

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

**FAX 714/538-1209**

CLIENT Stetson Engineers Inc.

(10442)

LAB REQUEST 206432

ATTN: Ken Reich

861 Village Oaks

REPORTED 02/13/2008

Suite 100

Covina, CA 91724

RECEIVED 02/06/2008

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.

871247

871248

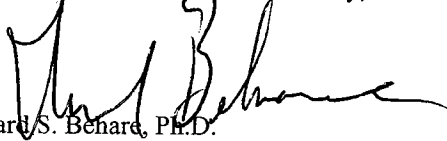
### Client Sample Identification

#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 #: 871247 Client Sample ID: #11044350 Sandia Creek

Matrix: WATER

Date Sampled: 02/06/2008

Time Sampled: 12:15

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
10200H	Chlorophyll	ND	1	1.0		mg/M3	02/07/08 HK
2510B	Specific Conductance	1610	1	1.0	0.86	umhos/c	02/13/08 AE
300.0	Nitrate (as NO3)	34.4	1	0.44	0.07	mg/L	02/07/08 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	02/07/08 WW
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	02/07/08 TP
351.2	Total Kjeldahl Nitrogen (TKN)	0.35 J	1	0.4	0.06	mg/L	02/07/08 TP
4500-H	pH	8.31	1			NA	02/07/08 HT
4500-O G	Dissolved Oxygen	10.38	1			mg/L	02/06/08 HT
4500-P-B.5-E	Total Phosphorus as P	0.06	1	0.02	0.01	mg/L	02/11/08 DK
4500-P-E	Ortho Phosphate as PO4	0.13	1	0.06	0.015	mg/L	02/08/08 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	02/07/08 LT

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 206432 results, page 1 of 2



Order #: 871248

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
2510B	Specific Conductance	0.66	1	1.0	0.86	umhos/c	02/13/08 AE
300.0	Nitrate (as NO3)	ND	1	0.44	0.07	mg/L	02/07/08 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	02/07/08 WW
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	02/07/08 TP
351.2	Total Kjeldahl Nitrogen (TKN)	ND	1	0.4	0.06	mg/L	02/07/08 TP
4500-H	pH	6.20	1			NA	02/07/08 LN
4500-O G	Dissolved Oxygen	9.46	1			mg/L	02/06/08 HT
4500-P-B.5-E	Total Phosphorus as P	ND	1	0.02	0.01	mg/L	02/11/08 DK
4500-P-E	Ortho Phosphate as PO4	ND	1	0.06	0.015	mg/L	02/08/08 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	02/07/08 LT

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 206432 results, page 2 of 2



**ASSOCIATED LABORATORIES  
LCS REPORT FORM**

QC Sample: Std. Sol

Matrix: WATER

Prep. Date: February 7, 2008

Analysis Date: February 12, 2008

Lab ID#'s in Batch: LR206432

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	226.00	200	113	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 : 206439-871280

Matrix: WATER

Prep. Date: 02/07/08

Analysis Date: 02/08/08

Lab ID#'s in Batch: 206431, 206432, 206433, 206434, 206439, 206450, 206455

**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	22.1	200	216	218	97	98	1
SO4	300.0	60	200	256	253	98	96	1
NO3	300.0	44.1	100	147	147	103	103	0
NO2	300.0	ND	100	101.7	100.9	102	101	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	41.9	40	105	90%	110%
SO4	300.0	ND	39.2	40	98	90%	110%
NO3	300.0	ND	19.9	20	99	90%	110%
NO2	300.0	ND	10.3	10	103	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*

**ASSOCIATED LABORATORIES  
QA REPORT FORM**

QC Sample: 206379-871093

Matrix: WATER

Prep. Date: 02/07/08

Analysis Date: 02/08/08

Lab ID#'s in Batch: 206315, 206232, 206177, 206379, 206339, 206340, 206341, 206342, 206278,  
206431, 206432, 206433, 206434

**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	5.01	4.97	100	99	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	4.36	5.00	87	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: 206339-870903

Matrix: WATER

Prep. Date: 02/07/08

Analysis Date: 02/07/08

Lab ID#'s in Batch: 205607, 205481, 205935, 206174, 206417, 206339, 206340, 206341,  
206342, 206278, 206431, 206432, 206433, 206434, 206471, 206426, 206427

