APCL

Applied Physics & Chemistry Laboratory

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

May 9, 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 02-2625 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 #: 801-022625
Collected by: JNT/TAM
Collected on: 04/25/02

Received: 04/25/02
Extracted: N/A
Tested: 04/26-05/02/02
Reported: 05/03/02

Sample Description: Water from Pasadena, CA
Project Description: 00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result ER-4 02-02625-1	MW-4-1 02-02625-2
Dilution Factor				1	1
PERCHLORATE	E314	μg/L	4	<4	<4
VOLATILE ORGANIC COMPOUNDS					
Dilution Factor				1	1
CARBON TETRACHLORIDE	524.2	μg/L	0.5	<0.5	<0.5
CHLOROFORM	524.2	μg/L	0.5	<0.5	<0.5
1,1-DICHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5
1,2-DICHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5
1,1-DICHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5
METHYLENE CHLORIDE	524.2	μg/L	1	0.3J	0.4J
TETRACHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5
TRICHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5
112TRICHLORO-122TRIFLUOROETHANE	524.2	μg/L	0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result MW-4-2 02-02625-3	MW-4-3 02-02625-4	TB-4 02-02625-7
Dilution Factor				1	1	1
PERCHLORATE	E314	μg/L	4	<4	<4	-
VOLATILE ORGANIC COMPOUNDS						
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	<0.5	<0.5
1,1-DICHLOROETHANE	524.2	μg/L	0.5	0.7	<0.5	<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
ETHYLBENZENE	524.2	μg/L	0.5	-	1.7	-
METHYLENE CHLORIDE	524.2	μg/L	1	0.3J	0.4J	0.9J
TETRACHLOROETHENE	524.2	μg/L	0.5	1.0	<0.5	<0.5
TRICHLOROETHENE	524.2	μg/L	0.5	1.3	<0.5	<0.5
112TRICHLORO-122TRIFLUOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5

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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result ER-4 02-02625-1	MW-4-1 02-02625-2	MW-4-2 02-02625-3
CHROMIUM (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01

Component Analyzed	Method	Unit	PQL	Analysis Result MW-4-3 02-02625-4	MW-4-4 02-02625-5	MW-4-5 02-02625-6
CHROMIUM (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01

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

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

Case Narrative

Project: JPL/Pasadena, CA/00HW019

For SOTA Environmental

APCL Service No: 02-2625

1. Sample Identification

The sample identifications are listed in the following table:

SOTA Environmental Sample ID	APCL Sample ID
TB-4	02-02625-7
MW-4-5	02-02625-6
MW-4-4	02-02625-5
MW-4-3	02-02625-4
MW-4-2	02-02625-3
MW-4-1	02-02625-2
ER-4	02-02625-1

2. Analytical Methodology

Samples are analyzed by EPA methods

524.2 (Volatile Organic Compounds),
7196 (Chromium (VI)),
E314 (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.

(64900

"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

Applied P & Ch Laboratory

APCL

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

Chain of Custody

Please Print in pen

Client: SOTA ENVR. TECH INC. Contact: MIKE SAYRE Tel #: 858-485-8100 Fax #: 858-485-0812

Address: 16835 WEST BERNARDO DRIVE #212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SOTA

Project Name/Code JPL Job #00HW019 P.O. #

Project Address PASADENA, CALIFORNIA APCL Quotation #

Due Date: ☒ regular ☐ rush: ____ days ____ hours Sampled by: JNT/TAM

Analysis Items

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOCs (524.2)	TOT Cr (200.8)	Cr VI (7196)	PERCHLORATE (314.0)	Remarks
TB-4	TRIP BLANK	4/25/02	0958	WATER	HCl	2	X				LEVEL IV
MW-4-5	MW-4-5		1020		HNO_3	1		X			DATA PACKAGE
MW-4-5	MW-4-5		1020		—	1			X	X	
MW-4-4	MW-4-4		1059		HNO_3	1		X			
MW-4-4	MW-4-4		1059		—	1			X	X	
MW-4-3	~~MW-4-4~~ MW-4-3		1125		HCl	3	X				
MW-4-3	MW-4-3		1125		HNO_3	1		X			
MW-4-3	MW-4-3		1125		—	1			X	X	
MW-4-2	MW-4-2		1159		HCl	3	X				
MW-4-2	MW-4-2		1159		HNO_3	1		X			
MW-4-2	MW-4-2		1159		—	1			X	X	
MW-4-1	MW-4-1		1226		HCl	3	X				
MW-4-1	MW-4-1		1226		HNO_3	1		X			
MW-4-1	MW-4-1		1226		—	1			X	X	

White – With report
Yellow – Lab copy
Pink – Originator

2625

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (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 4/25/02 / 1555 Received by [signature] Date/Time 4/25/02 / 1555

Relinquished by [signature] Date/Time 4/25/02 / 1710 Received by [signature] Date/Time 4/25/02 / 1710

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, Dec. 20, 1994.

