

**Level D Data Package Deliverables**

# **General Information**

**Project: 010HW019 JPL**

**APCL Service ID: 02-1492**



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

# Case Narrative

## Project: JPL/00HW019

For SOTA Environmental

APCL Service No: 02-1492

### 1. Sample Identification

The sample identifications are listed in the following table:

SOTA Environmental Sample ID	APCL Sample ID
TB-17	02-01492-8
MW-4-5	02-01492-6
MW-4-4	02-01492-5
MW-4-3	02-01492-4
MW-4-3D	02-01492-7
ER-13	02-01492-1
MW-4-2	02-01492-3
MW-4-1	02-01492-2

### 2. Analytical Methodology

Samples are analyzed by EPA methods

524.2 (Volatile Organic Compounds ),

7196 (Chromium (VI) ),

E314 (Perchlorate, low level ),

200.7 (Metals by ICP ),

300.0 (Anions by IC ),

SM2320B (Carbonate ),

150.1 (pH ),

160.1 (Solids, Total Dissolved (TDS) ),

200.9 (Arsenic, As, by GFAA ),

310.1 (Alkalinity ),

8270-SIM (1,4-Dioxane ),

### 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

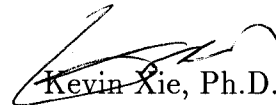
None.

### 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,



Kevin Xie, Ph.D.,  
QA/QC Director  
Applied P & Ch Laboratory





# Sample Receiving Checklist

APCL ServiceID: **1492** Client Name/Project: Sate Environmental

### 1. Sample Arrival

Date/Time Received 2/5/02 1739 Date/Time Opened 2/6/02 0830 By (name): Paul

Custody Transfer:  Client  Golden State  UPS  US Mail  FedEx  APCL Empl: Greg

### 2. Chain-of-Custody (CoC)

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

### 3. Shipping Container/Cooler

Cooler Used? # of 2 Cooled by:  Ice  Blue Ice  Dry Ice  None  
Temp °C 2.1 2.6

(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<sup>VI</sup> 24hr  NO<sub>3</sub> 48hr  BOD 48hr  
 Cl<sub>2</sub> 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: 5 day  Std (7-10 days)  Not Marked

### 8. Sample Matrix

Drinking H<sub>2</sub>O  Other Liq  Soil  Wipe  Polymer  Air  Other: \_\_\_\_\_  
 Ground H<sub>2</sub>O  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 Date: 5 Feb 2002 Time: 8:42 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.

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

# Sample Login: Check List

**02-01492 (1288\_ 317) (4858100\_ 317)**

02/06/02

## Part 1: General Information

---

<input type="checkbox"/> Company Information	Name:	<i>SOTA Environmental</i>
	Address:	<i>16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127</i>
<input type="checkbox"/> Project Information	Project Description:	<i>JPL</i>
	Project #:	<i>00HW019</i>
<input type="checkbox"/> Billing Information	P.O. #:	
	Bill Address:	<i>16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127</i>
	Lab Project ID:	<i>2002_0002</i>
	Client Database #:	<i>01</i>
<input type="checkbox"/> Receiving Information	Who Received Sample?	<i>Paul</i>
	Receiving Date/Time:	<i>02/05/02 1739</i>
	COC No.	
<input type="checkbox"/> Shipping Information	Shipping Company	<i>APCL pick up</i>
	Packing Information:	<i>Cooler/Ice Chester</i>
	Cooler Temperature:	<i>2.1 2.6 °C</i>
<input type="checkbox"/> Container Information	Container Provider:	<i>Client</i>
<input type="checkbox"/> Sampling Information	Sampling Person:	<i>MES/JNT</i>
	Sampling Company:	<i>Client</i>
<input type="checkbox"/> Turn-Around-Time Option:		<i>Rush 5 working day(s)</i>
<input type="checkbox"/> QC Option:		<i>NEESA D</i>
<input type="checkbox"/> Disposal Option:		<i>Not specify</i>

