-21-2	NA	Water
061277-005A	MW-21-1	NA	Water
061277-006A	EB-1-1/29/03	NA	Water
061277-007A	MW-20-5	NA	Water
061277-008A	MW-20-4	NA	Water
061277-009A	MW-20-3	NA	Water
061277-010A	MW-20-2	NA	Water
061277-011A	MW-20-1	NA	Water
061277-012A	EB-2-1/30/03	NA	Water
061277-013A	Dupe-1-IQ03	NA	Water
061277-014A	MW-19-5	NA	Water
061277-015A	MW-19-4	NA	Water
061277-016A	MW-19-3	NA	Water
061277-017A	MW-19-2	NA	Water
061277-018A	MW-19-1	NA	Water
061277-019A	EB-3-2/3/03	NA	Water
061277-020A	Dupe-2-IQ03	NA	Water

Table 2: Sample Batch Information

Test Name	Analysis Method	QC Batch Number	Associated Samples	Analysis Date
ICP_MS Metals	EPA 200.8	R25095	061277-001A /020A	02/17/03
		R25311	061277-009A	2/24/03

003

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

ATL samples 061277-001A/020A did not require digestion. The Prep Date on the report is the analytical date of the turbidity check.

Table 3: QC Anomalies

Item	Cause/Reason
None	

The client requested a Level "D" data package requirement. The QC anomalies, which are listed in Table 3, appear to not have any significant impact on the analytical results. See cause and reasons for each anomaly that is listed in the table.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (562) 989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

004

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Data Qualifiers

Data Qualifiers are used in conjunction with the results in order to explain certain anomalies which may have occurred during sample analysis. If a result data qualifier is reported, then an explanation of the occurrence and the effects it has on the results must accompany the report.
The following table describes each data qualifier:

Symbol	Definition
B	This flag is used when the analyte is found in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag shall be used for a tentatively identified compound as well as for a positively identified target compounds.
D	Duplicate injection precision not met.
E	The reported value is estimated because of interference.
J	This indicates an estimated value. This flag is used (1) when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the CRQL but greater than zero, (3) when the retention time data indicate the presence of a compound that meets the pesticide/Aroclor identification criteria, and the result is less than the CRQL but greater than zero.
N	This flag indicated presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N flag is not used.
S	Spike sample recovery not within control limits.
SA	The reported value was determined by the Method of Standard Additions (MSA).
U	This flag indicates the compound was analyzed for but not detected. The CRQL shall be adjusted accordingly.
W	Post Digestion Spike for Furnace AA analysis is out of control limits (85% - 115%), while sample absorbance is less than 50% of spike absorbance.
X	This flag is used for a pesticide/Aroclor target analyte when there is grater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported and flagged with an X.
Y	This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag.
P	Samples analyzed by ICP
PM	Samples analyzed by ICP_MS
CV	Samples analyzed by Manual Cold Vapor AA
CA	Samples analyzed by Midi-Distillation Spectrophotometer
SP	Samples analyzed by Spectrophotometer
TR	Samples analyzed by Infrared (TRPH)
AA	Samples analyzed by Flame, Atomic Absorption
M	Method Qualifier: Indicates the method by which each analyte is analyzed.
Q	Data Qualifier: Indicates any anomalies occurred during the QC sample analysis.
C	Concentration Qualifier: Indicates any effect on the reported value.
DLR	The DLR takes into account the dilution or concentration of the sample and is numerically defined as the MDL times the dilution or concentration factor. The dilution and concentration factors vary according to aliquot normally taken by the individual laboratory.
NC	Not calculated; at or near detection limit.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Sample Receiving Items

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Subcontract Chain of Custody

Please Print in pen

Subcontract Lab: Advanced Technology Laboratories Contact: Puri Romualdo Tel #: (562) 989 4045 Fax #: (562) 989-4040

Address: 3275 Walnut Ave City: Signal Hill State: CA Zip code: 90807

APCL Client: APCL Contact: Kenny Chan

Project Name/Code JPL Job #

BILL TO APCL Sub Quotation #

Due Date: ☐regular ☐rush: ___ days ___ hours Sampled by: Leo Williamson

Analysis Items: Cr hex 200.8

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	Cr hex 200.8	Remarks
	MW-21-5	1/29/03	840	W	HNO_3	1	X	
	MW-21-4		915					With EDD and Level 4 package.
	MW-21-3		1245					
	MW-21-2		1320					
	MW-21-1		1400					
	EB-1-1/29/03		1410					
	MW-20-5	1/30/03	825					
	MW-20-4		925					
	MW-20-3		1055			2		←MS/MSD
	MW-20-2		1140			1		
	MW-20-1		1300					
	EB-2-1/30/03		1340					
	Dupe-1-1Q03		—					
	MW-19-5	2/3/03	810					
	MW-19-4		920					

QC Requirement: ☐Regular; ☐QA/QC Report; ☐WIP; ☐Raw Data; ☐Extended Raw Data ☐CLP; ☐ACE ☐AFCEE ☑NEESA D (E, C or D); ☑Other EDD (Please specify)

Sample Disposal: ☐Return ☐Disposal by APCL ☐Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☑Intact; ☐Broken. Cooler Seal: ☐Intact; ☐Broken; ☐ None . Tag # _____ Temperature: ☐ Room ☑Cold (_____ °C).