Root-file:[CUST.DATA.LAB]CHAIN-ROOT.TEX File:[CUST.DATA.LAB]CHAIN4.TEX

Applied P & Ch Laboratory

APCL

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

Chain of Custody

Please Print in pen

Client: SOTA ENVR TECH INC Contact: MIKE SAYRE Tel #: 858-485-8100 Fax #: 858-485-0812

Address: 16835 WEST BERNARDO DRIVE #212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SOTA

Project Name/Code JPL Job # 00HW019 P.O. #

Project Address PASADENA, CALIFORNIA APCL Quotation #

Due Date: ☒ regular ☐ rush: ___ days ___ hours Sampled by: JMT/TAM

Analysis Items

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOC's (5242)	TOT Cr (200.9)	Cr VI (7196)	PERCHLORATE (314.0)								Remarks
ER-4	EQUIP. RINSATE	4/25/02	1216	WATER	HCl	3	X											LEVEL IV
ER-4	EQUIP. RINSATE		1216		HNO_3	1		X										DATA PACKAGE
ER-4	EQUIP. RINSATE		1216		—	1			X	X								

2 of 5

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (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 4/25/02 / 1555 Received by [signature] Date/Time 4/25/02 1555

Relinquished by [signature] Date/Time 4/25/02 1710 Received by [signature] Date/Time 4/25/02 1710

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.

Applied P & Ch Laboratory

APCL

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

Chain of Custody

Please Print in pen Page 1 of 2

Client: SOTA ENVR. TECH INC. Contact: MIKE SAYRE Tel #: 858-485-8100 Fax #: 858-485-0812
Address: 16835 WEST BERNARDO DRIVE #212 City: SAN DIEGO State: CA Zip code: 92127
Bill to: SOTA
Project Name/Code JPL Job # 00HW019 P.O. #
Project Address PASADENA, CALIFORNIA APCL Quotation #
Due Date: ☒ regular ☐ rush: ___ days ___ hours Sampled by: JNT/TAM

Analysis Items

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOC's (524.2)	TOTCC (200.8)	CrVI (7196)	PERCHLORATE (314.0)	Remarks
TB-4	TRIP BLANK	4/25/02	0958	WATER	HCl	2	X				LEVEL IV
MW-4-5	MW-4-5		1020		HNO_3	1		X			DATA PACKAGE
MW-4-5	MW-4-5		1020		—	1			X	~~X~~ delete 1/8	
MW-4-4	MW-4-4		1059		HNO_3	1		X			
MW-4-4	MW-4-4		1059		—	1			X	~~X~~ delete 1/8	
MW-4-3	~~MW-4-4~~ MW-4-3		1125		HCl	3	X				
MW-4-3	MW-4-3		1125		HNO_3	1		X			
MW-4-3	MW-4-3		1125		—	1			X	X	
MW-4-2	MW-4-2		1159		HCl	3	X				
MW-4-2	MW-4-2		1159		HNO_3	1		X			
MW-4-2	MW-4-2		1159		—	1			X	X	
MW-4-1	MW-4-1		1226		HCl	3	X				
MW-4-1	MW-4-1		1226		HNO_3	1		X			
MW-4-1	MW-4-1		1226		—	1			X	X	

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ APCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (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 4/25/02 / 1555 Received by [signature] Date/Time 4/25/02 1555
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.

SOTA
Environmental Technology, Inc.
16835 W. Bernardo Dr., Suite 212
San Diego, CA 92127-1613
Phone: 858-485-6100
Fax: 858-485-0812

Transmittal

Date: 4/26/02

To: Kenny Chan 909-590-1498

From: Yu Zeng

FAX:

Phone:

No. of Pages: 2

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

Subject:

Enclosures:

COC.

Comments:

Kenny,

Please delete the extra analysis for perchlorate for MW-4-4 and MW-4-5.

Thanks

Yu

APCL

Applied Physics & Chemistry Laboratory

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

May 15, 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 02-2647 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 #: 801-022647
Collected by: JNT/TAM
Collected on: 04/26/02

Received: 04/26/02
Extracted: N/A
Tested: 04/26-29/02
Reported: 05/08/02

Sample Description: Water from Pasadena
Project Description: 00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result MW-13 02-02647-1	MW-16 02-02647-2	MW-16D 02-02647-3	TB-13/16 02-02647-4
CHROMIUM (VI)	7196	mg/L	0.01	0.037	<0.01	<0.01	-
Dilution Factor				2	50	50	1
PERCHLORATE	E314	μg/L	4	189	2,880	2,910	-
VOLATILE ORGANIC COMPOUNDS							
Dilution Factor				1	1	1	1
CARBON TETRACHLORIDE	524.2	μg/L	0.5	6.2	8.9	9.9	<0.5
CHLOROFORM	524.2	μg/L	0.5	2.6	10.7	11.7	<0.5
1,1-DICHLOROETHANE	524.2	μg/L	0.5	0.8	<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	0.9	1.2	1.3	<0.5
METHYLENE CHLORIDE	524.2	μg/L	1	-	-	-	0.7J
TETRACHLOROETHENE	524.2	μg/L	0.5	1.4	0.4J	0.5J	<0.5
TRICHLOROETHENE	524.2	μg/L	0.5	4.3	1.5	1.8	<0.5
TRICHLOROFLUOROMETHANE	524.2	μg/L	0.5	0.8	0.3J	0.3J	-
112TRICHLORO-122TRIFLUOROETHANE	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

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

Case Narrative

Project: JPL/Pasadena/00HW019

For SOTA Environmental

APCL Service No: 02-2647

1. Sample Identification

The sample identifications are listed in the following table:

SOTA Environmental Sample ID	APCL Sample ID
TB-13/16	02-02647-4
MW-13	02-02647-1
MW-16	02-02647-2
MW-16D	02-02647-3

2. Analytical Methodology

Samples are analyzed by EPA methods

524.2 (Volatile Organic Compounds),
7196 (Chromium (VI)),
E314 (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.

