Sconza Candy Company
Candy Manufacturers Since 1939

1 Sconza Candy Lane • Oakdale, California 95631 • TEL: (209) 845-3700 • FAX: (209) 845-3779

RECEIVED
SACRAMENTO
CVRWQCB
11 AUG 30 PM 2:00

August 8, 2011
Mr. Victor Vasquez
California Regional Water Board
Central Valley Region RWQCB
11020 Sun Center Drive #200
Rancho Cordova, CA 95670

Victor:

Attached are the results of monitoring for the month of July 2011, for effluent water for Sconza Candy Company at their Oakdale facility at One Sconza Candy Lane. This property was previously held by Hershey Chocolate & Confectionery Corp., operating under Waste Discharge Monitoring and Reporting Program Order No. R5-2002-0111 and for NPDES No. CA0004146.
JL Analytical Services, Inc. in Modesto completed all monthly/bi-monthly tests.
Please let me know if there are any concerns.
Jesse Hodges Cell # 209 918-0140

"I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Sincerely,

Ron Sconza
Chief Executive Officer
Sconza Candy Company

SDK 9/20/11

Sconza Candy Company
July 2011 Weekly/Monthly Monitoring
EFFLUENT MONITORING (NON-CONTACT COOLING WATER)

DATE (2011)	BOD *Twice per month*		COD *Twice per month*		TURBIDITY (NTU) *Monthly*	Oil & Grease *Twice per month*		ACUTE TOXICITY (% Survival) *Monthly*
	Mg/l	*lb/day*	*Mg/l*	*lb/day*		*Mg/l*	*lb/day*	
7/5	2	39.3	<5	<98.4	NT	**<5**	<98.4	NT
7/6	4	78.7	<5	<98.4	NT	<5	<98.4	NT
7/7					0.2			90
30 day avg.	3.5	59.0	<5	<98.4		<5	<98.4	

DATE (2011)	FLOW (MGD) *Continuous* Well flow- Sewer- landscape watering = Flow to OID canal in MGD	pH *Weekly*	CHLORINE RESIDUAL *Weekly*		TEMP. (°F) *Weekly*	DISSOLVED OXYGEN (mg/l) *Weekly*	SPECIFIC CONDUCTIVITY (µmhos/cm) *Weekly*
			mg/l	**lb/day**			
7/1	Last week of June- 2.34	7.97	0.03	0.58	79.3	8.78	249.1
7/7	2.64- 0.10 – 0.15 = 2.39 MGD	7.94	0.02	0.40	76.5	9.18	249.7
7/15	2.63- 0.10 – 0.15 = 2.38 MGD	6.83	0.03	0.59	77.2	8.98	247.6
7/22	2.59- 0.10 – 0.15 = 2.34 MGD	7.72	0.01	0.19	78.8	9.00	243.2
7/29	2.61- 0.10 – 0.15 = 2.36 MGD	7.75	0.01	0.20	76.6	8.26	248.7
30 day avg.	2.37 MGD		0.02	0.39			

RECEIVING WATER (OAKDALE IRRIGATION DISTRICT CANAL)

DATE (2011)	FLOW (cubic ft/min) *weekly*		pH *Weekly*		CHLORINE RESIDUAL (mg/l) *Weekly*		TURBIDITY (NTU) *Monthly (7/5)*		TEMP. (°F) *Weekly*		DISSOLVED OXYGEN (mg/l) *Weekly*		SPECIFIC CONDUCTIVITY (µmhos/cm) *Weekly*	
	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2	R1	R2
7/1	2773	as R1	7.80	7.81	0.00	0.01			63.0	64.2	8.88	8.89	57.49	70.24
7/7	4347	"	7.11	7.57	0.02	0.00	1.9	2.4	63.1	62.8	10.16	9.97	56.21	65.25
7/15	4608	as R1	6.83	7.09	0.02	0.00			59.9	61.2	10.14	10.05	56.33	69.04
7/22	4068	"	7.93	7.90	0.00	0.00			61.5	62.6	9.68	9.70	56.56	64.70
7/29	3621	"	6.59	6.96	0.00	0.00			60.1	61.2	10.24	10.15	56.07	64.85
30 day avg.					0.01	0.00								

