

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 #: 801-016744

Collected by:

Collected on: 10/30/01

Received: 10/30/01

Extracted: N/A

Tested: 10/31-11/06/01

Reported: 11/20/01

Sample Description: Water

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-5 01-06744-1	MW-6 01-06744-2	MW-8 01-06744-3
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01
Dilution Factor				1	1	1
Perchlorate	E314	µg/L	4	<4	<4	17.9
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	0.7	<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	1.6	<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-5-D 01-06744-4	MW-6-D 01-06744-5	TB-8-5-6 01-06744-6
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	-
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	0.8	<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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-5-D 01-06744-4	MW-6-D 01-06744-5	TB-8-5-6 01-06744-6
Methylene chloride	524.2	µg/L	1	-	-	2
Tetrachloroethene	524.2	µg/L	0.5	<0.5	1.4	<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

PQL: Practical Quantitation Limit.

MDL: Method Detection Limit.

CRDL: Contract Required Detection Limit

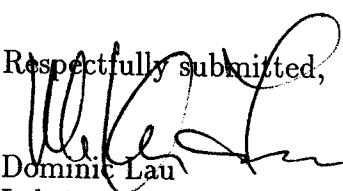
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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

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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 #: 801-016733

Collected by:

Collected on: 10/29/01

Received: 10/29/01

Extracted: N/A

Tested: 10/30-11/06/01

Reported: 11/22/01

Sample Description: Water

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result	
				MW-10	MW-13
				01-06733-1	01-06733-2
Chromium (VI)	7196	mg/L	0.01	<0.01	0.028
Dilution Factor				1	10
Perchlorate	E314	µg/L	4	13.0	471
Volatile Organic Compounds					
Dilution Factor				1	1
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	3.5
Chloroform	524.2	µg/L	0.5	0.6	2.8
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	5.8	15.4
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-16	MW-10-D	TB-10-13-16
				01-06733-3	01-06733-4	01-06733-5
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	-
Dilution Factor				100	1	1
Perchlorate	E314	µg/L	4	1,860	12.8	-
Volatile Organic Compounds						
Dilution Factor				1	1	1
Carbon tetrachloride	524.2	µg/L	0.5	10.3	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	7.5	0.7	<0.5
1,1-Dichloroethane	524.2	µg/L	0.5	<0.5	0.5J	<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	0.8	<0.5	<0.5

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-16 01-06733-3	MW-10-D 01-06733-4	TB-10-13-16 01-06733-5
Methylene chloride	524.2	µg/L	1	-	-	3.6
Tetrachloroethene	524.2	µg/L	0.5	<0.5	0.5	<0.5
Trichloroethene	524.2	µg/L	0.5	2.3	5.7	<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

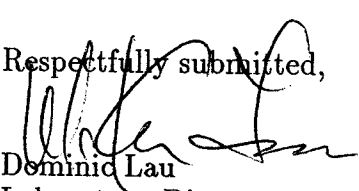
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Applied P & Ch Laboratory



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Please Print in pen Page 1 of 1

Bill to: SPMB		Analysis Items										White - With report Yellow - Lab copy Pink - Originator		
Project Name/Code JPL		Job # 0044019		P.O. #		524.2 U 200.8 7196 524.2 314 MSD								
Project Address		APCL Quotation #												
Due Date: ☒ regular ☐ rush: ___ days ___ hours		Sampled by:												

6733

APCL USE ONLY	Service #	Note:
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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.

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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 #: 801-016684

Collected by:

Collected on: 10/26/01

Received: 10/26/01

Extracted: N/A

Tested: 10/26-11/09/01

Reported: 11/20/01

Sample Description: Water

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result			
				ER-24 01-06684-1	MW-24-1 01-06684-2	MW-24-2 01-06684-3	MW-24-3 01-06684-4
Dilution Factor				1	10	10	1
Perchlorate	E314	µg/L	4	< 4	673	386	< 4

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-24 01-06684-1	MW-24-1 01-06684-2	MW-24-2 01-06684-3
Chromium (VI)	7196	mg/L	0.01	< 0.01	< 0.01	< 0.01
Volatile Organic Compounds						
Dilution Factor				1	1	1
Carbon tetrachloride	524.2	µg/L	0.5	< 0.5	13.8	8.6
Chloroform	524.2	µg/L	0.5	< 0.5	3.8	3.5
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	0.9
Tetrachloroethene	524.2	µg/L	0.5	< 0.5	0.6	< 0.5
Trichloroethene	524.2	µg/L	0.5	< 0.5	5.5	0.9
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	< 0.5	< 0.5	< 0.5

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-24-3 01-06684-4	MW-24-4 01-06684-5	TB-24 01-06684-6
Chromium (VI)	7196	mg/L	0.01	< 0.01	< 0.01	-
Volatile Organic Compounds						
Dilution Factor				1	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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-24-3 01-06684-4	MW-24-4 01-06684-5	TB-24 01-06684-6
Methylene chloride	524.2	µg/L	1	-	-	2
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

PQL: Practical Quantitation Limit.

