**ASSOCIATED LABORATORIES****806 North Batavia - Orange, California 92868 - 714/771-6900****FAX 714/538-1209**

CLIENT Stetson Engineers Inc. (10442)

ATTN: Ken Reich

861 Village Oaks

Suite 100

Covina, CA 91724

LAB REQUEST 222156

REPORTED 11/05/2008

RECEIVED 10/23/2008

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.

940665

940666

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.*

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

**TESTING & CONSULTING**  
Chemical  
Microbiological  
Environmental

Matrix: WATER

Date Sampled: 10/23/2008

Time Sampled: 13:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
200.7	Aluminum	0.043	1	0.03	0.010	mg/L	10/30/08 NVK
200.7	Beryllium	ND	1	0.001	0.001	mg/L	10/30/08 NVK
200.7	Boron	0.137	1	0.05	0.009	mg/L	10/30/08 NVK
200.7	Calcium	141	1	0.1	0.038	mg/L	10/30/08 NVK
200.7	Iron	0.503	1	0.02	0.012	mg/L	10/30/08 NVK
200.7	Manganese	0.005 J	1	0.01	0.001	mg/L	10/30/08 NVK
200.7	Sodium	128	1	0.5	0.15	mg/L	10/30/08 NVK
200.7	Zinc	0.023	1	0.01	0.002	mg/L	10/30/08 NVK
200.8	Antimony	ND	5	0.01	0.007	mg/L	10/28/08 NVK
200.8	Arsenic	ND	1	0.002	0.0002	mg/L	10/28/08 NVK
200.8	Cadmium	ND	5	0.005	0.0005	mg/L	10/28/08 NVK
200.8	Chromium	0.0043 J	1	0.005	0.0008	mg/L	10/28/08 NVK
200.8	Copper	0.0019 J	1	0.003	0.0001	mg/L	10/28/08 NVK
200.8	Lead	ND	5	0.025	0.0005	mg/L	10/28/08 NVK
200.8	Nickel	0.0053	1	0.005	0.0005	mg/L	10/28/08 NVK
200.8	Selenium	0.0057	1	0.002	0.0003	mg/L	10/28/08 NVK
200.8	Silver	ND	5	0.025	0.0005	mg/L	10/28/08 NVK
200.8	Thallium	ND	5	0.005	0.0005	mg/L	10/28/08 NVK
1664	Total Oil and Grease	ND	1	5	1.7	mg/L	10/24/08 LN
2130B	Turbidity	0.33	1	0.1	0.0	NTU	10/24/08 AE
2320B	Bicarbonate Alkalinity as CaCO3	268	1	5.0	1.2	mg/L	11/04/08 HK
245.1	Mercury	ND	1	0.0004	0.00003	mg/L	10/28/08 MDJ
2510B	Specific Conductance	1660	1	1.0	0.86	umhos/c	10/24/08 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



Matrix: WATER

Date Sampled: 10/23/2008

Time Sampled: 13:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2540C	Total Dissolved Solids	1100	1	10.0	5.7	mg/L	10/24/08 LN
300.0	Chloride	215	5	5.0	0.5	mg/L	10/27/08 WW
300.0	Nitrate (as NO3)	14.2	1	0.44	0.07	mg/L	10/24/07 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	10/24/07 WW
300.0	Sulfate	318	5	5.0	0.85	mg/L	10/27/08 WW
335.4	Cyanide	ND	1	0.01	0.001	mg/L	10/24/08 TP
350.1	Ammonia -N	0.02 J	1	0.1	0.01	mg/L	10/25/08 TP
351.2	Total Kjeldahl Nitrogen (TKN)	0.17 J	1	0.4	0.06	mg/L	10/25/08 TP
4500-F C	Fluoride	0.29	1	0.05	0.004	mg/L	10/27/08 CM
4500-H+B	pH	8.26	1			NA	10/24/08 MS
4500-P-B.5-E	Total Phosphorus as P	0.017 J	1	0.02	0.01	mg/L	10/27/08 DK
4500-P-E	Ortho Phosphate as PO4	0.04 J	1	0.06	0.015	mg/L	10/24/08 HK
5210B	BOD	ND	1	3.0	1.5	mg/L	10/24/08 LT
5540C	MBAS	ND	1	0.04	0.02	mg/L	10/24/08 CM
9221	Coliform by MTF, Total	500	1			MPN/10	10/23/08 RB
9221	Fecal Coliform by MTF	23	1			MPN/10	10/23/08 RB