65800

"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

Applied P & Ch Laboratory

APCL

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 ENVR. TECH INC. Contact: MIKE SAYRE Tel #: 858-485-8100 Fax #: 858-485-0812

Address: 16835 WEST BERNARDO DRIVE #212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SOTA

Project Name/Code JPL Job #00HW019 P.O. #

Project Address PASADENA, CALIFORNIA APCL Quotation #

Due Date: ☒ regular ☐ rush: ___ days ___ hours Sampled by: JNT/TAM

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOC's (524.2)	TOT Cr (200.8)	Cr VI (7196)	PERCHLORATE (314.0)	Remarks
TB-13/16	TRIP BLANK	4/26/02	1004	WATER	HCl	2	X				LEVEL IV
MW-13	MW-13		1044		HCl	3	X				DATA PACKAGE
MW-13	MW-13		1044		HNO_3	1		X			
MW-13	MW-13		1044		—	1			X	X	
MW-16	MW-16		1255		HCl	3	X				
MW-16	MW-16		1255		HNO_3	1		X			
MW-16	MW-16		1255		—	1			X	X	
MW-16D	MW-16D		1255		HCl	3	X				
MW-16D	MW-16D		1255		HNO_3	1		X			
MW-16D	MW-16D		1255		—	1			X	X	

2647

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (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 4/26/02 / 1417 Received by [signature] Date/Time 4/26/02 / 1417

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.

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

Sample Receiving Checklist

APCL ServiceID: 2647 Client Name/Project: Sota

1. Sample Arrival

Date/Time Received 4/26/02 1417 Date/Time Opened 4/26/02 1417 By (name): [illegible]

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

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☐ Signed, dated? By: ____
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold ____ # Received 4
☑ 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 4.2

(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 ☑ 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: 5days ☐ 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: [illegible] Date: 26 Apr 2002 Time: 9:04 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

02-02647 (1288_ 352) (4858100_ 352)

04/26/02

Part 1: General Information

☐ Company Information	Name:	*SOTA Environmental*
	Address:	*16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127*
☐ Project Information	Project Description:	*JPL*
	Project #:	*00HW019*
☐ Billing Information	P.O. #:	
	Bill Address:	*16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127*
	Lab Project ID:	*2002_0002*
	Client Database #:	*01*
☐ Receiving Information	Who Received Sample?	*Kenny*
	Receiving Date/Time:	*04/26/02 1417*
	COC No.	
☐ Shipping Information	Shipping Company	*by Client*
	Packing Information:	*Cooler/Ice Chester*
	Cooler Temperature:	*4.2 °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*

658 3

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	TB-13/16	524.2	02-02647-4	W	V	C	40	2	G	042602	N	0	7	☐
2	MW-13	524.2	02-02647-1-α	W	V	C	40	3	G	042602	N	0	7	☐
	MW-13	CRVI/Perch	02-02647-1-β	W	P		500	1	G	042602	N	0	7	☐
3	MW-16	524.2	02-02647-2-α	W	V	C	40	3	G	042602	N	0	7	☐
	MW-16	CRVI/Perch	02-02647-2-β	W	P		500	1	G	042602	N	0	7	☐
4	MW-16D	524.2	02-02647-3-α	W	V	C	40	3	G	042602	N	0	7	☐
	MW-16D	CRVI/Perch	02-02647-3-β	W	P		500	1	G	042602	N	0	7	☐

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/SM4500NO3*	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	TB-13/16	524.2	02-02647-4	W	X								☐
2	MW-13	524.2	02-02647-1-α	W	X								☐
	MW-13	CRVI/Perch	02-02647-1-β	W		X	X						☐
3	MW-16	524.2	02-02647-2-α	W	X								☐

658 4

	MW-16	CRVI/Perch	02-02647-2-β	W			X		X					☐
4	MW-16D	524.2	02-02647-3-α	W	X									☐
	MW-16D	CRVI/Perch	02-02647-3-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	TB-13/16	524.2	02-02647-4	W									☐
2	MW-13	524.2	02-02647-1-α	W									☐
	MW-13	CRVI/Perch	02-02647-1-β	W									☐
3	MW-16	524.2	02-02647-2-α	W									☐
	MW-16	CRVI/Perch	02-02647-2-β	W									☐
4	MW-16D	524.2	02-02647-3-α	W									☐
	MW-16D	CRVI/Perch	02-02647-3-β	W									☐

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	ALKALIN	SIM	
1	TB-13/16	524.2	02-02647-4	W			☐
2	MW-13	524.2	02-02647-1-α	W			☐
	MW-13	CRVI/Perch	02-02647-1-β	W			☐
3	MW-16	524.2	02-02647-2-α	W			☐
	MW-16	CRVI/Perch	02-02647-2-β	W			☐
4	MW-16D	524.2	02-02647-3-α	W			☐
	MW-16D	CRVI/Perch	02-02647-3-β	W			☐

☐ Client"s Requirement: **PLEASE RU~~N MS/MSD ON SAMPLE #~~**

☐ **IF ENOUGH SAMPLE**

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

Login By En-Yu Paul Kou

Check By DY

658 5

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

Sample Receiving Checklist

APCL ServiceID: 2625 Client Name/Project: Sota

1. Sample Arrival

Date/Time Received 4/25/02 1710 Date/Time Opened 4/25/02 1710 By (name): [illegible]

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 7
☑ 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 4.3 ____ ____ ____ ____ ____

(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: 5days ☐ 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: [illegible] Date: 25 Apr 2002 Time: 7:40 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.