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## Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Cont- Matrix	Preser- tainer	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmmddyy	Composite Hold ?	TAT Group	Days		
1	TB-17 ✓	524.2	02-01492-8	W	V	C	40	2	G	020502	N	0	7	<input type="checkbox"/>
2	MW-4-5 ✓	524.2	02-01492-6- $\alpha$	W	V	C	40	3	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-5	Metals	02-01492-6- $\beta$	W	P	N	500	1	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-5	300	02-01492-6- $\gamma$	W	P		500	1	G	020502	N	0	7	<input type="checkbox"/>
3	MW-4-4 ✓	524.2	02-01492-5- $\alpha$	W	V	C	40	3	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-4	Metals	02-01492-5- $\beta$	W	P	N	500	1	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-4	300	02-01492-5- $\gamma$	W	P		500	1	G	020502	N	0	7	<input type="checkbox"/>
4	MW-4-3 ✓	524.2	02-01492-4- $\alpha$	W	V	C	40	3	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-3	Metals	02-01492-4- $\beta$	W	P	N	500	1	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-3	300	02-01492-4- $\gamma$	W	P		500	1	G	020502	N	0	7	<input type="checkbox"/>
5	MW-4-3D ✓	524.2	02-01492-7- $\alpha$	W	V	C	40	3	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-3D	Metals	02-01492-7- $\beta$	W	P	N	500	1	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-3D	300	02-01492-7- $\gamma$	W	P		500	1	G	020502	N	0	7	<input type="checkbox"/>
6	ER-13 ✓	524.2	02-01492-1- $\alpha$	W	V	C	40	3	G	020502	N	0	7	<input type="checkbox"/>
	ER-13	Metals	02-01492-1- $\beta$	W	P	N	500	1	G	020502	N	0	7	<input type="checkbox"/>
	ER-13	300	02-01492-1- $\gamma$	W	P		500	1	G	020502	N	0	7	<input type="checkbox"/>
	ER-13	SIM	02-01492-1- $\delta$	W	G		1000	2	G	020502	N	0	7	<input type="checkbox"/>
7	MW-4-2 ✓	524.2	02-01492-3- $\alpha$	W	V	C	40	3	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-2	Metals	02-01492-3- $\beta$	W	P	N	500	1	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-2	300	02-01492-3- $\gamma$	W	P		500	1	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-2	SIM	02-01492-3- $\delta$	W	G		1000	3	G	020502	N	0	7	<input type="checkbox"/>
8	MW-4-1 ✓	524.2	02-01492-2- $\alpha$	W	V	C	40	3	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-1	Metals	02-01492-2- $\beta$	W	P	N	500	1	G	020502	N	0	7	<input type="checkbox"/>
	MW-4-1	300	02-01492-2- $\gamma$	W	P		500	1	G	020502	N	0	7	<input type="checkbox"/>