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



Order #: 940665

Client Sample ID: #11044350 Sandia Creek

Matrix: WATER

Date Sampled: 10/23/2008

Time Sampled: 13:30

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
5310B	Total Organic Carbon	2.3	1	0.5	0.5	mg/L	10/27/08 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 222156 results, page 3 of 5



Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
200.7	Aluminum	ND	1	0.030	0.010	mg/L	10/30/08 NVK
200.7	Beryllium	ND	1	0.001	0.001	mg/L	10/30/08 NVK
200.7	Boron	ND	1	0.050	0.009	mg/L	10/30/08 NVK
200.7	Calcium	ND	1	0.10	0.038	mg/L	10/30/08 NVK
200.7	Iron	ND	1	0.02	0.012	mg/L	10/30/08 NVK
200.7	Manganese	ND	1	0.010	0.001	mg/L	10/30/08 NVK
200.7	Sodium	ND	1	0.50	0.15	mg/L	10/30/08 NVK
200.7	Zinc	ND	1	0.010	0.002	mg/L	10/30/08 NVK
200.8	Antimony	ND	1	0.002	0.0014	mg/L	10/28/08 NVK
200.8	Arsenic	ND	1	0.002	0.0002	mg/L	10/28/08 NVK
200.8	Cadmium	ND	1	0.001	0.0001	mg/L	10/28/08 NVK
200.8	Chromium	ND	1	0.005	0.0008	mg/L	10/28/08 NVK
200.8	Copper	ND	1	0.003	0.0001	mg/L	10/28/08 NVK
200.8	Lead	ND	1	0.005	0.0001	mg/L	10/28/08 NVK
200.8	Nickel	ND	1	0.005	0.0005	mg/L	10/28/08 NVK
200.8	Selenium	ND	1	0.002	0.0003	mg/L	10/28/08 NVK
200.8	Silver	ND	1	0.005	0.0001	mg/L	10/28/08 NVK
200.8	Thallium	ND	1	0.001	0.0001	mg/L	10/28/08 NVK
1664	Total Oil and Grease	ND	1	5	1.7	mg/L	10/24/08 LN
2130B	Turbidity	ND	1	0.1	0.0	NTU	10/24/08 AE
2320B	Bicarbonate Alkalinity as CaCO <sub>3</sub>	ND	1	5.0	1.2	mg/L	11/04/08 HK
245.1	Mercury	ND	1	0.0004	0.00003	mg/L	10/28/08 MDJ
2510B	Specific Conductance	0.60	1	1.0	0.86	umhos/c	10/24/08 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



Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2540C	Total Dissolved Solids	ND	1	10.0	5.7	mg/L	10/24/08 LN
300.0	Chloride	ND	1	1.0	0.1	mg/L	10/24/08 WW
300.0	Nitrate (as NO3)	ND	1	0.44	0.07	mg/L	10/24/08 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	10/24/08 WW
300.0	Sulfate	ND	1	1.0	0.17	mg/L	10/24/08 WW
335.4	Cyanide	ND	1	0.01	0.001	mg/L	10/24/08 TP
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	10/25/08 TP
351.2	Total Kjeldahl Nitrogen (TKN)	ND	1	0.4	0.06	mg/L	10/25/08 TP
4500-F C	Fluoride	ND	1	0.05	0.004	mg/L	10/27/08 CM
4500-H+B	pH	6.32	1			NA	10/24/08 MS
4500-P-B.5-E	Total Phosphorus as P	ND	1	0.02	0.01	mg/L	10/27/08 DK
4500-P-E	Ortho Phosphate as PO4	ND	1	0.06	0.015	mg/L	10/24/08 HK
5210B	BOD	ND	1	3.0	1.5	mg/L	10/24/08 LT
5540C	MBAS	ND	1	0.04	0.02	mg/L	10/24/08 CM
5310B	Total Organic Carbon	ND	1	0.5	0.5	mg/L	10/27/08 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**  
**QA REPORT FORM - METHOD 200.7 / 6010**