64902

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

Sample Login: Check List 3rd

02-02625 (1288_ 351) (4858100_ 351)

04/26/02

Part 1: General Information

☐ Company Information	Name:	*SOTA Environmental*
	Address:	*16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127*
☐ Project Information	Project Description:	*JPL*
	Project #:	*00HW019*
☐ Billing Information	P.O. #:	
	Bill Address:	*16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127*
	Lab Project ID:	*2002_0002*
	Client Database #:	*01*
☐ Receiving Information	Who Received Sample?	*Kenny*
	Receiving Date/Time:	*04/25/02 1710*
	COC No.	
☐ Shipping Information	Shipping Company	*APCL pick up*
	Packing Information:	*Cooler/Ice Chester*
	Cooler Temperature:	*4.3 °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*

64903

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	TB-4	524.2	02-02625-7	W	V	C	40	2	G	042502	N	0	7	☐
2	MW-4-5	CRVI/Perch	02-02625-6	W	P		500	1	G	042502	N	0	7	☐
3	MW-4-4	524.2	02-02625-5-α	W	V	C	40	0	G	042502	N	0	7	☐
	MW-4-4	CRVI/Perch	02-02625-5-β	W	P		500	1	G	042502	N	0	7	☐
4	MW-4-3	524.2	02-02625-4-α	W	V	C	40	3	G	042502	N	0	7	☐
	MW-4-3	CRVI/Perch	02-02625-4-β	W	P		500	1	G	042502	N	0	7	☐
5	MW-4-2	524.2	02-02625-3-α	W	V	C	40	3	G	042502	N	0	7	☐
	MW-4-2	CRVI/Perch	02-02625-3-β	W	P		500	1	G	042502	N	0	7	☐
6	MW-4-1	524.2	02-02625-2-α	W	V	C	40	3	G	042502	N	0	7	☐
	MW-4-1	CRVI/Perch	02-02625-2-β	W	P		500	1	G	042502	N	0	7	☐
7	ER-4	524.2	02-02625-1-α	W	V	C	40	3	G	042502	N	0	7	☐
	ER-4	CRVI/Perch	02-02625-1-β	W	P		500	1	G	042502	N	0	7	☐

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/SM4500NO3* 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	Sample	APCL

64904

#	(as given on COC)	Sub-ID	Sample ID	Matrix	524.2	CHROMIUM	PERCHL	NA	K	CA	MG	FE	
1	TB-4	524.2	02-02625-7	W	X								☐
2	MW-4-5	CRVI/Perch	02-02625-6	W		X							☐
3	MW-4-4	524.2	02-02625-5-α	W									☐
	MW-4-4	CRVI/Perch	02-02625-5-β	W		X							☐
4	MW-4-3	524.2	02-02625-4-α	W	X								☐
	MW-4-3	CRVI/Perch	02-02625-4-β	W		X	X						☐
5	MW-4-2	524.2	02-02625-3-α	W	X								☐
	MW-4-2	CRVI/Perch	02-02625-3-β	W		X	X						☐
6	MW-4-1	524.2	02-02625-2-α	W	X								☐
	MW-4-1	CRVI/Perch	02-02625-2-β	W		X	X						☐
7	ER-4	524.2	02-02625-1-α	W	X								☐
	ER-4	CRVI/Perch	02-02625-1-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	TB-4	524.2	02-02625-7	W									☐
2	MW-4-5	CRVI/Perch	02-02625-6	W									☐
3	MW-4-4	524.2	02-02625-5-α	W									☐
	MW-4-4	CRVI/Perch	02-02625-5-β	W									☐
4	MW-4-3	524.2	02-02625-4-α	W									☐
	MW-4-3	CRVI/Perch	02-02625-4-β	W									☐
5	MW-4-2	524.2	02-02625-3-α	W									☐
	MW-4-2	CRVI/Perch	02-02625-3-β	W									☐
6	MW-4-1	524.2	02-02625-2-α	W									☐
	MW-4-1	CRVI/Perch	02-02625-2-β	W									☐
7	ER-4	524.2	02-02625-1-α	W									☐
	ER-4	CRVI/Perch	02-02625-1-β	W									☐

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	ALKALIN	SIM	
1	TB-4	524.2	02-02625-7	W			☐
2	MW-4-5	CRVI/Perch	02-02625-6	W			☐
3	MW-4-4	524.2	02-02625-5-α	W			☐
	MW-4-4	CRVI/Perch	02-02625-5-β	W			☐
4	MW-4-3	524.2	02-02625-4-α	W			☐
	MW-4-3	CRVI/Perch	02-02625-4-β	W			☐
5	MW-4-2	524.2	02-02625-3-α	W			☐
	MW-4-2	CRVI/Perch	02-02625-3-β	W			☐
6	MW-4-1	524.2	02-02625-2-α	W			☐
	MW-4-1	CRVI/Perch	02-02625-2-β	W			☐
7	ER-4	524.2	02-02625-1-α	W			☐
	ER-4	CRVI/Perch	02-02625-1-β	W			☐

64965

APCL

Applied Physics & Chemistry Laboratory

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

April 29, 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 02-2506 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 #: 801-022506
Collected by: JNT/TAM
Collected on: 04/19/02

Received: 04/19/02
Extracted: N/A
Tested: 04/19-23/02
Reported: 04/24/02

Sample Description: Water from Pasadena, CA
Project Description: 00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result ER-11 02-02506-1	MW-11-1 02-02506-2	MW-11-2 02-02506-3
Dilution Factor				1	1	1
PERCHLORATE	E314	μg/L	4	<4	<4	<4
VOLATILE ORGANIC COMPOUNDS						
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	<0.5	1
1,1-DICHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<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
METHYLENE CHLORIDE	524.2	μg/L	1	0.3J	0.3J	0.4J
TETRACHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5
TRICHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5
112TRICHLORO-122TRIFLUOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result MW-11-3 02-02506-4	MW-11-4 02-02506-5	TB-11 02-02506-6
Dilution Factor				1	1	1
PERCHLORATE	E314	μg/L	4	<4	<4	-
VOLATILE ORGANIC COMPOUNDS						
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	<0.5	<0.5
1,1-DICHLOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<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	<0.5	<0.5
TRICHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5
112TRICHLORO-122TRIFLUOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5

