



Laboratory Report

Report ID: 108879

**Sierra
Environmental
Monitoring, Inc.**

Stillwater Sciences
Attn: Noah Hume
2855 Telegraph Ave., Suite 400
Berkeley, CA 94705

Date: 10/21/2010
Client: STW-90902
Taken by: M. Reymann
PO #: 398.01/1330

Dear Noah Hume,

It is the policy of Sierra Environmental Monitoring, Inc to strictly adhere to a comprehensive Quality Assurance Plan that insures the data presented in this report are both accurate and precise. Sierra Environmental Monitoring, Inc. maintains accreditation in the State of Nevada (NV-15) and the State of California (ELAP 2526).

The data presented in this report were obtained from the analysis of samples received under a chain of custody. Unless otherwise noted below, samples were received in good condition, properly preserved and within the hold time for the requested analyses. Any anomalies associated with the analysis of the samples have been flagged with appropriate explanation in the Analysis Report section of this Laboratory Report.

General Comments:

- There are no general comments for this report.

Individual Sample Comments:

- There are no specific comments that are associated with these samples.

Approved By:

Sierra Environmental Monitoring, Inc.

Date:

10/21/2010

This report is applicable only to the sample received by the laboratory. The liability of the laboratory is limited to the amount paid for this report. This report is for the exclusive use of the client to whom it is addressed and upon the condition that the client assumes all liability for the further distribution of the report or its contents.



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Date: 10/21/2010
Client: STW-90902
Taken by: M. Reymann
PO #: 398.01/1330

Analysis Report

Sample ID: S201010-0785 **Customer Sample ID:** R 1 **Date Sampled:** 10/12/2010 **Time Sampled:** 10:50 AM **Date Received:** 10/13/2010

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	0.1	mg/L N	0.1	Pacheco	10/19/2010	
Chlorophyll a	SM 10200 H	5	ug/L	2	Keller	10/20/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	1.4	mg/L N	0.1	Pacheco	10/19/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	4.5	mg/L N	0.5	Faulstich	11/13/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	11/13/2010	
Phosphorus - Ortho	EPA 365.3	<0.02	mg/L	0.02	Pacheco	10/13/2010	
Phosphorus - Total	EPA 365.3	<0.02	mg/L	0.02	Keller	10/13/2010	

Sample ID: S201010-0786 **Customer Sample ID:** EM 1 **Date Sampled:** 10/12/2010 **Time Sampled:** 11:30 AM **Date Received:** 10/13/2010

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	0.3	mg/L N	0.1	Pacheco	10/19/2010	
Chlorophyll a	SM 10200 H	25	ug/L	2	Keller	10/20/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.5	mg/L N	0.1	Pacheco	10/19/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	5.0	mg/L N	0.5	Faulstich	11/13/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	11/13/2010	
Phosphorus - Ortho	EPA 365.3	0.3	mg/L	0.1	Pacheco	10/13/2010	
Phosphorus - Total	EPA 365.3	0.48	mg/L	0.04	Keller	10/13/2010	

John Kobza, Ph.D.
 Laboratory Director

Page 2 of 7
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John C. Seher
 Special Consultant
 Quality Assurance Manager



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Analysis Report

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received				
S201010-0787	EM 2	10/12/2010	12:00 PM	10/13/2010	Reporting Limit	Analyst	Date Analyzed	Data Flag
Parameter	Method	Result	Units					
Ammonia-N	EPA 350.3	<0.1	mg/L N	0.1	Pacheco	10/19/2010		
Chlorophyll a	SM 10200 H	160	ug/L	2	Keller	10/20/2010		
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.4	mg/L N	0.1	Pacheco	10/19/2010		
Nitrate-N - Ion Chromatography	EPA 300.0	9.5	mg/L N	0.5	Faulstich	11/13/2010		
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	11/13/2010		
Phosphorus - Ortho	EPA 365.3	2.3	mg/L	0.1	Pacheco	10/13/2010		
Phosphorus - Total	EPA 365.3	2.8	mg/L	0.2	Keller	10/13/2010		

