



**ASSOCIATED LABORATORIES**  
806 North Batavia - Orange, California 92868 - 714/771-6900

**FAX 714/538-1209**

CLIENT Stetson Engineers Inc.

(10442)

LAB REQUEST 237900

ATTN: Ken Reich

861 Village Oaks

REPORTED 08/20/2009

Suite 100

Covina, CA 91724

RECEIVED 07/21/2009

PROJECT #2258

Lower SMR Watershed

SUBMITTER Client

## COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

### Order No.

1009734

1009735

### Client Sample Identification

#11044350 Sandia Creek

Laboratory Method Blank

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.  
Vice President

*NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.*

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**TESTING & CONSULTING**  
Chemical  
Microbiological  
Environmental

Order #: 1009734

Client Sample ID: #11044350 Sandia Creek

Matrix: WATER

Date Sampled: 07/21/2009

Time Sampled: 09:45

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
200.7	Aluminum	0.065	1	0.03	0.010	mg/L	07/23/09 KN
200.7	Beryllium	ND	1	0.001	0.001	mg/L	07/23/09 KN
200.7	Boron	0.156	1	0.05	0.009	mg/L	07/23/09 KN
200.7	Calcium	128	1	0.1	0.038	mg/L	07/23/09 KN
200.7	Iron	0.298	1	0.02	0.012	mg/L	07/24/09 KN
200.7	Manganese	0.010	1	0.01	0.001	mg/L	07/23/09 KN
200.7	Silver	ND	1	0.005	0.002	mg/L	07/23/09 KN
200.7	Sodium	118	1	0.5	0.15	mg/L	07/23/09 KN
200.7	Zinc	0.004 J	1	0.01	0.002	mg/L	07/23/09 KN
200.8	Antimony	ND	1	0.002	0.0014	mg/L	08/17/09 CEL
200.8	Arsenic	0.0006 J	1	0.002	0.0002	mg/L	08/17/09 CEL
200.8	Cadmium	ND	1	0.001	0.0001	mg/L	08/17/09 CEL
200.8	Chromium	ND	1	0.005	0.0008	mg/L	08/17/09 CEL
200.8	Copper	0.0015 J	1	0.003	0.0001	mg/L	08/17/09 CEL
200.8	Lead	ND	1	0.005	0.0001	mg/L	08/17/09 CEL
200.8	Nickel	0.0025 J	1	0.005	0.0005	mg/L	08/17/09 CEL
200.8	Selenium	0.0024	1	0.002	0.0003	mg/L	08/17/09 CEL
200.8	Thallium	ND	1	0.001	0.0001	mg/L	08/17/09 CEL
10200H	Chlorophyll	ND	1	1.0		mg/M3	07/22/09 HK
1664	Total Oil and Grease	ND	1	5	1.7	mg/L	07/23/09 LN
2130B	Turbidity	0.38	1	0.1	0.0	NTU	07/22/09 AE
2320B	Bicarbonate Alkalinity as	201	1	5.0	1.2	mg/L	07/31/09 HK
245.1	Mercury	ND	1	0.0004	0.00003	mg/L	07/22/09 MDJ
2510B	Specific Conductance	1670	1	1.0	0.86	umhos/c	07/22/09 LN
2540C	Total Dissolved Solids	1120	1	10.0	5.7	mg/L	07/22/09 LN

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1009734 Client Sample ID: #11044350 Sandia Creek

Matrix: WATER

Date Sampled: 07/21/2009

Time Sampled: 09:45

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
300.0	Chloride	222	5	5.0	0.5	mg/L	07/23/09 WW
300.0	Nitrate (as NO3)	10.3	1	0.44	0.07	mg/L	07/21/09 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	07/21/09 WW
300.0	Sulfate	317	5	5.0	0.85	mg/L	07/23/09 WW
335.4	Cyanide	ND	1	0.01	0.001	mg/L	07/26/09 TP
350.1	Ammonia -N	0.03 J	1	0.1	0.01	mg/L	07/25/09 TP
351.2	Total Kjeldahl Nitrogen (TKN)	0.07 J	1	0.4	0.06	mg/L	07/25/09 TP
4500-F C	Fluoride	0.30	1	0.05	0.004	mg/L	07/24/09 CM
4500-H+B	pH	7.71	1		NA		07/21/09 MS
4500-P-B.5-E	Total Phosphorus as P	0.023	1	0.02	0.01	mg/L	07/29/09 DK
4500-P-E	Ortho Phosphate as PO4	ND	1	0.06	0.015	mg/L	07/22/09 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	07/22/09 LT
5540C	MBAS	ND	1	0.04	0.02	mg/L	07/22/09 CM
9221	Coliform by MTF, Total	24000	1		MPN/10		07/21/09 RB
9221	Fecal Coliform by MTF	13	1		MPN/10		07/21/09 RB
5310B	Total Organic Carbon	3.0	2	1.0	1.0	mg/L	07/23/09 QP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

**ASSOCIATED LABORATORIES**

Analytical Results Report

Lab Request 237900 results, page 2 of 4



Order #: 1009735

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Time Sampled: :