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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result ER-11 02-02506-1	MW-11-1 02-02506-2	MW-11-2 02-02506-3	MW-11-3 02-02506-4
CHROMIUM (VI)	7196	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01

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

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

Case Narrative

Project: JPL/00HW019

For SOTA Environmental

APCL Service No: 02-2506

1. Sample Identification

The sample identifications are listed in the following table:

SOTA Environmental Sample ID	APCL Sample ID
TB-11	02-02506-6
MW-11-4	02-02506-5
MW-11-3	02-02506-4
MW-11-2	02-02506-3
MW-11-1	02-02506-2
ER-11	02-02506-1

2. Analytical Methodology

Samples are analyzed by EPA methods

524.2 (Volatile Organic Compounds),
7196 (Chromium (VI)),
E314 (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,

for

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

Applied P & Ch Laboratory

APCL

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 ENVR. TECH INC. Contact: MIKE SAYRE Tel #: 858-485-8100 Fax #: 858-485-0812

Address: 16835 WEST BERNARDO DRIVE #212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SOTA

Project Name/Code JPL Job #00HW019 P.O. #

Project Address PASADENA, CALIFORNIA APCL Quotation #

Due Date: ☒regular ☐rush: ___ days ___ hours Sampled by: JNT / TAM

Analysis Items

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOC's (524.2)	TOT Cr (200.8)	Cr VI (7196)	PERCHLORATE (314.0)	Remarks
TB-11	TRIP BLANK	4/19/02	0948	WATER	HCl	2	X				LEVEL IV
MW-11-4	MW-11-4		1001		HCl	3	X				DATA PACKAGE
MW-11-4	MW-11-4		1001		—	1				X	
MW-11-3	MW-11-3		1036		HCl	9	X				MS/MSD
MW-11-3	MW-11-3		1036		HNO_3	2		X			MS/MSD
MW-11-3	MW-11-3		1101		—	2			X	X	MS/MSD
MW-11-2	MW-11-2		1128		HCl	3	X				
MW-11-2	MW-11-2		1128		HNO_3	1		X			
MW-11-2	MW-11-2		1128		—	1			X	X	
MW-11-1	MW-11-1		1155		HCl	3	X				
MW-11-1	MW-11-1		1155		HNO_3	1		X			
MW-11-1	MW-11-1		1155		—	1			X	X	
ER-11	~~ER-1~~ EQUIP. RINSATE		1143		HCl	3	X				
ER-11	EQUIP. RINSATE		1143		HNO_3	1		X			
ER-11	EQUIP. RINSATE		1143		—	1			X	X	

2506

QC Requirement: ☐Regular; ☐QA/QC Report; ☐WIP; ☐Raw Data; ☐Extended Raw Data ☐CLP; ☐ACE ☐AFCEE ☐NEESA ___ (E, C or D); ☐Other _____ (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 4/19/02 / 1345 Received by [signature] Date/Time 4/19/02 / 1345

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.

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

Sample Receiving Checklist

APCL ServiceID: **2506** Client Name/Project: Sota Environmental

1. Sample Arrival

Date/Time Received 4/19/02 1345 Date/Time Opened 4/19/02 1345 By (name): Kenny
Custody Transfer: ☑ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☐ APCL Empl: _____

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☐ Signed, dated? By: _____
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received 6
☑ 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 4.1 _____ _____ _____ _____ _____
(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: 5 days ☐ 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 Date: 19 Apr 2002 Time: 7:47 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

02-02506 (1288_ 347) (4858100_ 347)

04/19/02

Part 1: General Information

☐ Company Information	Name:	*SOTA Environmental*
	Address:	*16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127*
☐ Project Information	Project Description:	*JPL*
	Project #:	*00HW019*
☐ Billing Information	P.O. #:	
	Bill Address:	*16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127*
	Lab Project ID:	*2002_0002*
	Client Database #:	*01*
☐ Receiving Information	Who Received Sample?	*Kenny*
	Receiving Date/Time:	*04/19/02 1345*
	COC No.	
☐ Shipping Information	Shipping Company	*by Client*
	Packing Information:	*Cooler/Ice Chester*
	Cooler Temperature:	*4.1 °C*
☐ Container Information	Container Provider:	*Client*
☐ Sampling Information	Sampling Person:	*JNT/TAM*
	Sampling Company:	*Client*
☐ Turn-Around-Time Option:		*Rush 5 working day(s)*
☐ QC Option:		*NEESA D*
☐ Disposal Option:		*Not specify*

62813

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	TB-11	524.2	02-02506-6	W	V	C	40	2	G	041902	N	0	7	☐
2	MW-11-4	524.2	02-02506-5-α	W	V	C	40	3	G	041902	N	0	7	☐
	MW-11-4	Perch	02-02506-5-β	W	P		500	1	G	041902	N	0	7	☐
3	MW-11-3	524.2	02-02506-4-α	W	V	C	40	9	G	041902	N	0	7	☐
	MW-11-3	CRVI/Perch	02-02506-4-β	W	P		500	2	G	041902	N	0	7	☐
4	MW-11-2	524.2	02-02506-3-α	W	V	C	40	3	G	041902	N	0	7	☐
	MW-11-2	CRVI/Perch	02-02506-3-β	W	P		500	1	G	041902	N	0	7	☐
5	MW-11-1	524.2	02-02506-2-α	W	V	C	40	3	G	041902	N	0	7	☐
	MW-11-1	CRVI/Perch	02-02506-2-β	W	P		500	1	G	041902	N	0	7	☐
6	ER-11	524.2	02-02506-1-α	W	V	C	40	3	G	041902	N	0	7	☐
	ER-11	CRVI/Perch	02-02506-1-β	W	P		500	1	G	041902	N	0	7	☐