Sample ID:	Customer Sample ID	Date Sampled	Time Sampled	Date Received				
S201010-0788	EU 1	10/12/2010	11:10 AM	10/13/2010	Reporting Limit	Analyst	Date Analyzed	Data Flag
Parameter	Method	Result	Units					
Ammonia-N	EPA 350.3	0.3	mg/L N	0.1	Pacheco	10/19/2010		
Chlorophyll a	SM 10200 H	11	ug/L	2	Keller	10/20/2010		
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.7	mg/L N	0.1	Pacheco	10/19/2010		
Nitrate-N - Ion Chromatography	EPA 300.0	4.3	mg/L N	0.5	Faulstich	11/13/2010		
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	11/13/2010		
Phosphorus - Ortho	EPA 365.3	0.63	mg/L	0.04	Pacheco	10/13/2010		
Phosphorus - Total	EPA 365.3	0.97	mg/L	0.04	Keller	10/13/2010		



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Analysis Report

Sample ID: S201010-0789 **Customer Sample ID:** EU 2 **Date Sampled:** 10/12/2010 **Time Sampled:** 10:25 AM **Date Received:** 10/13/2010

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	0.2	mg/L N	0.1	Pacheco	10/19/2010	
Chlorophyll a	SM 10200 H	33	ug/L	2	Keller	10/20/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	3.6	mg/L N	0.1	Pacheco	10/19/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	4.1	mg/L N	0.5	Faulstich	11/13/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	11/13/2010	
Phosphorus - Ortho	EPA 365.3	0.60	mg/L	0.04	Pacheco	10/13/2010	
Phosphorus - Total	EPA 365.3	0.37	mg/L	0.04	Keller	10/13/2010	

Sample ID: S201010-0790 **Customer Sample ID:** EU 3 **Date Sampled:** 10/12/2010 **Time Sampled:** 11:50 AM **Date Received:** 10/13/2010

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	<0.1	mg/L N	0.1	Pacheco	10/19/2010	
Chlorophyll a	SM 10200 H	130	ug/L	2	Keller	10/20/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	1.6	mg/L N	0.1	Pacheco	10/19/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	11	mg/L N	0.5	Faulstich	11/13/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	11/13/2010	
Phosphorus - Ortho	EPA 365.3	2.8	mg/L	0.1	Pacheco	10/13/2010	
Phosphorus - Total	EPA 365.3	3.4	mg/L	0.2	Keller	10/13/2010	



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PO #: 398.01/1330

Analysis Report

Sample ID: S201010-0791 **Customer Sample ID:** EL 1 **Date Sampled:** 10/12/2010 **Time Sampled:** 12:15 PM **Date Received:** 10/13/2010

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	<0.1	mg/L N	0.1	Pacheco	10/19/2010	
Chlorophyll a	SM 10200 H	18	ug/L	2	Keller	10/20/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.6	mg/L N	0.1	Pacheco	10/19/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	4.6	mg/L N	0.5	Faulstich	11/13/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	11/13/2010	
Phosphorus - Ortho	EPA 365.3	0.67	mg/L	0.04	Pacheco	10/13/2010	
Phosphorus - Total	EPA 365.3	0.2	mg/L	0.1	Keller	10/13/2010	

Sample ID: S201010-0792 **Customer Sample ID:** EL 2 **Date Sampled:** 10/12/2010 **Time Sampled:** 12:25 PM **Date Received:** 10/13/2010

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	0.2	mg/L N	0.1	Pacheco	10/19/2010	
Chlorophyll a	SM 10200 H	11	ug/L	2	Keller	10/20/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	3.2	mg/L N	0.1	Pacheco	10/19/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	4.8	mg/L N	0.5	Faulstich	11/13/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	11/13/2010	
Phosphorus - Ortho	EPA 365.3	0.74	mg/L	0.04	Pacheco	10/13/2010	
Phosphorus - Total	EPA 365.3	0.53	mg/L	0.04	Keller	10/13/2010	



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Taken by: M. Reymann
PO #: 398.01/1330

Analysis Report

Sample ID: S201010-0793 **Customer Sample ID:** EU 1 DUP **Date Sampled:** 10/12/2010 **Time Sampled:** 11:10 AM **Date Received:** 10/13/2010