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
200.7	Aluminum	ND	1	0.030	0.010	mg/L	07/23/09 KN
200.7	Beryllium	ND	1	0.001	0.001	mg/L	07/23/09 KN
200.7	Boron	ND	1	0.050	0.009	mg/L	07/23/09 KN
200.7	Calcium	ND	1	0.10	0.038	mg/L	07/23/09 KN
200.7	Iron	ND	1	0.02	0.012	mg/L	07/23/09 KN
200.7	Manganese	ND	1	0.010	0.001	mg/L	07/23/09 KN
200.7	Silver	ND	1	0.005	0.002	mg/L	07/23/09 KN
200.7	Sodium	ND	1	0.50	0.15	mg/L	07/23/09 KN
200.7	Zinc	ND	1	0.010	0.002	mg/L	07/23/09 KN
200.8	Antimony	ND	1	0.002	0.0014	mg/L	08/13/09 CEL
200.8	Arsenic	ND	1	0.002	0.0002	mg/L	08/13/09 CEL
200.8	Cadmium	ND	1	0.001	0.0001	mg/L	08/13/09 CEL
200.8	Chromium	ND	1	0.005	0.0008	mg/L	08/13/09 CEL
200.8	Copper	ND	1	0.003	0.0001	mg/L	08/13/09 CEL
200.8	Lead	ND	1	0.005	0.0001	mg/L	08/13/09 CEL
200.8	Nickel	ND	1	0.005	0.0005	mg/L	08/13/09 CEL
200.8	Selenium	ND	1	0.002	0.0003	mg/L	08/13/09 CEL
200.8	Thallium	ND	1	0.001	0.0001	mg/L	08/13/09 CEL
10200H	Chlorophyll	N/A	1	1.0		mg/M3	07/22/09 HK
1664	Total Oil and Grease	ND	1	5	1.7	mg/L	07/23/09 LN
2130B	Turbidity	ND	1	0.1	0.0	NTU	07/22/09 AE
2320B	Bicarbonate Alkalinity as	ND	1	5.0	1.2	mg/L	07/31/09 HK
245.1	Mercury	ND	1	0.0004	0.00003	mg/L	07/22/09 MDJ
2510B	Specific Conductance	0.56	1	1.0	0.86	umhos/c	07/22/09 LN
2540C	Total Dissolved Solids	ND	1	10.0	5.7	mg/L	07/22/09 LN

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

**ASSOCIATED LABORATORIES**

Analytical Results Report



Order #: 1009735

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Time Sampled: :

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
300.0	Chloride	ND	1	1.0	0.1	mg/L	07/21/09 WW
300.0	Nitrate (as NO3)	ND	1	0.44	0.07	mg/L	07/21/09 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	07/21/09 WW
300.0	Sulfate	ND	1	1.0	0.17	mg/L	07/21/09 WW
335.4	Cyanide	ND	1	0.01	0.001	mg/L	07/26/09 TP
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	07/25/09 TP
351.2	Total Kjeldahl Nitrogen (TKN)	ND	1	0.4	0.06	mg/L	07/25/09 TP
4500-F C	Fluoride	ND	1	0.05	0.004	mg/L	07/24/09 CM
4500-H+B	pH	5.28	1			NA	07/21/09 MS
4500-P-B.5-E	Total Phosphorus as P	ND	1	0.02	0.01	mg/L	07/29/09 DK
4500-P-E	Ortho Phosphate as PO4	ND	1	0.06	0.015	mg/L	07/22/09 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	07/22/09 LT
5540C	MBAS	ND	1	0.04	0.02	mg/L	07/22/09 CM
5310B	Total Organic Carbon	ND	1	0.5	0.5	mg/L	07/23/09 QP

EQL = Estimated Quantitation Limit, MDL = Method detection limit, DF = Dilution Factor  
ND = Not detected below indicated MDL, J=Trace, S = Surrogate outside control limits

**ASSOCIATED LABORATORIES**

Analytical Results Report



ASSOCIATED LABORATORIES  
QA REPORT FORM

QC Sample: LR 237903

Matrix: WATER

Prep. Date: July 22, 2009

Analysis Date: July 22, 2009

Lab ID#'s in Batch: LR 237899, 237900, 237901, 237903, 237905, 237918, 237923, 237902, 237969

REPORTING UNITS = mg/L

**SAMPLE DUPLICATE RESULT**

Test	Method	Sample Result	Sample Duplicate	%RPD
TDS	160-1 / 2540C	630	631	0.16

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 5%

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLANK	LCS				
Value	Result	True Value	% Rec	L. Limit	H. Limit
ND	284	293	97	90%	110%

Value = Preparation Blank Value; ND = Not-Detected

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

ASSOCIATED LABORATORIES  
QA REPORT FORM

QC Sample : LR 237891

Matrix: WATER

Prep.Date: July 23, 2009

Analysis Date: July 23, 2009

Lab ID#'s in Batch: LR 237891, 237893, 237986, 237988, 237900, 237901  
LR 237903, 237905, 237923, 237043

REPORTING UNITS = mg/L

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS			L.Limit	H.Limit
		Value	Result	True	%Rec		
O&G	1664	ND	38.00	40	95	78%	114%

*VALUE = Preparation Blank Value; ND = Not-Detected*

*LCS = Lab Control Sample Result*

*TRUE = True Value of LCS*

*L.LIMIT / H.LIMIT = LCS Control Limits*

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM - METHOD 200.7 / 6010**

QC Sample: LR 237826-1009370 H#072209 W3BD

Matrix: WATER

Prep. Date: July 22, 2009

Analysis Date: July 23, 2009

Lab ID#'s in Batch: LR 237839, 237818, 237826, 237921, 237899, 237903, 237905, 237900

Reporting Units = mg/L

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Test	Sample Result	Spike Added	Matrix Spike	%Rec MS
Pb	ND	1.0	0.78	78
Be	ND	1.0	0.97	97
Ag	0.006	0.5	0.47	93
Zn	0.041	1.0	0.83	79
Al *	0.031	1.0	0.74	71
Fe	0.280	1.0	1.03	75
Mn	1.050	1.0	1.84	79
B	2.110	1.0	2.90	79
Ca	530.000	20.0	529.00	NC
Mg	240.000	20.0	221.00	NC
K	8.440	20.0	30.30	109
Na	322.000	20.0	324.00	NC

