

Date of Report: 01/28/2016

George Wegmann

**Golder Associates** 425 Lakeside Drive Sunnyvale, CA 94085

Client Project: 0637109922

**BCL Project:** Lehigh **BCL Work Order:** 1601351 B225208 Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 1/13/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101



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Chain of Custody and Cooler Receipt Form for 160135 Laboratories, Inc.
Environmental Testing Laboratory Since 1949

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<b>GASS</b>	lder Ociate	S		CHAIN	OF C	USTO	DY					Q	uotation No.	
PROJECT AND PI		SITE NA	AME:					A	NALYSES			El	OD Required?	
06371099	22		Lehigh Perman	nente	6		inus						Yes/No	
SAMPLER SIGNA / Co - C	ture(s): 2/35/	JAN 6	)-li	hala an an an ann an an an an an an an an a	, TDS (2540C) tter (2540F)	(1664)	200 series, n	218.6)	(1)				DF Required?	
CONTRACT LABO	ORATORY:	BC Standard	-	Container Info	TSS (2540D), TDS (25400 Settleable Matter (2540F)	Oil & Grease (1664)	PP13 Metals (200 series, minus Hg)	Hex Chrome (218.6)	Mercury (1631)				Yes/No	
				Туре	poly	amber	poly	, , , , , , , , , , , , , , , , , , ,	glass			+		
				Volume	IL	1 L	500 ml	e de la companya de l	500 ml				The state of the s	
Sample Lab	Colle	T	<b>.</b>	Filter	N	N	N	N	N			Cont.		
ID ID Pond 30 (EFF-006)	Date	Time	Matrix Dept	h Preserv.	N	H2SO4	HNO3		None			Qty.	Remarks	
	1/13/16	0850	W		a	1	1	1	1			6		
		, the second sec	Tourse de la contraction de la			B-OUT N	A							
	-	(Cr+6)	NO <sub>2</sub> NO	7	ss)									
Relinquished by (sigr	nature):		Received by (	1			Date/T			10		SULTS TO		
Refinquished by (sign	ature):		Received by (s	P.BUS	ECL		1/13	16	12	18M	Attention	am Barket, C : George W	egmann; Kim DeVillie	
Phi BCC	PCC 1/13/16 1401 , James			Brown				Date/Time: 140/			Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085			
linquished by (signature): Received by (signature) Rec			signature):	Date/Time:				Phone (40	Phone (408) 220-9223 Fax (408) 220-9224					



Chain of Custody and Cooler Receipt Form for 1601351 Page 2 of 2

BC LABORATORIES INC.			COOLER	RECEIP	FORM			Pag	ie (	Of
Submission #: 1 6 - 0 135	1									+
SHIPPING INFORT				7	· · · · · · · · · · · · · · · · · · ·	CONTA	INIED	<del>- 1</del>		
Fed Ex □ UPS □ Ontrac		d Delivei	ry 🗆	Ice Ch	est (Sp	CONTA None 🗆	INER Box □		FREE LIQ YES 🗆 N	
Refrigerant: Ice M Blue Ice	None	<b>.</b> 🗆	Other 🗆	Com	nents:					
Custody Seals Ice Chest □ Intact? Yes □ No □	Containe		None	Com	ments:					
	All samples			^			otion(s) mate			
MAKE THO	ssivity: <u>(/</u> emperature		Container:	*C /		meter ID: _	208 °c	Date/Tin	ne <u>l · 13 · 16</u> Init <i>M</i>	- 2020
						E NUMBERS			7	
SAMPLE CONTAINERS	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	BC									
40z/80z/160z PE UNPRES	<u> </u>	ļ	ļ				<u> </u>			
20z Cr*6	A		ļ		ļ	<u>                                     </u>	ļ			
OT INORGANIC CHEMICAL METALS	-	<b> </b>			ļ					
NORGANIC CHEMICAL METALS 40z / 80z (160z)	D	ļ	ļ		<b> </b>		ļ			
T CYANIDE	<b> </b>	ļ	ļ		ļ	ļ				
T NITROGEN FORMS	<b> </b>	ļ	ļ		ļ					
T TOTAL SULFIDE	<b> </b>		ļ		<b> </b>	ļ				
oz. NITRATE / NITRITE	<u> </u>			-,		<b></b>				
T TOTAL ORGANIC CARBON	<b></b>		ļi			ļ				
T CHEMICAL OXYGEN DEMAND			<del></del>	·						
TA PHENOLICS										
0ml VOA VIAL TRAVEL BLANK				~						
Omi VOA VIAL OT EPA 1664	E									
T ODOR	<u> </u>									
ADIOLOGICAL									<del></del>	———
ACTERIOLOGICAL										
ml VOA VIAL- 504								l		
T EPA 508/608/8080										
T EPA 515.1/8150										
T EPA 525							<del></del>	<del>-</del>		
T EPA 525 TRAVEL BLANK										
ml EPA 547					1					
ml EPA 531.1										
z EPA 548										
Г ЕРА 549										
F EPA 8015M										
Γ EPA 8270										
z/16oz/32oz AMBER										
z)160z/320z JAR	4									
IL SLEEVE	,									
B VIAL										
ASTIC BAG		-4								
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CORE										
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**Golder Associates** Reported: 01/28/2016 15:26 Project: Lehigh 425 Lakeside Drive

Sunnyvale, CA 94085 Project Number: 0637109922 Project Manager: George Wegmann

## **Laboratory / Client Sample Cross Reference**

Laboratory **Client Sample Information** 1601351-01 01/13/2016 08:50 **COC Number:** Receive Date: **Project Number:** Sampling Date: 01/13/2016 08:50 Pond 30 (EFF-006) Sample Depth: **Sampling Location:** Sampling Point: Pond 30 (EFF-006) Lab Matrix: Water Sampled By: Sample Type: Water

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425 Lakeside Drive Sunnyvale, CA 94085

01/28/2016 15:26 Reported:

Project: Lehigh Project Number: 0637109922

Project Manager: George Wegmann

#### **EPA Method 1664**

BCL Sample ID:	1601351-01	Client Sampl	e Name:	Pond 30 (	EFF-006),	Pond 30 (EFF-006	8:50:00AM		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease		ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-1664A HEM	01/19/16	01/19/16 14:00	MAM	MAN-SV	1	BZA1992	

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Reported: 01/28/2016 15:26

Project: Lehigh

Project Number: 0637109922 Project Manager: George Wegmann

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085

# Water Analysis (General Chemistry)

BCL Sample ID:	1601351-01	Client Sampl	e Name:	Pond 30 (	EFF-006),	Pond 30 (EFF-0	06), 1/13/2016	8:50:00AM	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Dissolved Solid	s @ 180 C	1000	mg/L	50	50	SM-2540C	ND		1
Total Suspended Soli	ids (Glass Fiber)	6.5	mg/L	0.50	0.50	SM-2540D	ND		2
Settleable Solids		ND	ml/L	0.10	0.10	SM-2540F			3

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	SM-2540C	01/18/16	01/18/16 13:00	CAD	MANUAL	5	BZA1383
2	SM-2540D	01/19/16	01/19/16 12:58	OJP	MANUAL	1	BZA1539
3	SM-2540F	01/14/16	01/14/16 07:25	RT1	MANUAL	1	BZA1121

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425 Lakeside Drive Sunnyvale, CA 94085

01/28/2016 15:26 Reported:

Project: Lehigh

Project Number: 0637109922 Project Manager: George Wegmann

# **Metals Analysis**

BCL Sample ID:	1601351-01	Client Sampl	e Name:	Pond 30 (	(EFF-006),	Pond 30 (EFF-0	06), 1/13/2016	8:50:00AM	
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromiu	m	2.2	ug/L	0.20	0.055	EPA-218.6	ND		1
Total Recoverable A	ntimony	0.19	ug/L	2.0	0.11	EPA-200.8	ND	J	2
Total Recoverable A	rsenic	1.4	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Be	ryllium	ND	ug/L	1.0	0.14	EPA-200.8	ND		2
Total Recoverable Ca	admium	0.41	ug/L	1.0	0.11	EPA-200.8	ND	J	2
Total Recoverable CI	nromium	10	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Co	opper	7.3	ug/L	2.0	0.22	EPA-200.8	0.62		2
Total Recoverable Le	ead	0.16	ug/L	1.0	0.10	EPA-200.8	ND	J	2
Total Recoverable Ni	ckel	11	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Se	elenium	14	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Sil	ver	ND	ug/L	1.0	0.10	EPA-200.8	ND		2
Total Recoverable Th	nallium	0.14	ug/L	1.0	0.10	EPA-200.8	ND	J	2
Total Recoverable Zi	nc	100	ug/L	10	1.7	EPA-200.8	ND		2

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-218.6	01/14/16	01/14/16 12:44	OLH	IC-4	1	BZA1131	
2	EPA-200.8	01/20/16	01/21/16 11:58	GPD	PE-EL2	1	BZA1613	

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Golder Associates
425 Lakeside Drive

Sunnyvale, CA 94085

Reported: 01/28/2016 15:26

Project: Lehigh

Project Number: 0637109922 Project Manager: George Wegmann

#### **EPA Method 1664**

#### **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA1992						
Oil and Grease	BZA1992-BLK1	ND	mg/L	5.0	1.7	

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Project: Lehigh

Project Number: 0637109922
Project Manager: George Wegmann

#### **EPA Method 1664**

#### **Quality Control Report - Laboratory Control Sample**

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control L Percent Recovery	imits RPD	Lab Quals
QC Batch ID: BZA1992										
Oil and Grease	BZA1992-BS1	LCS	38.050	42.200	mg/L	90.2		78 - 114		

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Project: Lehigh

Project Number: 0637109922
Project Manager: George Wegmann

#### **EPA Method 1664**

#### **Quality Control Report - Precision & Accuracy**

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BZA1992	Use	d client samp	ole: N								
Oil and Grease	DUP	1532390-35	ND	ND		mg/L			18		
	MS	1532390-35	ND	38.950	42.200	mg/L		92.3		78 - 114	
	MSD	1532390-35	ND	37.150	42.200	mg/L	4.7	88.0	18	78 - 114	

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# Water Analysis (General Chemistry)

## **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA1383						
Total Dissolved Solids @ 180 C	BZA1383-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BZA1539						
Total Suspended Solids (Glass Fiber)	BZA1539-BLK1	ND	mg/L	0.50	0.50	

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Project: Lehigh

Project Number: 0637109922 Project Manager: George Wegmann

# Water Analysis (General Chemistry)

#### **Quality Control Report - Laboratory Control Sample**

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control I Percent Recovery	Lab Quals	
QC Batch ID: BZA1383										
Total Dissolved Solids @ 180 C	BZA1383-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		

