

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

CLIENT Stetson Engineers Inc.

(10442)

LAB REQUEST 238227

ATTN: Ken Reich

861 Village Oaks

REPORTED 08/10/2009

Suite 100

Covina, CA 91724

RECEIVED 07/28/2009

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.

1011215

1011216

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 #: 1011215 Client Sample ID: #11044350 Sandia Creek

Matrix: WATER

Date Sampled: 07/28/2009

Time Sampled: 09:35

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
10200H	Chlorophyll	ND	1	1.0		mg/M3	07/31/09 HK
2510B	Specific Conductance	1670	1	1.0	0.86	umhos/c	07/29/09 AE
300.0	Nitrate (as NO3)	11.1	1	0.44	0.07	mg/L	07/28/09 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	07/28/09 WW
350.1	Ammonia -N	0.046 J	1	0.1	0.01	mg/L	08/01/09 TP
351.2	Total Kjeldahl Nitrogen (TKN)	0.17 J	1	0.4	0.06	mg/L	08/01/09 TP
4500-H+B	pH	7.89	1			NA	07/28/09 MS
4500-P-B.5-E	Total Phosphorus as P	0.021	1	0.02	0.01	mg/L	08/03/09 DK
4500-P-E	Ortho Phosphate as PO4	0.058 J	1	0.06	0.015	mg/L	07/08/09 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	07/28/09 HK

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 #: 1011216

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2510B	Specific Conductance	0.61	1	1.0	0.86	umhos/c	07/29/09 AE
300.0	Nitrate (as NO3)	ND	1	0.44	0.07	mg/L	07/28/09 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	07/28/09 WW
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	08/01/09 TP
351.2	Total Kjeldahl Nitrogen (TKN)	ND	1	0.4	0.06	mg/L	08/01/09 TP
4500-H+B	pH	5.33	1			NA	07/28/09 MS
4500-P-B.5-E	Total Phosphorus as P	ND	1	0.02	0.01	mg/L	08/03/09 DK
4500-P-E	Ortho Phosphate as PO4	ND	1	0.06	0.015	mg/L	07/28/09 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	07/28/09 HK

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 : 238093-1010592

Matrix: WATER

Prep. Date: 07/28/09

Analysis Date: 07/29/09

Lab ID#'s in Batch: 238093, 238193, 238198, 238220, 238221, 238222, 238225, 238226, 238227, 238228

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	3	200	199.13	199.39	98	98	0
SO4	300.0	1	200	210.92	210.25	105	105	0
NO3	300.0	0.1	100	96.55	96.47	96	96	0
NO2	300.0	ND	100	101.19	100.32	101	100	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		True	%Rec	L.Limit	H.Limit
CL	300.0	ND	42.00	40	105	90%	110%
SO4	300.0	ND	42.38	40	106	90%	110%
NO3	300.0	ND	20.06	20	100	90%	110%
NO2	300.0	ND	10.17	10	102	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: 238228-1011217

Matrix: WATER

Prep. Date: 08/01/09

Analysis Date: 08/02/09

Lab ID#'s in Batch: 238202, 238203, 238204, 238220, 238221, 238222, 238225, 238226, 238227, 238228, 238408

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	5.08	5.16	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

<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	5.07	5.00	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: '238227-1011215

Matrix: WATER

Prep. Date: 08/01/09

Analysis Date: 08/02/09

Lab ID#'s in Batch: 238492, 238493, 238204, 238220, 238221, 238222, 238225,
238226, 238227

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	0.17	12.5	12.5	12.5	99	99	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

%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	2.52	2.50	101	80%	120%

Test	Method	DIG CHK				
		Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	3.00	3.17	95	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 238196

Matrix: WATER

Prep. Date: July 28, 2009

Analysis Date: July 28, 2009

Lab ID#'s in Batch: LR 238196, 238197, 238198, 238199, 238200, 238201, 238202, 238203, 238204, 238185, 238220
LR 238221, 238222, 238225, 238226, 238227, 238228, 238230

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 ₄)	4500-P-E	0.52	1.53	2.05	2.06	100	101	0
Ortho-Phosphate (as P)	4500-P-E	0.17	0.50	0.67	0.67	100	101	0

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
RPD LIMITS = 20

PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS

Test	Method	PREP BLK	LCS				
		Value	Result	True	%Rec	L.Limit	H.Limit
Ortho-Phosphate (as PO ₄)	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 238220

Matrix: WATER

Prep. Date: August 3, 2009

Analysis Date: August 3, 2009

Lab ID#'s in Batch: LR 238220, 238221, 238222, 238225, 238226, 238227, 238228, 238185, 238336, 238344
238311, 238196

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	ND	0.40	0.40	0.41	101	102	1
Total Phosphate (as PO4)	4500-P-E	ND	1.23	1.24	1.25	101	102	1

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
RPD LIMITS = 20

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	0.34	0.33	103	80%	120%
Total Phosphate (as PO4)	4500-P-E	ND	1.04	1.00	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
LCS REPORT FORM

QC Sample: Std. Sol

Matrix: WATER

Prep. Date: July 28, 2009

Analysis Date: August 2, 2009

Lab ID#'s in Batch: LR 238230, 238196, 238199, 238200, 238201, 238202, 238203, 238204, 238220,
238221, 238222, 238225, 238226, 238227, 238228

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	184.78	200	92	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

CHAIN OF CUSTODY FOR LOWER SANTA MARGARITA RIVER WATERSHED MONITORING PROGRAM

238227

Client Name/Account #:

Stetson Engineers Inc.

Address:

861 Village Oaks Dr., Suite 100

City/State/Zip:

Covina, CA 91724

Project Manager:

Ken Reich

Report To: Ken Reich

Invoice To: Ken Reich

Telephone Number:

626-967-6202

Fax No.: 626-331-7065

Sampler Name: (Print)

Joel Barnard / Ken Reich

Project ID: Lower SMR Watershed

Sampler Signature:

Tuan Nguyen

Project #: 2258

Sample ID / Description	Sampling Information			Preservative						Analyses				Reporting/TAT								
	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Ice	HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other	Conductivity, Nitrate, Nitrite, Ortho Phosphate, pH	BOD ₅	Chlorophyll a	Total Phosphorous, TKN, Ammonia	RUSH TAT	Standard TAT	Fax Results	Send QC with report	
#11044350 Sandia Creek	07/28/09	09:35	1	X			X					X		X					X		X	
#11044350 Sandia Creek	"	"	1	X			X					X			X				X		X	
#11044350 Sandia Creek	"	"	1	X			X					X				X			X		X	
#11044350 Sandia Creek	"	"	1	X			X					X					X		X		X	

DAY 5 JULY INDEX SAMPLING

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? Y N

Relinquished by:	Date	Time	Received by:	Time
Tuan A. Nguyen	07/28/09	12:06	<i>[Signature]</i>	12:09
Relinquished by:	Date	Time	Received by Associated Labs:	Time

**ASSOCIATED LABORATORIES**

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

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST**Section 1**Client: StetsonProject: #2258 Lower SHR WaterDate Received: 7-28-09Sampler's Name: Yes NoSample(s) received in cooler: Yes

No (Skip Section 2)

Shipping Information: _____

Section 2Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____Cooler or box temperature: 3.0°C

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

Section 3	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is it properly completed? (IDs, sampling date and time, signature, test)	<input checked="" type="checkbox"/>	<input 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 headspace in VOA vials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Were the containers labeled with correct preservatives?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 5Was Project Manager notified of discrepancies: Y / N N/ACompleted By: [Signature] Date: 7-28-09