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/SM4500NO3* 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

628 4

1	TB-11	524.2	02-02506-6	W	X				☐
2	MW-11-4	524.2	02-02506-5-α	W	X				☐
	MW-11-4	Perch	02-02506-5-β	W			X		☐
3	MW-11-3	524.2	02-02506-4-α	W	X				☐
	MW-11-3	CRVI/Perch	02-02506-4-β	W		X	X		☐
4	MW-11-2	524.2	02-02506-3-α	W	X				☐
	MW-11-2	CRVI/Perch	02-02506-3-β	W		X	X		☐
5	MW-11-1	524.2	02-02506-2-α	W	X				☐
	MW-11-1	CRVI/Perch	02-02506-2-β	W		X	X		☐
6	ER-11	524.2	02-02506-1-α	W	X				☐
	ER-11	CRVI/Perch	02-02506-1-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	TB-11	524.2	02-02506-6	W									☐
2	MW-11-4	524.2	02-02506-5-α	W									☐
	MW-11-4	Perch	02-02506-5-β	W									☐
3	MW-11-3	524.2	02-02506-4-α	W									☐
	MW-11-3	CRVI/Perch	02-02506-4-β	W									☐
4	MW-11-2	524.2	02-02506-3-α	W									☐
	MW-11-2	CRVI/Perch	02-02506-3-β	W									☐
5	MW-11-1	524.2	02-02506-2-α	W									☐
	MW-11-1	CRVI/Perch	02-02506-2-β	W									☐
6	ER-11	524.2	02-02506-1-α	W									☐
	ER-11	CRVI/Perch	02-02506-1-β	W									☐

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	ALKALIN	SIM	
1	TB-11	524.2	02-02506-6	W			☐
2	MW-11-4	524.2	02-02506-5-α	W			☐
	MW-11-4	Perch	02-02506-5-β	W			☐
3	MW-11-3	524.2	02-02506-4-α	W			☐
	MW-11-3	CRVI/Perch	02-02506-4-β	W			☐
4	MW-11-2	524.2	02-02506-3-α	W			☐
	MW-11-2	CRVI/Perch	02-02506-3-β	W			☐
5	MW-11-1	524.2	02-02506-2-α	W			☐
	MW-11-1	CRVI/Perch	02-02506-2-β	W			☐
6	ER-11	524.2	02-02506-1-α	W			☐
	ER-11	CRVI/Perch	02-02506-1-β	W			☐

☐ Client"s Requirement: **PLEASE RUN MS/MSD ON SAMPLE #4**

☐ **IF ENOUGH SAMPLE**

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

628.5

Login By En-Yu Paul Kou

Check By

628.6

APCL

Applied Physics & Chemistry Laboratory

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

April 24, 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 02-2385 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 #: 801-022385
Collected by: MES/TAM
Collected on: 04/11/02

Received: 04/11/02
Extracted: N/A
Tested: 04/12-16/02
Reported: 04/17/02

Sample Description: Water from Pasadena, CA
Project Description: 00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result ER-12 02-02385-1	MW-12-1 02-02385-2	MW-12-2 02-02385-3	MW-12-3 02-02385-4
Dilution Factor				1	1	1	1
PERCHLORATE	E314	μg/L	4	<4	<4	<4	<4
VOLATILE ORGANIC COMPOUNDS							
Dilution Factor				1	1	1	1
CARBON TETRACHLORIDE	524.2	μg/L	0.5	<0.5	<0.5	0.4J	4.6
CHLOROFORM	524.2	μg/L	0.5	<0.5	<0.5	<0.5	2.3
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
METHYLENE CHLORIDE	524.2	μg/L	1	0.5J	0.5J	0.5J	0.5J
TETRACHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	0.3J
112TRICHLORO-122TRIFLUOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result MW-12-4 02-02385-5	MW-12-5 02-02385-6	MW-12-3D 02-02385-7	TB-12 02-02385-8
Dilution Factor				1	1	1	1
PERCHLORATE	E314	μg/L	4	<4	<4	<4	-
VOLATILE ORGANIC COMPOUNDS							
Dilution Factor				1	1	1	1
CARBON TETRACHLORIDE	524.2	μg/L	0.5	3.5	0.8	2.9	<0.5
CHLOROFORM	524.2	μg/L	0.5	1.2	0.3J	1.9	<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
METHYLENE CHLORIDE	524.2	μg/L	1	0.5J	0.4J	0.5J	0.9J
TETRACHLOROETHENE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROETHENE	524.2	μg/L	0.5	0.6	<0.5	<0.5	<0.5
112TRICHLORO-122TRIFLUOROETHANE	524.2	μg/L	0.5	<0.5	<0.5	<0.5	<0.5

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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result ER-12 02-02385-1	MW-12-1 02-02385-2
CHROMIUM (VI)	7196	mg/L	0.01	<0.01	<0.01

Component Analyzed	Method	Unit	PQL	Analysis Result MW-12-2 02-02385-3	MW-12-3 02-02385-4	MW-12-3D 02-02385-7
CHROMIUM (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01