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Project: Lehigh

Project Number: 0637109922 Project Manager: George Wegmann

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085

## **Water Analysis (General Chemistry)**

#### **Quality Control Report - Precision & Accuracy**

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BZA1121	Use	d client samp	le: Y - Des	scription: Pond	30 (EFF-0	006), 01/13	3/2016	08:50			
Settleable Solids	DUP	1601351-01	ND	ND		ml/L			10		
QC Batch ID: BZA1383	Use	d client samp	le: Y - Des	scription: Pond	30 (EFF-0	06), 01/13	3/2016	08:50			
Total Dissolved Solids @ 180 C	DUP	1601351-01	1045.0	1045.0		mg/L	0		10		
QC Batch ID: BZA1539	Use	d client samp	le: N								
Total Suspended Solids (Glass Fiber)	DUP	1601321-01	76.000	76.000		mg/L	0		10		

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Project: Lehigh

Project Number: 0637109922 Project Manager: George Wegmann

**Metals Analysis** 

#### **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA1131						
Hexavalent Chromium	BZA1131-BLK1	ND	ug/L	0.20	0.055	
QC Batch ID: BZA1613						
Total Recoverable Antimony	BZA1613-BLK1	ND	ug/L	2.0	0.11	
Total Recoverable Arsenic	BZA1613-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Beryllium	BZA1613-BLK1	ND	ug/L	1.0	0.14	
Total Recoverable Cadmium	BZA1613-BLK1	ND	ug/L	1.0	0.11	
Total Recoverable Chromium	BZA1613-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Copper	BZA1613-BLK1	0.62000	ug/L	2.0	0.22	J
Total Recoverable Lead	BZA1613-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Nickel	BZA1613-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Selenium	BZA1613-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Silver	BZA1613-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Thallium	BZA1613-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Zinc	BZA1613-BLK1	ND	ug/L	10	1.7	

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425 Lakeside Drive Project: Lehigh
Sunnyvale, CA 94085 Project Number: 0637109922
Project Manager: George Wegmann

## **Metals Analysis**

#### **Quality Control Report - Laboratory Control Sample**

						<b>Control Limits</b>			
QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
BZA1131-BS1	LCS	20.369	20.000	ug/L	102		90 - 110		
BZA1613-BS1	LCS	40.514	40.000	ug/L	101		85 - 115		
BZA1613-BS1	LCS	97.221	100.00	ug/L	97.2		85 - 115		
BZA1613-BS1	LCS	41.048	40.000	ug/L	103		85 - 115		
BZA1613-BS1	LCS	40.913	40.000	ug/L	102		85 - 115		
BZA1613-BS1	LCS	42.989	40.000	ug/L	107		85 - 115		
BZA1613-BS1	LCS	100.98	100.00	ug/L	101		85 - 115		
BZA1613-BS1	LCS	102.05	100.00	ug/L	102		85 - 115		
BZA1613-BS1	LCS	99.491	100.00	ug/L	99.5		85 - 115		
BZA1613-BS1	LCS	100.72	100.00	ug/L	101		85 - 115		
BZA1613-BS1	LCS	40.010	40.000	ug/L	100		85 - 115		
BZA1613-BS1	LCS	40.293	40.000	ug/L	101		85 - 115		
BZA1613-BS1	LCS	98.546	100.00	ug/L	98.5		85 - 115		
	BZA1613-BS1	BZA1131-BS1 LCS  BZA1613-BS1 LCS	BZA1131-BS1 LCS 20.369  BZA1613-BS1 LCS 40.514  BZA1613-BS1 LCS 97.221  BZA1613-BS1 LCS 41.048  BZA1613-BS1 LCS 40.913  BZA1613-BS1 LCS 42.989  BZA1613-BS1 LCS 100.98  BZA1613-BS1 LCS 102.05  BZA1613-BS1 LCS 99.491  BZA1613-BS1 LCS 40.010  BZA1613-BS1 LCS 40.010  BZA1613-BS1 LCS 40.293	QC Sample ID         Type         Result         Level           BZA1131-BS1         LCS         20.369         20.000           BZA1613-BS1         LCS         40.514         40.000           BZA1613-BS1         LCS         97.221         100.00           BZA1613-BS1         LCS         41.048         40.000           BZA1613-BS1         LCS         40.913         40.000           BZA1613-BS1         LCS         42.989         40.000           BZA1613-BS1         LCS         100.98         100.00           BZA1613-BS1         LCS         102.05         100.00           BZA1613-BS1         LCS         99.491         100.00           BZA1613-BS1         LCS         40.010         40.000           BZA1613-BS1         LCS         40.010         40.000           BZA1613-BS1         LCS         40.293         40.000	QC Sample ID         Type         Result         Level         Units           BZA1131-BS1         LCS         20.369         20.000         ug/L           BZA1613-BS1         LCS         40.514         40.000         ug/L           BZA1613-BS1         LCS         97.221         100.00         ug/L           BZA1613-BS1         LCS         41.048         40.000         ug/L           BZA1613-BS1         LCS         40.913         40.000         ug/L           BZA1613-BS1         LCS         42.989         40.000         ug/L           BZA1613-BS1         LCS         100.98         100.00         ug/L           BZA1613-BS1         LCS         102.05         100.00         ug/L           BZA1613-BS1         LCS         99.491         100.00         ug/L           BZA1613-BS1         LCS         100.72         100.00         ug/L           BZA1613-BS1         LCS         40.010         40.000         ug/L           BZA1613-BS1         LCS         40.010         40.000         ug/L	QC Sample ID         Type         Result         Level         Units         Recovery           BZA1131-BS1         LCS         20.369         20.000         ug/L         102           BZA1613-BS1         LCS         40.514         40.000         ug/L         101           BZA1613-BS1         LCS         97.221         100.00         ug/L         97.2           BZA1613-BS1         LCS         41.048         40.000         ug/L         103           BZA1613-BS1         LCS         40.913         40.000         ug/L         102           BZA1613-BS1         LCS         42.989         40.000         ug/L         107           BZA1613-BS1         LCS         100.98         100.00         ug/L         101           BZA1613-BS1         LCS         102.05         100.00         ug/L         102           BZA1613-BS1         LCS         99.491         100.00         ug/L         99.5           BZA1613-BS1         LCS         100.72         100.00         ug/L         101           BZA1613-BS1         LCS         40.010         40.000         ug/L         101           BZA1613-BS1         LCS         40.010         40.000	QC Sample ID         Type         Result         Level         Units         Recovery         RPD           BZA1131-BS1         LCS         20.369         20.000         ug/L         102           BZA1613-BS1         LCS         40.514         40.000         ug/L         101           BZA1613-BS1         LCS         97.221         100.00         ug/L         97.2           BZA1613-BS1         LCS         41.048         40.000         ug/L         103           BZA1613-BS1         LCS         40.913         40.000         ug/L         102           BZA1613-BS1         LCS         42.989         40.000         ug/L         107           BZA1613-BS1         LCS         100.98         100.00         ug/L         101           BZA1613-BS1         LCS         102.05         100.00         ug/L         99.5           BZA1613-BS1         LCS         99.491         100.00         ug/L         101           BZA1613-BS1         LCS         40.010         40.000         ug/L         101           BZA1613-BS1         LCS         40.010         40.000         ug/L         101           BZA1613-BS1         LCS         40.010 <td< td=""><td>QC Sample ID         Type         Result         Spike Level         Units         Percent Recovery         RPD         Percent Recovery           BZA1131-BS1         LCS         20.369         20.000         ug/L         102         90 - 110           BZA1613-BS1         LCS         40.514         40.000         ug/L         101         85 - 115           BZA1613-BS1         LCS         97.221         100.00         ug/L         97.2         85 - 115           BZA1613-BS1         LCS         41.048         40.000         ug/L         103         85 - 115           BZA1613-BS1         LCS         40.913         40.000         ug/L         102         85 - 115           BZA1613-BS1         LCS         42.989         40.000         ug/L         107         85 - 115           BZA1613-BS1         LCS         100.98         100.00         ug/L         101         85 - 115           BZA1613-BS1         LCS         102.05         100.00         ug/L         102         85 - 115           BZA1613-BS1         LCS         102.05         100.00         ug/L         102         85 - 115           BZA1613-BS1         LCS         100.72         100.00         ug/L</td><td>QC Sample ID         Type         Result         Spike Level         Units         Percent Recovery         RPD         Percent Recovery         RPD           BZA1131-BS1         LCS         20.369         20.000         ug/L         102         90 - 110         90 - 110           BZA1613-BS1         LCS         40.514         40.000         ug/L         101         85 - 115           BZA1613-BS1         LCS         97.221         100.00         ug/L         97.2         85 - 115           BZA1613-BS1         LCS         41.048         40.000         ug/L         103         85 - 115           BZA1613-BS1         LCS         40.913         40.000         ug/L         102         85 - 115           BZA1613-BS1         LCS         42.989         40.000         ug/L         107         85 - 115           BZA1613-BS1         LCS         100.98         100.00         ug/L         101         85 - 115           BZA1613-BS1         LCS         102.05         100.00         ug/L         102         85 - 115           BZA1613-BS1         LCS         100.72         100.00         ug/L         101         85 - 115           BZA1613-BS1         LCS         40.010</td></td<>	QC Sample ID         Type         Result         Spike Level         Units         Percent Recovery         RPD         Percent Recovery           BZA1131-BS1         LCS         20.369         20.000         ug/L         102         90 - 110           BZA1613-BS1         LCS         40.514         40.000         ug/L         101         85 - 115           BZA1613-BS1         LCS         97.221         100.00         ug/L         97.2         85 - 115           BZA1613-BS1         LCS         41.048         40.000         ug/L         103         85 - 115           BZA1613-BS1         LCS         40.913         40.000         ug/L         102         85 - 115           BZA1613-BS1         LCS         42.989         40.000         ug/L         107         85 - 115           BZA1613-BS1         LCS         100.98         100.00         ug/L         101         85 - 115           BZA1613-BS1         LCS         102.05         100.00         ug/L         102         85 - 115           BZA1613-BS1         LCS         102.05         100.00         ug/L         102         85 - 115           BZA1613-BS1         LCS         100.72         100.00         ug/L	QC Sample ID         Type         Result         Spike Level         Units         Percent Recovery         RPD         Percent Recovery         RPD           BZA1131-BS1         LCS         20.369         20.000         ug/L         102         90 - 110         90 - 110           BZA1613-BS1         LCS         40.514         40.000         ug/L         101         85 - 115           BZA1613-BS1         LCS         97.221         100.00         ug/L         97.2         85 - 115           BZA1613-BS1         LCS         41.048         40.000         ug/L         103         85 - 115           BZA1613-BS1         LCS         40.913         40.000         ug/L         102         85 - 115           BZA1613-BS1         LCS         42.989         40.000         ug/L         107         85 - 115           BZA1613-BS1         LCS         100.98         100.00         ug/L         101         85 - 115           BZA1613-BS1         LCS         102.05         100.00         ug/L         102         85 - 115           BZA1613-BS1         LCS         100.72         100.00         ug/L         101         85 - 115           BZA1613-BS1         LCS         40.010