MDL: Method Detection Limit.

CRDL: Contract Required Detection Limit

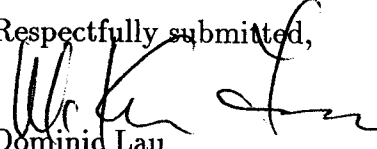
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SOTA Environmental

Attention: Yu Zeng

16835 W. Bernardo Dr, Ste. 212

San Diego CA 92127

Tel: (858) 485-8100 Fax: (858) 485-0812

Service ID #: 801-016675

Collected by:

Collected on: 10/25/01

Received: 10/25/01

Extracted: N/A

Tested: 10/26-11/06/01

Reported: 11/19/01

Sample Description: Water

Project Description: 00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-11 01-06675-1	MW-11-1 01-06675-2	MW-11-2 01-06675-3
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	0.5J
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-11-3 01-06675-4	MW-11-4 01-06675-5	TB-11 01-06675-6
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	0.7	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	0.5J	<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
Methylene chloride	524.2	µg/L	1	-	-	3.8
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

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APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				ER-11	MW-11-1	MW-11-2	MW-11-3
				01-06675-1	01-06675-2	01-06675-3	01-06675-4
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	<0.01

PQL: Practical Quantitation Limit.

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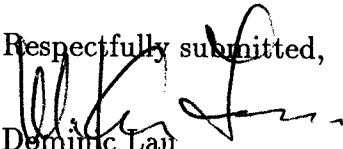
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Submitted to:

SOTA Environmental

Attention: Yu Zeng

16835 W. Bernardo Dr, Ste. 212

San Diego CA 92127

Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-016641

Collected by:

Collected on: 10/24/01

Received: 10/24/01

Extracted: N/A

Tested: 10/25-11/03/01

Reported: 11/09/01

Sample Description: Ground Water

Project Description: 00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result			
				ER-23 01-06641-1	MW-23-1 01-06641-2	MW-23-2 01-06641-3	MW-23-3 01-06641-4
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	<0.01
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	<0.5	<0.5
Chloroform	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
Tetrachloroethene	524.2	µg/L	0.5	<0.5	0.5J	<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-23-4 01-06641-5	MW-23-5 01-06641-6	MW-23-2D 01-06641-7	TB-23 01-06641-8
Chromium (VI)	7196	mg/L	0.01	<0.01	-	<0.01	-
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	-	-	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	-	-	0.4J	<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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-23-4 01-06641-5	MW-23-5 01-06641-6	MW-23-2D 01-06641-7	TB-23 01-06641-8
Methylene chloride	524.2	µg/L	1	-	-	-	2
Tetrachloroethene	524.2	µg/L	0.5	-	-	0.5J	< 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

PQL: Practical Quantitation Limit.

MDL: Method Detection Limit.

CRDL: Contract Required Detection Limit

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

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16835 W. Bernardo Dr, Ste. 212

San Diego CA 92127

Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-016615

Collected by:

Collected on: 10/23/01

Received: 10/23/01

Extracted: N/A

Tested: 10/24-11/02/01

Reported: 11/20/01

Sample Description: Water

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-12 01-06615-1	Field Blank 01-06615-2	MW-12-1 01-06615-3
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
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-12-2 01-06615-4	MW-12-3 01-06615-5	MW-12-4 01-06615-6
Dilution Factor				1	1	1
Perchlorate	E314	µg/L	4	<4	6.2	<4
Volatile Organic Compounds						
Dilution Factor				1	1	1
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	5.4	2.7
Chloroform	524.2	µg/L	0.5	<0.5	1.1	<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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-12-2	MW-12-3	MW-12-4
				01-06615-4	01-06615-5	01-06615-6
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-12-5	MW-12-2D	TB-12
				01-06615-7	01-06615-8	01-06615-9
Dilution Factor				1	1	1
Perchlorate	E314	µg/L	4	<4	<4	-

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-12-5	MW-12-2D	TB-12
				01-06615-7	01-06615-8	01-06615-9
Volatile Organic Compounds						
Dilution Factor				1	1	1
Carbon tetrachloride	524.2	µg/L	0.5	1.1	<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
Methylene chloride	524.2	µg/L	1	-	-	2
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	
				ER-12	MW-12-1
				01-06615-1	01-06615-3
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01

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		
				MW-12-2 01-06615-4	MW-12-3 01-06615-5	MW-12-2D 01-06615-8
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