QC Sample: LR222154-940658

H# 102808W1

Matrix: WATER

Prep. Date: October 28, 2008

Analysis Date: October 28, 2008

Lab ID#'s in Batch: LR222154,222155,222156,222157,222158,222159,22155,222267,222291,222297,

LR222243,222287,222062.

Reporting Units = mg/L

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	% RPD
As	0.022	1	0.95	N/A	93	N/A	N/A
Se	ND	1	0.77	N/A	77	N/A	N/A
Tl	ND	1	0.85	N/A	85	N/A	N/A
Pb	ND	1	0.83	N/A	83	N/A	N/A
Sb	ND	1	1.06	N/A	106	N/A	N/A
Ba	0.110	1	1.06	N/A	95	N/A	N/A
Be	ND	1	0.98	N/A	98	N/A	N/A
Cd	ND	1	0.93	N/A	93	N/A	N/A
Cr	ND	1	0.96	N/A	96	N/A	N/A
Co	ND	1	0.85	N/A	85	N/A	N/A
Cu	0.007	1	0.89	N/A	88	N/A	N/A
Mo	0.013	1	0.96	N/A	95	N/A	N/A
Ni	ND	1	0.85	N/A	85	N/A	N/A
Ag	ND	0.5	0.46	N/A	92	N/A	N/A
V	0.005	1	0.97	N/A	97	N/A	N/A
Zn	0.015	1	0.87	N/A	86	N/A	N/A
Al	0.118	1	1.03	N/A	91	N/A	N/A
Fe	0.468	1	1.39	N/A	92	N/A	N/A
Mn	0.007	1	0.95	N/A	94	N/A	N/A
B	0.069	1	0.99	N/A	92	N/A	N/A
Ca	134.000	10	129.00	N/A	NC	N/A	N/A
Mg	58.100	10	63.60	N/A	NC	N/A	N/A
K	3.040	10	12.30	N/A	93	N/A	N/A
Na	85.300	10	85.40	N/A	NC	N/A	N/A

\* = 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	1.03	1	103	80-120	< 0.005
Al	2.14	2	107	80-120	< 0.03
As	1.86	2	93	80-120	< 0.005
B	2.10	2	105	80-120	< 0.05
Ba	2.11	2	106	80-120	< 0.01
Be	2.20	2	110	80-120	< 0.005
Cd	2.25	2	113	80-120	< 0.005
Co	2.14	2	107	80-120	< 0.005
Cr	2.17	2	109	80-120	< 0.01
Cu	2.15	2	108	80-120	< 0.01
Fe	2.22	2	111	80-120	< 0.02
Mn	2.23	2	112	80-120	< 0.01
Mo	2.08	2	104	80-120	< 0.01
Ni	2.16	2	108	80-120	< 0.015
Pb	2.06	2	103	80-120	< 0.005
Sb	2.20	2	110	80-120	< 0.006
Se	2.16	2	108	80-120	< 0.006
Tl	2.15	2	108	80-120	< 0.005
V	2.14	2	107	80-120	< 0.005
Zn	2.18	2	109	80-120	< 0.01
Ca	92.80	100	93	80-120	< 0.1
Mg	98.90	100	99	80-120	< 0.1
K	92.40	100	92	80-120	< 0.5
Na	91.70	100	92	80-120	< 0.1



**ASSOCIATED LABORATORIES**  
**QA REPORT FORM - METHOD 200.8**

QC Sample: LR222154-940658

H# 102808W10

Matrix: WATER

Prep. Date: October 28, 2008

Analysis Date: October 28, 2008

Lab ID#'s in Batch: LR222154,222155,222156,222157,222158,222159,221155.