\* = Outside QC limits, due to matrix Interference  
If Sample Result > 4 times Spike Added, then "NC"

% REC LIMITS = 75 -125
RPD LIMITS = 20



**ASSOCIATED LABORATORIES**  
**LCS REPORT FORM - METHOD 200.7 / 6010**

**LCS RECOVERY / METHOD BLANK**

Test	LCS Result	True Value	LCS %Rec	QC Limit %REC	Method Blank
Ag	0.94	1.0	94	80-120	< 0.005
Al	1.84	2.0	92	80-120	< 0.03
B	1.91	2.0	96	80-120	< 0.05
Be	2.00	2.0	100	80-120	< 0.005
Fe	1.99	2.0	100	80-120	< 0.02
Mn	2.05	2.0	103	80-120	< 0.01
Pb	1.90	2.0	95	80-120	< 0.005
Zn	1.88	2.0	94	80-120	< 0.01
Ca	2.12	2.0	106	80-120	< 0.1
Mg	2.13	2.0	107	80-120	< 0.1
K	20.10	20.0	101	80-120	< 0.5
Na	2.14	2.0	107	80-120	< 0.1

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM - METHOD 200.7 / 6010**

QC Sample: LR 237839-1009409 H#072209 W3B

Matrix: WATER

Prep. Date: July 22, 2009

Analysis Date: July 23, 2009

Lab ID#'s in Batch: LR 237839, 237818, 237826, 237921, 237899, 237903, 237905, 237900

Reporting Units = mg/L

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Test	Sample Result	Spike Added	Matrix Spike	%Rec MS
Pb	ND	1.0	0.93	93
Be	ND	1.0	1.09	109
Ag	ND	0.5	0.49	98
Zn	ND	1.0	0.95	95
Al	0.074	1.0	0.96	89
Fe *	0.073	1.0	1.39	132
Mn	ND	1.0	1.00	100
B	ND	1.0	0.96	96
Ca	42.700	20.0	65.00	112
Mg	18.600	20.0	38.00	97
K	0.960	20.0	22.00	105
Na	23.200	20.0	44.00	104

\* = Outside QC limits, due to matrix Interference  
 If Sample Result > 4 times Spike Added, then "NC"

% REC LIMITS = 75 -125 RPD LIMITS = 20
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**ASSOCIATED LABORATORIES**  
**LCS REPORT FORM - METHOD 200.7 / 6010**

**LCS RECOVERY / METHOD BLANK**

Test	LCS Result	True Value	LCS %Rec	QC Limit %REC	Method Blank
Ag	0.94	1.0	94	80-120	< 0.005
Al	1.84	2.0	92	80-120	< 0.03
B	1.91	2.0	96	80-120	< 0.05
Be	2.00	2.0	100	80-120	< 0.005
Fe	1.99	2.0	100	80-120	< 0.02
Mn	2.05	2.0	103	80-120	< 0.01
Pb	1.90	2.0	95	80-120	< 0.005
Zn	1.88	2.0	94	80-120	< 0.01
Ca	2.12	2.0	106	80-120	< 0.1
Mg	2.13	2.0	107	80-120	< 0.1
K	20.10	20.0	101	80-120	< 0.5
Na	2.14	2.0	107	80-120	< 0.1

**ASSOCIATED LABORATORIES  
QA REPORT FORM**

QC Sample: 237900-1009734

Matrix: WATER

Prep. Date: July 22, 2009

Analysis Date: July 22, 2009

Lab ID#'s in Batch: 237900, 237901, 237903, 237905, 237862, 237863, 237863

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
MERCURY	245.1 / 7470A	ND	0.002	0.0018	0.0018	90	90	0

*RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate*  
*%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate*

<i>%REC LIMITS = 75 - 125</i>
<i>RPD LIMITS = 20</i>

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BL / LCS					
Value	Result	True	%Rec	L.Limit	H.Limit
ND	0.0051	0.0050	102	80%	120%

*Value = Preparation Blank Value; ND = Not-Detected*  
*LCS Result = Lab Control Sample Result*  
*True = True Value of LCS*  
*L.Limit / H.Limit = LCS Control Limits*

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM**

QC Sample : 237909-1009815

Matrix: WATER

Prep. Date: 07/21/09

Analysis Date: 07/21/09

Lab ID#'s in Batch: 237909, 237918, 237826, 237923, 237897, 237898, 237899, 237900, 237903,  
237904, 237905, 237901

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
CL	300.0	95	200	293.64	286.50	99	96	2
SO4	300.0	165	800	1020.38	959.30	107	99	6
NO3	300.0	20.5	100	106.47	108.10	86	88	2
NO2	300.0	ND	100	88.01	86.80	88	87	1

*RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup*

*%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate*

*%Rec Limits = 80 - 120*

*RPD Limits = 20*

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
CL	300.0	ND	37.43	40	94	90%	110%
SO4	300.0	ND	37.33	40	93	90%	110%
NO3	300.0	ND	18.02	20	90	90%	110%
NO2	300.0	ND	9.01	10	90	90%	110%

*VALUE = Preparation Blank Value; ND = Not-Detected*

*LCS = Lab Control Sample Result*

*TRUE = True Value of LCS*

*L.LIMIT / H.LIMIT = LCS Control Limits*

*\* = Outside QC Limit*

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM**

QC Sample : 237995-1010246

Matrix: WATER

Prep. Date: 07/23/09

Analysis Date: 07/23/09

Lab ID#'s in Batch: 237899, 237995, 237900, 237903, 237905, 237826, 237833, 238044  
237901