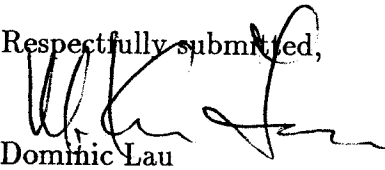
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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

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 #: 801-016590

Collected by:

Collected on: 10/22/01

Received: 10/22/01

Extracted: N/A

Tested: 10/23-11/02/01

Reported: 11/20/01

Sample Description: Water

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-14 01-06590-1	MW-14-1 01-06590-2	MW-14-2 01-06590-3
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	<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	1.5
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-14-3 01-06590-4	MW-14-4 01-06590-5	MW-14-5 01-06590-6	TB-14 01-06590-7
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	<0.5	<0.5	<0.5	<0.5
Chloroform	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
Methylene chloride	524.2	µg/L	1	-	0.9J	1	3.2
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
1,1,2-Trichlorotrifluoroethane	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-14	MW-14-1
				01-06590-1	01-06590-2
Chromium (VI)	7196	mg/L	0.01	< 0.01	< 0.01

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-14-2	MW-14-3	MW-14-4
				01-06590-3	01-06590-4	01-06590-5
Chromium (VI)	7196	mg/L	0.01	< 0.01	< 0.01	< 0.01

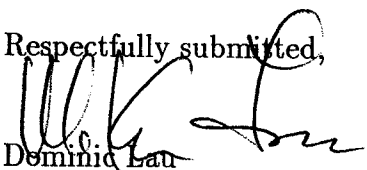
PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit

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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-14-2 01-06590-3	MW-14-3 01-06590-4	MW-14-4 01-06590-5
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

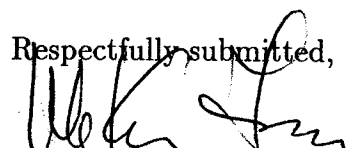
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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



Chain of Custody

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 Contact: PAUL JEFFERS Tel #: 858 485-8100 Fax #: 858 485-0812
Address: 16835 W. BERNARDO DR. #242 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SAME		Exp. Code: 1218	
Project Name/Code JPL	Job # DONNO19 P.O. #	Analysis Items	
Project Address	APCL Quotation #		
Due Date: ☒ regular ☐ rush: ___ days ___ hours	Sampled by:		

White - With report
 Yellow - Lab copy
 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 samples are received.**

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

Relinquished	by <i>[Signature]</i>	Date/Time	10/22/01 / 1830	Received	by <i>[Signature]</i>	Date/Time	10/22/01 / 1830
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

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 #: 801-016546

Collected by:

Collected on: 10/19/01

Received: 10/19/01

Extracted: N/A

Tested: 10/19-25/01

Reported: 11/01/01

Sample Description: Water

Project Description: 00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-22 01-06546-1	MW-22-1 01-06546-2	MW-22-2 01-06546-3
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	<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	1.9	<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-22-3 01-06546-4	MW-22-4 01-06546-5	TB-22 01-06546-6
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
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	-	-	2.2
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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-22 01-06546-1	MW-22-1 01-06546-2	MW-22-2 01-06546-3
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

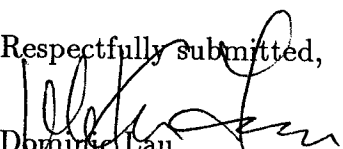
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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

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 #: 801-016548

Collected by:

Collected on: 10/18/01

Received: 10/19/01

Extracted: N/A

Tested: 10/19-26/01

Reported: 11/20/01

Sample Description: Water

Project Description: Job#00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result	
				ER-4	MW-4-1
				01-06548-1	01-06548-2
Dilution Factor				1	1
Perchlorate	E314	µg/L	4	< 4	< 4

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-4-2	MW-4-3	MW-4-1D
				01-06548-3	01-06548-4	01-06548-7
Dilution Factor				1	1	1
Perchlorate	E314	µg/L	4	27.0	< 4	< 4

Component Analyzed	Method	Unit	PQL	Analysis Result			
				ER-4	MW-4-1	MW-4-2	MW-4-3
				01-06548-1	01-06548-2	01-06548-3	01-06548-4
Chromium (VI)	7196	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Volatile Organic Compounds							
Dilution Factor				1	1	1	1
Carbon tetrachloride	524.2	µg/L	0.5	< 0.5	< 0.5	0.6	< 0.5
Chloroform	524.2	µg/L	0.5	< 0.5	< 0.5	0.9	< 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
Ethylbenzene	524.2	µg/L	0.5	-	-	-	0.9
Tetrachloroethene	524.2	µg/L	0.5	< 0.5	< 0.5	0.9	< 0.5
Trichloroethene	524.2	µg/L	0.5	< 0.5	< 0.5	1.8	< 0.5
1,1,2-Trichlorotrifluoroethane	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-4-4 01-06548-5	MW-4-5 01-06548-6	MW-4-1D 01-06548-7	TB-4 01-06548-8
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
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

PQL: Practical Quantitation Limit.