Sconza Candy Company
July 2011 Monitoring

WATER CONDITIONS BOUNDED BY R1 AND R2

DATE: (2011)	7/1	7/7	7/15	7/22	7/29
FLOATING OR SUSPENDED MATERIAL	Weed debris-sticks	Weed debris	Leaf litter	Weed litter	Weed litter
DISCOLORATION	Greenish-brown	Greenish-brown	Greenish-brown	Greenish	Greenish
BOTTOM DEPOSITS	Mud/silt	Mud/silt	Mud/silt	Mud/silt	
AQUATIC LIFE	Aquatic plants, small water beetle, Damselflies, Dragonflies	Aquatic plants, water beetles, moss	Aquatic plants, small inverts, Damselflies, moss	Aquatic plants, moss, snails	Aquatic plants, moss, snails, Damselfly, Dragonfly
VISIBLE FILM, SHEEN OR COATINGS	None	None	None	None	None
FUNGI, SLIMES OR OBJECTIONABLE GROWTH	None	None	None	None	None
POTENTIAL NUISANCE CONDITIONS	None	None	None	None	None
PRESENCE OR ABSENCE OF SALMONIDS	Absent	Absent	Absent	Absent	Absent
COMMENTS		hot			

Sample Site	Time	Date	Temperature °C	°F	Conductivity	pH	Dissolved -O2 mg/L	Residual Chlorine PPM	Remarks: Conditions, outside tests, Storm water observations
Well 4	6:15	6/8/11	16.9		283				Coli Form 1
Nut Storage	6:25							0.02	
Locker Room	7:05							0.05	
R1	4:25	6/9/11	16.8	62.2	57.32	6.98	10.03	0.00	21" down 0.71 flow flow=2964 cfm
E	4:40		24.6	76.3	247.8	8.04	9.51	0.01	clear
R2	4:45		17.5	63.5	69.03	7.12	10.41	0.00	SW no flow -
R1	5:10p	6/17/11	19.4	66.9	65.41	7.07	9.01	0.00	19" down 0.94 flow flow=4068
E	5:30		25.2	77.4	247.9	7.93	8.86	0.01	Clear
R2	5:45		20.0	68.0	77.02	7.34	9.28	0.00	SW no flow
R1	10:05	6/24/11	16.1	61.0	58.16	6.79	9.70	0.01	23" down 0.90 flow flow=3621 cfm
C	10:25		23.1	73.6	252.5	8.10	7.63	0.02	Clear
R2	10:35		16.6	61.9	74.21	7.05	9.76	0.01	SW - No flow
R1	4:15	7/1/11	~~21.6~~ 17.2	63.0	57.49	7.80	8.88	0.00	Down 26" flow 0.73 flow=2773 cfm
E	4:35		26.3	79.3	249.1	7.97	8.78	0.03	
R2	4:45		17.9	64.2	70.24	7.81	8.89	0.01	SW flow briefly

Sample Site	Time	Date	Temperature °C	Temperature °F	Conductivity	pH	Dissolved -O2 mg/L	Residual Chlorine PPM	Remarks: Conditions, outside tests, Storm water observations
Well #2	6:00	7/5/11	21.9	71.4	347				
Well #3	6:25		19.9	67.8	275				
Well #4	6:25		21.3	70.3	277				
Conch Hall [illegible] BLD	7:00 6:45							0.09 0.03	
R_1	8:50							~~0.01~~	~~BOD, COD Oil & Grease + Turbidity to JLA~~ Turbidity
E	9:00							~~0.02~~	BOD COD Oil & Grease + Turbidity to JLA
R_2	8:55							~~0.02~~	SW – No Flow
E	8:45	7/6/11							BOD, COD, Oil and Grease to JLA
E	9:45	7/7/11	24.7	76.5	249.7	7.94	9.18	0.02	Acute toxicity to JLA Clear
R_1	9:55		17.3	63.1	56.21	7.11	10.16	0.02	down 19" Flow 0.99 = ~~4366~~ 4847 Flow
R_2	10:10		17.1	62.8	65.25	7.57	9.97	0.00	SW No Flow
R_1	3:50	7/15/11	15.5	59.9	56.33	6.83	10.14	0.02	down 19" flow 0.94 = 4608 flow
E	4:10		25.1	77.2	247.6	7.59	8.98	0.03	Clear
R_2	4:35		16.2	61.2	69.04	7.09	10.05	0.00	SW – No Flow