## 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 ( $\text{SO}_4^{--}$ ), by IC
- 300.0/SM4500NO Nitrate ( $\text{NO}_3^-$ ) as N by IC
- 300.0 Chloride  $\text{Cl}^-$  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	TB-17	524.2	02-01492-8	W	X							<input checked="" type="checkbox"/>
2	MW-4-5	524.2	02-01492-6-α	W	X							<input type="checkbox"/>
	MW-4-5	Metals	02-01492-6-β	W				X	X	X	X	<input type="checkbox"/>
	MW-4-5	300	02-01492-6-γ	W		X	X					<input type="checkbox"/>
3	MW-4-4	524.2	02-01492-5-α	W	X							<input type="checkbox"/>
	MW-4-4	Metals	02-01492-5-β	W				X	X	X	X	<input type="checkbox"/>
	MW-4-4	300	02-01492-5-γ	W		X	X					<input type="checkbox"/>
4	MW-4-3	524.2	02-01492-4-α	W	X							<input type="checkbox"/>
	MW-4-3	Metals	02-01492-4-β	W				X	X	X	X	<input type="checkbox"/>
	MW-4-3	300	02-01492-4-γ	W		X	X					<input type="checkbox"/>
5	MW-4-3D	524.2	02-01492-7-α	W	X							<input type="checkbox"/>
	MW-4-3D	Metals	02-01492-7-β	W				X	X	X	X	<input type="checkbox"/>
	MW-4-3D	300	02-01492-7-γ	W		X	X					<input type="checkbox"/>
6	ER-13	524.2	02-01492-1-α	W	X							<input type="checkbox"/>
	ER-13	Metals	02-01492-1-β	W								<input type="checkbox"/>
	ER-13	300	02-01492-1-γ	W		X	X					<input type="checkbox"/>
	ER-13	SIM	02-01492-1-δ	W								<input type="checkbox"/>
7	MW-4-2	524.2	02-01492-3-α	W	X							<input type="checkbox"/>
	MW-4-2	Metals	02-01492-3-β	W				X	X	X	X	<input type="checkbox"/>
	MW-4-2	300	02-01492-3-γ	W		X	X					<input type="checkbox"/>
	MW-4-2	SIM	02-01492-3-δ	W								<input type="checkbox"/>
8	MW-4-1	524.2	02-01492-2-α	W	X							<input type="checkbox"/>
	MW-4-1	Metals	02-01492-2-β	W				X	X	X	X	<input type="checkbox"/>
	MW-4-1	300	02-01492-2-γ	W		X	X					<input type="checkbox"/>

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	TB-17	524.2	02-01492-8	W								<input type="checkbox"/>
2	MW-4-5	524.2	02-01492-6-α	W								<input type="checkbox"/>
	MW-4-5	Metals	02-01492-6-β	W								X
	MW-4-5	300	02-01492-6-γ	W	X	X	X	X	X	X	X	
3	MW-4-4	524.2	02-01492-5-α	W								<input type="checkbox"/>
	MW-4-4	Metals	02-01492-5-β	W								X

57405

4	MW-4-4	300	02-01492-5- $\gamma$	W	X	X	X	X	X	X	X	
	MW-4-3	524.2	02-01492-4- $\alpha$	W								
	MW-4-3	Metals	02-01492-4- $\beta$	W								X
5	MW-4-3	300	02-01492-4- $\gamma$	W	X	X	X	X	X	X	X	
	MW-4-3D	524.2	02-01492-7- $\alpha$	W								
	MW-4-3D	Metals	02-01492-7- $\beta$	W								X
6	MW-4-3D	300	02-01492-7- $\gamma$	W	X	X	X	X	X	X	X	
	ER-13	524.2	02-01492-1- $\alpha$	W								
	ER-13	Metals	02-01492-1- $\beta$	W								X
7	ER-13	300	02-01492-1- $\gamma$	W								
	ER-13	SIM	02-01492-1- $\delta$	W								
	MW-4-2	524.2	02-01492-3- $\alpha$	W								
8	MW-4-2	Metals	02-01492-3- $\beta$	W								X
	MW-4-2	300	02-01492-3- $\gamma$	W	X	X	X	X	X	X	X	
	MW-4-2	SIM	02-01492-3- $\delta$	W								
8	MW-4-1	524.2	02-01492-2- $\alpha$	W								
	MW-4-1	Metals	02-01492-2- $\beta$	W								X
	MW-4-1	300	02-01492-2- $\gamma$	W	X	X	X	X	X	X	X	