MDL: Method Detection Limit.

CRDL: Contract Required Detection Limit

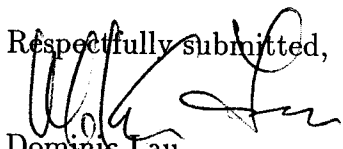
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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



Chain of Custody

Please Print in pen Page 1 of 1

Client: SOTA ENVIRONMENTAL Contact: PAUL JEFFERS Tel #: 858 485-8100 Fax #: 858 485-0812
Address: 116835 W. BERNARDO DR #212 City: SAN DIEGO State: CA Zip code: 92127

Bill to: SAME

Project Name/Code JPL

Job #004W019 P.O. #

Project Address

APCL Quotation #

Due Date: ☒ regular ☐ rush: _____ days _____ hours

Sampled by:

[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 samples are received

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

Relinquished	by	<i>Pat [Signature]</i>	Date/Time	10/19/01 / 1200	Received	by	<i>[Signature]</i>	Date/Time	10/19/01 / 1200
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

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 #: 801-016503

Collected by:

Collected on: 10/17/01

Received: 10/17/01

Extracted: N/A

Tested: 10/18-24/01

Reported: 10/30/01

Sample Description: Water

Project Description: 00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-20 01-06503-1	MW-20-1 01-06503-2	MW-20-2 01-06503-3
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01
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	2.6
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-20-3 01-06503-4	MW-20-4 01-06503-5	MW-20-5 01-06503-6	TB-20 01-06503-7
Chromium (VI)	7196	mg/L	0.01	<0.01	<0.01	<0.01	-
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	<0.5	<0.5	<0.5	<0.5
Chloroform	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
Methylene chloride	524.2	µg/L	1	-	-	-	2.0

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			
				MW-20-3	MW-20-4	MW-20-5	TB-20
				01-06503-4	01-06503-5	01-06503-6	01-06503-7
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

PQL: Practical Quantitation Limit.

MDL: Method Detection Limit.

CRDL: Contract Required Detection Limit

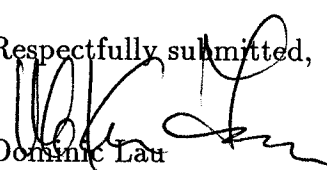
N.D.: Not Detected or less than the practical quantitation limit.

"-": 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

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 #: 801-016502

Collected by:

Collected on: 10/16/01

Received: 10/17/01

Extracted: N/A

Tested: 10/24/01

Reported: 11/06/01

Sample Description: Water

Project Description: 00HW019 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result		
				ER-21	MW-21-2	MW-21-3
				01-06502-1	01-06502-2	01-06502-3
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	0.8
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
Methyl-t-Butyl ether (MTBE)	524.2	µg/L	1	-	0.6J	-
Tetrachloroethene	524.2	µg/L	0.5	<0.5	0.6	1.3
Trichloroethene	524.2	µg/L	0.5	<0.5	<0.5	0.7
1,1,2-Trichlorotrifluoroethane	524.2	µg/L	0.5	<0.5	<0.5	<0.5

Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-21-4	MW-21-5	TB-21
				01-06502-4	01-06502-5	01-06502-6
Dilution Factor				1	1	1
Perchlorate	E314	µg/L	4	<4	<4	-
Volatile Organic Compounds						
Dilution Factor				1	1	1
Bromodichloromethane	524.2	µg/L	0.5	0.5J	0.4J	-
Carbon tetrachloride	524.2	µg/L	0.5	<0.5	<0.5	<0.5
Chloroform	524.2	µg/L	0.5	1.2	1.5	<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	1.1	1.6	-
1,2-Dichloroethene (Total)	524.2	µg/L	0.5	1.1	1.6	-

APCL Analytical Report

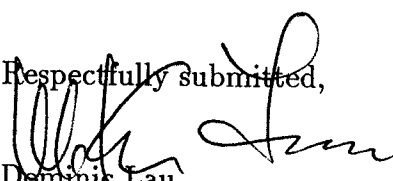
Component Analyzed	Method	Unit	PQL	Analysis Result		
				MW-21-4 01-06502-4	MW-21-5 01-06502-5	TB-21 01-06502-6
Methylene chloride	524.2	µg/L	1	-	-	2
Methyl-t-Butyl ether (MTBE)	524.2	µg/L	1	0.6J	0.6J	-
Tetrachloroethene	524.2	µg/L	0.5	4.5	7.8	<0.5
Trichloroethene	524.2	µg/L	0.5	0.6	0.5J	<0.5
1,1,2-Trichlorotrifluoroethane	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,

Dennis Lau
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Applied P & Ch Laboratory