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
CL	300.0	25	200	197.10	189.18	86	82	4
SO4	300.0	4	200	220.82	218.53	108	107	1
NO3	300.0	0.1	100	91.64	81.46	92	81	12
NO2	300.0	ND	100	93.72	89.59	94	90	5

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Dup  
%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%Rec Limits = 80 - 120 RPD Limits = 20
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**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
CL	300.0	ND	38.70	40	97	90%	110%
SO4	300.0	ND	43.48	40	109	90%	110%
NO3	300.0	ND	19.72	20	99	90%	110%
NO2	300.0	ND	9.64	10	96	90%	110%

VALUE = Preparation Blank Value; ND = Not-Detected

LCS = Lab Control Sample Result

TRUE = True Value of LCS

L.LIMIT / H.LIMIT = LCS Control Limits

\* = Outside QC Limit

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM**

Method : EPA 310/SM2320B

QC Sample: LR 237899

Matrix: WATER

Analysis Date: July 31, 2009

Lab ID#'s in Batch: LR 237899, 237900, 237901, 237903, 237905, 237980, 238111, 238197

REPORTING UNITS = mg/L

**SAMPLE DUPLICATE RESULT**

Test	Sample Result	Sample Duplicate	%RPD
Bicarbonate	268	268	0
Carbonate	ND	ND	0
Hydroxide	ND	ND	0
Alkalinity	220	220	0

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%
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**ASSOCIATED LABORATORIES  
QA REPORT FORM**

QC Sample: 237900-1009734

Matrix: WATER

Prep. Date: July 26, 2009

Analysis Date: July 27, 2009

ID#'s in Batch: 237900, 237901, 237903, 237905, 237916, 238141

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
CN	335.4 / 4500-CN	ND	0.500	0.470	0.473	94	95	1

*ND = Not Detected*

*RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate*

*%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate*

<i>%REC LIMITS = 80-120</i>
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<i>RPD LIMITS = 20</i>
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**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK LCS					
Value	Result	True	%Rec	L.Limit	H.Limit
ND	0.094	0.10	94	85%	115%

*Value = Preparation Blank Value*

*LCS Result = Lab Control Sample Result*

*True = True Value of LCS*

*L.Limit / H.Limit = LCS Control Limits*



**ASSOCIATED LABORATORIES  
QA REPORT FORM**

QC Sample: 237835-1009429

Matrix: WATER

Prep. Date: 07/25/09

Analysis Date: 07/27/09

Lab ID#'s in Batch: 237835, 237839, 237840, 237841, 237842, 237843, 237844,  
237845, 237846, 237847, 237897, 237898, 237899, 237900

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
NH3-N	350.1	1.81	5.00	6.93	6.87	102	101	1

*ND = Not Detected*

*RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate*

*%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate*

*%REC LIMITS = 80 - 120*

*RPD LIMITS = 20*

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK LCS					
Value	Result	True	%Rec	L.Limit	H.Limit
ND	5.16	5.00	103	80%	120%

*Value = Preparation Blank Value*

*LCS Result = Lab Control Sample Result*

*True = True Value of LCS*

*L.Limit / H.Limit = LCS Control Limits*

**ASSOCIATED LABORATORIES  
QA REPORT FORM**

QC Sample: 237839-1009409

Matrix: WATER

Prep. Date: 07/25/09

Analysis Date: 07/27/09

Lab ID#'s in Batch: 237839, 237840, 237841, 237842, 237843, 237844, 237845, 237846, 237847, 237897  
237898, 237899, 237900, 237903, 237904

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spk. Dup	%Rec MS	%Rec MSD	RPD
TKN	351.2	0.08	12.5	12.8	13.0	102	103	2

ND = Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 80 - 120
RPD LIMITS = 20

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	ND	2.72	2.50	109	80%	120%

Test	Method	DIG CHK				
		Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	3.10	3.17	98	85%	115%

Value = Preparation Blank Value

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM - INORGANICS**

QC Sample: LR 237897

Matrix: WATER

Prep. Date: July 22, 2009

Analysis Date: July 22, 2009

Lab ID#'s in Batch: LR 237897, 237898, 237899, 237900, 237901, 237903, 237904, 237905

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Ortho-Phosphate (as PO <sub>4</sub> )	4500-P-E	ND	1.53	1.56	1.56	102	102	0
Ortho-Phosphate (as P)	4500-P-E	0.00	0.50	0.51	0.51	102	102	0

*RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate*  
*%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate*

<i>%REC LIMITS = 75 - 125</i>
<i>RPD LIMITS = 20</i>

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Ortho-Phosphate (as PO <sub>4</sub> )	4500-P-E	ND	1.03	1.00	103	80%	120%
Ortho-Phosphate (as P)	4500-P-E	ND	0.34	0.33	103	80%	120%

*Value = Preparation Blank Value; ND = Not-Detected*  
*LCS Result = Lab Control Sample Result*  
*True = True Value of LCS*  
*L.Limit / H.Limit = LCS Control Limits*

**ASSOCIATED LABORATORIES  
QA REPORT FORM - INORGANICS**

QC Sample: LR 237900

Matrix: WATER

Prep. Date: July 29, 2009

Analysis Date: July 29, 2009

Lab ID#'s in Batch: LR 237900, 237901, 237903, 237904, 237905, 237856, 237995, 237840, 237842

