

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 #: 801-015020

Collected by: MES/JNT

Collected on: 07/31/01

Received: 07/31/01

Extracted: N/A

Tested: 08/01-06/01

Reported: 08/10/01

Sample Description: Water from Pasadena, CA

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-23 01-05020-1	MW-20-5 01-05020-2	MW-23-5 01-05020-3
Perchlorate	E314	µg/L	4	<4	-	<4
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	-

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-23-4 01-05020-4	MW-23-3 01-05020-5	MW-23-2 01-05020-6	MW-23-1 01-05020-7
Perchlorate	E314	µg/L	4	<4	<4	<4	<4
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	<0.01

Component Analyzed	Method	Unit	PQL	Analysis Result	
				ER-23	MW-23-3
				01-05020-1	01-05020-5
Volatile Organic Compounds					
Dilution Factor				1	1
Bromodichloromethane	524.2	µg/L	0.5	0.4J	-
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	0.3J	<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
Tetrachloroethene	524.2	µg/L	0.5	<0.5	<0.5
Trichloroethene	524.2	µg/L	0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-23-2 01-05020-6	MW-23-1 01-05020-7	Trip Blank 01-05020-8
Volatile Organic Compounds						
Dilution Factor				1	1	1
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	0.6	<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	0.4J	<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	-	-	2

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-23-2 01-05020-6	MW-23-1 01-05020-7	Trip Blank 01-05020-8
Tetrachloroethene	524.2	µg/L	0.5	0.6	0.9	<0.5
1,2,3-Trichlorobenzene	524.2	µg/L	0.5	1.2	-	-
Trichloroethene	524.2	µg/L	0.5	0.3J	1.9	<0.5
1,1,2-Trichlorotrifluoroethane	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

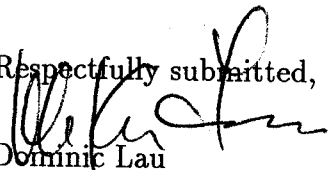
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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

Respectfully submitted,


Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

Page 1 of 1

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Applied P & Ch Laboratory

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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

APCL Analytical Report

Service ID #: 801-015003

Received: 07/30/01

Collected by: MES/JNT

Extracted: N/A

Collected on: 07/30/01

Tested: 07/30-08/13/01

Reported: 08/14/01

Sample Description: Water from Pasadena, CA

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result			
				ER-14 01-05003-1	MW-14-1 01-05003-2	MW-14-5 01-05003-3	MW-14-4 01-05003-4
Perchlorate	E314	µg/L	4	<4	<4	<4	<4
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	-	<0.01
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Bromodichloromethane	524.2	µg/L	0.5	0.4J	-	-	-
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	0.3J	<0.5	<0.5	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	<0.5	0.7	<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	-	1J	-	1
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	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-14-3 01-05003-5	MW-14-2 01-05003-6	MW-14-2D 01-05003-7	Trip Blank 01-05003-8
Perchlorate	E314	µg/L	4	<4	<4	<4	-
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	-
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	0.6	0.6	0.6	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	0.4J	0.4J	0.5J	<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	2	2	2.1	2.3

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-14-3 01-05003-5	MW-14-2 01-05003-6	MW-14-2D 01-05003-7	Trip Blank 01-05003-8
Tetrachloroethene	524.2	µg/L	0.5	0.7	0.8	0.8	<0.5
1,2,3-Trichlorobenzene	524.2	µg/L	0.5	1.3	1.2	0.9	-
Trichloroethene	524.2	µg/L	0.5	1.1	2.7	3.4	<0.5
1,1,2-Trichlorotrifluoroethane	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

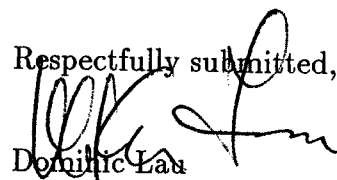
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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

Please Print in new Page 1 of 1

Bill to: 507A

Analysis Items					

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Yellow - Lab copy

Pink - Originator

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Samples will be discarded 45 days after samples are received.

Temperature: ☒ Room ☐ Cold (_____)

Date/Time 7/30/21 11:06

Date/Time /

Contractors 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 contract are not followed.

the terms of the project have been broken.