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

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

Case Narrative

Project: JPL/Pasadena, CA/00HW019

For SOTA Environmental

APCL Service No: 02-2385

1. Sample Identification

The sample identifications are listed in the following table:

SOTA Environmental Sample ID	APCL Sample ID
MW-12-5	02-02385-6
MW-12-4	02-02385-5
ER-12	02-02385-1
MW-12-3	02-02385-4
MW-12-3D	02-02385-7
TB-12	02-02385-8
MW-12-2	02-02385-3
MW-12-1	02-02385-2

2. Analytical Methodology

Samples are analyzed by EPA methods

524.2 (Volatile Organic Compounds),
7196 (Chromium (VI)),
E314 (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

(1) SW8260B:

Methylene Chloride was detected in the Method Blank in the amount of 1.9 μg/L, exceeding 1 μg/L reporting limit. However only traces of Methylene Chloride in the amount of 0.5-0.9 μg/L were detected in the field samples, due to lab contamination.

"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

Applied P & Ch Laboratory

APCL

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

Chain of Custody

Please Print in pen

Client: SOTA ENVI. TECH INC Contact: MIKE SAYRE Tel #: 858-485-8100 Fax #: 858-485-0812

Address: 16835 WEST BERNARDO DR. STE 212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SOTA

Project Name/Code JPL Job # 00HW019 P.O. #

Project Address PASADENA CALIFORNIA APCL Quotation #

Due Date: ☒ regular ☐ rush: ___ days ___ hours Sampled by: MES/TAM

Analysis Items

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOC's (524.2)	PERCHLORATE	TOT Cr	Cr (VI) 7196									Remarks
MW-12-5	MW-12-5	4-11-02	1057	WATER	HCl	3	X												LEVEL IV
MW-12-5	MW-12-5		1057		—	1		X											DATA PACKAGE
MW-12-4	MW-12-4		1125		HCl	3	X												
MW-12-4	MW-12-4		1125		—	1		X											
ER-12	EQUIP. RINSATE		1210		HCl	3	X												
ER-12	EQUIP. RINSATE		1210		HNO_3	1			X										
ER-12	EQUIP. RINSATE		1210		—	1		X		X									
MW-12-3	MW-12-3		1157		HCl	3	X												
MW-12-3	MW-12-3		1157		HNO_3	1			X										
MW-12-3	MW-12-3		1157		—	1		X		X									
MW-12-3D	MW-12-3 DUPLICATES		1157		HCl	3	X												
MW-12-3D	MW-12-3 DUPLICATES		1219		HNO_3	1			X										
MW-12-3D	MW-12-3 DUPLICATES		1219		—	1		X		X									
TB-12	TRIP BLANK		1015		HCl	2	X												

2385

White – With report
Yellow – Lab copy
Pink – Originator

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (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 4/11/02 / 1537 Received by [signature] Date/Time 4/11/02 / 3:37

Relinquished by [signature] Date/Time 4/11/02 / 1710 Received by [signature] Date/Time 4/11/02 / 1710

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, Dec. 20, 1994.

Root-file:[CUST.DATA.LAB]CHAIN_ROOT.TEX File:[CUST.DATA.LAB]CHAIN4.TEX

Applied P & Ch Laboratory

APCL

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

Chain of Custody

Please Print in pen

Client: SOTA ENV. TECH INC Contact: MIKE SAYRE Tel #: 858-485-8100 Fax #: 858-485-0812

Address: 16835 WEST BERNARDO DR. STE 212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SOTA

Project Name/Code JPL Job # 00HW019 P.O. #

Project Address PASADENA CALIFORNIA APCL Quotation #

Due Date: ☒ regular ☐ rush: ____ days ____ hours Sampled by: MES/TAM

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	VOCs (524.2)	PERCHLORATE	TOT Cr	Cr (VI) 7196	Remarks
MW-12-2	MW-12-2	4/11/02	1407	WATER	HCl	3	X				LEVEL IV
MW-12-2	MW-12-2		1407		HNO_3	1			X		DATA PACKAGE
MW-12-2	MW-12-2		1407		—	1		X		X	
MW-12-1	MW-12-1		1428		HCl	3	X				
MW-12-1	MW-12-1		1428		HNO_3	1			X		
MW-12-1	MW-12-1		1428		—	1		X		X	

2385

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (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 4/11/02 1537 Received by [signature] Date/Time 4/11/02 1537

Relinquished by [signature] Date/Time 4/11/02 1710 Received by [signature] Date/Time 4/11/02 1710

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.

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

Sample Receiving Checklist

APCL ServiceID: 2385 Client Name/Project: Sota Environmental

1. Sample Arrival

Date/Time Received 4/11/02 1710 Date/Time Opened 4/11/02 1710 By (name): Kay

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

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 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^{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: 5 day ☐ 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 Date: 11 Apr 2002 Time: 8:15 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

02-02385 (1288_ 341) (4858100_ 341)

04/12/02

Part 1: General Information

☐ Company Information	Name:	*SOTA Environmental*
	Address:	*16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127*
☐ Project Information	Project Description:	*JPL*
	Project #:	*00HW019*
☐ Billing Information	P.O. #:	
	Bill Address:	*16835 W. Bernardo Dr, Ste. 212 ,San Diego ,CA 92127*
	Lab Project ID:	*2002_0002*
	Client Database #:	*01*
☐ Receiving Information	Who Received Sample?	*Kenny*
	Receiving Date/Time:	*04/11/02 1710*
	COC No.	
☐ Shipping Information	Shipping Company	*APCL pick up*
	Packing Information:	*Cooler/Ice Chester*
	Cooler Temperature:	*2.6 °C*
☐ Container Information	Container Provider:	*Client*
☐ Sampling Information	Sampling Person:	*MES/TAM*
	Sampling Company:	*Client*
☐ Turn-Around-Time Option:		*Rush 5 working day(s)*
☐ QC Option:		*NEESA D*
☐ Disposal Option:		*Not specify*