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Total Phosphate (as P)	4500-P-E	0.02	0.40	0.43	0.43	102	101	0
Total Phosphate (as PO4)	4500-P-E	0.07	1.23	1.32	1.31	102	101	0

*RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate*  
*%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate*

<i>%REC LIMITS = 75-125</i>
<i>RPD LIMITS = 20</i>

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Total Phosphate (as P)	4500-P-E	ND	0.33	0.33	100	80%	120%
Total Phosphate (as PO4)	4500-P-E	ND	1.01	1.00	100	80%	120%

*Value = Preparation Blank Value; ND = Not-Detected*  
*LCS Result = Lab Control Sample Result*  
*True = True Value of LCS*  
*L.Limit / H.Limit = LCS Control Limits*

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM**

QC Sample: LR 237899-1009725

Matrix: WATER

Prep. Date: 07/24/2009

Analysis Date: 07/24/2009

Lab ID#'s in Batch: LR 237899, 237900, 237901, 237903, 237905

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
FLUORIDE	4500-FC	0.15	0.25	0.38	0.38	92	92	0

*ND = Not Detected*

*RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate*

*%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate*

<i>%REC LIMITS = 75 - 125</i>
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<i>RPD LIMITS = 20</i>
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**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	0.94	1.00	94	80%	120%

*Value = Preparation Blank Value*

*LCS Result = Lab Control Sample Result*

*True = True Value of LCS*

*L.Limit / H.Limit = LCS Control Limits*

**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: Std. Sol

Matrix: WATER

Prep. Date: July 22, 2009

Analysis Date: July 27, 2009

Lab ID#'s in Batch: 237967, 237904, 237898, 237897, 237903, 237901, 237899, 237900

Reporting Units = mg/L

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP. BLANK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
BOD	405.1/5210B	ND	185.18	200	93	80%	120%

*Value = Preparation Blank Value; ND = Not-Detected*

*LCS Result = Lab Control Sample Result*

*True = True Value of LCS*

*L.Limit / H.Limit = LCS Control Limits*

**ASSOCIATED LABORATORIES**  
**QA REPORT FORM**

QC Sample: LR 237905-1009773

Matrix: WATER

Prep. Date: 07/22/2009

Analysis Date: 07/22/2009

Lab ID#'s in Batch: LR 237899, 237900, 237901, 237903, 237905

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
MBAS	5540C	ND	1.00	0.99	1.03	99	103	4

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 75 - 125
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RPD LIMITS = 20
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**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	1.01	1.00	101	80%	120%

Value = Preparation Blank Value

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits

**ASSOCIATED LABORATORIES  
QA REPORT FORM**

QC Sample: 237901

Matrix: WATER

Prep. Date: July 23, 2009

Analysis Date: July 23, 2009

Lab ID#'s in Batch: 237901, 237899, 237900, 237903, 237905

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Reporting Units = mg/L

Test	Method	Sample Result Dup	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
TOC	5310B / 9060	3.50	10.00	13.80	13.80	103	103	0

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS & MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

%REC LIMITS = 80 - 120
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RPD LIMITS = 20
-----------------

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK LCS					
Value	Result	True	%Rec	L.Limit	H.Limit
ND	9.50	10.00	95	80%	120%

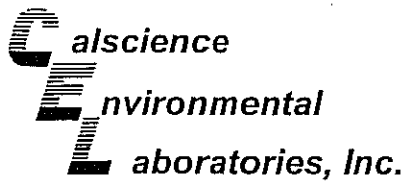
Value = Preparation Blank Value; ND = Not-Detected

LCS Result = Lab Control Sample Result

True = True Value of LCS

L.Limit / H.Limit = LCS Control Limits





Supplemental Report 1

August 19, 2009

The original report has been revised/corrected.

Kristen Walker  
Associated Laboratories  
806 North Batavia  
Orange, CA 92868-1242

Subject: **Calscience Work Order No.: 09-08-0901**  
Client Reference: **ICP-MS**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/10/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

A handwritten signature in black ink that reads 'Ranjit K. Clarke'.

Calscience Environmental  
Laboratories, Inc.  
Ranjit Clarke  
Project Manager

A handwritten signature in black ink, likely of the same person as the one above, but more stylized and less legible.

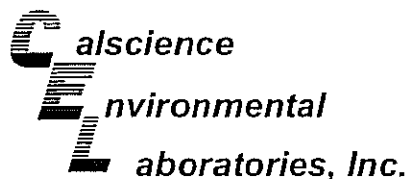
**Work Order Case Narrative**

Project Name: ICP-MS  
Calscience Work Order Number: 09-08-0901

1. Metals – EPA 200.8:

- a. Calscience received the sample for this project already digested. PDS/PDSD was reported in place of MS/MSD for the QC.
- b. Cadmium was missing from samples "237900-734" and "237905-773" in the original report dated 08/18/09. Cobalt, which was inadvertently included for those samples, has been removed. No other changes have been made.





