



ATTACHMENT 1.(B)

June 16, 2009
DIR-09-034

Bill Jennings, Chairman
California Sportfishing Protection Alliance
3536 Rainier Road
Stockton, California 95204

Lesley Emmington
Strawberry Canyon Stewardship Group
195 The Uplands
Berkeley, California 94705

Michael R. Lozeau
Douglas J. Chermak
Lozeau Drury LLP
1516 Oak Street, Suite 216
Alameda, California 94501

SUBJECT: Lawrence Berkeley National Laboratory Storm Water Results from May 1, 2009 Sampling Event

The University of California is providing a copy of the storm water sampling results for the May 1, 2009 sampling event at Lawrence Berkeley National Laboratory (the Facility).

The sampling that was performed is consistent with the *Alternative Storm Water Monitoring Plan* for the Facility, which was submitted to you on January 2, 2009. Again, please note that the outdoor paint storage area (Building 76) is no longer a sampling location because all outdoor paint-related activities were permanently moved indoors before submission of the *Alternative Storm Water Monitoring Plan* in January.

The results include the Facility's sample collection forms and the laboratory analysis reports from BC Laboratories.

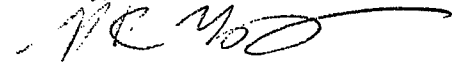
Based on these results, the University has determined that additional storm water pollution prevention control measures will be implemented in addition to those the University has recently adopted. Additional measures that are being examined include:

- implementing mandatory storm water training for key Facility staff,
- improving the storm drain filtration unit at the building 77/79 metal storage area, and
- installing temporary and/or permanent covers to further reduce the amount of materials exposed to storm water.

Ernest Orlando Lawrence Berkeley National Laboratory
One Cyclotron Road, MS 90-1140 | Berkeley, California 94720
Tel: 510.486.5514 Fax: 510.486.7488

If you have any questions, please contact Ron Pauer at 510-486-7614.

Sincerely,



Howard Hatayama, Director
Environment, Health & Safety Division

Enc: Storm Water Sampling Results for May 1, 2009

cc (w/enclosure):

K. Abbott, DOE/BSO

C. Felix, San Francisco Regional Water Quality Control Board

R. Pauer

bcc (w/out enclosure):

M. Chekal-Bain

L. Dutton

T. Bauters

J. Jelinski

J. Krupnick

J. Miller

D. Medley

J. Ridgeway

M. Rosegay, Pillsbury Withrop Shaw Pittman, LLP

N. Ware

ESG Sample Collection Form

U.C. Lawrence Berkeley National Laboratory
1 Cyclotron Road
Berkeley CA 94720

Surface Water Monitoring
ASWMP Sampling
Collection: 6797

Sample Data

Sample ID	Location	SampleType	QC Type	Coll Type	Lab/Analysis	Date/time	Container(s)	Presv	Amount	Sample Notes
56089	MP1	Aqueous	Sample	Grab	BCLABS-BAK E120.1, TSS:SM2540D, pH-aq:SM4500H+B	5/1/2009 3:30:00 PM	1-1 Liter PE	None	1 L	Initially used a large Voss bailer but there was increased sample disturbance. Resampled with smaller bailer. pH = 7.47
		Sample Collected: <input checked="" type="checkbox"/>								
56090	MP1	Aqueous	Sample	Grab	BCLABS-BAK E1664	5/1/2009 3:30:00 PM	1-1 Liter AG	HCL	1 L	
		Sample Collected: <input checked="" type="checkbox"/>								
56091	MP2	Aqueous	Sample	Grab	BCLABS-BAK E120.1, TSS:SM2540D, pH-aq:SM4500H+B	5/1/2009 3:40:00 PM	1-1 Liter PE	None	1 L	Used Voss hand bailer. pH = 7.30
		Sample Collected: <input checked="" type="checkbox"/>								
56092	MP2	Aqueous	Sample	Grab	BCLABS-BAK E1664	5/1/2009 3:40:00 PM	1-1 Liter AG	HCL	1 L	
		Sample Collected: <input checked="" type="checkbox"/>								
56093	MP3	Aqueous	Sample	Grab	BCLABS-BAK E120.1, TSS:SM2540D, pH-aq:SM4500H+B	5/1/2009 3:10:00 PM	1-1 Liter PE	None	1 L	Used Voss hand bailer. pH = 7.37
		Sample Collected: <input checked="" type="checkbox"/>								
56094	MP3	Aqueous	Sample	Grab	BCLABS-BAK E1664	5/1/2009 3:10:00 PM	1-1 Liter AG	HCL	1 L	
		Sample Collected: <input checked="" type="checkbox"/>								
56095	MP3	Aqueous	Sample	Grab	BCLABS-BAK NO3+NO2(asN):MULT	5/1/2009 3:10:00 PM	1-500 ml PE	H2SO4	0.5 L	
		Sample Collected: <input checked="" type="checkbox"/>								
56096	MP3	Aqueous	Sample	Grab	BCLABS-BAK E200.7:AL, E200.7:FE, E200.7:ZN	5/1/2009 3:10:00 PM	1-500 ml PE	HNO3	0.5 L	
		Sample Collected: <input checked="" type="checkbox"/>								
56097	MP4	Aqueous	Sample	Grab	BCLABS-BAK E120.1, TSS:SM2540D, pH-aq:SM4500H+B	5/1/2009 2:40:00 PM	1-1 Liter PE	None	1 L	Used Voss hand bailer. pH = 6.74
		Sample Collected: <input checked="" type="checkbox"/>								

Sample Data

Sample ID	Location	SampleType	QC Type	Coll Type	Lab/Analysis	Date/time	Container(s)	Presv	Amount	Sample Notes
56098	MP4	Aqueous	Sample	Grab	BCLABS-BAK E1664	5/1/2009 2:40:00 PM	1-1 Liter AG	HCL	1 L	
		Sample Collected:	Yes							
56099	MP4	Aqueous	Sample	Grab	BCLABS-BAK Ammonia(asN):MULT, E410.4	5/1/2009 2:40:00 PM	1-500 ml PE	H2SO4	0.5 L	
		Sample Collected:	Yes							
56100	MP4	Aqueous	Sample	Grab	BCLABS-BAK E200.7:CD, E200.7:MG, E200.7:AG, E200.7:AS, E200.7:PB, E200.7:SE, MET-aq:MULT-Hg	5/1/2009 2:40:00 PM	1-500 ml PE	HNO3	0.5 L	
		Sample Collected:	Yes							
56101	MP4	Aqueous	Sample	Grab	BCLABS-BAK E335.2	5/1/2009 2:40:00 PM	1-500 ml PE	NaOH	0.5 L	
		Sample Collected:	Yes							
56102	MP5	Aqueous	Sample	Grab	BCLABS-BAK E120.1, TSS:SM2540D, pH-aq:SM4500H+B	5/1/2009 2:50:00 PM	1-1 Liter PE	None	1 L	Used Voss hand bailer. pH = 6.89
		Sample Collected:	Yes							
56103	MP5	Aqueous	Sample	Grab	BCLABS-BAK E1664	5/1/2009 2:50:00 PM	1-1 Liter AG	HCL	1 L	
		Sample Collected:	Yes							
56104	MP5	Aqueous	Sample	Grab	BCLABS-BAK Ammonia(asN):MULT, E410.4	5/1/2009 2:50:00 PM	1-500 ml PE	H2SO4	0.5 L	
		Sample Collected:	Yes							
56105	MP5	Aqueous	Sample	Grab	BCLABS-BAK E200.7:CD, E200.7:MG, E200.7:AG, E200.7:AS, E200.7:PB, E200.7:SE, MET-aq:MULT-Hg	5/1/2009 2:50:00 PM	1-500 ml PE	HNO3	0.5 L	
		Sample Collected:	Yes							
56106	MP5	Aqueous	Sample	Grab	BCLABS-BAK E335.2	5/1/2009 2:50:00 PM	1-500 ml PE	NaOH	0.5 L	
		Sample Collected:	Yes							