Report ID: 1000442115 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 16 of 23

425 Lakeside Drive Sunnyvale, CA 94085

01/28/2016 15:26 Reported:

> Project: Lehigh Project Number: 0637109922 Project Manager: George Wegmann

# Metals Analysis

#### **Quality Control Report - Precision & Accuracy**

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BZA1131	Use	d client samp	ole: N								
Hexavalent Chromium	<b></b> DUP	1601383-01	30.363	29.690		ug/L	2.2		10		
	MS	1601383-01	30.363	50.817	20.202	ug/L		101		90 - 110	
	MSD	1601383-01	30.363	50.700	20.202	ug/L	0.2	101	10	90 - 110	
QC Batch ID: BZA1613	Use	d client samp	ole: Y - Des	scription: Po	nd 30 (EFF-	006). 01/1	3/2016	08:50			
Total Recoverable Antimony	<b>─</b> 」 DUP	1601351-01	0.18900	0.20000	,	ug/L	5.7		20		J
	MS	1601351-01	0.18900	41.135	40.000	ug/L		102		70 - 130	
	MSD	1601351-01	0.18900	41.116	40.000	ug/L	0.0	102	20	70 - 130	
Fotal Recoverable Arsenic	DUP	1601351-01	1.3890	ND		ug/L			20		
	MS	1601351-01	1.3890	109.58	100.00	ug/L		108		70 - 130	
	MSD	1601351-01	1.3890	105.11	100.00	ug/L	4.2	104	20	70 - 130	
Total Recoverable Beryllium	DUP	1601351-01	ND	ND		ug/L			20		
	MS	1601351-01	ND	43.007	40.000	ug/L		108	• •	70 - 130	
	MSD	1601351-01	ND	42.529	40.000	ug/L	1.1	106	20	70 - 130	
Fotal Recoverable Cadmium	DUP	1601351-01	0.41000	0.39000		ug/L	5.0		20		J
	MS	1601351-01	0.41000	40.041	40.000	ug/L		99.1		70 - 130	_
	MSD	1601351-01	0.41000	38.482	40.000	ug/L	4.0	95.2	20	70 - 130	
Total Recoverable Chromium	DUP	1601351-01	10.221	4.3520		ug/L	80.5		20		Q01
	MS	1601351-01	10.221	50.579	40.000	ug/L		101		70 - 130	
	MSD	1601351-01	10.221	49.391	40.000	ug/L	2.4	97.9	20	70 - 130	
Total Recoverable Copper	DUP	1601351-01	7.2980	10.423		ug/L	35.3		20		Q01
••	MS	1601351-01	7.2980	104.30	100.00	ug/L		97.0		70 - 130	
	MSD	1601351-01	7.2980	100.12	100.00	ug/L	4.1	92.8	20	70 - 130	
Total Recoverable Lead	DUP	1601351-01	0.15700	0.16900		ug/L	7.4		20		J
	MS	1601351-01	0.15700	94.072	100.00	ug/L		93.9		70 - 130	
	MSD	1601351-01	0.15700	94.366	100.00	ug/L	0.3	94.2	20	70 - 130	
Total Recoverable Nickel	DUP	1601351-01	10.569	11.495		ug/L	8.4		20		
	MS	1601351-01	10.569	113.14	100.00	ug/L		103	• •	70 - 130	
	MSD	1601351-01	10.569	109.40	100.00	ug/L	3.4	98.8	20	70 - 130	
Total Recoverable Selenium	DUP	1601351-01	13.730	14.744		ug/L	7.1		20		
	MS	1601351-01	13.730	128.01	100.00	ug/L		114		70 - 130	
	MSD	1601351-01	13.730	124.23	100.00	ug/L	3.0	110	20	70 - 130	
Total Recoverable Silver	DUP	1601351-01	ND	ND		ug/L			20		
	MS	1601351-01	ND	39.246	40.000	ug/L		98.1	• •	70 - 130	
	MSD	1601351-01	ND	38.289	40.000	ug/L	2.5	95.7	20	70 - 130	
Fotal Recoverable Thallium	DUP	1601351-01	0.13800	0.14300		ug/L	3.6		20		J
tal Recoverable Maillum	MS	1601351-01	0.13800	37.991	40.000	ug/L	2.0	94.6		70 - 130	ŭ
	MSD	1601351-01	0.13800	38.018	40.000	ug/L	0.1	94.7	20	70 - 130	

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Report ID: 1000442115



425 Lakeside Drive Sunnyvale, CA 94085 Reported: 01/28/2016 15:26

Project: Lehigh

Project Number: 0637109922 Project Manager: George Wegmann

## **Metals Analysis**

#### **Quality Control Report - Precision & Accuracy**

							Control Limits				
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BZA1613	Use	d client samp	ole: Y - Des	cription: Po	nd 30 (EFF-	006), 01/1	3/2016	08:50			
Total Recoverable Zinc	DUP	1601351-01	101.36	111.36		ug/L	9.4		20		
	MS	1601351-01	101.36	210.40	100.00	ug/L		109		70 - 130	
	MSD	1601351-01	101.36	202.98	100.00	ug/L	3.6	102	20	70 - 130	

Report ID: 1000442115 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 18 of 23



#### Subcontract Report for 1601351 PDF File Name: WO\_1601351\_SUB\_BSCLB.pdf Page 1 of 4



www.basiclab.com

2218 Railroad Avenue Redding, California 96001 fax 530.243.7494

voice 530.243.7234

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

January 27, 2016

Lab ID: 16A0688

VANESSA SANDOVAL **B C LABORATORIES INCORPORATED** 4100 ATLAS COURT BAKERSFIELD, CA 93308

RE: HG 1631 TESTING 1601351

Dear VANESSA SANDOVAL,

Enclosed are the analysis results for Work Order number 16A0688. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

Ricky D. Jensen

Laboratory Director

California ELAP Certification Number 1677

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Report ID: 1000442115

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2218 Railroad Avenue Redding, California 96001 fax 530.243.7494

voice 530.243.7234

3860 Morrow Lane, Suite F

voice 530,894,8966

Chico, California 95928

fax 530.894.5143

Lab No: 16A0688 Reported: 01/27/16

Phone: (661) 327-4911

P.O. #

4100 ATLAS COURT BAKERSFIELD, CA 93308 Attention: VANESSA SANDOVAL

Report To: B C LABORATORIES INCORPORATED

Project: HG 1631 TESTING 1601351

**Description:** 1601351-01

**Lab ID:** 16A0688-01

Sampled: 01/13/16 08:50

Matrix: Water

Received Temp (C): 7.4

Received: 01/15/16 12:52

Metals - Total

<u>RL</u> <u>Analyte</u> <u>Units</u> Results **Qualifier** MDL. <u>Method</u> Analyzed Prepared **Batch** Mercury ng/l 9.78 0.20 0.50 EPA 1631E 01/26/16 01/26/16 B6A1279

Quality Control Data

					Spike	Source		%REC		RPD	
Analyte		Result	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifier
			Ī	Metals - T	otal					,	
Batch B6A1279 - B	arCl Digestion										
Blank									-		
Mercury		ND	0.50	ng/l							
Blank		· ·									
Mercury		0.413	0.50	ng/l							QC-08, J
Blank											
Mercury		ND	0.50	ng/l							
LCS											
Mercury		17.6	0.50	ng/l	20.0		87.8	84.1-120			
Matrix Spike	Source: 16A0688-01										
Mercury		27.2	0.50	ng/l	20.0	9.78	87.0	74.3-125			
Matrix Spike Dup	Source: 16A0688-01										
Mercury		26.8	0.50	ng/l	20.0	9.78	85.1	74.3-125	1.45	24	

Basic Laboratory, Inc.

California ELAP Cert #1677 and #2718

Page 2 of 3



#### Subcontract Report for 1601351 PDF File Name: WO\_1601351\_SUB\_BSCLB.pdf Page 3 of 4

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2218 Railroad Avenue voice 530.243.7234 Redding, California 96001 fax 530.243.7494

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

Report To:

B C LABORATORIES INCORPORATED 4100 ATLAS COURT

Lab No: 16A0688 01/27/16

Reported: Phone: (661) 327-4911 P.O. #

BAKERSFIELD, CA 93308 VANESSA SANDOVAL

Attention:

Project: HG 1631 TESTING 1601351

**Notes and Definitions** 

QC-08 An increased concentration of BrCl was necessary to fully oxidize this sample. As required by EPA 1631E, a laboratory

method blank containing the additional BrCl was analyzed with the sample Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). The J flag is

equivalent to the DNQ Estimated Concentration flag. Analyte DETECTED

DET

ND Analyte NOT DETECTED at or above the detection limit

NR Not Reported

TCLP

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference Less than reporting limit

Less than or equal to reporting limit ≤

Greater than reporting limit

<u>></u> Greater than or equal to reporting limit

MDL Method Detection Limit RL/ML Minimum Level of Quantitation

MCL/AL Maxium Contaminant Level/Action Level

ma/ka Results reported as wet weight TTLC Total Threshold Limit Concentration STLC Soluble Threshold Limit Concentration

Toxicity Characteristic Leachate Procedure

Received Temperature - according to EPA guidelines, samples for most chemistry methods should be held at ≤6 degrees C after collection, including during Note 1

transportation, unless the time from sampling to delivery is <2 hours. Regulating agencies may invalidate results if temperature requirements are not met.

According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and suifite. Note 2

Basic Laboratory, Inc.