Reporting Units = mg/L

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

Test	Sample Result	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	% RPD
As	ND	0.05	0.051	N/A	102	N/A	N/A
Se	0.005	0.05	0.056	N/A	102	N/A	N/A
Tl	ND	0.05	0.050	N/A	100	N/A	N/A
Pb	ND	0.05	0.050	N/A	100	N/A	N/A
Sb	ND	0.05	0.056	N/A	112	N/A	N/A
Be	ND	0.05	0.052	N/A	104	N/A	N/A
Cd	ND	0.05	0.051	N/A	102	N/A	N/A
Cr	0.002	0.05	0.053	N/A	102	N/A	N/A
Cu	ND	0.05	0.047	N/A	94	N/A	N/A
Ni	0.005	0.05	0.052	N/A	94	N/A	N/A
Ag*	ND	0.05	ND	N/A	0	N/A	N/A

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

% REC LIMITS = 70 - 130 RPD LIMITS = 20
--

**ASSOCIATED LABORATORIES**  
**LCS REPORT FORM - METHOD 200.8**

**LCS RECOVERY / METHOD BLANK**

Test	LCS Result	True Value	LCS %Rec	QC Limit %REC	Method Blank
Ag	0.023	0.025	92	80-120	< 0.005
As	0.047	0.05	94	80-120	< 0.002
Be	0.047	0.05	94	80-120	< 0.001
Cd	0.046	0.05	92	80-120	< 0.001
Cr	0.048	0.05	96	80-120	< 0.002
Cu	0.048	0.05	96	80-120	< 0.005
Ni	0.048	0.05	96	80-120	< 0.005
Pb	0.048	0.05	96	80-120	< 0.005
Sb	0.047	0.05	94	80-120	< 0.002
Se	0.045	0.05	90	80-120	< 0.005
Tl	0.048	0.05	96	80-120	< 0.001

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

QC Sample : 222000

Matrix: WATER

Prep.Date: October 23, 2008

Analysis Date: October 27, 2008

Lab ID#'s in Batch: 222000, 221957, 221996, 221976, 222008, 222098, 222046, 222116, 222113, 222115, 222124, 222128, 222156, 222157, 222158, 222159, 222246, 222264

**SAMPLE RESULT / MATRIX SPIKE**

REPORTING UNITS = mg/L

Test	Method	Sample Result	Spike Added	Matrix Spike	%Rec MS
O&G	1664 / 5520B	140	44	186	105

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

Recovery Limits: 78 - 114 RPD Limit: 20
--

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

Test	Method	PREP BLK	LCS			L.Limit	H.Limit
		Value	Result	True	%Rec		
O&G	1664	ND	38.4	40	96	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 : 310.1

QC Sample: LR 222154

Matrix: WATER

Analysis Date: November 4, 2008

Lab ID#'s in Batch: 222154, 222155, 222156, 222158, 222165, 222166, 222171, 222179, 222241

REPORTING UNITS = mg/L

**SAMPLE DUPLICATE RESULT**

Test	Sample Result	Sample Duplicate	%RPD
Bicarbonate	262	262	0
Carbonate	ND	ND	0
Hydroxide	ND	ND	0
Alkalinity	215	215	0

ND = "U" - Not Detected

RPD = Relative Percent Difference of Sample Result and Sample Duplicate

RPD LIMITS = 20%
------------------

**ASSOCIATED LABORATORIES  
QA REPORT FORM**

QC Sample:           lr 222156-940665

Matrix:                water

Prep. Date:           October 28, 2008

Analysis Date:       October 28, 2008

Lab ID#'s in Batch:   222156, 222157, 222158, 222159, 222133, 222194, 222105, 222226, 222213

**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	0.0025	0.0025	125	125	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 BLK 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: 222158

Matrix: WATER

Prep. Date: October 24, 2008

Analysis Date: October 24, 2008

Lab ID#'s in Batch: 222154, 222155, 222156, 222157, 222158, 222159

REPORTING UNITS = mg/L

**SAMPLE DUPLICATE RESULT**

Test	Method	Sample Result	Sample Duplicate	%RPD
TDS	160-1 / 2540C	545	549	1

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	286	293	98	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: 222110-940501