60303

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-12-5	524.2	02-02385-6-α	W	V	C	40	3	G	041102	N	0	7	☐
	MW-12-5	Perch	02-02385-6-β	W	P		500	1	G	041102	N	0	7	☐
2	MW-12-4	524.2	02-02385-5-α	W	V	C	40	3	G	041102	N	0	7	☐
	MW-12-4	Perch	02-02385-5-β	W	P		500	1	G	041102	N	0	7	☐
3	ER-12	524.2	02-02385-1-α	W	V	C	40	3	G	041102	N	0	7	☐
	ER-12	CRVI/Perch	02-02385-1-β	W	P		500	1	G	041102	N	0	7	☐
4	MW-12-3	524.2	02-02385-4-α	W	V	C	40	3	G	041102	N	0	7	☐
	MW-12-3	CRVI/Perch	02-02385-4-β	W	P		500	1	G	041102	N	0	7	☐
5	MW-12-3D	524.2	02-02385-7-α	W	V	C	40	3	G	041102	N	0	7	☐
	MW-12-3D	CRVI/Perch	02-02385-7-β	W	P		500	1	G	041102	N	0	7	☐
6	TB-12	524.2	02-02385-8	W	V	C	40	2	G	041102	N	0	7	☐
7	MW-12-2	524.2	02-02385-3-α	W	V	C	40	3	G	041102	N	0	7	☐
	MW-12-2	CRVI/Perch	02-02385-3-β	W	P		500	1	G	041102	N	0	7	☐
8	MW-12-1	524.2	02-02385-2-α	W	V	C	40	3	G	041102	N	0	7	☐
	MW-12-1	CRVI/Perch	02-02385-2-β	W	P		500	1	G	041102	N	0	7	☐

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

60034

☐ *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-12-5	524.2	02-02385-6-α	W	X								☐
	MW-12-5	Perch	02-02385-6-β	W			X						☐
2	MW-12-4	524.2	02-02385-5-α	W	X								☐
	MW-12-4	Perch	02-02385-5-β	W			X						☐
3	ER-12	524.2	02-02385-1-α	W	X								☐
	ER-12	CRVI/Perch	02-02385-1-β	W		X	X						☐
4	MW-12-3	524.2	02-02385-4-α	W	X								☐
	MW-12-3	CRVI/Perch	02-02385-4-β	W		X	X						☐
5	MW-12-3D	524.2	02-02385-7-α	W	X								☐
	MW-12-3D	CRVI/Perch	02-02385-7-β	W		X	X						☐
6	TB-12	524.2	02-02385-8	W	X								☐
7	MW-12-2	524.2	02-02385-3-α	W	X								☐
	MW-12-2	CRVI/Perch	02-02385-3-β	W		X	X						☐
8	MW-12-1	524.2	02-02385-2-α	W	X								☐
	MW-12-1	CRVI/Perch	02-02385-2-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-12-5	524.2	02-02385-6-α	W									☐
	MW-12-5	Perch	02-02385-6-β	W									☐
2	MW-12-4	524.2	02-02385-5-α	W									☐
	MW-12-4	Perch	02-02385-5-β	W									☐
3	ER-12	524.2	02-02385-1-α	W									☐
	ER-12	CRVI/Perch	02-02385-1-β	W									☐
4	MW-12-3	524.2	02-02385-4-α	W									☐
	MW-12-3	CRVI/Perch	02-02385-4-β	W									☐
5	MW-12-3D	524.2	02-02385-7-α	W									☐
	MW-12-3D	CRVI/Perch	02-02385-7-β	W									☐
6	TB-12	524.2	02-02385-8	W									☐
7	MW-12-2	524.2	02-02385-3-α	W									☐
	MW-12-2	CRVI/Perch	02-02385-3-β	W									☐
8	MW-12-1	524.2	02-02385-2-α	W									☐
	MW-12-1	CRVI/Perch	02-02385-2-β	W									☐

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	ALKALIN	SIM	
1	MW-12-5	524.2	02-02385-6-α	W			☐
	MW-12-5	Perch	02-02385-6-β	W			☐
2	MW-12-4	524.2	02-02385-5-α	W			☐
	MW-12-4	Perch	02-02385-5-β	W			☐

60305

3	ER-12	524.2	02-02385-1-α	W	☐
	ER-12	CRVI/Perch	02-02385-1-β	W	☐
4	MW-12-3	524.2	02-02385-4-α	W	☐
	MW-12-3	CRVI/Perch	02-02385-4-β	W	☐
5	MW-12-3D	524.2	02-02385-7-α	W	☐
	MW-12-3D	CRVI/Perch	02-02385-7-β	W	☐
6	TB-12	524.2	02-02385-8	W	☐
7	MW-12-2	524.2	02-02385-3-α	W	☐
	MW-12-2	CRVI/Perch	02-02385-3-β	W	☐
8	MW-12-1	524.2	02-02385-2-α	W	☐
	MW-12-1	CRVI/Perch	02-02385-2-β	W	☐

☐ Client's Requirement: **PLEASE RUN MS/MSD ON SAMPLE #**

☐ **IF ENOUGH SAMPLE**

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

Login By En-Yu Paul Kou

Check By MC

60316