California ELAP Cert #1677 and #2718

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Report ID: 1000442115

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Subcontract Report for 1601351 PDF File Name: WO\_1601351\_SUB\_BSCLB.pdf Page 4 of 4

# SUBCONTRACT ORDER BC Laboratories

1601351

1640688

**SENDING LABORATORY:** 

BC Laboratories 4100 Atlas Court Bakersfield, CA 93308 Phone: 661-327-4911 FAX: 661-327-1918

Project Manager: Vanessa Sandoval

RECEIVING LABORATORY:

Basic Laboratory, Inc. 2218 Railroad Ave. Redding, CA 96001 James E. Hawley Phone: (530) 243-7234

FAX: ---

16A0688

1

 Analysis
 Due
 Expires
 Comments

 Sample ID: 1601351-01
 Water
 Sampled: 01/13/16 08:50

 EPA 1631 - Mercury
 01/27/16 17:00
 07/12/16 08:50

 Containers supplied:
 01/27/16 17:00
 07/12/16 08:50

**BSCLB** 

Page 1 of 1

Golder Associates Reported: 01/28/2016 15:26

425 Lakeside Drive Project: Lehigh

Sunnyvale, CA 94085 Project Number: 0637109922
Project Manager: George Wegmann

#### **Notes And Definitions**

J Estimated Value (CLP Flag)

MDL Method Detection Limit

ND Analyte Not Detected

PQL Practical Quantitation Limit

Q01 Sample precision is not within the control limits.

Report ID: 1000442115 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 23 of 23



Date of Report: 02/04/2016

George Wegmann

**Golder Associates** 425 Lakeside Drive Sunnyvale, CA 94085

Client Project: [none]

Lehigh NPDES **BCL Project:** 

1601918 **BCL Work Order:** B225801 Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 1/19/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101



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Golder Associates	16-01	918		older Associates AIN OF CUSTODY	Page of Quotation No  EDD required? Yes No  EDF required? Yes No  Cont. Qty. Remarks
PROJECT NO.:  663-7109-92- SAMPLER(S):	2 Le	•	VPDES	ANALYSES  STORY  STORY	EØD required?  Yes No
David Wal (printed) CONTRACT LABORA TURN-AROUND TIME	TORY: BC	465	(Maltidie)  Contain Info	155 (38'100) 105 (100)  155 (38'100) 105 (100)  155 (38'100) 105 (100)  150 (100) 105 (100)	EDF required? Yes No
Sample Lab I.D. I.D.	Collection  Date Time	Matrix [	Depth Type/Vo	1 L 1 L Steam 100m 250m	Cont. Qty. Remarks
EFF-006 -	1-18-16 1550	lw		2 1 1 1 1	6
	CHK BY E	SUB-O		SHORT HOLDING TIME  Cr+6 NO <sub>2</sub> NO <sub>3</sub> OP SS  BO Cl <sub>2</sub> BOD MBAS COT	
Relinguished by: (signature)	9/14 1401 -19-16 1830	, i	signature)	19-16   40   425 Lakesic Sunnyvale, Phone (40) Fax (408)	Corge Weg mann, Sam Burke H sociates Inc. de Drive CA 94085 18) 220-9223

Laboratories, Inc.
Environmental Testing Laboratory Since 1949



Report ID: 1000444470

Chain of Custody and Cooler Receipt Form for 1601918 Page 2 of 2

BC LABORATORIES INC.			COOLER	RECEIP.	FORM			Pa	ge _	Of _
Submission #: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		***	· · · · · · · · · · · · · · · · · · ·		····					
OURDING INCOM	TATION			Т.	Піррікіо	CONTA	INIED		EDEE I I	OUID
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	∃ (Specif		, y 🗀		er 🗆 (Sp	ecify)	DOX L	' <b> </b>	120 1	
20 222 : 1010 00: 1100 7	- (- (			1						
Refrigerant: Ice ⊠ Blue Ice □	Non	e 🗆	Other 🗆	Com	nents:					
	Contain	oro []	None	≭( Con	monte					
	ntact? Yes		Worle	AS COII	mients.					
			rs intact? Y				otion(s) mat	T	1:1:0	
COC Received Emis	sivity: _	2.77	Container:	100	_ Thermor	سے:meter ID	208	Date/Tir	ne <u>/// 7</u>	2237
'∑'YES □ NO   Te	mperature	: (A)	1.6	°C /	(C)	1 - 1	°C	Analyst	Init LK	<i>[</i> 2]
	I									
/ SAMPLE CONTAINERS	<u></u>				SAMPLI	E NUMBERS		7	<del></del>	
- VAIs-	1 D	2	3	4	5	6	7	8	9	10
T PE UNPRES NO	AU	<del> </del>	<del> </del>		<del> </del>	<del> </del>	-		<del> </del>	<del> </del>
oz/8oz/16oz PE UNPRES  oz Cr <sup>16</sup>		<del> </del>	-		<u> </u>	<del> </del>	-	<del> </del>	<del> </del>	<del> </del>
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T INORGANIC CHEMICAL METALS	-	<del> </del>	<del> </del>			<del> </del>	<del> </del>	<del> </del>	<b> </b>	<del> </del>
VORGANIC CHEMICAL METALS 40z / 80z/160z	$-\nu$	<del> </del>				<del> </del>	<b> </b>	<del> </del>		1
r cyanide		<del> </del>	-							
I NITROGEN FORMS		<del> </del>				<b></b>				<b></b>
F TOTAL SULFIDE		<b> </b>	-	,		<b> </b>				
Z. NITRATE / NITRITE		<del> </del>	<del> </del>	<del>,</del>			<u> </u>			
TOTAL ORGANIC CARBON		<b></b>					<b>i</b>			
CHEMICAL OXYGEN DEMAND										
A PHENOLICS ml VOA VIAL TRAVEL BLANK								`		
mi VOA VIAL										
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EPA 549										
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EPA 8270										
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Reported: 02/04/2016 11:17
Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **Laboratory / Client Sample Cross Reference**

Laboratory **Client Sample Information** 1601918-01 **COC Number:** 01/19/2016 21:50 Receive Date: **Project Number:** Sampling Date: 01/18/2016 15:50 Sample Depth: **Sampling Location:** EFF-006 Sampling Point: EFF-006 Lab Matrix: Water Sampled By: Sample Type: Water

Report ID: 1000444470 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 5 of 23



02/04/2016 11:17 Reported:

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

#### **EPA Method 1664**

BCL Sample ID:	1601918-01	Client Sampl	e Name:	EFF-006,	EFF-006,	1/18/2016 3:50:00	PM		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Oil and Grease		ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-1664A HEM	01/25/16	01/25/16 10:00	MAM	MAN-SV	1	BZA2180	

Report ID: 1000444470

425 Lakeside Drive Sunnyvale, CA 94085 **Reported:** 02/04/2016 11:17

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

# Water Analysis (General Chemistry)

BCL Sample ID:	1601918-01	Client Sampl	le Name:	EFF-006,	EFF-006,	1/18/2016 3:50	:00PM		
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Dissolved Solid	s @ 180 C	1000	mg/L	50	50	SM-2540C	ND		1
Total Suspended Sol	ids (Glass Fiber)	8.3	mg/L	0.50	0.50	SM-2540D	ND		2
Settleable Solids		ND	ml/L-hr	0.10	0.10	SM-2540F			3

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	SM-2540C	01/21/16	01/21/16 12:00	CAD	MANUAL	5	BZA1771
2	SM-2540D	01/22/16	01/22/16 12:21	OJP	MANUAL	1	BZA1915
3	SM-2540F	01/20/16	01/20/16 07:30	RT1	MANUAL	1	BZA1662

Report ID: 1000444470 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 7 of 23

**Golder Associates** Reported: Project: Lehigh NPDES 425 Lakeside Drive

Sunnyvale, CA 94085 Project Number: [none] Project Manager: George Wegmann

# **Metals Analysis**

02/04/2016 11:17

<b>BCL Sample ID:</b> 1601918-01	Client Sample	e Name:	EFF-006,	EFF-006,	1/18/2016 3:50:	00PM		
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	2.6	ug/L	0.20	0.034	EPA-218.6	ND		1
Total Recoverable Antimony	0.34	ug/L	2.0	0.11	EPA-200.8	ND	J	2
Total Recoverable Arsenic	DNQ 1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Beryllium	ND	ug/L	1.0	0.14	EPA-200.8	ND		2
Total Recoverable Cadmium	0.27	ug/L	1.0	0.11	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.5	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Copper	4.3	ug/L	2.0	0.22	EPA-200.8	ND		2
Total Recoverable Lead	DNQ 0.60	ug/L	1.0	0.10	EPA-200.8	ND	J	2
Total Recoverable Nickel	12	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Selenium	14	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Silver	ND	ug/L	1.0	0.10	EPA-200.8	ND		2
Total Recoverable Thallium	0.11	ug/L	1.0	0.10	EPA-200.8	ND	J	2
Total Recoverable Zinc	64	ug/L	10	1.7	EPA-200.8	ND		2

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-218.6	01/19/16	01/20/16 02:12	OLH	IC-4	1	BZA1632	
2	EPA-200.8	01/25/16	01/25/16 21:44	GPD	PE-EL2	1	BZA1976	

Page 8 of 23 Report ID: 1000444470

Reported: 02/04/2016 11:17

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

#### **EPA Method 1664**

#### **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA2180						
Oil and Grease	BZA2180-BLK1	ND	mg/L	5.0	1.7	

Report ID: 1000444470 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 9 of 23

Reported: 02/04/2016 11:17

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

#### **EPA Method 1664**

#### **Quality Control Report - Laboratory Control Sample**

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control L Percent Recovery	imits RPD	Lab Quals
QC Batch ID: BZA2180										
Oil and Grease	BZA2180-BS1	LCS	38.600	38.600	mg/L	100		78 - 114		

Report ID: 1000444470 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 10 of 23

425 Lakeside Drive Sunnyvale, CA 94085 Reported: 02/04/2016 11:17

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

#### **EPA Method 1664**

#### **Quality Control Report - Precision & Accuracy**

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BZA2180	Use	d client samp	ole: N								
Oil and Grease	DUP	1532390-49	ND	ND		mg/L			18		
	MS	1532390-49	ND	39.400	38.600	mg/L		102		78 - 114	
	MSD	1532390-49	ND	38.900	38.600	mg/L	1.3	101	18	78 - 114	

Report ID: 1000444470 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 11 of 23

**Reported:** 02/04/2016 11:17

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

# Water Analysis (General Chemistry)

#### **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA1771						
Total Dissolved Solids @ 180 C	BZA1771-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BZA1915						
Total Suspended Solids (Glass Fiber)	BZA1915-BLK1	ND	mg/L	0.50	0.50	

Report ID: 1000444470 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 12 of 23

**Reported:** 02/04/2016 11:17

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

# Water Analysis (General Chemistry)

#### **Quality Control Report - Laboratory Control Sample**

Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Control I Percent Recovery	Lab Quals
QC Batch ID: BZA1771									
Total Dissolved Solids @ 180 C	BZA1771-BS1	LCS	590.00	586.00	mg/L	101		90 - 110	