Applied P & Ch Laboratory

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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

APCL Analytical Report

Service ID #: 801-014964

Received: 07/27/01

Collected by: MES/JNT

Extracted: N/A

Collected on: 07/27/01

Tested: 07/27-31/01

Reported: 08/06/01

Sample Description: Water from Pasadena, CA

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result	
				ER-4	MW-4-1
				01-04964-1	01-04964-2
Perchlorate	E314	µg/L	4	< 4	< 4
Volatile Organic Compounds					
Dilution Factor				1	1
Bromodichloromethane	524.2	µg/L	0.5	0.5J	-
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
Tetrachloroethene	524.2	µg/L	0.5	<0.5	<0.5
Trichloroethene	524.2	µg/L	0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-4-3	MW-4-2	Trip Blank
				01-04964-5	01-04964-6	01-04964-7
Perchlorate	E314	µg/L	4	< 4	20	-
Volatile Organic Compounds						
Dilution Factor				1	1	1
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	0.7	<0.5
Chloroform	524.2	µg/L	0.5	<0.5	1.0	<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
Ethylbenzene	524.2	µg/L	0.5	1.8	-	-
Methylene chloride	524.2	µg/L	1	-	-	2
Styrene	524.2	µg/L	0.5	0.3J	-	-
Tetrachloroethene	524.2	µg/L	0.5	<0.5	1.1	<0.5
Trichloroethene	524.2	µg/L	0.5	<0.5	1.6	<0.5
Trichlorofluoromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-4 01-04964-1	MW-4-1 01-04964-2	MW-4-5 01-04964-3
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01

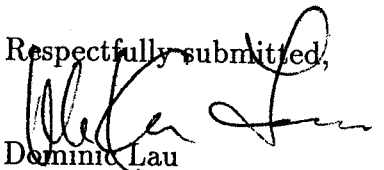
Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-4-4 01-04964-4	MW-4-3 01-04964-5	MW-4-2 01-04964-6
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01

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

Please Print in pen Page 1 of 1

Tel #: 858-485-8100 Fax #: 858-485-2917

Bill to:	507A	zip code:	1461
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Analysis	Items
1. Analysis	1. Items

APCL Quotation #

White - With report
Yellow - Lab copy
Pink - Originator

Remarks

EPA LEVEL IV (D)
Q_A / Q_C

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

Temperature: ☐ Room ☐ Cold (_____°C)

Received by Red Date/Time 7/29/01 / 1332

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

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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

APCL Analytical Report

Service ID #: 801-014946

Received: 07/26/01

Collected by: MES/JNT

Extracted: N/A

Collected on: 07/26/01

Tested: 07/26-30/01

Reported: 08/01/01

Sample Description: Water from Pasadena, CA

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result			
				ER-24 01-04946-1	Field Blank 01-04946-2	MW-24-4 01-04946-3	MW-24-3 01-04946-4
Perchlorate	E314	µg/L	4	<4	<4	-	<4
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Benzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromochloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromodichloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromoform	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
n-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
sec-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
tert-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chlorodibromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chloroethane	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
Chloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
2-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
4-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dibromo-3-chloropropane (DB)	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dibromoethane (EDB)	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Dibromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,3-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,4-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Dichlorodifluoromethane	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
cis-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
trans-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				ER-24	Field Blank	MW-24-4	MW-24-3
				01-04946-1	01-04946-2	01-04946-3	01-04946-4
1,2-Dichloroethene (Total)	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,3-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
2,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
cis-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
trans-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Ethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Hexachlorobutadiene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Isopropylbenzene (Cumene)	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
p-Isopropyltoluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Methylene chloride	524.2	µg/L	1	<1	<1	-	<1
Methyl-t-Butyl ether (MTBE)	524.2	µg/L	1	<1	<1	-	<1
Naphthalene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
n-Propylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Styrene	524.2	µg/L	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
1,1,2,2-Tetrachloroethane	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
Toluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2,3-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2,4-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1,1-Trichloroethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1,2-Trichloroethane	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
Trichlorofluoromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2,3-Trichloropropane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	1	<1	<1	-	<1
1,2,4-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,3,5-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Vinyl chloride	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
o-Xylene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
m/p-Xylene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-24-3D 01-04946-5	MW-24-2 01-04946-6	MW-24-1 01-04946-7	Trip Blank 01-04946-8
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	-
Dilution Factor				1	10	10	1
Perchlorate	E314	µg/L	4	<4	420	440	-
Volatile Organic Compounds							
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
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	15.2	6.5	<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	<0.5	6.4	2.5	<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 (DB)	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	0.4J	<0.5	<0.5
1,1-Dichloroethene	524.2	µg/L	0.5	<0.5	0.8	<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-Dichloroethene (Total)	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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-24-3D 01-04946-5	MW-24-2 01-04946-6	MW-24-1 01-04946-7	Trip Blank 01-04946-8
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 (Cumene)	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	1	<1	<1	<1	<1
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	524.2	µg/L	0.5	<0.5	0.5	0.3J	<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	524.2	µg/L	0.5	<0.5	2.4	2.9	<0.5
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
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	1	<1	<1	<1	<1
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