Sample Data										
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Sample ID	Location	SampleType	QC Type	Coll Type	Lab/Analysis	Date/time	Container(s)	Presv	Amount	Sample Notes
56111	FIELD BLANK	Aqueous	Blank	Grab	BCLABS-BAK	5/1/2009 4:50:00 PM	1-500 ml PE	HNO3	0.5	Performed Equipment Blank using sampler from B77 DI collection. Used BC lab water dated 2/25/2009
		Sample Collected: Yes			E200.7:AL, E200.7:CD, E200.7:MG, E200.7:AG, E200.7:AS, E200.7:PB, E200.7:SE, MET- aq:MULT-Hg, E200.7:FE, E200.7:ZN					

Case Narrative

June 1, 2009

COC# 06084

Samplers: John Jelinski

Laboratory ID	Field ID	Sample Time	Analysis
09-05845-01	56089	05/01/2009@15:30	E120.1 pH-aq-SM4500H+B TSS:SM2450D
09-05845-02	56090	05/01/2009@15:30	E1664
09-05845-03	56091	05/01/2009@15:40	E120.1 pH-aq:SM4500H+B TSS:SM25450D
09-05845-04	56092	05/01/2009@15:40	E1664
09-05845-05	56093	05/01/2009@15:10	E120.1 pH-aq:SM4500H+B TSS:SM25450D
09-05845-06	56094	05/01/2009@15:10	E1664
09-05845-07	56095	05/01/2009@15:10	NO3+NO2(asN):MULT
09-05845-08	56096	05/01/2009@15:10	E200.7:AL E200.7:FE E200.7:ZN
09-05845-09	56097	05/01/2009@14:40	E120.1 pH-aq:SM4500H+B TSS:SM25450D
09-05845-10	56098	05/01/2009@14:40	E1664
09-05845-11	56099	05/01/2009@14:40	Ammonia(asN):MULT E410.4
09-05845-12	56100	05/01/2009@14:40	E200.7:AG E200.7:AS E200.7:CD E200.7:MG E200.7:PB E200.7:SE MET-aq:MULT-Hg
09-05845-13	56101	05/01/2009@14:40	E335.2
09-05845-14	56102	05/01/2009@14:50	E120.1 pH-aq:SM4500H+B TSS:SM25450D
09-05845-15	56103	05/01/2009@14:50	E1664
09-05845-16	56104	05/01/2009@14:50	Ammonia(asN):MULT E410.4
09-05845-17	56105	05/01/2009@14:50	E200.7:AG E200.7:AS E200.7:CD E200.7:MG E200.7:PB E200.7:SE MET-aq:MULT-Hg
09-05845-18	56106	05/01/2009@14:50	E335.2

09-05845-19	56111	05/01/2009@16:50	E200.7:AG E200.7:AL E200.7:AS E200.7:CD E200.7:FE E200.7:MG E200.7:PB E200.7:SE E200.7:ZN MET-aq:MULT-Hg
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Samples were received refrigerated to 0.3 & 2.3 °C upon receipt at the BCL Bakersfield facility.

Holding Time: All samples were analyzed within holding time restrictions.

Calibration: All calibration frequency and requirements were met.

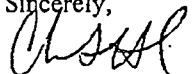
Blanks: No detection of analytes of interest were found in calibration or method blanks. All frequency requirements were met.

Laboratory Control Samples: All frequency and accuracy requirements were met.

Duplicates and/or Matrix spikes: All frequency, accuracy and precision requirements were met except for the matrix spike recovery for Nitrate/Nitrite as N. The QC – Precision & Accuracy report has been flagged accordingly.

Discussion:

Sincerely,



Christina Herndon
Project Manager

Date of Report: 05/27/2009

John Jelinski

Lawrence Berkeley National Laboratory
Environmental Services Group
1 Cyclotron Road, Mail Stop 85B0198
Berkeley, CA 94720

RE: Surface Water Monitoring Program

BC Work Order: 0905845

Invoice ID: B062475

Enclosed are the results of analyses for samples received by the laboratory on 5/4/2009. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Contact Person: Christina Herndon
Client Service Rep



Authorized Signature

U.C. Lawrence Berkeley National Laboratory
1 Cyclotron Road
Berkeley CA 94720

LBNL ENVIRONMENTAL SERVICES GROUP
Chain of Custody

Send final reports to: Suying Xu, Mailstop 85B0198
For questions contact John Jelinski, e-mail: JAJelinski@lbl.gov
Phone: 510-486-7616 Fax: 510-486-7034

COC No.: 06084

Page 1 of 5

Release Number / Document Control No.: ESG-06084

Collection(s): 6797

00105845

Purpose: Surface Water Monitoring Program - ASWMP Sampling

Sample Location	Date & Time Sampled	Reference Date/time*	Collection Method	Sample Type	Container Volume & Code** #	Preservative	Analysis Code	Field Sample ID***	Notes to Lab
56089	5/1/2009 15:30	5/1/2009 15:30	Grab	Aqueous	1 Liter PE 1	None	E120.1		
	5/1/2009 15:30	5/1/2009 15:30	Grab	Aqueous	1 Liter PE 1	None	pH-aq:SM4500H+B		
	5/1/2009 15:30	5/1/2009 15:30	Grab	Aqueous	1 Liter PE 1	None	TSS:SM2540D		
56090	5/1/2009 15:30	5/1/2009 15:30	Grab	Aqueous	1 Liter AG 1	HCL	E1664		
56091	5/1/2009 15:40	5/1/2009 15:40	Grab	Aqueous	1 Liter PE 1	None	E120.1		
	5/1/2009 15:40	5/1/2009 15:40	Grab	Aqueous	1 Liter PE 1	None	pH-aq:SM4500H+B		
	5/1/2009 15:40	5/1/2009 15:40	Grab	Aqueous	1 Liter PE 1	None	TSS:SM2540D		
56092	5/1/2009 15:40	5/1/2009 15:40	Grab	Aqueous	1 Liter AG 1	HCL	E1664		
56093	5/1/2009 15:10	5/1/2009 15:10	Grab	Aqueous	1 Liter PE 1	None	E120.1		
	5/1/2009 15:10	5/1/2009 15:10	Grab	Aqueous	1 Liter PE 1	None	pH-aq:SM4500H+B		
	5/1/2009 15:10	5/1/2009 15:10	Grab	Aqueous	1 Liter PE 1	None	TSS:SM2540D		
56094	5/1/2009 15:10	5/1/2009 15:10	Grab	Aqueous	1 Liter AG 1	HCL	E1664		

Total No. of Containers: 19

Shipping Document ID: BC pick-up

Turnaround Time****: 20 days

Lab Name: BCLABS-BAK

Sampled by:

Special Instructions/Comments:

Relinquished By (Sampler)

Signature

Time

Printed Name

Date

Company

Relinquished By

Signature

Time

Printed Name

Date

Company

Relinquished By

Signature

Time

Printed Name

Date

Company

Received By

Signature

Time

Printed Name

Date

Company

Received By

Signature

Time

Printed Name

Date

Company

Received By

Signature

Time

Printed Name

Date

Company

*REFERENCE DATE/TIME: Use this value for decay calculations in radiological analyses when applicable **Container Codes: AG = amber glass CG = clear glass PE = polyethylene VV = VOA vial

*** Field Sample ID: If present, use this information as the sample identifier in hard-copy reports (please include Sample Location information in the notes). If blank, and in electronic deliverable files, use Sample Location as the identifier. ****Listed turnaround time is for reporting and is in work days, as defined in the Joint LBNL/LLNL Analytical Services blanket order.