Report ID: 1000444470 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 13 of 23

**Reported:** 02/04/2016 11:17

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **Water Analysis (General Chemistry)**

## **Quality Control Report - Precision & Accuracy**

								Control Limits					
		Source	Source		Spike			Percent		Percent	Lab		
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals		
QC Batch ID: BZA1662	Use	d client samp	le: Y - Des	cription: EFF-0	001, 01/19/2	2016 12:1	5						
Settleable Solids	DUP	1601916-02	ND	ND		ml/L-hr			10				
QC Batch ID: BZA1771 Total Dissolved Solids @ 180 C	Use	d client samp	le: N 4360.0	4400.0		mg/L	0.9		10				
				1100.0		9/2	0.0						
QC Batch ID: BZA1915	] Use	d client samp	le: N										
Total Suspended Solids (Glass Fiber)	DUP	1601805-01	250.67	250.67		mg/L	0		10				

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Reported: 02/04/2016 11:17
Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085

## **Metals Analysis**

### **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA1632						
Hexavalent Chromium	BZA1632-BLK1	ND	ug/L	0.20	0.034	
QC Batch ID: BZA1976						
Total Recoverable Antimony	BZA1976-BLK1	ND	ug/L	2.0	0.11	
Total Recoverable Arsenic	BZA1976-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Beryllium	BZA1976-BLK1	ND	ug/L	1.0	0.14	
Total Recoverable Cadmium	BZA1976-BLK1	ND	ug/L	1.0	0.11	
Total Recoverable Chromium	BZA1976-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Copper	BZA1976-BLK1	ND	ug/L	2.0	0.22	
Total Recoverable Lead	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Nickel	BZA1976-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Selenium	BZA1976-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Silver	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Thallium	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Zinc	BZA1976-BLK1	ND	ug/L	10	1.7	

Report ID: 1000444470 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 15 of 23

425 Lakeside Drive Sunnyvale, CA 94085 Reported: 02/04/2016 11:17

Project: Lehigh NPDES

Project Number: [none]
Project Manager: George Wegmann

otala Apalyaia

## **Metals Analysis**

## **Quality Control Report - Laboratory Control Sample**

			-		-					
								<b>Control Limits</b>		
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
<u> </u>	- QU Gampio 12	. , po	rtooun	2010.	011110	110001019		110001019	- 111 5	quaio
QC Batch ID: BZA1632										
Hexavalent Chromium	BZA1632-BS1	LCS	20.468	20.000	ug/L	102		90 - 110		
QC Batch ID: BZA1976										
Total Recoverable Antimony	BZA1976-BS1	LCS	37.560	40.000	ug/L	93.9		85 - 115		
Total Recoverable Arsenic	BZA1976-BS1	LCS	93.153	100.00	ug/L	93.2		85 - 115		
Total Recoverable Beryllium	BZA1976-BS1	LCS	39.018	40.000	ug/L	97.5		85 - 115		
Total Recoverable Cadmium	BZA1976-BS1	LCS	37.332	40.000	ug/L	93.3		85 - 115		
Total Recoverable Chromium	BZA1976-BS1	LCS	40.496	40.000	ug/L	101		85 - 115		
Total Recoverable Copper	BZA1976-BS1	LCS	101.09	100.00	ug/L	101		85 - 115		
Total Recoverable Lead	BZA1976-BS1	LCS	98.932	100.00	ug/L	98.9		85 - 115		
Total Recoverable Nickel	BZA1976-BS1	LCS	98.562	100.00	ug/L	98.6		85 - 115		
Total Recoverable Selenium	BZA1976-BS1	LCS	87.397	100.00	ug/L	87.4		85 - 115		
Total Recoverable Silver	BZA1976-BS1	LCS	38.630	40.000	ug/L	96.6		85 - 115		
Total Recoverable Thallium	BZA1976-BS1	LCS	39.300	40.000	ug/L	98.2		85 - 115		
Total Recoverable Zinc	BZA1976-BS1	LCS	90.802	100.00	ug/L	90.8		85 - 115		

Report ID: 1000444470 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 16 of 23

**Reported:** 02/04/2016 11:17

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **Metals Analysis**

## **Quality Control Report - Precision & Accuracy**

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BZA1632	Use	d client samp	ole: N								
Hexavalent Chromium	<b>D</b> UP	1601898-01	ND	ND		ug/L			10		
	MS	1601898-01	ND	205.85	202.02	ug/L		102		90 - 110	
	MSD	1601898-01	ND	210.94	202.02	ug/L	2.4	104	10	90 - 110	
QC Batch ID: BZA1976	Use	d client samp	ole: N								
Total Recoverable Antimony	<b>D</b> UP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	41.310	40.000	ug/L		103		70 - 130	
	MSD	1602085-01	ND	40.002	40.000	ug/L	3.2	100	20	70 - 130	
Total Recoverable Arsenic	DUP	1602085-01	1.2170	1.2360		ug/L	1.5		20		J
	MS	1602085-01	1.2170	112.95	100.00	ug/L		112		70 - 130	
	MSD	1602085-01	1.2170	106.97	100.00	ug/L	5.4	106	20	70 - 130	
Total Recoverable Beryllium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	32.477	40.000	ug/L		81.2		70 - 130	
	MSD	1602085-01	ND	33.655	40.000	ug/L	3.6	84.1	20	70 - 130	
Total Recoverable Cadmium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	38.202	40.000	ug/L		95.5		70 - 130	
	MSD	1602085-01	ND	37.169	40.000	ug/L	2.7	92.9	20	70 - 130	
Total Recoverable Chromium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	35.090	40.000	ug/L		87.7		70 - 130	
	MSD	1602085-01	ND	35.374	40.000	ug/L	0.8	88.4	20	70 - 130	
Total Recoverable Copper	DUP	1602085-01	2.5390	2.5590		ug/L	0.8		20		
	MS	1602085-01	2.5390	92.682	100.00	ug/L		90.1		70 - 130	
	MSD	1602085-01	2.5390	96.660	100.00	ug/L	4.2	94.1	20	70 - 130	
Total Recoverable Lead	DUP	1602085-01	0.10400	ND		ug/L			20		
	MS	1602085-01	0.10400	88.136	100.00	ug/L		88.0		70 - 130	
	MSD	1602085-01	0.10400	94.287	100.00	ug/L	6.7	94.2	20	70 - 130	
Total Recoverable Nickel	DUP	1602085-01	6.9380	7.7960		ug/L	11.6		20		
	MS	1602085-01	6.9380	81.945	100.00	ug/L		75.0		70 - 130	
	MSD	1602085-01	6.9380	87.182	100.00	ug/L	6.2	80.2	20	70 - 130	
Total Recoverable Selenium	DUP	1602085-01	2.0650	2.0840		ug/L	0.9		20		
	MS	1602085-01	2.0650	131.61	100.00	ug/L		130		70 - 130	
	MSD	1602085-01	2.0650	113.36	100.00	ug/L	14.9	111	20	70 - 130	
Total Recoverable Silver	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	36.972	40.000	ug/L		92.4		70 - 130	
	MSD	1602085-01	ND	37.435	40.000	ug/L	1.2	93.6	20	70 - 130	
Total Recoverable Thallium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	35.214	40.000	ug/L		88.0		70 - 130	
	MSD	1602085-01	ND	37.750	40.000	ug/L	7.0	94.4	20	70 - 130	

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**Reported:** 02/04/2016 11:17

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **Metals Analysis**

## **Quality Control Report - Precision & Accuracy**

							Control Limits					
		Source	Source		Spike			Percent		Percent	Lab	
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals	
QC Batch ID: BZA1976	Use	d client samp	ole: N									
Total Recoverable Zinc	DUP	1602085-01	6.2650	6.6680		ug/L	6.2		20		J	
	MS	1602085-01	6.2650	100.26	100.00	ug/L		94.0		70 - 130		
	MSD	1602085-01	6.2650	96.422	100.00	ug/L	3.9	90.2	20	70 - 130		

Report ID: 1000444470 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 18 of 23



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2218 Railroad Avenue Redding, California 96001 fax 530.243.7494

voice 530,243,7234

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

February 02, 2016

Lab ID: 16A0929

VANESSA SANDOVAL **B C LABORATORIES INCORPORATED** 4100 ATLAS COURT BAKERSFIELD, CA 93308

RE: HG 1631 TESTING 1601918

Dear VANESSA SANDOVAL,

Enclosed are the analysis results for Work Order number 16A0929. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

Laboratory Director

California ELAP Certification Number 1677

Page 1 of 3

Report ID: 1000444470





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basic laboratory

2218 Railroad Avenue voice 530,243,7234 Redding, California 96001 fax 530,243,7494

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966

Report To: B C LABORATORIES INCORPORATED

fax 530.894.5143

4100 ATLAS COURT

Lab No: 16A0929 Reported:

02/02/16 (661) 327-4911 Phone:

BAKERSFIELD, CA 93308

P.O. #

Attention: VANESSA SANDOVAL Project: HG 1631 TESTING 1601918

**Description:** 1601918-01

Lab ID: 16A0929-01

Sampled: 01/18/16 15:50

Matrix: Water

Received Temp (C): 9.8

Received: 01/22/16 12:34

Metals - Total

**Analyte** Mercury

<u>Units</u>

**Results** 6.64

Qualifier

<u>RL</u> 0.50

MDL

0.20

Cnika

<u>Method</u> EPA 1631E 01/26/16

04.DEC

Analyzed Prepared 01/26/16

חמם

<u>Batch</u> B6A1279

Quality Control Data

Analyte		Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Qualifier
				Metals - T	otal	,			-		
Batch B6A1279 - B	rCl Digestion										
Blank	<del></del>										
Mercury		ND	0.50	ng/l							
Blank											
Mercury		0.413	0.50	ng/l							QC-08, J
Blank	•										_
Mercury		ND	0.50	ng/l							
LCS											
Mercury		17.6	0.50	ng/l	20.0		87.8	84.1-120			
Matrix Spike	Source: 16A0688-01										
Mercury		27.2	0.50	ng/l	20.0	9.78	87.0	74.3-125			
Matrix Spike Dup	Source: 16A0688-01				•						
Mercury		26.8	0.50	ng/l	20.0	9.78	85.1	74.3-125	1.45	24	

Approved By

Basic Laboratory, Inc.