## Analytical Report

Associated Laboratories  
806 North Batavia  
Orange, CA 92868-1242

Date Received: 08/10/09  
Work Order No: 09-08-0901  
Preparation: N/A  
Method: EPA 200.8  
Units: mg/L

Project: ICP-MS

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
237839-409	09-08-0901-1-A	07/20/09 13:30	Aqueous	ICP/MS 03	N/A	08/13/09 01:13	090811L05

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00389	0.00100	0.000589	1		Lead	ND	0.00100	0.000170	1	
Copper	0.000495	0.00100	0.000105	1	J	Thallium	ND	0.00100	0.000498	1	

237899-725	09-08-0901-2-A	07/21/09 09:10	Aqueous	ICP/MS 03	N/A	08/13/09 01:16	090811L05
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.00100	0.000589	1		Lead	0.000177	0.00100	0.000170	1	J
Copper	0.00104	0.00100	0.000105	1		Thallium	ND	0.00100	0.000498	1	

237900-734	09-08-0901-3-A	07/21/09 09:45	Aqueous	ICP/MS 03	N/A	08/17/09 21:44	090811L05
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.00100	0.000380	1		Lead	ND	0.00100	0.000170	1	
Arsenic	0.000624	0.00100	0.000589	1	J	Nickel	0.00247	0.00100	0.000155	1	
Cadmium	ND	0.00100	0.000266	1		Selenium	0.00239	0.00100	0.000554	1	
Chromium	0.000639	0.00100	0.000618	1	J	Thallium	ND	0.00100	0.000498	1	
Copper	0.00149	0.00100	0.000105	1							

237901-745	09-08-0901-4-A	07/21/09 07:45	Aqueous	ICP/MS 03	N/A	08/17/09 13:37	090811L05
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

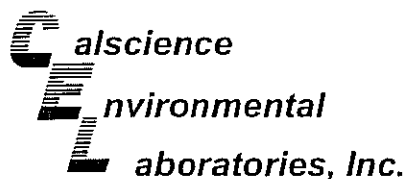
Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.000495	0.00100	0.000380	1	J	Lead	ND	0.00100	0.000170	1	
Arsenic	0.00230	0.00100	0.000589	1		Thallium	ND	0.00100	0.000498	1	
Copper	0.00217	0.00100	0.000105	1							

237903-757	09-08-0901-5-A	07/21/09 07:30	Aqueous	ICP/MS 03	N/A	08/17/09 13:40	090811L05
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.000537	0.00100	0.000380	1	J	Lead	ND	0.00100	0.000170	1	
Arsenic	0.00212	0.00100	0.000589	1		Thallium	ND	0.00100	0.000498	1	
Copper	0.00209	0.00100	0.000105	1							

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Analytical Report

Associated Laboratories  
806 North Batavia  
Orange, CA 92868-1242

Date Received: 08/10/09  
Work Order No: 09-08-0901  
Preparation: N/A  
Method: EPA 200.8  
Units: mg/L

Project: ICP-MS

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
237905-773	09-08-0901-6-A	07/21/09 10:15	Aqueous	ICP/MS 03	N/A	08/17/09 13:43	090811L05

Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.000476	0.00100	0.000380	1	J	Lead	ND	0.00100	0.000170	1	
Arsenic	0.00113	0.00100	0.000589	1		Nickel	0.00181	0.00100	0.000155	1	
Cadmium	ND	0.00100	0.000266	1		Selenium	0.000845	0.00100	0.000554	1	J
Chromium	0.00138	0.00100	0.000618	1		Thallium	ND	0.00100	0.000498	1	
Copper	0.00110	0.00100	0.000105	1							

238197-036	09-08-0901-7-A	07/27/09 12:10	Aqueous	ICP/MS 03	N/A	08/17/09 13:46	090811L05
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Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00168	0.00100	0.000589	1		Lead	ND	0.00100	0.000170	1	
Cadmium	ND	0.00100	0.000266	1		Nickel	0.00283	0.00100	0.000155	1	
Chromium	0.00208	0.00100	0.000618	1		Selenium	0.00213	0.00100	0.000554	1	
Copper	0.00119	0.00100	0.000105	1		Thallium	ND	0.00100	0.000498	1	

238198-038	09-08-0901-8-A	07/27/09 11:30	Aqueous	ICP/MS 03	N/A	08/17/09 13:49	090811L05
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Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

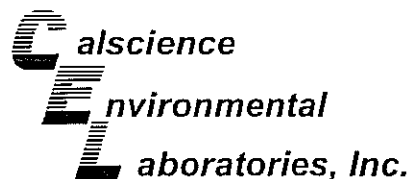
Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.000746	0.00100	0.000589	1	J

Method Blank	099-10-008-1,272	N/A	Aqueous	ICP/MS 03	N/A	08/13/09 00:56	090811L05
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Comment(s): -Results were evaluated to the MDL, concentrations  $\geq$  to the MDL but  $<$  RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.00100	0.000589	1		Lead	ND	0.00100	0.000170	1	
Cadmium	ND	0.00100	0.000266	1		Nickel	ND	0.00100	0.000155	1	
Chromium	ND	0.00100	0.000618	1		Selenium	ND	0.00100	0.000554	1	
Copper	ND	0.00100	0.000105	1		Thallium	ND	0.00100	0.000498	1	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers



## Quality Control - PDS / PDSD

Associated Laboratories  
806 North Batavia  
Orange, CA 92868-1242

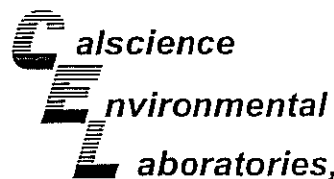
Date Received 08/10/09  
Work Order No: 09-08-0901  
Preparation: N/A  
Method: EPA 200.8

Project: ICP-MS

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	PDS/PDSD Batch Number
237839-409	Aqueous	ICP/MS 03	N/A	08/13/09	090811S05

Parameter	PDS %REC	PDSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	90	92	75-125	2	0-20	
Cadmium	97	100	75-125	3	0-20	
Chromium	90	91	75-125	2	0-20	
Copper	90	91	75-125	1	0-20	
Lead	101	104	75-125	2	0-20	
Nickel	90	90	75-125	0	0-20	
Selenium	98	102	75-125	4	0-20	
Thallium	97	102	75-125	5	0-20	