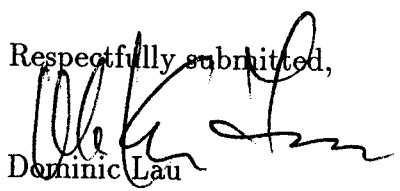
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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

APCL

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

Please Print in pen

Page 1 of 1

Client: **SOTA ENVIRONMENTAL TECH** Contact: **PAUL JEEVES** Tel #: **858-485-8100** Fax #: **858-485-0812**
Address: **16835 W BERNARDO DR. #212** City: **SAN DIEGO** State: **CA** Zip code: **92127**
Bill to: **SOTA**

Project Name/Code: **JPL** Job # **004W019** P.O. #
Project Address: **PASADENA, CA** APCL Quotation #
Due Date: ☐ Regular ☐ Rush: ___ days ___ hours Sampled by: **MES/JNT**

Field Sample ID No.	Sample Description	Date Collected	Sample Matrix	Preservation	# of Containers	Analysis Items	Remarks
TRIP BLANK		7/26/01	H ₂ O	HCl	2	VOL (524.2) PERCHLORATE (314) TOTAL C (200.8) C II (1196) MS/MSD	
ER-24		7/26/01	H ₂ O	PER LAB	5		
MW-24-4		7/26/01	H ₂ O	PER LAB	2		
MW-24-3		7/26/01	H ₂ O	PER LAB	5		
MW-24-3D		7/26/01	H ₂ O	PER LAB	5		
MW-24-2		7/26/01	H ₂ O	PER LAB	10		
MW-24-1		7/26/01	H ₂ O	PER LAB	5		
FIELD BLANK		7/26/01	H ₂ O	PER LAB	5		
4946							
							EPA LEVEL IV
							QA/QC

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

Sample Disposal: ☐ Return ☐ Disposed 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 # _____

Relinquished by Date/Time 7/26/01 11:00 Received by Temperature: ☐ Room ☐ Cold (___ °C)

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

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

APCL Analytical Report

Service ID #: 801-014919

Received: 07/25/01

Collected by: MES/JNT

Extracted: N/A

Collected on: 07/25/01

Tested: 07/26-31/01

Reported: 08/06/01

Sample Description: Water from Pasadena, CA

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-12	MW-12-1	MW-12-5
				01-04919-1	01-04919-2	01-04919-3
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	1.4
Chloroform	524.2	µg/L	0.5	<0.5	<0.5	0.4J
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
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-12-4	MW-12-3	MW-12-2	Trip Blank
				01-04919-4	01-04919-5	01-04919-6	01-04919-7
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	10.6	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	1	1.5	<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
Methylene chloride	524.2	µg/L	1	-	-	-	2
Tetrachloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	µg/L	0.5	0.4J	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	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	MW-12-1	MW-12-3	MW-12-2
				01-04919-1	01-04919-2	01-04919-5	01-04919-6
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

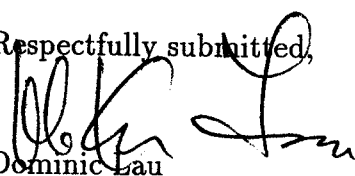
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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

Please Print in pen Page 1 of 1

Fax #: 858-485-0812

Zip code: 92127

	Analysis Items
1.	Identify the problem or issue being addressed.
2.	Determine the objectives and scope of the analysis.
3.	Gather relevant data and information.
4.	Analyze the data using appropriate methods.
5.	Interpret the results and draw conclusions.
6.	Communicate findings effectively.
7.	Evaluate the impact and implications of the analysis.
8.	Reflect on the process and learn from experience.