Seq. #	Client's Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	ALKALIN	SIM
1	TB-17	524.2	02-01492-8	W		
2	MW-4-5	524.2	02-01492-6- $\alpha$	W		
	MW-4-5	Metals	02-01492-6- $\beta$	W		
	MW-4-5	300	02-01492-6- $\gamma$	W	X	
3	MW-4-4	524.2	02-01492-5- $\alpha$	W		
	MW-4-4	Metals	02-01492-5- $\beta$	W		
	MW-4-4	300	02-01492-5- $\gamma$	W	X	
4	MW-4-3	524.2	02-01492-4- $\alpha$	W		
	MW-4-3	Metals	02-01492-4- $\beta$	W		
	MW-4-3	300	02-01492-4- $\gamma$	W	X	
5	MW-4-3D	524.2	02-01492-7- $\alpha$	W		
	MW-4-3D	Metals	02-01492-7- $\beta$	W		
	MW-4-3D	300	02-01492-7- $\gamma$	W	X	
6	ER-13	524.2	02-01492-1- $\alpha$	W		
	ER-13	Metals	02-01492-1- $\beta$	W		
	ER-13	300	02-01492-1- $\gamma$	W		
7	ER-13	SIM	02-01492-1- $\delta$	W		X
	MW-4-2	524.2	02-01492-3- $\alpha$	W		
	MW-4-2	Metals	02-01492-3- $\beta$	W		
8	MW-4-2	300	02-01492-3- $\gamma$	W	X	
	MW-4-2	SIM	02-01492-3- $\delta$	W		X
	MW-4-1	524.2	02-01492-2- $\alpha$	W		
8	MW-4-1	Metals	02-01492-2- $\beta$	W		
	MW-4-1	300	02-01492-2- $\gamma$	W	X	

Client's Requirement:

PLEASE RUN MS/MSD ON SAMPLE # 3

IF ENOUGH SAMPLE

FOR 8270SIM, PLEASE INCLUDE 1,4-DIOXANE

Login By En-Yu Paul Kou

Check By Dy



A P C L

Applied Physics & Chemistry Laboratory

13760 Magnolia Ave. Chino CA 91710

Tel. (909) 590-1828 Fax (909) 590-1498

February 14, 2002

SOTA Environmental  
Attention: Yu Zeng  
16835 W. Bernardo Dr. Suite 212  
San Diego CA 92127

Dear Yu,

This package contains samples in our Service ID 02-1428 and your project is 00HW019 JPL.  
Enclosed please find:

- (1) One original report.
- (2) One original Chain of Custody.
- (3) One diskette containing EDD Deliverable.
- (4) One original of Level D Data Package Deliverable.

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

Respectfully submitted,

  
Kevin Xie, Ph.D.,

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

# APCL Analytical Report

Submitted to:  
SOTA Environmental  
Attention: Yu Zeng  
16835 W. Bernardo Dr, Ste. 212  
San Diego CA 92127  
Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-021428 Received: 01/31/02  
Collected by: MES/JNT Extracted: N/A  
Collected on: 01/31/02 Tested: 02/01-06/02  
Reported: 02/11/02  
Sample Description: Water from Pasadena, CA  
Project Description: 00HW019 JPL

## Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result	
				MW-5	MW-10
				02-01428-1	02-01428-2
ALKALINITY	310.1	mg/L	2	159	218
BICARBONATE <sup>(a)</sup>	SM2320B	mg/L	2	159	218
CARBONATE <sup>(a)</sup>	SM2320B	mg-CaCO <sub>3</sub> /L	2	<2	<2
PH	150.1	pH unit	0.01	6.95	6.92
SOLIDS, TOTAL DISSOLVED (TDS)	160.1	mg/L	10	322	869
CHROMIUM (VI)	7196	mg/L	0.01	<0.01	<0.01
Dilution Factor				1	1
PERCHLORATE	E314	µg/L	4	23.4	<4
Dilution Factor				4	20
CHLORIDE CL <sup>-</sup>	300.0	mg/L	0.2	29.0	120
NITRATE AS N	300.0	mg/L	0.04	7.2	18.1
SULFATE SO <sub>4</sub> <sup>-</sup>	300.0	mg/L	0.5	51.8	185
Dilution Factor				1	1
ARSENIC	200.9	µg/L	5	1.4J	1.8J
Dilution Factor				1	1
CALCIUM	200.7	µg/L	200	66,000	158,000
IRON	200.7	µg/L	50	1,010	83.6
MAGNESIUM	200.7	µg/L	100	19,900	49,200
POTASSIUM	200.7	µg/L	400	3,490	3,870
SODIUM	200.7	µg/L	2000	19,600	34,400