U.C. Lawrence Berkeley National Laboratory
1 Cyclotron Road
Berkeley CA 94720

LBNL ENVIRONMENTAL SERVICES GROUP
Chain of Custody

Send final reports to: Suying Xu, Mailstop 85B0198

For questions contact John Jelinski, e-mail: JAJelinski@lbl.gov

Phone: 510-486-7616

Fax: 510-486-7034

COC No.: 06084

Page 2 of 5

Release Number / Document Control No.: ESG-06084

Collection(s): 6797

0905845

Purpose: Surface Water Monitoring Program - ASWMP Sampling

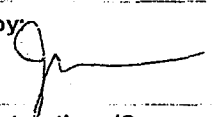
Sample Location	Date & Time Sampled	Reference Date/time*	Collection Method	Sample Type	Container Volume & Code** #	Preservative	Analysis Code	Field Sample ID***	Notes to Lab
56095 - 7	5/1/2009 15:10	5/1/2009 15:10	Grab	Aqueous	500 ml PE 1	H2SO4	NO3+NO2(asN):MULT		
56096 - 8	5/1/2009 15:10	5/1/2009 15:10	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:AL		
	5/1/2009 15:10	5/1/2009 15:10	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:FE		
	5/1/2009 15:10	5/1/2009 15:10	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:ZN		
56097 - 9	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	1 Liter PE 1	None	E120.1		
	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	1 Liter PE 1	None	pH-aq:SM4500H+B		
	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	1 Liter PE 1	None	TSS:SM2540D		
56098 - 10	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	1 Liter AG 1	HCL	E1664		
56099 - 11	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	500 ml PE 1	H2SO4	Ammonia(asN):MULT		
	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	500 ml PE 1	H2SO4	E410.4		
56100 - 12	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:AG		
	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:AS		

Total No. of Containers: 19

Shipping Document ID: BC pick-up

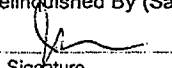
Turnaround Time****: 20 days

Lab Name: BCLABS-BAK

Sampled by: 

Special Instructions/Comments:


Relinquished By (Sampler)

 1245
Signature Time

JELINSKI 5/4/09
Printed Name Date

LBNL
Company

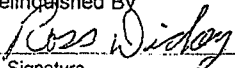
Received By

 1245
Signature Time

Ross Dickey 5/4/09
Printed Name Date

BCLAB
Company

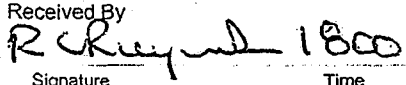
Relinquished By

 1800
Signature Time

Ross Dickey 5/4/09
Printed Name Date

BCLAB
Company


Received By

 1800
Signature Time

R. Chrym 5-4-09
Printed Name Date

BCU
Company

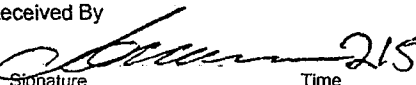
Relinquished By

 2150
Signature Time

R. Chrym 5-4-09
Printed Name Date

BCU
Company

Received By

 2150
Signature Time

Anthony 5-4-09
Printed Name Date

BCLAB
Company

*REFERENCE DATE/TIME: Use this value for decay calculations in radiological analyses when applicable **Container Codes: AG = amber glass CG = clear glass PE = polyethylene VV = VOA vial
*** Field Sample ID: If present, use this information as the sample identifier in hard-copy reports (please include Sample Location information in the notes). If blank, and in electronic deliverable files, use Sample Location as the identifier. ****Listed turnaround time is for reporting and is in work days, as defined in the Joint LBNL/LLNL Analytical Services blanket order.

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COC No.: 06084

Page 3 of 5

Release Number / Document Control No.: ESG-06084

Collection(s): 6797

0905845

Purpose: Surface Water Monitoring Program - ASWMP Sampling

Sample Location	Date & Time Sampled	Reference Date/time*	Collection Method	Sample Type	Container Volume & Code** #	Preservative	Analysis Code	Field Sample ID***	Notes to Lab
56100 -12	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:CD		
	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:MG		
	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:PB		
	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:SE		
	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	500 ml PE 1	HNO3	MET-aq:MULT-Hg		
56101 -13	5/1/2009 14:40	5/1/2009 14:40	Grab	Aqueous	500 ml PE 1	NaOH	E335.2		
56102 -14	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	1 Liter PE 1	None	E120.1		
	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	1 Liter PE 1	None	pH-aq:SM4500H+B		
	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	1 Liter PE 1	None	TSS:SM2540D		
56103 -15	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	1 Liter AG 1	HCL	E1664		
56104 -16	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	500 ml PE 1	H2SO4	Ammonia(asN):MULT		
	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	500 ml PE 1	H2SO4	E410.4		

Total No. of Containers: 19

Shipping Document ID: BC pick-up

Turnaround Time****: 20 days

Lab Name: BCLABS-BAK

Sampled by:

Special Instructions/Comments:

Relinquished By (Sampler)

Signature

Time

Printed Name

Date

Company

Received By

Signature

Time

Printed Name

Date

Company

Relinquished By

Signature

Time

Printed Name

Date

Company

Received By

Signature

Time

Printed Name

Date

Company

Relinquished By

Signature

Time

Printed Name

Date

Company

Received By

Signature

Time

Printed Name

Date

Company

*REFERENCE DATE/TIME: Use this value for decay calculations in radiological analyses when applicable **Container Codes: AG = amber glass CG = clear glass PE = polyethylene VV = VOA vial

*** Field Sample ID: If present, use this information as the sample identifier in hard-copy reports (please include Sample Location information in the notes). If blank, and in electronic deliverable files, use Sample Location as the identifier. ****Listed turnaround time is for reporting and is in work days, as defined in the Joint LBNL/LLNL Analytical Services blanket order.

U.C. Lawrence Berkeley National Laboratory
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LBNL ENVIRONMENTAL SERVICES GROUP
Chain of Custody

Send final reports to: Suying Xu, Mailstop 85B0198

For questions contact John Jelinski, e-mail: JAJelinski@lbl.gov

Phone: 510-486-7616

Fax: 510-486-7034

COC No.: 06084

Page 4 of 5

Release Number / Document Control No.: ESG-06084

Collection(s): 6797

0905845

Purpose: Surface Water Monitoring Program - ASWMP Sampling

Sample Location	Date & Time Sampled	Reference Date/time*	Collection Method	Sample Type	Container Volume & Code** #	Preservative	Analysis Code	Field Sample ID***	Notes to Lab
56105 - 17	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7-AG		
	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7-AS		
	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7-CD		
	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7-MG		
	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7-PB		
	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7-SE		
	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	500 ml PE 1	HNO3	MET-ag:MULT-Hg		
56106 - 18	5/1/2009 14:50	5/1/2009 14:50	Grab	Aqueous	500 ml PE 1	NaOH	E335.2		
56111 - 19	5/1/2009 16:50	5/1/2009 16:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7-AG		
	5/1/2009 16:50	5/1/2009 16:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7-AL		
	5/1/2009 16:50	5/1/2009 16:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7-AS		
	5/1/2009 16:50	5/1/2009 16:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7-CD		

Total No. of Containers: 19

Shipping Document ID: BC pick-up

Turnaround Time****: 20 days

Lab Name: BCLABS-BAK

Sampled by:

Special Instructions/Comments:

Relinquished By (Sampler)

Signature: [Signature] Time: 1245

Printed Name: JELINSKI Date: 5/2/09

Company: BCL

Received By

Signature: [Signature] Time: 1245

Printed Name: Ross Dickey Date: 5/4/09

Company: BCL

Relinquished By

Signature: [Signature] Time: 1800

Printed Name: Ross Dickey Date: 5/4/09

Company: BCL

Received By

Signature: [Signature] Time: 1800

Printed Name: R. [Signature] Date: 5-4-09

Company: BCL

Relinquished By

Signature: [Signature] Time: 2150

Printed Name: R. [Signature] Date: 5-4-09

Company: BCL

Received By

Signature: [Signature] Time: 2150

Printed Name: [Signature] Date: 05-04-09

Company: BCL

*REFERENCE DATE/TIME: Use this value for decay calculations in radiological analyses when applicable **Container Codes: AG = amber glass CG = clear glass PE = polyethylene VV = VOA vial

*** Field Sample ID: If present, use this information as the sample identifier in hard-copy reports (please include Sample Location information in the notes). If blank, and in electronic deliverable files, use Sample Location as the identifier. ****Listed turnaround time is for reporting and is in work days, as defined in the Joint LBNL/LLNL Analytical Services blanket order.

U.C. Lawrence Berkeley National Laboratory
1 Cyclotron Road
Berkeley CA 94720

LBNL ENVIRONMENTAL SERVICES GROUP
Chain of Custody

Send final reports to: Suying Xu, Mailstop 85B0198

For questions contact John Jelinski, e-mail: JAJelinski@lbl.gov

Phone: 510-486-7616

Fax: 510-486-7034

Purpose: Surface Water Monitoring Program - ASWMP Sampling

COC No.: 06084



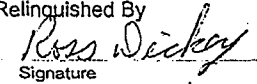
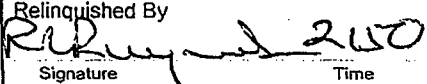

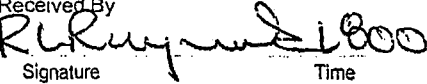

Page 5 of 5

Release Number / Document Control No.: ESG-06084

Collection(s): 6797

0905845

Sample Location	Date & Time Sampled	Reference Date/time*	Collection Method	Sample Type	Container Volume & Code** #	Preservative	Analysis Code	Field Sample ID***	Notes to Lab
56111 - 19	5/1/2009 16:50	5/1/2009 16:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:FE		
	5/1/2009 16:50	5/1/2009 16:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:MG		
	5/1/2009 16:50	5/1/2009 16:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:PB		
	5/1/2009 16:50	5/1/2009 16:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:SE		
	5/1/2009 16:50	5/1/2009 16:50	Grab	Aqueous	500 ml PE 1	HNO3	E200.7:ZN		
	5/1/2009 16:50	5/1/2009 16:50	Grab	Aqueous	500 ml PE 1	HNO3	MET-aq:MULT-Hg		

Total No. of Containers: 19 Shipping Document ID: BC pick-up Turnaround Time****: 20 days Lab Name: BCLABS-BAK Sampled by:  Special Instructions/Comments:	Relinquished By (Sampler)  Signature Time 12:45 Printed Name J. JELINSKI Date 5/4/09 Company LBNL	Relinquished By  Signature Time 1800 Printed Name Ross Dickay Date 5/4/09 Company BCLAB	Relinquished By  Signature Time 2150 Printed Name R. R. R. R. R. Date 5-4-09 Company BCL
	Received By  Signature Time 1245 Printed Name Ross Dickay Date 5/4/09 Company BCLAB	Received By  Signature Time 1800 Printed Name R. R. R. R. R. Date 5-4-09 Company BCL	Received By  Signature Time 2150 Printed Name Anthony Date 05-04-09 Company BCL

*REFERENCE DATE/TIME: Use this value for decay calculations in radiological analyses when applicable **Container Codes: AG = amber glass CG = clear glass PE = polyethylene VV = VOA vial
*** Field Sample ID: If present, use this information as the sample identifier in hard-copy reports (please include Sample Location information in the notes). If blank, and in electronic deliverable files, use Sample Location as the identifier. ****Listed turnaround time is for reporting and is in work days, as defined in the Joint LBNL/LLNL Analytical Services blanket order.

Submission #: 0905845

SHIPPING INFORMATION

 Federal Express ☐ UPS ☐ Hand Delivery ☐
 3C Lab Field Service ☒ Other ☐ (Specify)

SHIPPING CONTAINER

 Ice Chest ☒ None ☐
 Box ☐ Other ☐ (Specify)
Refrigerant: Ice ☐ Blue Ice ☐ None ☐ Other ☐ Comments: Custody Seals Ice Chest ☐ Containers ☐ None ☒ Comments: Intact? Yes ☐ No ☐Intact? Yes ☐ No ☐All samples received? Yes ☒ No ☐All samples containers intact? Yes ☒ No ☐Description(s) match COC? Yes ☒ No ☐

COC Received

☒ YES ☐ NOEmissivity: 0.98 Container: QAN Thermometer ID: TH103Date/Time 5/14/09 ²⁰⁰⁰Temperature: A 0.10 °C / C 0.3 °CAnalyst Init JNW

SAMPLE CONTAINERS

SAMPLE NUMBERS

	1	2	3	4	5	6	17	18	19	20
QT GENERAL MINERAL/ GENERAL PHYSICAL	A		A		A					A
PT PE UNPRESERVED										ALM 5/5
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS							A	A	A	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
10% NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
10ml VOA VIAL TRAVEL BLANK										
10ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1		A		A		A				
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 612										
QT EPA 8015M										
QT AMBER										
3 OZ. JAR										
12 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

CHK BY

DISTRIBUTION

CAPS/MA

SUB-OUT ☐Comments: Sample Numbering Completed By: ALM Date/Time: 05-05-09 1650

= Actual / C = Corrected

Submission #: 0905845

SHIPPING INFORMATION

 Federal Express ☐ UPS ☐ Hand Delivery ☐
 BC Lab Field Service ☐ Other ☐ (Specify)

SHIPPING CONTAINER

 Ice Chest ☒ None ☐
 Box ☐ Other ☐ (Specify)
Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments: Custody Seals Ice Chest ☐ Containers ☐ None ☒ Comments: Intact? Yes ☐ No ☐Intact? Yes ☐ No ☐All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐Description(s) match COC? Yes ☒ No ☐

COC Received

☒ YES ☐ NOEmissivity: 0.98 Container: Qfw Thermometer ID: M103Date/Time 5/14/09 2000Temperature: A 0.10 °C / C 0.3 °CAnalyst Init JNW

SAMPLE CONTAINERS

SAMPLE NUMBERS

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
QT GENERAL MINERAL/ GENERAL PHYSICAL				A					A	
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		A						A		
PT CYANIDE			A							
PT NITROGEN FORMS	A					A	A			
PT TOTAL SULFIDE										
202. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1					A					A
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: Sample Numbering Completed By: AM Date/Time: 05-05-09 1650

A = Actual / C = Corrected

(H:\DOCS\WPB01\LAB_DOCS\FORMS\SAMREC2.WPD)

Lawrence Berkeley National Laboratory
Environmental Services Group
1 Cyclotron Road, Mail Stop 85B0198
Berkeley, CA 94720