Parameter	Method	Result	Units	Reporting Limit	Analyst	Date Analyzed	Data Flag
Ammonia-N	EPA 350.3	0.1	mg/L N	0.1	Pacheco	10/19/2010	
Chlorophyll a	SM 10200 H	28	ug/L	2	Keller	10/20/2010	
Kjeldahl Nitrogen - Digestion/Analys	SM 4500 N(org)	2.3	mg/L N	0.1	Pacheco	10/19/2010	
Nitrate-N - Ion Chromatography	EPA 300.0	5.0	mg/L N	0.5	Faulstich	11/13/2010	
Nitrite-N - Ion Chromatography	EPA 300.0	<0.5	mg/L N	0.5	Faulstich	11/13/2010	
Phosphorus - Ortho	EPA 365.3	0.70	mg/L	0.04	Pacheco	10/13/2010	
Phosphorus - Total	EPA 365.3	0.31	mg/L	0.04	Keller	10/13/2010	

Data Flag Legend:

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Quality Control Report

<i>Parameter</i>	<i>LCS, % Recovery</i>	<i>MS, % Recovery</i>	<i>MSD, % Recovery</i>	<i>RPD, %</i>	<i>Method Blank</i>
Ammonia-N	103.0	102.0	102.0	0.00	<0.1 mg/L
Chlorophyll a				0.00	<2 ug/L
Kjeldahl Nitrogen - Digestion/Anal	106.0	113.0	109.0	3.60	<0.1 mg/L
Nitrate-N - Ion Chromatography	93.0	92.0	92.0	0.54	<0.05 mg/L
Nitrite-N - Ion Chromatography	100.0	118.0	120.0	1.68	<0.05 mg/L
Phosphorus - Ortho	97.0	78.0	81.0	0.00	<0.02 mg/L
Phosphorus - Total	102.0	110.0	112.0	0.90	<0.02 mg/L

Legend: *LCS- Laboratory Control Standard* *MS- Matrix Spike* *MSD- Matrix Spike Duplicate*
RPD- Relative Percent Difference



105579

PHONE: (775) 857 - 2400 FAX: (775) 857 - 2404 E-Mail sem@sem-analytical.com

Client Name **Stillwater Sciences** Purchase Order **398,071330**

Address **2855 Telegraph Ave, #400** Phone/Fax # **510-848-8098**

City **Berkeley** State **CA** Zip **94705** Report Attention: **Noah Hume**

Sampled by: **M. Reymann** Signature: *[Signature]*

Date Sampled	Time Sampled	Sample Type *	Sample Identification	Preservative* See Key Below	Number of Containers	Analyses Requested					Turnaround Time	Compliance Monitoring
						TKN, NH3, NO3	NO2	Total Phosphorus	Ortho-Phosphate	Chlorophyll a	Standard: _____ Other: _____ Rush: 24 Hr _____ 48 Hr _____	Yes: _____ No: _____
10/12/10	1025	1050	R1	6.4	3	X	X	X	X	X	Please provide results in EDD and PDF formats. Thank you.	Lab Use Only Sub-Sample pH <2 >12
	1130	2	EM1	6.4	3	X	X	X	X	X		
	1200	2	EM2	6.4	3	X	X	X	X	X		
	1110	2	EU1	6.4	3	X	X	X	X	X		
	1025	2	EU2	6.4	3	X	X	X	X	X		
	1150	2	EU3	6.4	3	X	X	X	X	X		
	1215	2	EL1	6.4	3	X	X	X	X	X		
	1225	2	EL2	6.4	3	X	X	X	X	X		
	1110	2	EU1 Dup	6.4	3	X	X	X	X	X		

Relinquished By: *[Signature]* Print Name **Mike Reymann**

Company **SUS**

Date **10/12/10**

Time **1545**

Relinquished By: *[Signature]*

Relinquished By: *[Signature]* **8481 9018 5959**

Company **SEM**

Date **10/13/10**

Time **9:00am**

Received By: *[Signature]*

Custody Seal Intact Yes No None

Sample Temperature Degrees C **10.0**

Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The analytical results associated with this COC apply only to the samples as they are received by the laboratory. The liability of the laboratory is limited to the amount paid for the report.

Terms: Net thirty days on approved credit.

* KEY: Sample Type: 1=Drinking Water, 2=Surface Water, 3=Ground Water, 4=Waste Water, 5=Soil, 6=RCRA, 7=Other Preservative: 1=NaOH, 2=NaOH + ZnOAC, 3=HNO3, 4=H2SO4, 5=Na2S2O3, 6=None, 7=Other