

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 229026

REPORTED 02/20/2009

RECEIVED 02/11/2009

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.

970628

970629

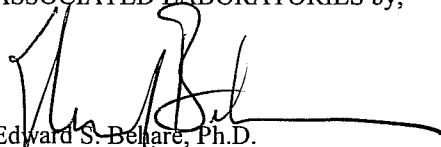
Client Sample Identification

#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. Belhare, 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 #: 970628 Client Sample ID: #11044350 Sandia Creek

Matrix: WATER

Date Sampled: 02/11/2009

Time Sampled: 10:15

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
10200H	Chlorophyll	ND	1	1.0		mg/M3	02/12/09 HK
2510B	Specific Conductance	1610	1	1.0	0.86	umhos/c	02/13/09 DV
300.0	Nitrate (as NO3)	20.3	1	0.44	0.07	mg/L	02/12/09 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	02/12/09 WW
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	02/14/09 TP
351.2	Total Kjeldahl Nitrogen (TKN)	0.36 J	1	0.4	0.06	mg/L	02/14/09 TP
4500-H+B	pH	7.78	1			NA	02/11/09 MS
4500-P-B.5-E	Total Phosphorus as P	0.04	1	0.02	0.01	mg/L	02/18/09 DK
4500-P-E	Ortho Phosphate as PO4	0.12	1	0.06	0.015	mg/L	02/12/09 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	02/12/09 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 229026 results, page 1 of 2



Order #: 970629

Client Sample ID: Laboratory Method Blank

Matrix: WATER

Method	Analyte	Result	DF	EQL	MDL	Units	Date/Analyst
10200H	Chlorophyll	N/A	1	1.0		mg/M3	02/12/09 HK
2510B	Specific Conductance	0.53	1	1.0	0.86	umhos/c	02/13/09 DV
300.0	Nitrate (as NO3)	ND	1	0.44	0.07	mg/L	02/12/09 WW
300.0	Nitrite (as NO2)	ND	1	0.33	0.06	mg/L	02/12/09 WW
350.1	Ammonia -N	ND	1	0.1	0.01	mg/L	02/14/09 TP
351.2	Total Kjeldahl Nitrogen (TKN)	ND	1	0.4	0.06	mg/L	02/14/09 TP
4500-H+B	pH	5.37	1			NA	02/11/09 MS
4500-P-B.5-E	Total Phosphorus as P	ND	1	0.02	0.01	mg/L	02/12/09 DK
4500-P-E	Ortho Phosphate as PO4	ND	1	0.06	0.015	mg/L	02/12/09 DK
5210B	BOD	ND	1	3.0	1.5	mg/L	02/12/09 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

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Analytical Results Report

Lab Request 229026 results, page 2 of 2



ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample : LR 229070-970761

Matrix: WATER

Prep. Date: 02/12/09

Analysis Date: 02/13/09

Lab ID#'s in Batch: LR 229070, 229087, 229131, 229038, 229039, 229040, 229027, 229033
229031, 229019, 229021, 229022, 229026, 229029, 229045

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	150	160	160	105	104	0
SO4	300.0	4	200	167	171	81	84	3
Br ⁻	300.0	ND	100	83	84	83	84	1
NO3	300.0	3.9	80	80.0	76	95	91	5
NO2	300.0	0.1	100	80	80	80	80	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	41	40	103	90%	110%
SO4	300.0	ND	41	40	102	90%	110%
Br ⁻	300.0	ND	20	20	102	90%	110%
NO3	300.0	ND	19.1	20	96	90%	110%
NO2	300.0	ND	9.6	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

**ASSOCIATED LABORATORIES
QA REPORT FORM**

QC Sample: 229021-970609

Matrix: WATER

Prep. Date: 02/14/09

Analysis Date: 02/15/09

Lab ID#'s in Batch: 228721, 229019, 229021, 229022, 229026, 229027, 229029

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	5.13	5.14	103	103	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	5.20	5.00	104	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: 229021-970609

Matrix: WATER

Prep. Date: 02/14/09

Analysis Date: 02/15/09

Lab ID#'s in Batch: 229022, 229026, 229027, 229031, 228721, 229021

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	0.12	12.5	12.0	11.7	95	93	3

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	2.36	2.50	94	80%	120%

Test	Method	DIG CHK				
		Result	True	%Rec	L.Limit	H.Limit
TKN	351.2	3.12	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 229026

Matrix: WATER

Prep. Date: 02/12/09

Analysis Date: 02/12/09

Lab ID#'s in Batch: LR 229019, 229021, 229022, 229026, 229027, 229029, 229031, 229033, 229041, 229042, 229045

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	0.12	1.53	1.62	1.63	98	99	1
Ortho-Phosphate (as P)	4500-P-E	0.04	0.50	0.53	0.53	98	99	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
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
QA REPORT FORM - INORGANICS

QC Sample: LR 229021

Matrix: WATER

Prep. Date: 02/18/09

Analysis Date: 02/18/09

Lab ID#'s in Batch: LR 229021, 229022, 229026, 229027, 229031, 229033, 229041, 229045, 229162, 228808, 229018, 228856, 229214, 229152

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	0.42	103	100	2
Total Phosphate (as PO4)	4500-P-E	0.06	1.23	1.32	1.29	103	100	2

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	0.33	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
LCS REPORT FORM**

QC Sample: Std. Sol

Matrix: WATER

Prep. Date: February 12, 2009

Analysis Date: February 17, 2009

Lab ID#'s in Batch: 229027, 229019, 229021, 229022, 229026, 229029, 229033

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	188	200	94	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

229026

CHAIN OF CUSTODY FOR LOWER SANTA MARGARITA RIVER WATGERSHED MONITORING PROGRAM

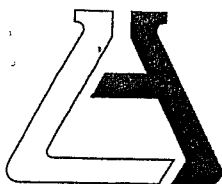
Client Name/Account #:	Stetson Engineers Inc.	Report To: Ken Reich
Address:	861 Village Oaks Dr., Suite 100	Invoice To: Ken Reich
City/State/Zip:	Covina, CA 91724	Quote #:
Project Manager:	Ken Reich	Project ID: Lower SMR Watershed
Telephone Number:	626-967-6202 Fax No.: 626-331-7065	Project #: 2258
Sampler Name: (Print)	Joel Barnard / Ken Reich	
Sampler Signature:	<i>Joel Barnard</i>	

Sample ID / Description	Sampling Information						Preservative						Analyses						Reporting/TAT			
DAY 5 FEBRUARY 2009 INDEX SAMPLING	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	BOD5	Chlorophyll a	Total Phosphorous, TKN, Ammonia	RUSH TAT	Standard TAT	Fax Results	Send QC with report	
	2/11/09	10:15	1	X			X					X		X						X		X
	"	"	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

Special Instructions: 1) Electronic Data Deliverable Required
2) "J" flag results between the MDL and the reporting limit

Laboratory Comments:
Temperature Upon Receipt: Y
VOCs Free of Headspace? Y N

Relinquished by:	Date	Time	Received by:	Time
Tuan A. Nguyen	2/11/09	16:45	<i>[Signature]</i>	16:52
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: Stetson

Date Received: 2-12-09

Sample(s) received in cooler: Yes

Shipping Information:

Project:

Sampler's Name: Yes No

No (Skip Section 2)

Section 2

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☒ None ☐ Other

Cooler or box temperature: 3.4

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

Section 3

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

Completed By: Alia

Date: 2-12-09