APCL Quotation #

Sampled by: MESS/JNT

Pink – Originator

[illegible]

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 arrival and receipt.*

Sample Conditions: ☐ Intact; ☐ Broken. Cooler Seal: ☐ Intact; ☐ Broken; ☐ None. Tax # ☐ 0013 (☐ 0014) Temperature: ☐ Room ☐ Cold

Relinquished by her Date/Time 7/25/01 Received by [Signature]
 R-1m: 7/25/01 08

Relinquished
by [Signature] Date/Time 11/11/00
Received by [Signature] Date/Time 11/11/00
D-4, Inc.

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

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

APCL Analytical Report

Service ID #: 801-014824

Received: 07/20/01

Collected by: MES/JNT

Extracted: N/A

Collected on: 07/20/01

Tested: 07/20-26/01

Reported: 08/01/01

Sample Description: Water from Pasadena, CA

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-11 01-04824-1	MW-11-1 01-04824-2	MW-11-4 01-04824-3
Perchlorate	E314	µg/L	4	<4	<4	<4
Volatile Organic Compounds						
Dilution Factor				1	1	1
Benzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Bromobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Bromochloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Bromodichloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Bromoform	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Bromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
n-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Chlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Chloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	<0.5	<0.5	0.6
Chloromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-Dibromo-3-chloropropane (DB)	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane (EDB)	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Dibromomethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Dichlorodifluoromethane	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
cis-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2-Dichloroethene (Total)	524.2	µg/L	0.5	<0.5	<0.5	<0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-11	MW-11-1	MW-11-4
				01-04824-1	01-04824-2	01-04824-3
1,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Ethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Isopropylbenzene (Cumene)	524.2	µg/L	0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	µg/L	1	<1	<1	<1
Methyl-t-Butyl ether (MTBE)	524.2	µg/L	1	<1	<1	<1
Naphthalene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
n-Propylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Styrene	524.2	µg/L	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
1,1,2,2-Tetrachloroethane	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
Toluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	µg/L	0.5	<0.5	1.2	<0.5
Trichlorofluoromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	1	<1	<1	<1
1,2,4-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Vinyl chloride	524.2	µg/L	0.5	<0.5	<0.5	<0.5
o-Xylene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
m/p-Xylene	524.2	µg/L	0.5	<0.5	<0.5	<0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-11-3 01-04824-4	MW-11-2 01-04824-5	Trip Blank 01-04824-6
Perchlorate	E314	µg/L	4	< 4	< 4	-
Volatile Organic Compounds						
Dilution Factor				1	1	1
Benzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Bromobenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Bromoform	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Bromomethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
tert-Butylbenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Carbon tetrachloride	524.2	µg/L	0.5	0.4J	0.7	< 0.5
Chlorobenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Chlorodibromomethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Chloroethane	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
Chloromethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2-Dibromo-3-chloropropane (DB)	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2-Dibromoethane (EDB)	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,3-Dichlorobenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	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
cis-1,2-Dichloroethene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethene (Total)	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloropropane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,3-Dichloropropane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
2,2-Dichloropropane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,1-Dichloropropene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
cis-1,3-Dichloropropene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
trans-1,3-Dichloropropene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Ethylbenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Hexachlorobutadiene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Isopropylbenzene (Cumene)	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5

APCL Analytical Report

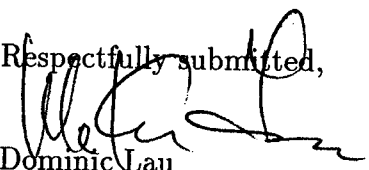
Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-11-3 01-04824-4	MW-11-2 01-04824-5	Trip Blank 01-04824-6
p-Isopropyltoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	µg/L	1	<1	<1	2.1
Methyl-t-Butyl ether (MTBE)	524.2	µg/L	1	<1	<1	<1
Naphthalene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
n-Propylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Styrene	524.2	µg/L	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
1,1,2,2-Tetrachloroethane	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
Toluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Trichloroethene	524.2	µg/L	0.5	<0.5	0.4J	<0.5
Trichlorofluoromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	1	<1	<1	<1
1,2,4-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Vinyl chloride	524.2	µg/L	0.5	<0.5	<0.5	<0.5
o-Xylene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
m/p-Xylene	524.2	µg/L	0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result			
				ER-11 01-04824-1	MW-11-1 01-04824-2	MW-11-3 01-04824-4	MW-11-2 01-04824-5
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