California ELAP Cert #1677 and #2718

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2218 Railroad Avenue

voice 530,243,7234 Redding, California 96001 fax 530.243.7494

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966

fax 530.894.5143

Lab No: 16A0929 Reported:

02/02/16 (661) 327-4911

P.O. #

Phone:

Report To: B C LABORATORIES INCORPORATED

4100 ATLAS COURT

BAKERSFIELD, CA 93308 VANESSA SANDOVAL

Attention:

QC-08

Note 2

1

Project: HG 1631 TESTING 1601918

#### **Notes and Definitions**

An increased concentration of BrCl was necessary to fully oxidize this sample. As required by EPA 1631E, a laboratory

method blank containing the additional BrCl was analyzed with the sample.

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). The J flag is

equivalent to the DNQ Estimated Concentration flag.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the detection limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Less than reporting limit Less than or equal to reporting limit

≤ Greater than reporting limit

Greater than or equal to reporting limit ≥

MDL Method Detection Limit RL/ML Minimum Level of Quantitation MCL/AL Maxium Contaminant Level/Action Level mg/kg Results reported as wet weight TTLC Total Threshold Limit Concentration

STLC Soluble Threshold Limit Concentration TCLP Toxicity Characteristic Leachate Procedure

Received Temperature - according to EPA guidelines, samples for most chemistry methods should be held at ≤6 degrees C after collection, including during Note 1

transportation, unless the time from sampling to delivery is <2 hours. Regulating agencies may invalidate results if temperature requirements are not met.

According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.

Basic Laboratory, Inc.

California ELAP Cert #1677 and #2718

Page 3 of 3

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Report ID: 1000444470

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Subcontract Report for 1601918 PDF File Name: WO\_1601918\_SUB\_BSCLB.pdf Page 4 of 4

SUBCONTRACT ORDER
<b>BC Laboratories</b>
1001010

1601918

FAX: ---

**SENDING LABORATORY:** 

**BC** Laboratories 4100 Atlas Court Bakersfield, CA 93308 Phone: 661-327-4911 FAX: 661-327-1918

Project Manager: Vanessa Sandoval

**RECEIVING LABORATORY:** 

Basic Laboratory, Inc. 2218 Railroad Ave. Redding, CA 96001 James E. Hawley Phone: (530) 243-7234

16A0929

**Analysis** Due **Expires** Comments

Sample ID: 1601918-01 Water Sampled: 01/18/16 15:50 EPA 1631 - Mercury 02/02/16 17:00

Containers supplied:

07/17/16 15:50

Released By Date

**BSCLB** 

Page 1 of 1

Page 22 of 23

**Golder Associates** Reported: 02/04/2016 11:17 Project: Lehigh NPDES 425 Lakeside Drive

Sunnyvale, CA 94085 Project Number: [none] Project Manager: George Wegmann

#### **Notes And Definitions**

ND

Estimated Value (CLP Flag) MDL Method Detection Limit

Analyte Not Detected

PQL Practical Quantitation Limit

> The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.
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> 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Page 23 of 23 Report ID: 1000444470



Date of Report: 02/04/2016

George Wegmann

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085

Client Project: [none]

BCL Project: Lehigh NPDES

BCL Work Order: 1601917 Invoice ID: B225800

Enclosed are the results of analyses for samples received by the laboratory on 1/19/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval

Client Service Rep

**Authorized Signature** 

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101



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**Chain of Custody and Cooler Receipt Form for 1601917** Page 2 of 2

BC LABORATORIES INC.			(	COOLER	R RECEIPT FORM Page								
Submission #: 16-019	17										, -		
	trac [		d Deliver		Ice Ch	HIPPING est 🛭 er 🗆 (Spe		FREE LIQUID YES □ NO □					
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Custody Seals Ice Chest 🗆	10000	Containe		None	Ж( Com	ments:							
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425 Lakeside Drive Sunnyvale, CA 94085 Reported: 02/04/2016 11:16

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **Laboratory / Client Sample Cross Reference**

Laboratory **Client Sample Information** 1601917-01 **COC Number:** 01/19/2016 21:50 Receive Date: **Project Number:** Sampling Date: 01/19/2016 10:30 Sample Depth: **Sampling Location:** EFF-006 Sampling Point: EFF-006 Lab Matrix: Water Sampled By: Sample Type: Water

Report ID: 1000444469 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 5 of 23

**Golder Associates** 02/04/2016 11:16 Reported: Project: Lehigh NPDES 425 Lakeside Drive

Sunnyvale, CA 94085 Project Number: [none] Project Manager: George Wegmann

## **EPA Method 1664**

BCL Sample ID:	1601917-01	Client Sampl	e Name:	EFF-006, EFF-006, 1/19/2016 10:30:00AM								
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #			
Oil and Grease		ND	mg/L	5.0	1.7	EPA-1664A HEM	ND		1			

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-1664A HEM	01/25/16	01/25/16 10:00	MAM	MAN-SV	1	BZA2180	

Report ID: 1000444469

425 Lakeside Drive Sunnyvale, CA 94085

02/04/2016 11:16 Reported: Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

# Water Analysis (General Chemistry)

BCL Sample ID:	1601917-01	Client Sampl	e Name:	EFF-006,	EFF-006, EFF-006, 1/19/2016 10:30:00AM							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #			
Total Dissolved Solid	ls @ 180 C	1300	mg/L	50	50	SM-2540C	ND		1			
Total Suspended Sol	ids (Glass Fiber)	64	mg/L	1.8	1.8	SM-2540D	ND		2			
Settleable Solids		ND	ml/L-hr	0.10	0.10	SM-2540F			3			

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	SM-2540C	01/23/16	01/23/16 13:00	CAD	MANUAL	5	BZA1951
2	SM-2540D	01/26/16	01/26/16 09:20	OJP	MANUAL	3.509	BZA2211
3	SM-2540F	01/20/16	01/20/16 07:30	RT1	MANUAL	1	BZA1662

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 7 of 23 Report ID: 1000444469

425 Lakeside Drive Sunnyvale, CA 94085 Reported: 02/04/2016 11:16 Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **Metals Analysis**

<b>BCL Sample ID:</b> 1601917-01	Client Sample	e Name:	EFF-006,	EFF-006,	1/19/2016 10:30	:00AM		
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	2.1	ug/L	0.20	0.034	EPA-218.6	ND		1
Total Recoverable Antimony	0.49	ug/L	2.0	0.11	EPA-200.8	ND	J	2
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Beryllium	ND	ug/L	1.0	0.14	EPA-200.8	ND		2
Total Recoverable Cadmium	DNQ 0.78	ug/L	1.0	0.11	EPA-200.8	ND	J	2
Total Recoverable Chromium	11	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Copper	14	ug/L	2.0	0.22	EPA-200.8	ND		2
Total Recoverable Lead	2.2	ug/L	1.0	0.10	EPA-200.8	ND		2
Total Recoverable Nickel	23	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Selenium	17	ug/L	2.0	0.19	EPA-200.8	ND		2
Total Recoverable Silver	ND	ug/L	1.0	0.10	EPA-200.8	ND		2
Total Recoverable Thallium	0.30	ug/L	1.0	0.10	EPA-200.8	ND	J	2
Total Recoverable Zinc	190	ug/L	10	1.7	EPA-200.8	ND		2

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-218.6	01/19/16	01/20/16 02:04	OLH	IC-4	1	BZA1632	
2	EPA-200.8	01/25/16	01/25/16 21:40	GPD	PE-EL2	1	BZA1976	

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425 Lakeside Drive Sunnyvale, CA 94085 Reported: 02/04/2016 11:16
Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **EPA Method 1664**

## **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA2180						
Oil and Grease	BZA2180-BLK1	ND	mg/L	5.0	1.7	

Report ID: 1000444469 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 9 of 23

Reported: 02/04/2016 11:16

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **EPA Method 1664**

### **Quality Control Report - Laboratory Control Sample**

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control L Percent Recovery	<u>imits</u> RPD	Lab Quals
QC Batch ID: BZA2180										
Oil and Grease	BZA2180-BS1	LCS	38.600	38.600	mg/L	100		78 - 114		

Report ID: 1000444469 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 10 of 23

425 Lakeside Drive Sunnyvale, CA 94085 **Reported:** 02/04/2016 11:16

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

### **EPA Method 1664**

### **Quality Control Report - Precision & Accuracy**

									Cont	trol Limits		
		Source	Source		Spike			Percent		Percent	Lab	
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals	
QC Batch ID: BZA2180	Use	d client samp	ole: N									
Oil and Grease	DUP	1532390-49	ND	ND		mg/L			18			
	MS	1532390-49	ND	39.400	38.600	mg/L		102		78 - 114		
	MSD	1532390-49	ND	38.900	38.600	mg/L	1.3	101	18	78 - 114		

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**Reported:** 02/04/2016 11:16

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

# Water Analysis (General Chemistry)

### **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA1951						
Total Dissolved Solids @ 180 C	BZA1951-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BZA2211						
Total Suspended Solids (Glass Fiber)	BZA2211-BLK1	ND	mg/L	0.50	0.50	

Report ID: 1000444469 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 12 of 23

**Reported:** 02/04/2016 11:16 Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

# Water Analysis (General Chemistry)

### **Quality Control Report - Laboratory Control Sample**

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control I Percent Recovery	Lab Quals	
QC Batch ID: BZA1951										
Total Dissolved Solids @ 180 C	BZA1951-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		

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Golder Associates 425 Lakeside Drive

Sunnyvale, CA 94085

**Reported:** 02/04/2016 11:16

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **Water Analysis (General Chemistry)**

## **Quality Control Report - Precision & Accuracy**

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BZA1662	Use	d client samp	le: Y - Des	cription: EFF-	001, 01/19	/2016 12:1	15				
Settleable Solids	DUP	1601916-02	ND	ND		ml/L-hr			10		
QC Batch ID: BZA1951	Use	d client samp	le: Y - Des	cription: EFF-	006, 01/19	/2016 10:3	30				
Total Dissolved Solids @ 180 C	DUP	1601917-01	1285.0	1275.0		mg/L	0.8		10		
QC Batch ID: BZA2211	Use	d client samp	le: N								
Total Suspended Solids (Glass Fiber)	DUP	1601891-01	288.46	288.46		mg/L	0		10		

Report ID: 1000444469 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 14 of 23

Reported: 02/04/2016 11:16
Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **Metals Analysis**