Matrix: WATER

Prep. Date: October 24, 2008

Analysis Date: October 26, 2008

ID#'s in Batch: 222110, 222156, 222157, 222158, 222159, 222008, 222052, 222226

**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	0.50	0.480	0.480	96	96	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 = 80-120</i>
-----------------------------

<i>RPD LIMITS = 20</i>
------------------------

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	0.094	0.10	94	90%	110%

*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: 222156

Matrix: WATER

Prep. Date: October 27, 2008

Analysis Date: October 27, 2008

Lab ID#'s in Batch: 222154, 222155, 222156, 222157, 222158, 222159

**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
TOC	415.1 / 9060	2.30	10.00	12.10	12.40	98	101	2

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
RPD LIMITS = 20

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	10.00	10.00	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: 222155-940663

Matrix: WATER

Prep. Date: 10/25/08

Analysis Date: 10/26/08

Lab ID#'s in Batch: 222155, 222156, 222157, 222158, 222159, 222057, 222136, 222152

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	ND	5.00	4.95	4.92	99	98	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	4.79	5.00	96	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: 221187-940804

Matrix: WATER

Prep. Date: 10/25/08

Analysis Date: 10/27/08

Lab ID#'s in Batch: 222155, 222156, 222157, 222158, 222159, 222136, 221187

## 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	ND	12.5	12.3	12.2	98	98	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

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	ND	2.49	2.50	100	80%	120%

Test	Method	DIG CHK				
		Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	2.42	2.64	92	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: LR 222154-940658

Matrix: WATER

Prep. Date: 10/27/2008

Analysis Date: 10/27/2008

Lab ID#'s in Batch: LR 222154, 222155, 222156, 222157, 222158, 222159, 222186

**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	340.2 / 4500-F	0.17	0.25	0.41	0.39	96	88	5

*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>
-------------------------------

<i>RPD LIMITS = 20</i>
------------------------

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	0.95	1.00	95	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 - INORGANICS**

QC Sample: LR 222152-651

Matrix: WATER

Prep. Date: 10/27/08

Analysis Date: 10/27/08

Lab ID#'s in Batch: LR 222152, 222140, 222141, 222153, 222154, 222155, 222156, 222157, 222158, 222159

**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	0.14	0.40	0.53	0.54	99	100	1
Total Phosphate (as PO4)	4500-P-E	0.43	1.23	1.64	1.66	99	100	1

*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	102	80%	120%
Total Phosphate (as PO4)	4500-P-E	ND	1.02	1.00	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 - INORGANICS

QC Sample: LR 222153

Matrix: WATER

Prep. Date: 10/24/08

Analysis Date: 10/24/08

Lab ID#'s in Batch: LR 222139, 222140, 222141, 222152, 222153, 222154, 222155, 222156, 222157, 222158  
222159

**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 PO4)	4500-P-E	0.17	1.53	1.72	1.71	101	101	1
Ortho-Phosphate (as P)	4500-P-E	0.06	0.50	0.56	0.56	101	101	1

*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 PO4)	4500-P-E	ND	0.99	1.00	99	80%	120%
Ortho-Phosphate (as P)	4500-P-E	ND	0.32	0.33	99	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  
LCS REPORT FORM

QC Sample: Std. Sol

Matrix: WATER

Prep. Date: October 24, 2008

Analysis Date: October 29, 2008

Lab ID#'s in Batch: LR 222154, 222155, 222156, 222157, 222158, 222159

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	ND	200	200	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 222060-940311

Matrix: WATER

Prep. Date: 10/24/2008

Analysis Date: 10/24/2008

Lab ID#'s in Batch: LR 222060, 222111, 222114, 222122, 222127, 222130, 222131, 222154, 222155,  
LR 222156