Project: Surface Water Monitoring Program
Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
0905845-01	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 15:30
	Sampling Location:	56089	Sample Depth:	—
	Sampling Point:	56089	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-02	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 15:30
	Sampling Location:	56090	Sample Depth:	—
	Sampling Point:	56090	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-03	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 15:40
	Sampling Location:	56091	Sample Depth:	—
	Sampling Point:	56091	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-04	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 15:40
	Sampling Location:	56092	Sample Depth:	—
	Sampling Point:	56092	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-05	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 15:10
	Sampling Location:	56093	Sample Depth:	—
	Sampling Point:	56093	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N

Lawrence Berkeley National Laboratory
Environmental Services Group
1 Cyclotron Road, Mail Stop 85B0198
Berkeley, CA 94720

Project: Surface Water Monitoring Program
Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
0905845-06	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 15:10
	Sampling Location:	56094	Sample Depth:	—
	Sampling Point:	56094	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-07	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 15:10
	Sampling Location:	56095	Sample Depth:	—
	Sampling Point:	56095	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-08	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 15:10
	Sampling Location:	56096	Sample Depth:	—
	Sampling Point:	56096	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-09	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 14:40
	Sampling Location:	56097	Sample Depth:	—
	Sampling Point:	56097	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-10	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 14:40
	Sampling Location:	56098	Sample Depth:	—
	Sampling Point:	56098	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N

Lawrence Berkeley National Laboratory
Environmental Services Group
1 Cyclotron Road, Mail Stop 85B0198
Berkeley, CA 94720

Project: Surface Water Monitoring Program
Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
0905845-11	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 14:40
	Sampling Location:	56099	Sample Depth:	—
	Sampling Point:	56099	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-12	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 14:40
	Sampling Location:	56100	Sample Depth:	—
	Sampling Point:	56100	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-13	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 14:40
	Sampling Location:	56101	Sample Depth:	—
	Sampling Point:	56101	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-14	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 14:50
	Sampling Location:	56102	Sample Depth:	—
	Sampling Point:	56102	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N
0905845-15	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 14:50
	Sampling Location:	56103	Sample Depth:	—
	Sampling Point:	56103	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
			Sample Matrix:	AQ
			Requestor:	J. Jelinski
			Sample Filtered in Field:	N

Lawrence Berkeley National Laboratory
Environmental Services Group
1 Cyclotron Road, Mail Stop 85B0198
Berkeley, CA 94720

Project: Surface Water Monitoring Program
Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

Laboratory / Client Sample Cross Reference

Laboratory		Client Sample Information		
0905845-16	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 14:50
	Sampling Location:	56104	Sample Depth:	—
	Sampling Point:	56104	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
0905845-17	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 14:50
	Sampling Location:	56105	Sample Depth:	—
	Sampling Point:	56105	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
0905845-18	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 14:50
	Sampling Location:	56106	Sample Depth:	—
	Sampling Point:	56106	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084
0905845-19	COC Number:	06084	Receive Date:	05/04/2009 22:50
	Project Number:	Surface Water Monitoring Program	Sampling Date:	05/01/2009 16:50
	Sampling Location:	56111	Sample Depth:	—
	Sampling Point:	56111	Sample Matrix:	Water
	Sampled By:	John Jelinski of LBL	Document Control Number:	ESG-06084

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Certifications: California - ELAP Certification Number 1186; Nevada Administrative Code - NAC-445A

Lawrence Berkeley National Laboratory
Environmental Services Group
1 Cyclotron Road, Mail Stop 85B0198
Berkeley, CA 94720

Project: Surface Water Monitoring Program
Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

Water Analysis (General Chemistry)

BCL Sample ID: 0905845-01		Client Sample Name: Surface Water Monitoring Program, 56089, 56089, 5/1/2009 3:30:00PM, John Jelinski													
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
pH	6.13	pH Units	0.05	No Prep	SM-4500HB	05/06/09	05/06/09 12:59	FM2	MET-1	1	BSE0361		pH-aq:SM 4500H+B	7000	S05
Electrical Conductivity @ 25 C	82.1	umhos/cm	1.00	No Prep	EPA-120.1	05/06/09	05/06/09 12:59	FM2	MET-1	1	BSE0361		E120.1	8000	
Total Suspended Solids (Glass Fiber)	100	mg/L	7.7	No Prep	SM-2540D	05/06/09	05/06/09 01:30	MRM	MANUAL	15.385	BSE0207		TSS:SM25 40D	7450	



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Environmental Services Group
1 Cyclotron Road, Mail Stop 85B0198
Berkeley, CA 94720

Project: Surface Water Monitoring Program
Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

EPA Method 1664

BCL Sample ID: 0905845-02			Client Sample Name: Surface Water Monitoring Program, 56090, 56090, 5/1/2009 3:30:00PM, John Jelinski												
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Oil and Grease	ND	mg/L	5.0	EPA	EPA-1664HI	05/15/09	05/15/09 13:00	JAK	MAN-SV	1	BSE1089		E1664	6325	
1664/HEM															

Lawrence Berkeley National Laboratory
Environmental Services Group
1 Cyclotron Road, Mail Stop 85B0198
Berkeley, CA 94720

Project: Surface Water Monitoring Program
Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13
COC Number: 06084

Water Analysis (General Chemistry)

BCL Sample ID: 0905845-03		Client Sample Name: Surface Water Monitoring Program, 56091, 56091, 5/1/2009 3:40:00PM, John Jelinski													
Constituent	Result	Units	PQL	Prep Method	Prep Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
pH	6.76	pH Units	0.05	No Prep	SM-4500HB	05/06/09	05/06/09 13:03	FM2	MET-1	1	BSE0361		pH-aq:SM 4500H+B	7000	S05
Electrical Conductivity @ 25 C	167	umhos/cm	1.00	No Prep	EPA-120.1	05/06/09	05/06/09 13:03	FM2	MET-1	1	BSE0361		E120.1	8000	
Total Suspended Solids (Glass Fiber)	88	mg/L	5.0	No Prep	SM-2540D	05/06/09	05/06/09 01:30	MRM	MANUAL	10	BSE0207		TSS:SM25 40D	7450	

Lawrence Berkeley National Laboratory
Environmental Services Group
1 Cyclotron Road, Mail Stop 85B0198
Berkeley, CA 94720

Project: Surface Water Monitoring Program
Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

EPA Method 1664

BCL Sample ID: 0905845-04			Client Sample Name: Surface Water Monitoring Program, 56092, 56092, 5/1/2009 3:40:00PM, John Jelinski												
Constituent	Result	Units	PQL	Prep Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals	
Oil and Grease	6.8	mg/L	5.0	EPA	EPA-1664HI	05/15/09	05/15/09 13:00	JAK	MAN-SV	1	BSE1089		E1664	6325	
1664/HEM															

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Lawrence Berkeley National Laboratory
Environmental Services Group
1 Cyclotron Road, Mail Stop 85B0198
Berkeley, CA 94720

Project: Surface Water Monitoring Program
Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

Water Analysis (General Chemistry)

BCL Sample ID: 0905845-05			Client Sample Name: Surface Water Monitoring Program, 56093, 56093, 5/1/2009 3:10:00PM, John Jelinski												
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
pH	6.79	pH Units	0.05	No Prep	SM-4500HB	05/06/09	05/06/09 13:07	FM2	MET-1	1	BSE0361		pH-aq:SM 4500H+B	7000	S05
Electrical Conductivity @ 25 C	89.3	umhos/cm	1.00	No Prep	EPA-120.1	05/06/09	05/06/09 13:07	FM2	MET-1	1	BSE0361		E120.1	8000	
Total Suspended Solids (Glass Fiber)	33	mg/L	1.7	No Prep	SM-2540D	05/06/09	05/06/09 01:30	MRM	MANUAL	3.333	BSE0207		TSS:SM25 40D	7450	

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Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