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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

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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

APCL Analytical Report

Service ID #: 801-014794

Received: 07/19/01

Collected by: MES/JNT

Extracted: N/A

Collected on: 07/19/01

Tested: 07/20-23/01

Reported: 07/25/01

Sample Description: Water from Pasadena, CA

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-22	MW-8	MW-22-1
				01-04794-1	01-04794-2	01-04794-3
Perchlorate	E314	µg/L	4	< 4	13	< 4
Volatile Organic Compounds						
Dilution Factor				1	1	1
Benzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Bromobenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Bromochloromethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Bromodichloromethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Bromoform	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Bromomethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
n-Butylbenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
sec-Butylbenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
tert-Butylbenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Carbon tetrachloride	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Chlorodibromomethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Chloroethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Chloroform	524.2	µg/L	0.5	< 0.5	< 0.5	0.3J
Chloromethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
2-Chlorotoluene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
4-Chlorotoluene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2-Dibromo-3-chloropropane (DB)	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2-Dibromoethane (EDB)	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Dibromomethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2-Dichlorobenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,3-Dichlorobenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,4-Dichlorobenzene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
Dichlorodifluoromethane	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	0.3J
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
cis-1,2-Dichloroethene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
trans-1,2-Dichloroethene	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5
1,2-Dichloroethene (Total)	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-22	MW-8	MW-22-1
				01-04794-1	01-04794-2	01-04794-3
1,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
2,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Ethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Isopropylbenzene (Cumene)	524.2	µg/L	0.5	<0.5	<0.5	<0.5
p-Isopropyltoluene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Methylene chloride	524.2	µg/L	1	<1	<1	<1
Methyl-t-Butyl ether (MTBE)	524.2	µg/L	1	<1	<1	<1
Naphthalene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
n-Propylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Styrene	524.2	µg/L	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
1,1,2,2-Tetrachloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Tetrachloroethene	524.2	µg/L	0.5	<0.5	<0.5	1.9
Toluene	524.2	µg/L	0.5	0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,4-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	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
Trichlorofluoromethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Vinyl chloride	524.2	µg/L	0.5	<0.5	<0.5	<0.5
o-Xylene	524.2	µg/L	0.5	<0.5	<0.5	<0.5
m/p-Xylene	524.2	µg/L	0.5	<0.5	<0.5	<0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-22-2 01-04794-4	MW-22-3 01-04794-5	MW-22-4 01-04794-6	Trip Blank 01-04794-7
Perchlorate	E314	µg/L	4	<4	<4	<4	-
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Benzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromochloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromodichloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromoform	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Bromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
n-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
sec-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
tert-Butylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chlorodibromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Chloroethane	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
Chloromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
2-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
4-Chlorotoluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dibromo-3-chloropropane (DB)	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dibromoethane (EDB)	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Dibromomethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,3-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,4-Dichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Dichlorodifluoromethane	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
cis-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
trans-1,2-Dichloroethene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichloroethene (Total)	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,3-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
2,2-Dichloropropane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
cis-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
trans-1,3-Dichloropropene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Ethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Hexachlorobutadiene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-22-2 01-04794-4	MW-22-3 01-04794-5	MW-22-4 01-04794-6	Trip Blank 01-04794-7
Isopropylbenzene (Cumene)	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
p-Isopropyltoluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Methylene chloride	524.2	µg/L	1	<1	<1	-	<1
Methyl-t-Butyl ether (MTBE)	524.2	µg/L	1	<1	<1	-	<1
Naphthalene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
n-Propylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Styrene	524.2	µg/L	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
1,1,2,2-Tetrachloroethane	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
Toluene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2,3-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2,4-Trichlorobenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1,1-Trichloroethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,1,2-Trichloroethane	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
Trichlorofluoromethane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2,3-Trichloropropane	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,2,4-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
1,3,5-Trimethylbenzene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
Vinyl chloride	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
o-Xylene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5
m/p-Xylene	524.2	µg/L	0.5	<0.5	<0.5	-	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result			
				ER-22 01-04794-1	MW-8 01-04794-2	MW-22-1 01-04794-3	MW-22-2 01-04794-4
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