RPD - Relative Percent Difference , CL - Control Limit



## Quality Control - LCS/LCS Duplicate

Associated Laboratories  
806 North Batavia  
Orange, CA 92868-1242

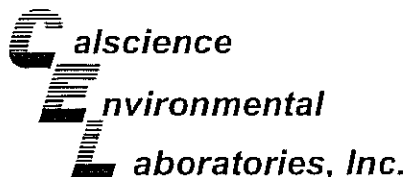
Date Received: N/A  
Work Order No: 09-08-0901  
Preparation: N/A  
Method: EPA 200.8

Project: ICP-MS

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-008-1,272	Aqueous	ICP/MS 03	N/A	08/13/09	090811L05

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	102	104	85-115	2	0-20	
Cadmium	102	104	85-115	2	0-20	
Chromium	97	100	85-115	3	0-20	
Copper	106	108	85-115	1	0-20	
Lead	99	101	85-115	1	0-20	
Nickel	103	106	85-115	2	0-20	
Selenium	102	101	85-115	0	0-20	
Thallium	98	98	85-115	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

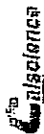


## Glossary of Terms and Qualifiers

Work Order Number: 09-08-0901

<u>Qualifier</u>	<u>Definition</u>
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

A handwritten signature in black ink, appearing to be 'M. J. ...', is located at the bottom left of the page.



7440 LINCOLN WAY

GARDEN GROVE, CA 92841-1432

TEL: (714) 895-5494 . FAX: (714) 894-7501

## CHAIN OF CUSTODY RECORD

DATE: 8-10-09

PAGE: 1 OF 1

LABORATORY CLIENT:		CLIENT PROJECT NAME / NUMBER:		P.O. NO.:	
ADDRESS:		PROJECT CONTACT:		LAB USE ONLY:	
800 N. BATAVIA		KEISTEN WALKER		08-0901	
DRANING CA		SAMPLER(S): (SIGNATURE)		COELT LOG CODE	
TEL 714-771-6900		K		Temp: 30	
TURNAROUND TIME		REQUESTED ANALYSIS		CONTAINER TYPE	
[ ] SAME DAY [ ] 24 HR [ ] 48 HR [ ] 72 HR [ ] 10 DAYS		AS, Pb, Ni, Se, TL			
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)		AS, Pb, Ni, Se, TL			
[ ] RWQCB REPORTING [ ] COELT EDF [ ]		AS, Pb, Ni, Se, TL			
SPECIAL INSTRUCTIONS		AS, Pb, Ni, Se, TL			
REPORT DOWN TO MDL.		AS, Pb, Ni, Se, TL			
2008 EXTRACTS!		AS, Pb, Ni, Se, TL			
LAB USE ONLY	SAMPLE ID	SAMPLING DATE	TIME	MAT. RIX	NO. OF CONT.
1	237839-409	7-20-09	13:30	W	1
2	237899-725	7-21-09	09:10	W	1
3	237900-734	7-21-09	09:45	W	1
4	237901-745	7-21-09	07:45	W	1
5	237903-757	7-21-09	07:30	W	1
6	237905-773	7-21-09	10:15	W	1
7	238197-036	7-27-09	12:10	W	1
8	238198-038	7-27-09	11:30	W	1
Received by: (Signature) May 1 - 02					
Relinquished by: (Signature)					
Relinquished by: (Signature)					



# SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ASSOCIATED LAB

DATE: 08/10/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 4.2 °C - 0.2 °C (CF) = 4.0 °C ☐ Blank ☒ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: \_\_\_\_\_).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☒ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only

Initial: PS

## CUSTODY SEALS INTACT:

☐ Cooler ☐ \_\_\_\_\_ ☐ No (Not Intact) ☒ Not Present ☐ N/A

Initial: PS

☐ Sample ☐ \_\_\_\_\_ ☐ No (Not Intact) ☒ Not Present

Initial: PS

## SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> COC not relinquished. <input type="checkbox"/> No date relinquished. <input type="checkbox"/> No time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Correct containers and volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## CONTAINER TYPE:

Solid: ☐ 4ozCGJ ☐ 8ozCGJ ☐ 16ozCGJ ☐ Sleeve ☐ EnCores® ☐ TerraCores® ☐ \_\_\_\_\_  
 Water: ☐ VOA ☐ VOAh ☐ VOAna<sub>2</sub> ☐ 125AGB ☐ 125AGBh ☐ 125AGBp ☐ 1AGB ☐ 1AGBna<sub>2</sub> ☐ 1AGBs  
☐ 500AGB ☐ 500AGJ ☐ 500AGJs ☐ 250AGB ☐ 250CGB ☐ 250CGBs ☐ 1PB ☐ 500PB ☐ 500PBna  
☐ 250PB ☐ 250PBn ☐ 125PB ☐ 125PBznna ☐ 100PJ ☐ 100PJna<sub>2</sub> ☒ 50mL PJ ☐ \_\_\_\_\_ ☐ \_\_\_\_\_

Air: ☐ Tedlar® ☐ Summa® ☐ \_\_\_\_\_ Other: ☐ \_\_\_\_\_ Checked/Labeled by: AP

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop Reviewed by: PS

Preservative: h: HCL n: HNO<sub>3</sub> na<sub>2</sub>: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> Na: NaOH p: H<sub>3</sub>PO<sub>4</sub> s: H<sub>2</sub>SO<sub>4</sub> znna: ZnAc<sub>2</sub>+NaOH f: Field-filtered Scanned by: PS

## Ranjit Clarke

---

**From:** Kristen Walker [kportra@associatedlabs.com]  
**Sent:** Wednesday, August 19, 2009 2:08 PM  
**To:** Ranjit Clarke  
**Subject:** RE: ICP-MS / CEL 09-08-0901 (07/20/09 - 07/27/09)

**Importance:** High

Ranjit,  
Lab Sample Numbers- 09-08-0901-6-A, and 09080901-3-A, we are missing the cadmium results.  
Please send me over this data as soon as you can.  
thanks for all of your help.