**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	425.1	5.04	20.0	24.4	25.8	97	104	6

*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*

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

<i>RPD LIMITS = 20</i>
------------------------

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

PREP BLK	LCS				
Value	Result	True	%Rec	L.Limit	H.Limit
ND	0.99	1.00	99	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 : 222155-940663

Matrix: WATER

Prep. Date: 10/24/08

Analysis Date: 10/25/08

Lab ID#'s in Batch: 222165, 222166, 222167, 222168, 222169, 222170, 222171, 222172, 222153, 222154, 222155, 222158, 222157, 222156, 222179

**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	19.7	200	207	203	94	92	2
SO4	300.0	14.5	200	206	203.6	96	94.6	1
NO3	300.0	0.75	100	101.4	99	101	98	3
NO2	300.0	ND	100	105.6	105.8	106	106	0

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	39.6	40	99	90%	110%
SO4	300.0	ND	39.1	40	98	90%	110%
NO3	300.0	ND	19.4	20	97	90%	110%
NO2	300.0	ND	10.5	10	105	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



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

222156

Client Name/Account #: Stetson Engineers Inc.

Address: 861 Village Oaks Dr., Suite 100

City/State/Zip: Covina, CA 91724

Project Manager: Ken Reich

Telephone Number: 626-967-6202

Fax No.: 626-331-7065

Sampler Name: (Print) Joel Barnard / Ken Reich

Sampler Signature:

Project #: 2258

Project ID: Lower SMR Watershed

TA Quote #:

Report To: Ken Reich

Invoice To: Ken Reich

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	RUSH TAT	Standard TAT	Fax Results	Send QC with report	
<b>October 2008 Quarterly</b>																											
#11044350 Sandia Creek	10/23/08	13:30	1	X			X	X				X		X										X	X	X	X
#11044350 Sandia Creek			2	X			X					X		X		X								X	X	X	X
#11044350 Sandia Creek			1	X			X					X		X										X	X	X	X
#11044350 Sandia Creek			1	X			X					X		X										X	X	X	X
#11044350 Sandia Creek			1	X			X					X		X										X	X	X	X
#11044350 Sandia Creek			1	X			X					X		X										X	X	X	X
#11044350 Sandia Creek			1	X			X					X		X										X	X	X	X
#11044350 Sandia Creek			1	X			X					X		X										X	X	X	X
#11044350 Sandia Creek			1	X			X					X		X										X	X	X	X

**Special Instructions:**

- 1) Electronic Data Deliverable Required
- 2) "J" flag results between the MDL and the reporting limit
- 3) Metals by EPA 200.8 except Al, Be, B, Ca, Fe, Mn, Na, Zn which are 200.7, Hg by 245.1

**Laboratory Comments:**

Temperature Upon Receipt  
VOCs Free of Headspace?

Y N

Relinquished by: Joel Barnard

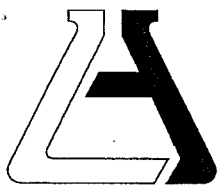
Date: 10/23/08 Time: 17:40

Received by: Ken Reich  
Received by Associated Labs: W&S, Inc.

Date: 10-23-08 Time: 17:54

Date: 10-23-08 Time: 6:20

10-24-08 11:55

**ASSOCIATED LABORATORIES**

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

FAX 714-538-1209

**SAMPLE ACCEPTANCE CHECKLIST****Section 1**Client: S f e t s o n

Project: \_\_\_\_\_

Date Received: 10-23-08Sample(s) received in cooler: ☒ Yes ☐ No (Skip Section 2)**Section 2**Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam  
☐ Paper ☐ None ☐ Other \_\_\_\_\_Cooler or box temperature: 2.9°C

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

Section 3	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If Yes – were they intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Were all samples sealed in plastic bags?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Did all samples arrive intact? If no, indicate below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were correct containers used for the tests required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was a sufficient amount of sample sent for tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Was there head space in VOA vials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were the correct preservatives used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the samples scanned for presence of radioactivity?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Was total residual chlorine measured (Fish Bioassay samples only)? *	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

\*: 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/ACompleted By: [Signature] Date: 10-23-08