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-5	MW-10	TB-14
				02-01428-1	02-01428-2	02-01428-3
<b>VOLATILE ORGANIC COMPOUNDS</b>						
Dilution Factor				1	1	1
CARBON TETRACHLORIDE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
CHLOROFORM	524.2	µg/L	0.5	0.5	1.1	1.1

# APCL Analytical Report

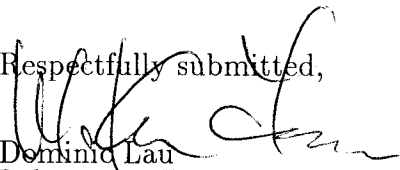
Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-5	MW-10	TB-14
				02-01428-1	02-01428-2	02-01428-3
1,1-DICHLOROETHANE	524.2	µg/L	0.5	<0.5	0.9	<0.5
1,2-DICHLOROETHANE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	524.2	µg/L	0.5	<0.5	<0.5	<0.5
TETRACHLOROETHENE	524.2	µg/L	0.5	<0.5	2.9	<0.5
TRICHLOROETHENE	524.2	µg/L	0.5	4.2	3.0	<0.5
112TRICHLORO-122TRIFLUOROETHANE	524.2	µg/L	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

<sup>(a)</sup> Calculated from alkalinity result by EPA 310.1

Respectfully submitted,  
  
 Dominic Lau  
 Laboratory Director  
 Applied P & Ch Laboratory

**Level D Data Package Deliverables**

# **General Information**

**Project: 010HW019 JPL**

**APCL Service ID: 02-1428**



**Applied P & Ch Laboratory**  
13760 Magnolia Ave. Chino, CA 91710  
Telephone (909)590-1828  
Fax (909)590-1496

# Case Narrative

## Project: JPL/00HW019

For SOTA Environmental

APCL Service No: 02-1428

### 1. Sample Identification

The sample identifications are listed in the following table:

SOTA Environmental Sample ID	APCL Sample ID
TB-14	02-01428-3
MW-5	02-01428-1
MW-10	02-01428-2

### 2. Analytical Methodology

Samples are analyzed by EPA methods

- 524.2 (Volatile Organic Compounds ),
- 7196 (Chromium (VI) ),
- E314 (Perchlorate, low level ),
- 200.7 (Metals by ICP ),
- 300.0 (Anions by IC ),
- SM2320B (Carbonate ),
- 150.1 (pH ),
- 160.1 (Solids, Total Dissolved (TDS) ),
- 200.9 (Arsenic, As, by GFAA ),
- 310.1 (Alkalinity ),

### 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,



Kevin Xie, Ph.D.,  
QA/QC Director  
Applied P & Ch Laboratory

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

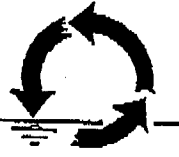
# Chain of Custody

Please Print in pen Page 1 of 1  
 Client: SOTA ENVIR. TECH. INC. Contact: Mike Sayre  
 Address: 1835 W. PERRIN RD. # 212 City: SAN DIEGO State: CA Zip code: 92127  
 Tel #: 658-485-6100 Fax #: 658-485-0812