## 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	0.60	12.5	11.9	12.1	90	92	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	2.61	2.50	104	80%	120%

Test	Method	DIG CHK				
		Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	2.40	2.38	101	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: 206530-659

Matrix: WATER

Prep. Date: 02/08/08

Analysis Date: 02/08/08

Lab ID#'s in Batch: 206530, 206531, 206532, 206418, 206431, 206432, 206433, 206434, 206597

**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)	365.2	1.36	1.53	2.95	2.94	103	103	0
Ortho-Phosphate (as P)	365.2	0.45	0.50	0.96	0.96	103	103	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 PO4)	365.2	ND	1.01	1.00	101	80%	120%
Ortho-Phosphate (as P)	365.2	ND	0.33	0.33	101	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: 206590-859

Matrix: WATER

Prep. Date: 02/11/08

Analysis Date: 02/11/08

Lab ID#'s in Batch: 206590, 206530, 206431, 206432, 206433, 206434, 205502, 205503,  
205504, 205505, 206677, 206312

**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)	365.2	0.08	0.40	0.49	0.49	101	101	0
Total Phosphate (as PO4)	365.2	0.25	1.23	1.49	1.49	101	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
Total Phosphate (as P)	365.2	ND	0.32	0.33	99	80%	120%
Total Phosphate (as PO4)	365.2	ND	0.99	1.00	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

206432

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

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 Bernard/Ken Reich~~

Tuan A. Nguyen

Sampler Signature:

Jose Sanchez Gil

Report To: Ken Reich

Invoice To: Ken Reich

Quote #:

Project ID: Lower SMR Watershed

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 <sub>3</sub>	HCl	NaOH	H <sub>2</sub> SO <sub>4</sub>	None	Other	Conductivity, Nitrate, Nitrite, Ortho Phosphate, pH	BOD <sub>5</sub>	Chlorophyll a	Dissolved Oxygen	Total Phosphorous, TKN, Ammonia	RUSH TAT	Standard TAT	Fax Results	Send QC with report	
DAY 5 JANUARY INDEX SAMPLING	2/6/08	12:15	1		X		X					X		X							X		X
			1		X		X					X				X					X		X
			1		X		X					X									X		X
			1	X	*		X					X					X				X		X
			1		X		X						X					X			X		X
#11044350 Sandia Creek			1		X		X					X									X		X
#11044350 Sandia Creek			1		X		X					X			X						X		X
#11044350 Sandia Creek			1		X		X					X									X		X
#11044350 Sandia Creek			1	X	*		X					X						X			X		X
#11044350 Sandia Creek			1		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? Y N

Relinquished by:

Tuan A. Nguyen

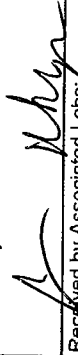
Date

02/06/08

Time

16:23

Received by:



Time

16:24

Relinquished by:

Received by Associated Labs:

Time

16:24



# ASSOCIATED LABORATORIES

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

FAX 714-538-1209

## SAMPLE ACCEPTANCE CHECKLIST

### Section 1

Client: Stetson

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

Date Received: 2-6-08

Sample(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: \_\_\_\_\_

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

### Section 3

	YES	NO	N/A
Was a COC received?	<u>✓</u>		
Were custody seals present?			<u>✓</u>
If Yes - were they intact?			<u>✓</u>
Were all samples sealed in plastic bags?		<u>✓</u>	
Did all samples arrive intact? If no, indicate below.	<u>✓</u>		
Did all bottle labels agree with COC? (ID, dates and times)	<u>✓</u>		
Were correct containers used for the tests required?	<u>✓</u>		
Was a sufficient amount of sample sent for tests indicated?	<u>✓</u>		
No head space in VOA vials?	<u>✓</u>		
Were the correct preservatives used?	<u>✓</u>		<u>✓</u>
Were the samples scanned for presence of radioactivity?			<u>✓</u>
Was total residual chlorine measured (Fish Bioassay samples only)? *			<u>✓</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: [Signature] Date: 2-6-08