Relinquished by [signature] Date/Time 2/6/03 / 1000A Received by [signature] Date/Time 2/12/03 / 9:10

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

APCL Form 4-101, Ver. 4.0, Jan. 17, 2003.

Root-file:[CUST.DATA.LAB]CHAIN_ROOT_sub.TEX File:[CUST.DATA.LAB]CHAIN6.TEX

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

Subcontract Chain of Custody

Please Print in pen

Subcontract Lab: Advanced Technology Laboratories Contact: Rev. Romualdo Tel #: (562) 989 4045 Fax #: (562) 989-4040
Address: 3275 Walnut Ave City: Signal Hill State: CA Zip code: 90807
APCL Client: APCL Contact: Kenny Chan
Project Name/Code JPL Job #
BILL TO APCL Sub Quotation #
Due Date: ☑ regular ☐ rush: ___ days ___ hours Sampled by: Leo Williamson

Analysis Items: Cr hex 200.8

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	Cr hex 200.8	Remarks
	MW-19-3	2/3/03	1105	W	HNO3	1	X	With EDD and Level 4 package.
	MW-19-2	↓	1020	↓	↓	↓	↓	
	MW-19-1	↓	1145	↓	↓	↓	↓	
	EB-3-2/3/03	↓	925	↓	↓	↓	↓	
	Dupe-2-1Q03	↓	—	↓	↓	↓	↓	

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☑ NEESA D (E, C or D); ☑ Other EDD (Please specify)
Sample Disposal: ☐ Return ☐ Disposal by APCL ☐ Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**
Sample Conditions: ☑ Intact; ☐ Broken. Cooler Seal: ☐ Intact; ☐ Broken; ☐ None. Tag # _____ Temperature: ☐ Room ☑ Cold (_____ °C).

Relinquished by [signature] Date/Time 2/6/03 11:00A Received by [signature] Date/Time 2/12/03 / 9:00
Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

APCL Form 4-101, Ver. 4.0, Jan. 17, 2003.

Root-file:[CUST.DATA.LAB]CHAIN_ROOT_sub.TEX File:[CUST.DATA.LAB]CHAIN6.TEX

Applied P & Ch Laboratory — Subcontract Chain of Custody

13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Please Print in pen

Subcontract Lab: Advanced Technology Laboratories Contact: Ruv. Romualdo Tel #: (562) 989 4045 Fax #: (562) 989-4040

Address: 3275 Walnut Ave City: Signal Hill State: CA Zip code: 90807

APCL Client: APCL Contact: Kenny Chan

Project Name/Code JPL Job #

BILL TO APCL Sub Quotation #

Due Date: ☑ regular ☐ rush: ___ days ___ hours Sampled by: Leo Williamson

Analysis Items: Cr Hex 218.6

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	Cr Hex 218.6	Remarks
-16	MW-19-3	2/3/03	1105	W	HNO3	1	X	With EDD and Level 4 package.
-17	MW-19-2	↓	1020	↓	↓	↓	↓	
-18	MW-19-1	↓	1145	↓	↓	↓	↓	
-19	EB-3-2/3/03	↓	925	↓	↓	↓	↓	
-20	Dupe-2-1Q03	↓	—	↓	↓	↓	↓	

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☑ NEESA D (E, C or D); ☑ Other EDD (Please specify)

Sample Disposal: ☐ Return ☐ Disposal by APCL ☐ Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☑ Intact; ☐ Broken. Cooler Seal: ☐ Intact; ☐ Broken; ☐ None. Tag # _____ Temperature: ☐ Room ☑ Cold (_____ °C).

Relinquished by [signature] Date/Time 2/6/03 11:00 AM Received by [signature] Date/Time 2/12/03 / 9:00

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

INORGANICS COMPLETE INVENTORY SHEET

Client: Applied P & Ch Laboratory
Attn: Kenny Chan
Client's Project: JPL

Laboratory Name: Advanced Technology Laboratories
Laboratory Address: 3275 Walnut Avenue, Signal Hill, CA 90807

ATL Number: 060054-001A/009A
Date Sampled: 11/04/02
Date Received: 11/22/02

Method 200.8 (Metals)

	Topic	Page(s)
Sample Data	Inorganic Data Result Sheet	011-030
Standards Data	Initial Calibration	031
	Initial Calibration Verification and Continuing Calibration Verification/External Reference Standard	032-033
	Tune File	044-047
	Internal Standard Table	034-035
Raw QC Data	Blank Report Sheet	036-037
	Spike Sample Recovery	040-041
	Laboratory Control Spike Report	038-039
	Duplicate Report Sheet	042
	Holding Times Summary Sheet	043
Miscellaneous Items	Preparation Log	048-049
	Analysis Run Log	050-051
	Standards Log	052-061
	List of Method Detection Limits	062
Raw Data Package	Standards Data Sample Data QC Data	063-116