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	Analysis Items	Remarks
TB-14	TRIT BLANK	4/4/02	9:57	WATER	HCl	2	<input checked="" type="checkbox"/> VOCs (524,2) <input checked="" type="checkbox"/> PCBs (219) <input checked="" type="checkbox"/> PERCHLORATE <input checked="" type="checkbox"/> CARBONATE <input checked="" type="checkbox"/> NITRATE <input checked="" type="checkbox"/> NITROGEN <input checked="" type="checkbox"/> PHOSPH	White - With report Yellow - Lab copy Pink - Originator
MW-5	MW-5				HCl	3		
					HNO <sub>3</sub>	2		
MW-10	MW-10		1347		HCl	3		
					HNO <sub>3</sub>	2		
						1		

Regular;  QA/QC Report;  WIP;  Raw Data;  Extended Raw Data  CLP;  ACE  APCEB  NEBSA (E, C or D);  Other (Please specify)  
 Sample Disposal:  Return  Disposal by APCL  Hold for \_\_\_ days after receiving data. 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 \_\_\_\_\_ Date/Time 4/3/02 1656 Received by APCL Date/Time 1/31/02 1650  
 Relinquished by \_\_\_\_\_ Date/Time \_\_\_\_\_ Received by \_\_\_\_\_ Date/Time \_\_\_\_\_  
**APCL USE ONLY** Service # \_\_\_\_\_ Note: \_\_\_\_\_  
 Client understands 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 services 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. 4-05, Dec. 26, 1994.

# SOTA



Environmental Technology, Inc.

16836 W. Bernardo Dr., Suite 212  
San Diego, CA 92127-1813

Phone: 858-485-8100  
Fax: 858-485-0812

# Transmittal

Date: 2/4/02

To: *Kenny C.*

From: *Yu*

FAX: *909-590-1498*

Phone:

No. of Pages: *2.*

- Urgent
- For Review
- Please Comment
- Please Reply
- as Requested

Subject:

Enclosures:

Comments:

*Please replace the coffee for  
1/31/02 sample.*

*Call me*

*yu.*



Applied P & Ch Laboratory

13760 Magnolia Ave., Chino CA 91710

Tel: (909) 590-1828 Fax: (909) 590-1498

Sample Receiving Checklist

APCL ServiceID: 1498 Client Name/Project: Sota Environmental

1. Sample Arrival

Date/Time Received 1/31/02 1650 Date/Time Opened 2/1/02 0830 By (name): Paul
Custody Transfer: Client Golden State UPS US Mail FedEx APCL Empl: Adam

2. Chain-of-Custody (CoC)

With Samples? Faxed? Client has Copy? Signed, dated? By:
Project ID? Analyses Clear? Hold Samples? # on Hold # Received
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 2.2
(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 CrVI 24hr NO3- 48hr BOD 48hr
Cl2 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: Sdap Std (7-10 days) Not Marked

8. Sample Matrix

Drinking H2O Other Liq Soil Wipe Polymer Air Other:
Ground H2O 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 Date: 31 Jan 2002 Time: 8:31 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.

## Sample Login: Check List

02-01428 (1288\_ 314) (4858100\_ 314)

02/01/02

### Part 1: General Information

- 
- |                          |                          |                      |  |
|--------------------------|--------------------------|----------------------|--|
| <input type="checkbox"/> | Company Information      | Name:                | <i>SOTA Environmental</i>                                  |
|                          |                          | Address:             | <i>16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127</i> |
| <input type="checkbox"/> | Project Information      | Project Description: | <i>JPL</i>   |
|                          |                          | Project #:           | <i>00HW019</i>   |
| <input type="checkbox"/> | Billing Information      | P.O. #:              |  |
|                          |                          | Bill Address:        | <i>16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127</i> |
|                          |                          | Lab Project ID:      | <i>2002.0002</i>   |
|                          |                          | Client Database #:   | <i>01</i>  |
| <input type="checkbox"/> | Receiving Information    | Who Received Sample? | <i>Paul</i>  |
|                          |                          | Receiving Date/Time: | <i>01/31/02 1650</i>                                       |
|                          |                          | COC No.              |  |
| <input type="checkbox"/> | Shipping Information     | Shipping Company     | <i>APCL pick up</i>  |
|                          |                          | Packing Information: | <i>Cooler/Ice Chester</i>                                  |
|                          |                          | Cooler Temperature:  | <i>2.2 °C</i>  |
| <input type="checkbox"/> | Container Information    | Container Provider:  | <i>Client</i>  |
| <input type="checkbox"/> | Sampling Information     | Sampling Person:     |  |
|                          |                          | Sampling Company:    | <i>Client</i>  |
| <input type="checkbox"/> | Turn-Around-Time Option: |                      | <i>Rush 5 working day(s)</i>                               |
| <input type="checkbox"/> | QC Option:               |                      | <i>NEESA D</i>   |
| <input type="checkbox"/> | Disposal Option:         |                      | <i>Not specify</i>   |
-

## Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Cont- Matrix	Preser- tainer	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days
1	TB-14 ✓	524.2	02-01428-3	W	V	C 40	2	G	013102	N	0	7 <input type="checkbox"/>
2	MW-5 ✓	524.2	02-01428-1-α	W	V	C 40	3	G	013102	N	0	7 <input type="checkbox"/>
	MW-5	Metals	02-01428-1-β	W	P	N 500	1	G	013102	N	0	7 <input type="checkbox"/>
	MW-5	300	02-01428-1-γ	W	P	500	1	G	013102	N	0	7 <input type="checkbox"/>
3	MW-10 ✓	524.2	02-01428-2-α	W	V	C 40	3	G	013102	N	0	7 <input type="checkbox"/>
	MW-10	Metals	02-01428-2-β	W	P	N 500	1	G	013102	N	0	7 <input type="checkbox"/>
	MW-10	300	02-01428-2-γ	W	P	500	1	G	013102	N	0	7 <input type="checkbox"/>

## Part 3: Analysis Information

Test Items:	<input checked="" type="checkbox"/> 524.2	Volatile Organic Compounds
	<input checked="" type="checkbox"/> 7196	Chromium (VI)
	<input checked="" type="checkbox"/> 300.0	Perchlorate, low level
	<input checked="" type="checkbox"/> 200.7/6010	Sodium, Na, by ICP
	<input checked="" type="checkbox"/> 200.7/6010	Potassium, K, by ICP
	<input checked="" type="checkbox"/> 200.7/6010	Calcium, Ca, by ICP
	<input checked="" type="checkbox"/> 200.7/6010	Magnesium, Mg, by ICP
	<input checked="" type="checkbox"/> 200.7/6010	Iron, Fe, by ICP
	<input checked="" type="checkbox"/> 300.0	Sulfate (SO <sub>4</sub> <sup>2-</sup> ), by IC
	<input checked="" type="checkbox"/> 300.0/SM4500NO <sub>3</sub>	Nitrate (NO <sub>3</sub> <sup>-</sup> ) as N by IC
	<input checked="" type="checkbox"/> 300.0	Chloride Cl <sup>-</sup> by IC
	<input checked="" type="checkbox"/> SM2320B	Carbonate
	<input checked="" type="checkbox"/> SM2320B	Bicarbonate
	<input checked="" type="checkbox"/> 9040/150.1	pH
	<input checked="" type="checkbox"/> 160.1	Solids, Total Dissolved (TDS)
	<input checked="" type="checkbox"/> 206.2/7060	Arsenic, As, by GFAA
	<input checked="" type="checkbox"/> 310.1	Alkalinity
	<input type="checkbox"/> 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	TB-14	524.2	02-01428-3	W	X ✓							<input checked="" type="checkbox"/>
2	MW-5	524.2	02-01428-1-α	W	X -							<input type="checkbox"/>
	MW-5	Metals	02-01428-1-β	W				X -	X -	X -	X -	<input type="checkbox"/>
	MW-5	300	02-01428-1-γ	W		X -	X -					<input type="checkbox"/>