EPA Method 1664

BCL Sample ID: 0905845-06			Client Sample Name: Surface Water Monitoring Program, 56094, 56094, 5/1/2009 3:10:00PM, John Jelinski												
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Oil and Grease	ND	mg/L	5.0	EPA 1664/HEM	EPA-1664HI	05/15/09	05/15/09 13:00	JAK	MAN-SV	1	BSE1089		E1664	6325	

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Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

Water Analysis (General Chemistry)

BCL Sample ID: 0905845-07		Client Sample Name: Surface Water Monitoring Program, 56095, 56095, 5/1/2009 3:10:00PM, John Jelinski													
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Nitrate/Nitrite as N	0.76	mg/L	0.10	No Prep	EPA-353.2	05/07/09	05/07/09 16:57	JSM	SC-1	1	BSE0454		NO3+NO2(asN):MUL T	5950	

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Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

Water Analysis (Metals)

BCL Sample ID: 0905845-08			Client Sample Name: Surface Water Monitoring Program, 56096, 56096, 5/1/2009 3:10:00PM, John Jelinski												
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Total Aluminum	0.78	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 10:53	JDC	PE-OP2	1	BSE0370		E200.7:AL	0313	
Total Iron	1.8	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 10:53	JDC	PE-OP2	1	BSE0370		E200.7:FE	5350	
Total Zinc	0.84	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 10:53	JDC	PE-OP2	1	BSE0370		E200.7:ZN	9050	

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Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

Water Analysis (General Chemistry)

BCL Sample ID: 0905845-09		Client Sample Name: Surface Water Monitoring Program, 56097, 56097, 5/1/2009 2:40:00PM, John Jelinski													
Constituent	Result	Units	PQL	Prep Method	Prep Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
pH	5.57	pH Units	0.05	No Prep	SM-4500HB	05/06/09	05/06/09 13:10	FM2	MET-1	1	BSE0361		pH-aq:SM 4500H+B	7000	S05
Electrical Conductivity @ 25 C	131	umhos/cm	1.00	No Prep	EPA-120.1	05/06/09	05/06/09 13:10	FM2	MET-1	1	BSE0361		E120.1	8000	
Total Suspended Solids (Glass Fiber)	70	mg/L	2.5	No Prep	SM-2540D	05/06/09	05/06/09 01:30	MRM	MANUAL	5	BSE0208		TSS:SM25 40D	7450	

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Project Manager: John Jelinski

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COC Number: 06084

EPA Method 1664

BCL Sample ID: 0905845-10			Client Sample Name: Surface Water Monitoring Program, 56098, 56098, 5/1/2009 2:40:00PM, John Jelinski												
Constituent	Result	Units	PQL	Prep Method	Prep Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Oil and Grease	ND	mg/L	5.0	EPA 1664/HEM	EPA-1664HI	05/15/09	05/15/09 13:00	JAK	MAN-SV	1	BSE1089		E1664	6325	

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COC Number: 06084

Water Analysis (General Chemistry)

BCL Sample ID: 0905845-11		Client Sample Name: Surface Water Monitoring Program, 56099, 56099, 5/1/2009 2:40:00PM, John Jelinski													
Constituent	Result	Units	PQL	Prep Method	Prep Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Ammonia as N (Distilled)	1.6	mg/L	0.20	EPA 350.1	EPA-350.1	05/06/09	05/08/09 12:42	JSM	SC-1	2	BSE0274		Ammonia(asN):MUL T	0325	A01
Chemical Oxygen Demand	250	mg O/L	25	EPA 410.4	EPA-410.4	05/11/09	05/11/09 11:00	HPR	SPEC05	1	BSE0646		E410.4	1875	

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Water Analysis (General Chemistry)

BCL Sample ID: 0905845-12		Client Sample Name: Surface Water Monitoring Program, 56100, 56100, 5/1/2009 2:40:00PM, John Jelinski													
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Total Magnesium	2.2	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 10:58	JDC	PE-OP2	1	BSE0370		E200.7:MG	5500	

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COC Number: 06084

Water Analysis (Metals)

BCL Sample ID: 0905845-12			Client Sample Name: Surface Water Monitoring Program, 56100, 56100, 5/1/2009 2:40:00PM, John Jelinski												
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Total Arsenic	ND	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 10:58	JDC	PE-OP2	1	BSE0370		E200.7:AS	0450	
Total Cadmium	ND	mg/L	0.010	EPA 3010A	EPA-200.7	05/07/09	05/12/09 10:58	JDC	PE-OP2	1	BSE0370		E200.7:CD	1650	
Total Lead	ND	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 10:58	JDC	PE-OP2	1	BSE0370		E200.7:PB	5450	
Total Mercury	ND	mg/L	0.00020	EPA 245.1	EPA-245.1	05/14/09	05/15/09 12:45	MEV	CETAC1	1	BSE0911		MET-aq:M ULT-Hg	5600	
Total Selenium	ND	mg/L	0.10	EPA 3010A	EPA-200.7	05/07/09	05/12/09 10:58	JDC	PE-OP2	1	BSE0370		E200.7:SE	7600	
Total Silver	ND	mg/L	0.010	EPA 3010A	EPA-200.7	05/07/09	05/12/09 10:58	JDC	PE-OP2	1	BSE0370		E200.7:AG	7800	

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COC Number: 06084

Water Analysis (General Chemistry)

BCL Sample ID: 0905845-13		Client Sample Name: Surface Water Monitoring Program, 56101, 56101, 5/1/2009 2:40:00PM, John Jelinski													
Constituent	Result	Units	PQL	Prep Method	Prep Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Total Cyanide	ND	mg/L	0.0050	EPA 335.4	EPA-335.4	05/11/09	05/12/09 11:04	TDC	KONE-1	1	BSE0590		E335.2	2850	
				Total											

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COC Number: 06084

Water Analysis (General Chemistry)

BCL Sample ID: 0905845-14			Client Sample Name: Surface Water Monitoring Program, 56102, 56102, 5/1/2009 2:50:00PM, John Jelinski												
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
pH	5.92	pH Units	0.05	No Prep	SM-4500HB	05/06/09	05/06/09 13:14	FM2	MET-1	1	BSE0361		pH-aq:SM 4500H+B	7000	S05
Electrical Conductivity @ 25 C	88.3	umhos/cm	1.00	No Prep	EPA-120.1	05/06/09	05/06/09 13:14	FM2	MET-1	1	BSE0361		E120.1	8000	
Total Suspended Solids (Glass Fiber)	54	mg/L	2.5	No Prep	SM-2540D	05/06/09	05/06/09 01:30	MRM	MANUAL	5	BSE0208		TSS:SM25 40D	7450	

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COC Number: 06084

EPA Method 1664

BCL Sample ID: 0905845-15			Client Sample Name: Surface Water Monitoring Program, 56103, 56103, 5/1/2009 2:50:00PM, John Jelinski												
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Oil and Grease	ND	mg/L	5.0	EPA	EPA-1664HI	05/15/09	05/15/09 13:00	JAK	MAN-SV	1	BSE1089		E1664	6325	
				1664/HEM											

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COC Number: 06084

Water Analysis (General Chemistry)

BCL Sample ID: 0905845-16		Client Sample Name: Surface Water Monitoring Program, 56104, 56104, 5/1/2009 2:50:00PM, John Jelinski													
Constituent	Result	Units	PQL	Prep Method	Prep Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Ammonia as N (Distilled)	1.3	mg/L	0.10	EPA 350.1	EPA-350.1	05/06/09	05/08/09 12:42	JSM	SC-1	1	BSE0274		Ammonia(asN):MUL T	0325	
Chemical Oxygen Demand	190	mg O/L	25	EPA 410.4	EPA-410.4	05/11/09	05/11/09 11:00	HPR	SPEC05	1	BSE0646		E410.4	1875	