### **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZA1632						
Hexavalent Chromium	BZA1632-BLK1	ND	ug/L	0.20	0.034	
QC Batch ID: BZA1976						
Total Recoverable Antimony	BZA1976-BLK1	ND	ug/L	2.0	0.11	
Total Recoverable Arsenic	BZA1976-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Beryllium	BZA1976-BLK1	ND	ug/L	1.0	0.14	
Total Recoverable Cadmium	BZA1976-BLK1	ND	ug/L	1.0	0.11	
Total Recoverable Chromium	BZA1976-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Copper	BZA1976-BLK1	ND	ug/L	2.0	0.22	
Total Recoverable Lead	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Nickel	BZA1976-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Selenium	BZA1976-BLK1	ND	ug/L	2.0	0.19	
Total Recoverable Silver	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Thallium	BZA1976-BLK1	ND	ug/L	1.0	0.10	
Total Recoverable Zinc	BZA1976-BLK1	ND	ug/L	10	1.7	

Report ID: 1000444469 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 15 of 23

425 Lakeside Drive Sunnyvale, CA 94085 Reported: 02/04/2016 11:16

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **Metals Analysis**

## **Quality Control Report - Laboratory Control Sample**

			-		-					
								Control I	Limits	
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
<u> </u>	- QU Gampio 12	. , po	rtooun	2010.	011110	110001019		110001019	- 111 5	quaio
QC Batch ID: BZA1632										
Hexavalent Chromium	BZA1632-BS1	LCS	20.468	20.000	ug/L	102		90 - 110		
QC Batch ID: BZA1976										
Total Recoverable Antimony	BZA1976-BS1	LCS	37.560	40.000	ug/L	93.9		85 - 115		
Total Recoverable Arsenic	BZA1976-BS1	LCS	93.153	100.00	ug/L	93.2		85 - 115		
Total Recoverable Beryllium	BZA1976-BS1	LCS	39.018	40.000	ug/L	97.5		85 - 115		
Total Recoverable Cadmium	BZA1976-BS1	LCS	37.332	40.000	ug/L	93.3		85 - 115		
Total Recoverable Chromium	BZA1976-BS1	LCS	40.496	40.000	ug/L	101		85 - 115		
Total Recoverable Copper	BZA1976-BS1	LCS	101.09	100.00	ug/L	101		85 - 115		
Total Recoverable Lead	BZA1976-BS1	LCS	98.932	100.00	ug/L	98.9		85 - 115		
Total Recoverable Nickel	BZA1976-BS1	LCS	98.562	100.00	ug/L	98.6		85 - 115		
Total Recoverable Selenium	BZA1976-BS1	LCS	87.397	100.00	ug/L	87.4		85 - 115		
Total Recoverable Silver	BZA1976-BS1	LCS	38.630	40.000	ug/L	96.6		85 - 115		
Total Recoverable Thallium	BZA1976-BS1	LCS	39.300	40.000	ug/L	98.2		85 - 115		
Total Recoverable Zinc	BZA1976-BS1	LCS	90.802	100.00	ug/L	90.8		85 - 115		

Report ID: 1000444469 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 16 of 23

Reported: 02/04/2016 11:16

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **Metals Analysis**

## **Quality Control Report - Precision & Accuracy**

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BZA1632	Use	d client samp	ole: N								
Hexavalent Chromium	<b>J</b> DUP	1601898-01	ND	ND		ug/L			10		
	MS	1601898-01	ND	205.85	202.02	ug/L		102		90 - 110	
	MSD	1601898-01	ND	210.94	202.02	ug/L	2.4	104	10	90 - 110	
QC Batch ID: BZA1976	Use	d client samp	ole: N								
Total Recoverable Antimony	<b>D</b> UP	1602085-01	ND	ND		ug/L			20		
•	MS	1602085-01	ND	41.310	40.000	ug/L		103		70 - 130	
	MSD	1602085-01	ND	40.002	40.000	ug/L	3.2	100	20	70 - 130	
Total Recoverable Arsenic	DUP	1602085-01	1.2170	1.2360		ug/L	1.5		20		J
	MS	1602085-01	1.2170	112.95	100.00	ug/L		112		70 - 130	
	MSD	1602085-01	1.2170	106.97	100.00	ug/L	5.4	106	20	70 - 130	
Total Recoverable Beryllium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	32.477	40.000	ug/L		81.2		70 - 130	
	MSD	1602085-01	ND	33.655	40.000	ug/L	3.6	84.1	20	70 - 130	
Total Recoverable Cadmium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	38.202	40.000	ug/L		95.5		70 - 130	
	MSD	1602085-01	ND	37.169	40.000	ug/L	2.7	92.9	20	70 - 130	
Total Recoverable Chromium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	35.090	40.000	ug/L		87.7		70 - 130	
	MSD	1602085-01	ND	35.374	40.000	ug/L	0.8	88.4	20	70 - 130	
Total Recoverable Copper	DUP	1602085-01	2.5390	2.5590		ug/L	0.8		20		
	MS	1602085-01	2.5390	92.682	100.00	ug/L		90.1		70 - 130	
	MSD	1602085-01	2.5390	96.660	100.00	ug/L	4.2	94.1	20	70 - 130	
Total Recoverable Lead	DUP	1602085-01	0.10400	ND		ug/L			20		
	MS	1602085-01	0.10400	88.136	100.00	ug/L		88.0		70 - 130	
	MSD	1602085-01	0.10400	94.287	100.00	ug/L	6.7	94.2	20	70 - 130	
Total Recoverable Nickel	DUP	1602085-01	6.9380	7.7960		ug/L	11.6		20		
	MS	1602085-01	6.9380	81.945	100.00	ug/L		75.0		70 - 130	
	MSD	1602085-01	6.9380	87.182	100.00	ug/L	6.2	80.2	20	70 - 130	
Total Recoverable Selenium	DUP	1602085-01	2.0650	2.0840		ug/L	0.9		20		
	MS	1602085-01	2.0650	131.61	100.00	ug/L		130		70 - 130	
	MSD	1602085-01	2.0650	113.36	100.00	ug/L	14.9	111	20	70 - 130	
Total Recoverable Silver	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	36.972	40.000	ug/L		92.4		70 - 130	
	MSD	1602085-01	ND	37.435	40.000	ug/L	1.2	93.6	20	70 - 130	
Total Recoverable Thallium	DUP	1602085-01	ND	ND		ug/L			20		
	MS	1602085-01	ND	35.214	40.000	ug/L		88.0		70 - 130	
	MSD	1602085-01	ND	37.750	40.000	ug/L	7.0	94.4	20	70 - 130	

Report ID: 1000444469 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 17 of 23

**Reported:** 02/04/2016 11:16

Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

## **Metals Analysis**

## **Quality Control Report - Precision & Accuracy**

							Control Limits						
		Source	Source		Spike			Percent		Percent	Lab		
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals		
QC Batch ID: BZA1976	Use	d client samp	ole: N										
Total Recoverable Zinc	DUP	1602085-01	6.2650	6.6680		ug/L	6.2		20		J		
	MS	1602085-01	6.2650	100.26	100.00	ug/L		94.0		70 - 130			
	MSD	1602085-01	6.2650	96.422	100.00	ug/L	3.9	90.2	20	70 - 130			

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#### Subcontract Report for 1601917 PDF File Name: WO\_1601917\_SUB\_BSCLB.pdf Page 1 of 4



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2218 Railroad Avenue Redding, California 96001 fax 530.243.7494

voice 530.243.7234

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

February 02, 2016

Lab ID: 16A0930

VANESSA SANDOVAL **B C LABORATORIES INCORPORATED** 4100 ATLAS COURT BAKERSFIELD, CA 93308

RE: HG 1631 TESTING 1601917

Dear VANESSA SANDOVAL,

Enclosed are the analysis results for Work Order number 16A0930. All analysis were performed under strict adherence to our established Quality Assurance Plan. Any abnormalities are listed in the qualifier section of this report.

If you have any questions regarding these results, please feel free to contact us at any time. We appreciate the opportunity to service your environmental testing needs.

Sincerely,

Ricky D. Jensen Laboratory Director

California ELAP Certification Number 1677

Page 1 of 3

Report ID: 1000444469

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Subcontract Report for 1601917 PDF File Name: WO\_1601917\_SUB\_BSCLB.pdf Page 2 of 4



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Report To:

2218 Railroad Avenue Redding, California 96001 fax 530.243.7494

voice 530,243,7234

3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

B C LABORATORIES INCORPORATED

4100 ATLAS COURT

BAKERSFIELD, CA 93308 VANESSA SANDOVAL

Attention: Project:

HG 1631 TESTING 1601917

Description:

1601917-01

Lab ID: 16A0930-01

Lab No: 16A0930 Reported: 02/02/16 Phone:

(661) 327-4911

P.O. #

Sampled: 01/19/16 10:30

Matrix: Water

Received Temp (C): 7.4

Received: 01/22/16 12:35

Metals - Total

<u>Analyte</u> Mercury

Mercury

<u>Units</u> ng/l

26.8

**Results** 16.8

0.50

**Qualifier** QC-08, R-08

<u>MDL</u> 1.00

RL 2.50

<u>Method</u> EPA 1631E

Analyzed Prepared 01/26/16 01/26/16

<u>Batch</u> B6A1279

Quality Control Data

Analyte		Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
	·			Metals - T				MINITED		Lilling	Qualifici
Batch B6A1279 - E	BrCl Digestion										
Blank	<del></del>									*	
Mercury		ND	0.50	ng/l							
Blank									• • • • • • • • • • • • • • • • • • • •		
Mercury		0.413	0.50	ng/l							QC-08, J
Blank											
Mercury		ND	0.50	ng/l							
LCS											
Mercury		17.6	0.50	ng/l	20.0		87.8	84.1-120			
Matrix Spike	Source: 16A0688-01										
Mercury		27.2	0.50	ng/l	20.0	9.78	87.0	74.3-125			
Matrix Spike Dup	Source: 16A0688-01										

20.0

9.78

85.1

74.3-125

Approved By

Basic Laboratory, Inc.

California ELAP Cert #1677 and #2718

Page 2 of 3



#### Subcontract Report for 1601917 PDF File Name: WO\_1601917\_SUB\_BSCLB.pdf Page 3 of 4

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3860 Morrow Lane, Suite F Chico, California 95928

voice 530.894.8966 fax 530.894.5143

16A0930

Report To: B C LABORATORIES INCORPORATED

4100 ATLAS COURT

Lab No: Reported: 02/02/16 Phone: (661) 327-4911

BAKERSFIELD, CA 93308 Attention: VANESSA SANDOVAL

P.O. #

Project: HG 1631 TESTING 1601917

**Notes and Definitions** 

R-08 The sample was diluted due to sample matrix resulting in elevated reporting limits.

An increased concentration of BrCl was necessary to fully oxidize this sample. As required by EPA 1631E, a laboratory QC-08

method blank containing the additional BrCi was analyzed with the sample.