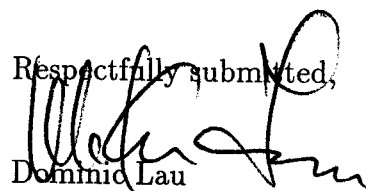
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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

APCL

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

Please Print in pen

Page 1 of 1

Client: **SOTA Environmental Tech.**

Contact: **PAUL JEFFERS**

Tel #: **858-485-8100** Fax #: **858-485-0812**

Address: **16835 W. BERNARDO DR. #212 City: SAN DIEGO**

State: **CA**

Zip code: **92127**

Bill to: **SOTA**

Project Name/Code **JPL**

Job # **004W019 P.O. #**

Project Address **PASADENA, CA**

APCL Quotation #

Due Date: ☐ regular ☐ rush: ___ days ___ hours

Sampled by: **MES/JNT**

Field Sample ID No.	Sample Description	Date Collected	Sample Matrix	Preservation	# of Containers	Analysis Items	Remarks
MW-22-4		7/19/01 1018	H ₂ O	PER LAB	1	VOLs (524.2)	
MW-22-3		7/19/01 1044	H ₂ O	PER LAB	4	PERCHLORATE (314)	
MW-22-2		7/19/01 1115	H ₂ O	PER LAB	5	Total Cr (200.8)	
MW-22-1		7/19/01 1200	H ₂ O	PER LAB	5	Cr VI (7196)	
TRIP BLANK		7/19/01 1000	H ₂ O	PER LAB	2	MS/MSD	
ER-22		7/19/01 1030	H ₂ O	PER LAB	5		
MW-8		7/19/01 1340	H ₂ O	PER LAB	10		
4794							

White - With report
Yellow - Lab copy
Pink - Originator

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NBESA (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 #

Relinquished by *[Signature]* Date/Time 7/19/01 / 1535 Received by *[Signature]* Date/Time 7/19/01 / 1535

Relinquished by *[Signature]* Date/Time / Received by /

APCL USE ONLY Service #

Note:

Clients understand that all terms described in the proposal, 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

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 #: 801-014770

Collected by: MES/JNT

Collected on: 07/18/01

Received: 07/18/01

Extracted: N/A

Tested: 07/20/01

Reported: 07/24/01

Sample Description: Water

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result			
				ER-19 01-04770-1	MW-19-5 01-04770-2	MW-19-4 01-04770-3	MW-19-1 01-04770-4
Perchlorate	314	µg/L	4	<4	<4	<4	<4
Volatile Organic Compounds							
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
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	0.4J	0.5J	2.4	<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 (DB)	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-Dichloroethene (Total)	524.2	µg/L	0.5	<0.5	<0.5	<0.5	<0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				ER-19	MW-19-5	MW-19-4	MW-19-1
				01-04770-1	01-04770-2	01-04770-3	01-04770-4
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 (Cumene)	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	1	0.9J	<1	<1	<1
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	524.2	µg/L	0.5	<0.5	1.1	<0.5	<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	524.2	µg/L	0.5	<0.5	0.4J	<0.5	<0.5
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
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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-19-3 01-04770-5	MW-19-2 01-04770-6	MW-19-2D 01-04770-7	Trip Blank 01-04770-8
Perchlorate	314	µg/L	4	<4	<4	<4	-
Volatile Organic Compounds							
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
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	0.5J	0.5J	1.1	<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 (DB)	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-Dichloroethene (Total)	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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-19-3 01-04770-5	MW-19-2 01-04770-6	MW-19-2D 01-04770-7	Trip Blank 01-04770-8
Isopropylbenzene (Cumene)	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	1	<1	<1	<1	0.8J
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	524.2	µg/L	0.5	1.8	0.5J	0.8	<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	524.2	µg/L	0.5	0.9	1.2	1.6	<0.5
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
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

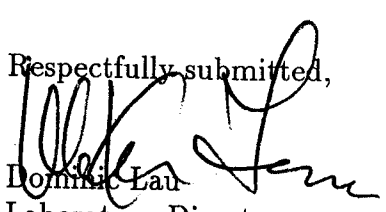
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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