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COC Number: 06084

Water Analysis (General Chemistry)

BCL Sample ID: 0905845-17			Client Sample Name: Surface Water Monitoring Program, 56105, 56105, 5/1/2009 2:50:00PM, John Jelinski												
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Total Magnesium	1.9	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:02	JDC	PE-OP2	1	BSE0370		E200.7:MG	5500	

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Reported: 05/27/2009 16:13

COC Number: 06084

Water Analysis (Metals)

BCL Sample ID: 0905845-17		Client Sample Name: Surface Water Monitoring Program, 56105, 56105, 5/1/2009 2:50:00PM, John Jelinski													
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Total Arsenic	ND	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:02	JDC	PE-OP2	1	BSE0370		E200.7:AS	0450	
Total Cadmium	ND	mg/L	0.010	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:02	JDC	PE-OP2	1	BSE0370		E200.7:CD	1650	
Total Lead	ND	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:02	JDC	PE-OP2	1	BSE0370		E200.7:PB	5450	
Total Mercury	ND	mg/L	0.00020	EPA 245.1	EPA-245.1	05/14/09	05/15/09 12:52	MEV	CETAC1	1	BSE0911		MET-aq:M ULT-Hg	5600	
Total Selenium	ND	mg/L	0.10	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:02	JDC	PE-OP2	1	BSE0370		E200.7:SE	7600	
Total Silver	ND	mg/L	0.010	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:02	JDC	PE-OP2	1	BSE0370		E200.7:AG	7800	



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Water Analysis (General Chemistry)

BCL Sample ID: 0905845-18			Client Sample Name: Surface Water Monitoring Program, 56106, 56106, 5/1/2009 2:50:00PM, John Jelinski											
Constituent	Result	Units	PQL	Prep Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Total Cyanide	ND	mg/L	0.0050	EPA 335.4 EPA-335.4 Total	05/11/09	05/12/09 11:04	TDC	KONE-1	1	BSE0590		E335.2	2850	

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COC Number: 06084

Water Analysis (General Chemistry)

BCL Sample ID: 0905845-19		Client Sample Name: Surface Water Monitoring Program, 56111, 56111, 5/1/2009 4:50:00PM, John Jelinski													
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Total Magnesium	ND	mg/L	0.050	EPA	EPA-200.7	05/07/09	05/12/09 11:07	JDC	PE-OP2	1	BSE0370		E200.7:MG	5500	

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COC Number: 06084

Water Analysis (Metals)

BCL Sample ID: 0905845-19		Client Sample Name: Surface Water Monitoring Program, 56111, 56111, 5/1/2009 4:50:00PM, John Jelinski													
Constituent	Result	Units	PQL	Prep Method	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	CCV Ref ID	LLNL Method	LLNL Code	Lab Quals
Total Aluminum	ND	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:07	JDC	PE-OP2	1	BSE0370		E200.7:AL	0313	
Total Arsenic	ND	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:07	JDC	PE-OP2	1	BSE0370		E200.7:AS	0450	
Total Cadmium	ND	mg/L	0.010	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:07	JDC	PE-OP2	1	BSE0370		E200.7:CD	1650	
Total Iron	ND	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:07	JDC	PE-OP2	1	BSE0370		E200.7:FE	5350	
Total Lead	ND	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:07	JDC	PE-OP2	1	BSE0370		E200.7:PB	5450	
Total Mercury	ND	mg/L	0.00020	EPA 245.1	EPA-245.1	05/14/09	05/15/09 12:54	MEV	CETAC1	1	BSE0911		MET-aq:M ULT-Hg	5600	
Total Selenium	ND	mg/L	0.10	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:07	JDC	PE-OP2	1	BSE0370		E200.7:SE	7600	
Total Silver	ND	mg/L	0.010	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:07	JDC	PE-OP2	1	BSE0370		E200.7:AG	7800	
Total Zinc	ND	mg/L	0.050	EPA 3010A	EPA-200.7	05/07/09	05/12/09 11:07	JDC	PE-OP2	1	BSE0370		E200.7:ZN	9050	



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Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery Lab Quals
Oil and Grease	BSE1089	Duplicate	0905971-01	2.8000	ND		mg/L			18	
		Matrix Spike	0905143-97	0.95000	36.650	39.200	mg/L		91.1		78 - 114
		Matrix Spike Duplicate	0905143-97	0.95000	35.900	39.200	mg/L	2.1	89.2	18	78 - 114

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Lawrence Berkeley National Laboratory
Environmental Services Group
1 Cyclotron Road, Mail Stop 85B0198
Berkeley, CA 94720

Project: Surface Water Monitoring Program
Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		
									Percent Recovery	RPD	Percent Recovery Lab Quals
Total Suspended Solids (Glass Fiber)	BSE0207	Duplicate	0905832-01	35.000	35.000		mg/L	0		10	
Total Suspended Solids (Glass Fiber)	BSE0208	Duplicate	0905845-09	70.000	70.500		mg/L	0.7		10	
Ammonia as N (Distilled)	BSE0274	Duplicate	0905593-01	0.23810	0.20980		mg/L	12.6		20	
		Matrix Spike	0905593-01	0.23810	1.2898	1.0000	mg/L		105		80 - 120
		Matrix Spike Duplicate	0905593-01	0.23810	1.2633	1.0000	mg/L	1.9	103	20	80 - 120
pH	BSE0361	Duplicate	0905801-01	7.7100	7.7200		pH Units	0.1		20	
Electrical Conductivity @ 25 C	BSE0361	Duplicate	0905801-01	928.90	927.40		umhos/cm	0.2		10	
Total Magnesium	BSE0370	Duplicate	0905658-01	2.7271	2.7455		mg/L	0.7		20	
		Matrix Spike	0905658-01	2.7271	12.092	10.000	mg/L		93.6		75 - 125
		Matrix Spike Duplicate	0905658-01	2.7271	12.315	10.000	mg/L	2.4	95.9	20	75 - 125
Nitrate/Nitrite as N	BSE0454	Duplicate	0905905-03	4.5174	4.2807		mg/L	5.4		10	
		Matrix Spike	0905905-03	4.5174	6.2921	2.1053	mg/L		84.3		90 - 110 Q03
		Matrix Spike Duplicate	0905905-03	4.5174	6.2163	2.1053	mg/L	4.4	80.7	10	90 - 110 Q03
Total Cyanide	BSE0590	Duplicate	0905842-01	0.0017140	ND		mg/L			10	
		Matrix Spike	0905842-01	0.0017140	0.093368	0.10000	mg/L		91.7		90 - 110
		Matrix Spike Duplicate	0905842-01	0.0017140	0.091708	0.10000	mg/L	1.9	90.0	20	90 - 110
Chemical Oxygen Demand	BSE0646	Duplicate	0905813-01	1.3158	ND		mg O/L			20	
		Matrix Spike	0905813-01	1.3158	753.46	750.00	mg O/L		100		80 - 120
		Matrix Spike Duplicate	0905813-01	1.3158	755.86	750.00	mg O/L	1.0	101	20	80 - 120