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). The J flag is

equivalent to the DNQ Estimated Concentration flag. Analyte DETECTED

DET

ND Analyte NOT DETECTED at or above the detection limit

NR Not Reported

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD Less than reporting limit

Less than or equal to reporting limit ≤

Greater than reporting limit

> Greater than or equal to reporting limit

MDL Method Detection Limit RL/ML Minimum Level of Quantitation MCL/AL Maxium Contaminant Level/Action Level mg/kg Results reported as wet weight TTLC Total Threshold Limit Concentration STLC Soluble Threshold Limit Concentration

TCLP Toxicity Characteristic Leachate Procedure

Received Temperature - according to EPA guidelines, samples for most chemistry methods should be heid at ≤6 degrees C after collection, including during Note 1 transportation, unless the time from sampling to delivery is <2 hours. Regulating agencies may invalidate results if temperature requirements are not met.

Note 2 According to 40 CFR Part 136 Table II, the following tests should be analyzed in the field within 15 minutes of sampling: pH, chlorine, dissolved oxygen, and sulfite.

Approved By

Basic Laboratory, Inc.

California ELAP Cert #1677 and #2718

Page 3 of 3



Subcontract Report for 1601917 PDF File Name: WO\_1601917\_SUB\_BSCLB.pdf Page 4 of 4

## SUBCONTRACT ORDER **BC Laboratories**

1601917

**SENDING LABORATORY:** 

**BC** Laboratories 4100 Atlas Court Bakersfield, CA 93308 Phone: 661-327-4911 FAX: 661-327-1918

Project Manager: Vanessa Sandoval

RECEIVING LABORATORY:

Basic Laboratory, Inc. 2218 Railroad Ave. Redding, CA 96001 James E. Hawley Phone: (530) 243-7234

FAX: ---

**Analysis** Due Comments **Expires** Sample ID: 1601917-01 Water Sampled: 01/19/16 10:30 EPA 1631 - Mercury 02/02/16 17:00 07/18/16 10:30 Containers supplied:

Released By

**BSCLB** 

Page 1 of 1

Reported: 02/04/2016 11:16 Project: Lehigh NPDES

Project Number: [none]

Project Manager: George Wegmann

#### **Notes And Definitions**

**Golder Associates** 

425 Lakeside Drive Sunnyvale, CA 94085

Report ID: 1000444469

Estimated Value (CLP Flag)

MDL Method Detection Limit ND Analyte Not Detected PQL Practical Quantitation Limit

Page 23 of 23



Date of Report: 02/03/2016

George Wegmann

**Golder Associates** 425 Lakeside Drive Sunnyvale, CA 94085

Client Project: 063-7109-922 Ph 006

Lehigh Pond **BCL Project:** 1603044 **BCL Work Order:** B225643 Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 2/1/2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Vanessa Sandoval

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

Report ID: 1000443804



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Report ID: 1000443804

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	for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretat	emply to the samples analyzed in accordance that the chain of easiedy decament, xins analytical experiment of reproduced in its entirety.
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PROJECT I	NO.:		SITE	ENAME	•		ANALYSES								Enn :	equired?		
SAMPLER(	OC3-7109-922 Phoo6 Lehigh Bond 30  AMPLER(S):  David Walter David Chalt  ONTRACT LABORATORY: BC LGbs Contail					<u> </u>	2										Yes	No equired?
	URN-AROUND TIME: 24 Ar Info				Container Info	ا ردم		/ /				/ ,	/	/ .	/	Yes	☑ No	
Sample I.D.	Lab I.D.	Colle	ection	-	Depth	Type/Vol. Filter Preserv.	N					/ /				Cont. Qty.	R	emarks
EFF-006				W		11.00017.	HNOZ	-								i i	110	
EFF-006		1-29-16 2-1-16	lois	W														
													:HK B	BY 6	D	BIRTS	UTION	
Relinquished by: (s	ionature)	6 140	1 1930	Received I	by: (signature	EINS e)	· Ba	D	ate/Time: 2	6 14	3°5 '0/ 836		Atti Goi 425 Sur Pho	ND RE n: 6 Ider A 5 Lake nnyva	Corg Ssoci eside le, C/	SUB- TS TO: e Weiates In	OUT Comenn, San	Barkett

Chain of Custody and Cooler Receipt Form for 1603044 Page 1 of 2 Laboratories, Inc.
Environmental Testing Laboratory Since 1949



Chain of Custody and Cooler Receipt Form for 1603044 Page 2 of 2

BC LABORATORIES INC.		(	COOLER	RECEIP.	FORM			Paç	je(	Of
Submission #: 16-03044										
SHIPPING INFORM Fed Ex  UPS  Ontrac  BC Lab Field Service	] Hand	d Deliver	у 🗆	Ice Ch	SHIPPING lest D	None	Box 🗆	-	FREE LIC YES	
Refrigerant: Ice ☑ Blue Ice □	None		Other 🗆	Com	ments:					
	Containe		None	Con	nments:					
All samples received? Yes No □ A	II samples	containers	intact? Y	es Do No		Descrip	otion(s) mate	h COC?	Yes⊉ No	
COC Received Emis	sivity: _C	1.97	Container:	Yeas	_ Thermoi	meter ID: _ ) , (φ	2 <i>0≪</i> °C		ne 2-/16	-2150 -
SAMPLE CONTAINERS		Ţ	<del>,</del>	<del></del>	' SAMPL	E NUMBERS				<del></del>
OT PE UNPRES	11	2	3	4	5	6	7	8	<u> 9</u>	1 10
40z/80z/16oz PE UNPRES			<b>†</b>		1	1	1			
20z Cr*6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 40z / 80z / 160z	A-	K								
PT CYANIDE					ļ		ļ			
PT NITROGEN FORMS										
PT TOTAL SULFIDE									ļ	
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Report ID: 1000443804



02/03/2016 9:42 Reported: Project: Lehigh Pond

Project Number: 063-7109-922 Ph 006 Project Manager: George Wegmann

**Golder Associates** 425 Lakeside Drive Sunnyvale, CA 94085

## **Laboratory / Client Sample Cross Reference**

Laboratory	Client Sample Informati	on		
1603044-01	COC Number: Project Number: Sampling Location: Sampling Point: Sampled By:	   EFF-006 David Walter	Receive Date: Sampling Date: Sample Depth: Lab Matrix: Sample Type:	02/01/2016 21:40 01/29/2016 10:15  Water Water
1603044-02	COC Number:		Receive Date:	02/01/2016 21:40
	Project Number: Sampling Location: Sampling Point: Sampled By:	  EFF-006 David Walter	Sampling Date: Sample Depth: Lab Matrix: Sample Type:	02/01/2016 10:15  Water Water

Page 5 of 11 Report ID: 1000443804



**Golder Associates** 425 Lakeside Drive

Sunnyvale, CA 94085

Project: Lehigh Pond Project Number: 063-7109-922 Ph 006 Project Manager: George Wegmann

Reported:

02/03/2016 9:42

# **Metals Analysis**

BCL Sample ID:	1603044-01	Client Sampl	e Name:	EFF-006, 1/29/2016 10:15:00AM, David Walter							
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #		
Total Recoverable Se	enium	57	ug/L	2.0	0.19	EPA-200.8	ND		1		

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-200.8	02/02/16	02/02/16 16:18	GPD	PE-EL2	1	BZB0152	

Page 6 of 11 Report ID: 1000443804



02/03/2016 9:42 Reported: Project: Lehigh Pond

Project Number: 063-7109-922 Ph 006 Project Manager: George Wegmann

# **Metals Analysis**

BCL Sample ID:	1603044-02	Client Sampl	e Name:	EFF-006,	-006, 2/1/2016 10:15:00AM, David Walter					
Constituent		Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Sel	enium	55	ug/L	2.0	0.19	EPA-200.8	ND		1	

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-200.8	02/02/16	02/02/16 14:24	GPD	PE-EL2	1	BZB0140	

Page 7 of 11 Report ID: 1000443804



Reported: 02/03/2016 9:42 Project: Lehigh Pond

Project Number: 063-7109-922 Ph 006 Project Manager: George Wegmann

## **Metals Analysis**

## **Quality Control Report - Method Blank Analysis**

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BZB0140						
Total Recoverable Selenium	BZB0140-BLK1	ND	ug/L	2.0	0.19	
QC Batch ID: BZB0152						
Total Recoverable Selenium	BZB0152-BLK1	ND	ug/L	2.0	0.19	

Report ID: 1000443804 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 8 of 11



Reported: 02/03/2016 9:42 Project: Lehigh Pond

Project Number: 063-7109-922 Ph 006
Project Manager: George Wegmann

Golder Associates 425 Lakeside Drive Sunnyvale, CA 94085

## **Metals Analysis**

## **Quality Control Report - Laboratory Control Sample**

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control L Percent Recovery	Lab Quals
QC Batch ID: BZB0140									
Total Recoverable Selenium	BZB0140-BS1	LCS	99.139	100.00	ug/L	99.1		85 - 115	
QC Batch ID: BZB0152									
Total Recoverable Selenium	BZB0152-BS1	LCS	87.622	100.00	ug/L	87.6		85 - 115	

Report ID: 1000443804 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 9 of 11

Reported: 02/03/2016 9:42 Project: Lehigh Pond

Project Number: 063-7109-922 Ph 006 Project Manager: George Wegmann

# Metals Analysis

## **Quality Control Report - Precision & Accuracy**

									Cont	trol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BZB0140 Used client sample: N											
Total Recoverable Selenium	DUP	1602787-02	17.728	18.842		ug/L	6.1		20		
	MS	1602787-02	17.728	118.36	100.00	ug/L		101		70 - 130	
	MSD	1602787-02	17.728	128.70	100.00	ug/L	8.4	111	20	70 - 130	
QC Batch ID: BZB0152	Use	d client samp	le: N								
Total Recoverable Selenium	DUP	1602782-02	ND	ND		ug/L			20		
	MS	1602782-02	ND	93.643	100.00	ug/L		93.6		70 - 130	
	MSD	1602782-02	ND	88.298	100.00	ug/L	5.9	88.3	20	70 - 130	

Report ID: 1000443804 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com Page 10 of 11

02/03/2016 9:42 Reported: Project: Lehigh Pond

Project Number: 063-7109-922 Ph 006 Project Manager: George Wegmann

#### **Notes And Definitions**

**Golder Associates** 

425 Lakeside Drive Sunnyvale, CA 94085

MDL Method Detection Limit ND Analyte Not Detected PQL Practical Quantitation Limit

Report ID: 1000443804

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