**Kristen Walker**  
*project manager*  
**Associated Laboratories**  
**806 N. Batavia-Orange, CA 92868**  
**714-771-6900/ 714-771-9904 (direct)**

---

**From:** Ranjit Clarke [mailto:RClarke@calscience.com]  
**Sent:** Tuesday, August 18, 2009 5:02 PM  
**To:** kportra@associatedlabs.com; droberts@associatedlabs.com  
**Subject:** ICP-MS / CEL 09-08-0901 (07/20/09 - 07/27/09)

<<09-08-0901.pdf>> <<1185871.pdf>>

Here are the final PDF report and invoice for the samples collected from 07/20/09 - 07/27/09.

Ranjit Clarke  
Project Manager  
Calscience Environmental Laboratories, Inc.  
7440 Lincoln Way  
Garden Grove, CA 92841-1427  
Phone: 714-895-5494 x222  
Fax: 714-894-7501

*The difference is service*

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# CHAIN OF CUSTODY FOR LOWER SANTA MARGARITA RIVER WATERSHED MONITORING PROGRAM

237900

Client Name/Account #: Stetson Engineers Inc.

Address: 861 Village Oaks Dr., Suite 100

City/State/Zip: Covina, CA 91724

Report To: Ken Reich

Project Manager: Ken Reich

Invoice To: Ken Reich

Telephone Number: 626-967-6202

Fax No.: 626-331-7065

TA Quote #:

Sampler Name: (Print) Joel Barnard / Ken Reich

Project ID: Lower SMR Watershed

Sampler Signature:

Project #: 2258

Sample ID / Description	Sampling Information					Preservative							Analyze For:										Reporting						
	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	None	Other	Aluminum, Antimony, Arsenic, Beryllium, Boron, Cadmium, Calcium, Total Chromium, Copper, Lead, Iron, Manganese, Mercury, Nickel, Selenium, Silver, Sodium, Thallium, Zinc	Bicarbonate, Chloride, Conductivity, Fluoride, Nitrate, Ortho Phosphate, pH, Sulfate, TDS, Turbidity, Nitrite	BOD5	Cyanide	Fecal Coliform	TKN, Ammonia, Total Phosphorous	TOC	Oil and Grease	MBAS	Chlorophyll a	RUSH TAT	Standard TAT	Fax Results	Send QC with report		
DAY 2 JULY INDEX AND QUARTERLY SAMPLING	7/21	9:45	1	X			X							X		X										X	X	X	X
			2	X			X					X			X											X	X	X	X
			1	X			X					X					X									X	X	X	X
			1	X			X			X								X								X	X	X	X
			1	X			X					X							X							X	X	X	X
			1	X			X						X							X						X	X	X	X
			1	X			X				X			X							X					X	X	X	X
			1	X				X				X									X		X			X	X	X	X
			1	X				X		X												X				X	X	X	X
			1	X				X																		X	X	X	X

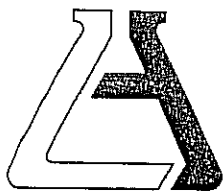
Special Instructions: 1) Electronic Data Deliverable Required

2) "J" flag results between the MDL and the reporting limit

Laboratory Comments:

Temperature Upon Receipt:  
VOCs Free of Headspace?

Relinquished by:	Date	Time	Received by:	Date	Time
<i>[Signature]</i>	7/21/09	14:35	M. Schubert	7-21-09	14:34
Relinquished by:	Date	Time	Received by:	Date	Time

**ASSOCIATED LABORATORIES**

806 North Batavia - Orange, California 92868 - 714-771-6900

FAX 714-538-1209

**SAMPLE ACCEPTANCE CHECKLIST****Section 1**Client: Stetson EngProject: Lower SMR WatershedDate Received: 7-21-09Sampler's Name: Yes NoSample(s) received in cooler: Yes

No (Skip Section 2)

Shipping Information:

**Section 2**Was the cooler packed with: X Ice      Ice Packs      Bubble Wrap      Styrofoam  
     Paper      None      Other     Cooler or box temperature: 3.0c

(Acceptance range is 2 to 6 Deg. C.)

**Section 3**

	YES	NO	N/A
Was a COC received?	<u>X</u>		
Is it properly completed? (IDs, sampling date and time, signature, test)	<u>X</u>		
Were custody seals present?			<u>X</u>
If Yes - were they intact?			<u>X</u>
Were all samples sealed in plastic bags?	<u>X</u>		
Did all samples arrive intact? If no, indicate below.	<u>X</u>		
Did all bottle labels agree with COC? (ID, dates and times)	<u>X</u>		
Were correct containers used for the tests required?	<u>X</u>		
Was a sufficient amount of sample sent for tests indicated?	<u>X</u>		
Was there headspace in VOA vials?			<u>X</u>
Were the containers labeled with correct preservatives?	<u>X</u>		
Was total residual chlorine measured (Fish Bioassay samples only)? *			<u>X</u>

\*: If the answer is no, please inform Fish Bioassay Dept. immediately.

**Section 4**

Explanations/Comments

**Section 5**

Was Project Manager notified of discrepancies: Y / N N/A

Completed By: M EbertDate: 7-21-09