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-21-5
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/29/2003 8:40:00 AM
Lab ID:	061277-001A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A	QC Batch: R25095					Analyst: **RQ**
Chromium	5.7	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-21-4
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/29/2003 9:15:00 AM
Lab ID:	061277-002A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A QC Batch: R25095						Analyst: **RQ**
Chromium	4.7	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-21-3
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/29/2003 12:45:00 PM
Lab ID:	061277-003A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A	QC Batch: R25095					Analyst: **RQ**
Chromium	5.9	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-21-2
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/29/2003 1:20:00 PM
Lab ID:	061277-004A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A	QC Batch: R25095					Analyst: **RQ**
Chromium	6.7	1.0		µg/L	1	2/17/2003

Qualifiers:

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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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H - Sample exceeded analytical holding time
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Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-21-1
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/29/2003 2:00:00 PM
Lab ID:	061277-005A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A QC Batch: R25095						Analyst: **RQ**
Chromium	4.6	1.0		µg/L	1	2/17/2003

Qualifiers:

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DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	EB-1-1/29/03
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/29/2003 2:10:00 PM
Lab ID:	061277-006A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A QC Batch: R25095						Analyst: **RQ**
Chromium	ND	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-20-5
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/30/2003 8:25:00 AM
Lab ID:	061277-007A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030217A	QC Batch: R25095					Analyst: **RQ**
Chromium	2.7	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-20-4
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/30/2003 9:25:00 AM
Lab ID:	061277-008A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A	QC Batch: R25095					Analyst: **RQ**
Chromium	2.4	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-20-3
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/30/2003 10:55:00 AM
Lab ID:	061277-009A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030224A	QC Batch: R25311					Analyst: **RQ**
Chromium	1.7	1.0		µg/L	1	2/24/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-20-2
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/30/2003 11:40:00 AM
Lab ID:	061277-010A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A	QC Batch: R25095					Analyst: **RQ**
Chromium	2.2	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-20-1
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/30/2003 1:00:00 PM
Lab ID:	061277-011A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A	QC Batch: R25095					Analyst: **RQ**
Chromium	2.8	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	EB-2-1/30/03
Lab Order:	061277		
Project:	JPL	**Collection Date:**	1/30/2003 1:40:00 PM
Lab ID:	061277-012A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A QC Batch: R25095						Analyst: **RQ**
Chromium	ND	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	Dupe-1-IQ03
Lab Order:	061277		
Project:	JPL	**Collection Date:**	
Lab ID:	061277-013A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A	QC Batch: R25095					Analyst: **RQ**
Chromium	2.5	1.0		µg/L	1	2/17/2003

Qualifiers:

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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-19-5
Lab Order:	061277		
Project:	JPL	**Collection Date:**	2/3/2003 8:10:00 AM
Lab ID:	061277-014A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A	QC Batch: R25095					Analyst: **RQ**
Chromium	3.4	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

024

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-19-4
Lab Order:	061277		
Project:	JPL	**Collection Date:**	2/3/2003 9:20:00 AM
Lab ID:	061277-015A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A QC Batch: R25095						Analyst: **RQ**
Chromium	2.3	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

025

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-19-3
Lab Order:	061277		
Project:	JPL	**Collection Date:**	2/3/2003 11:05:00 AM
Lab ID:	061277-016A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030217A QC Batch: R25095						Analyst: **RQ**
Chromium	5.1	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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E - Value above quantitation range
Results are wet unless otherwise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-19-2
Lab Order:	061277		
Project:	JPL	**Collection Date:**	2/3/2003 10:20:00 AM
Lab ID:	061277-017A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A QC Batch: R25095						Analyst: **RQ**
Chromium	6.0	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

027

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	MW-19-1
Lab Order:	061277		
Project:	JPL	**Collection Date:**	2/3/2003 11:45:00 AM
Lab ID:	061277-018A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030217A QC Batch: R25095						Analyst: **RQ**
Chromium	2.6	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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E - Value above quantitation range
Results are wet unless otherwise specified

026

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	EB-3-2/3/03
Lab Order:	061277		
Project:	JPL	**Collection Date:**	2/3/2003 9:25:00 AM
Lab ID:	061277-019A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A QC Batch: R25095						Analyst: **RQ**
Chromium	ND	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

029

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *25-Feb-03*

CLIENT:	Applied P & Ch Laboratories	**Client Sample ID:**	Dupe-2-IQ03
Lab Order:	061277		
Project:	JPL	**Collection Date:**	
Lab ID:	061277-020A	**Matrix:**	WATER

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030217A	QC Batch: R25095					Analyst: **RQ**
Chromium	1.9	1.0		µg/L	1	2/17/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interferen
H - Sample exceeded analytical holding time
E - Value above quantitation range
Results are wet unless otherwise specified

030

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040