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Reported: 05/27/2009 16:13

COC Number: 06084

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery Lab Quals
Total Aluminum	BSE0370	Duplicate	0905658-01	0.059550	0.063588		mg/L	6.6		20	
		Matrix Spike	0905658-01	0.059550	0.99367	1.0000	mg/L		93.4		75 - 125
		Matrix Spike Duplicate	0905658-01	0.059550	1.0255	1.0000	mg/L	3.4	96.6	20	75 - 125
Total Arsenic	BSE0370	Duplicate	0905658-01	0.0055099	ND		mg/L			20	
		Matrix Spike	0905658-01	0.0055099	0.19416	0.20000	mg/L		94.3		75 - 125
		Matrix Spike Duplicate	0905658-01	0.0055099	0.19971	0.20000	mg/L	2.9	97.1	20	75 - 125
Total Cadmium	BSE0370	Duplicate	0905658-01	0.00049317	ND		mg/L			20	
		Matrix Spike	0905658-01	0.00049317	0.19763	0.20000	mg/L		98.6		75 - 125
		Matrix Spike Duplicate	0905658-01	0.00049317	0.20020	0.20000	mg/L	1.3	99.9	20	75 - 125
Total Iron	BSE0370	Duplicate	0905658-01	0.46944	0.47498		mg/L	1.2		20	
		Matrix Spike	0905658-01	0.46944	1.4218	1.0000	mg/L		95.2		75 - 125
		Matrix Spike Duplicate	0905658-01	0.46944	1.4411	1.0000	mg/L	2.1	97.2	20	75 - 125
Total Lead	BSE0370	Duplicate	0905658-01	0.0033758	ND		mg/L			20	
		Matrix Spike	0905658-01	0.0033758	0.41507	0.40000	mg/L		103		75 - 125
		Matrix Spike Duplicate	0905658-01	0.0033758	0.42014	0.40000	mg/L	1.0	104	20	75 - 125
Total Selenium	BSE0370	Duplicate	0905658-01	-0.0027955	ND		mg/L			20	
		Matrix Spike	0905658-01	-0.0027955	0.17792	0.20000	mg/L		89.0		75 - 125
		Matrix Spike Duplicate	0905658-01	-0.0027955	0.18227	0.20000	mg/L	2.3	91.1	20	75 - 125
Total Silver	BSE0370	Duplicate	0905658-01	0.0021233	ND		mg/L			20	
		Matrix Spike	0905658-01	0.0021233	0.097813	0.10000	mg/L		95.7		75 - 125
		Matrix Spike Duplicate	0905658-01	0.0021233	0.099018	0.10000	mg/L	1.2	96.9	20	75 - 125
Total Zinc	BSE0370	Duplicate	0905658-01	0.064054	0.063810		mg/L	0.4		20	
		Matrix Spike	0905658-01	0.064054	0.60683	0.50000	mg/L		109		75 - 125
		Matrix Spike Duplicate	0905658-01	0.064054	0.59931	0.50000	mg/L	1.9	107	20	75 - 125
Total Mercury	BSE0911	Duplicate	0905842-01	0.000010000	ND		mg/L			20	
		Matrix Spike	0905842-01	0.000010000	0.00098250	0.0010000	mg/L		97.2		70 - 130
		Matrix Spike Duplicate	0905842-01	0.000010000	0.0010325	0.0010000	mg/L	4.8	102	20	70 - 130

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Project Number: ASWMP Sampling
Project Manager: John Jelinski

Reported: 05/27/2009 16:13

COC Number: 06084

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	<u>Control Limits</u>		Lab Quals
										Percent Recovery	RPD	
Oil and Grease	BSE1089	BSE1089-BS1	LCS	34.850	39.200	5.0	mg/L	88.9		78 - 114		

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Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Ammonia as N (Distilled)	BSE0274	BSE0274-BS1	LCS	0.97140	1.0000	0.10	mg/L	97.1		85 - 115		
pH	BSE0361	BSE0361-BS2	LCS	7.0800	7.0000	0.05	pH Units	101		95 - 105		
Electrical Conductivity @ 25 C	BSE0361	BSE0361-BS1	LCS	305.50	303.00	1.00	umhos/cm	101		90 - 110		
Total Magnesium	BSE0370	BSE0370-BS1	LCS	10.251	10.000	0.050	mg/L	103		85 - 115		
Nitrate/Nitrite as N	BSE0454	BSE0454-BS1	LCS	1.9945	2.0000	0.10	mg/L	99.7		90 - 110		
Total Cyanide	BSE0590	BSE0590-BS1	LCS	0.14517	0.15000	0.0050	mg/L	96.8		90 - 110		
Chemical Oxygen Demand	BSE0646	BSE0646-BS1	LCS	751.06	750.00	25	mg O/L	100		85 - 115		

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COC Number: 06084

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Total Aluminum	BSE0370	BSE0370-BS1	LCS	1.0174	1.0000	0.050	mg/L	102		85 - 115		
Total Arsenic	BSE0370	BSE0370-BS1	LCS	0.19855	0.20000	0.050	mg/L	99.3		85 - 115		
Total Cadmium	BSE0370	BSE0370-BS1	LCS	0.20553	0.20000	0.010	mg/L	103		85 - 115		
Total Iron	BSE0370	BSE0370-BS1	LCS	1.0397	1.0000	0.050	mg/L	104		85 - 115		
Total Lead	BSE0370	BSE0370-BS1	LCS	0.43889	0.40000	0.050	mg/L	110		85 - 115		
Total Selenium	BSE0370	BSE0370-BS1	LCS	0.18287	0.20000	0.10	mg/L	91.4		85 - 115		
Total Silver	BSE0370	BSE0370-BS1	LCS	0.10068	0.10000	0.010	mg/L	101		85 - 115		
Total Zinc	BSE0370	BSE0370-BS1	LCS	0.55648	0.50000	0.050	mg/L	111		85 - 115		
Total Mercury	BSE0911	BSE0911-BS1	LCS	0.00096250	0.0010000	0.00020	mg/L	96.2		85 - 115		

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COC Number: 06084

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Oil and Grease	BSE1089	BSE1089-BLK1	ND	mg/L	5.0		

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Reported: 05/27/2009 16:13

COC Number: 06084

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Total Suspended Solids (Glass Fiber)	BSE0207	BSE0207-BLK1	ND	mg/L	0.50		
Total Suspended Solids (Glass Fiber)	BSE0208	BSE0208-BLK1	ND	mg/L	0.50		
Ammonia as N (Distilled)	BSE0274	BSE0274-BLK1	ND	mg/L	0.10		
Total Magnesium	BSE0370	BSE0370-BLK1	ND	mg/L	0.050		
Nitrate/Nitrite as N	BSE0454	BSE0454-BLK1	ND	mg/L	0.10		
Total Cyanide	BSE0590	BSE0590-BLK1	ND	mg/L	0.0050		
Chemical Oxygen Demand	BSE0646	BSE0646-BLK1	ND	mg O/L	25		

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COC Number: 06084

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Total Aluminum	BSE0370	BSE0370-BLK1	ND	mg/L	0.050		
Total Arsenic	BSE0370	BSE0370-BLK1	ND	mg/L	0.050		
Total Cadmium	BSE0370	BSE0370-BLK1	ND	mg/L	0.010		
Total Iron	BSE0370	BSE0370-BLK1	ND	mg/L	0.050		
Total Lead	BSE0370	BSE0370-BLK1	ND	mg/L	0.050		
Total Selenium	BSE0370	BSE0370-BLK1	ND	mg/L	0.10		
Total Silver	BSE0370	BSE0370-BLK1	ND	mg/L	0.010		
Total Zinc	BSE0370	BSE0370-BLK1	ND	mg/L	0.050		
Total Mercury	BSE0911	BSE0911-BLK1	ND	mg/L	0.00020		

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Notes And Definitions

MDL Method Detection Limit
ND Analyte Not Detected at or above the reporting limit
PQL Practical Quantitation Limit
RPD Relative Percent Difference
A01 PQL's and MDL's are raised due to sample dilution.
Q03 Matrix spike recovery(s) is(are) not within the control limits.
S05 The sample holding time was exceeded.

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