Sample Site	Time	Date	Temperature °C	°F	Conductivity	pH	Dissolved -O2 mg/L	Residual Chlorine PPM	Remarks: Conditions, outside tests, Storm water observations
R1	3:40	7/22/11	16.4	61.5	56.56	7.93	9.68	0.00	down 21" Flow 0.95=3966 flow
E	3:55		26.0	78.8	243.2	7.72	9.00	0.01	Clear
R2	4:10		17.0	62.6	64.70	7.90	9.70	0.00	
R1	1:00	7/29/11	15.6	60.1	56.07	6.59	10.24	0.00	Down 22" Flow 0.83=3402 flow New Cl Res reagents
E	1:20		24.8	76.6	248.7	7.95	8.26	0.01	Clear
R2	1:30		16.2	61.2	64.85	6.96	10.15	0.00	
Well #2	5:50	8/1/11	20.9	69.6	343				SW flowing Drinking Water Test — Coliforms to JLA
Well #3	6:05		18.4	65.1	278				
Well #4	7:10		18.5	65.3	279				
Equipment	6:35							0.08	
Shipping	6:50		—	—	—			0.01	
R1	8:15		—	—	—				Turbidity to JLA NPDES
E	8:20		—	—	—				BOD COD oil & Grease Turbidity
R2	8:25		—	—					Turbidity to JLA
Drinking Fountain	9:25								Chlorination By products, to JLA (Annual)

DATE SAMPLED	FLOATING/SUSPENDED MATTER	DISCOLORATION	BOTTOM DEPOSITS	AQUATIC LIFE	VISIBLE FILMS, SHEENS OR COATINGS	FUNGI, SLIMES OR OBJECTIONABLE GROWTH	POTENTIAL NUISANCE CONDITIONS	PRESENCE/ABSENCE OF SALMONIDS	COMMENTS:
7/1/11	Sticks - weed debris	Greenish brown	Mud/silt	small waterbeetle aquatic plants Damselflies Dragonfly	None	None	None	Absent	
7/7/11	Weed debris	Greenish Brown	Mud/silt	aquatic plants water beetles moss	None	None	None	Absent	Hay
7/15/11	Leaf litter	Greenish brown	Mud/silt	aquatic plants Damselflies small insects moss	None	None	None	Absent	
7/22/11	Weed litter	Greenish	mud/silt	aquatic plants moss snails	None	None	None	Absent	
7/29/11	Weed litter	Greenish	mud/silt	aquatic plants snails dragon fly damselfly moss	None	None	None	Absent	

J L ANALYTICAL SERVICES, INC.

217 Primo Way • Modesto, California 95358 • Office (209) 538-8111 • FAX (209) 538-3966

Sconza Candy Company
Attn: Jesse Hodges
1 Sconza Candy Lane
Oakdale,CA 95361

Report #	L2.2-14R13203
Report Date:	07/13/2011
Received Date:	07/05/2011
Work Order:	244270

Laboratory Number: 24427001
Description: Water, Pond Effluent, 7-5-11, 900

Analytical Results

Constituent		Result		Minimum Level	Method Detection Limit	Method Reference	Analysis Date	Analysis Time	Analyst
BOD		2	mg/l	2.0	1.0	SM 5210B	07/06/2011	07:50	NH
COD, titrametric	<	5	mg/l	5.0	3.0	SM 5220C	07/08/2011	13:00	GP
Oil & Grease	<	5	mg/l	5.0	1.5	EPA 1664A	07/06/2011	11:30	JP
Turbidity		0.2	NTU	0.1	0.04	SM 2130B	07/06/2011	14:20	GP

QC Results

Constituent	QC Units	Blank		Matrix	Theoretical Spike	Matrix Spike	Matrix Spike Duplicate	Lab Control Spike	Precision %	Accuracy %	Response %
BOD	mg/l	<	2	1800	2000	2700	2700	2000	1.7	86.3	99.7
COD, titrametric	mg/l	<	5	< 5	500	31	32	580	4.2	117.0	116.4
Oil & Grease	mg/l	<	5	< 5	80	75	71	81	4.4	92.8	102.5
Turbidity	NTU	<	0.1	2.4	40	43	44	39	0.5	102.7	98.0

Notes

Authorized By: Amos Snider 07/13/2011

Amos Snider Laboratory Supervisor

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Sconza Candy Company
Attn: Jesse Hodges
1 Sconza Candy Lane
Oakdale,CA 95361

Report # L2.2-14R13226
Report Date: 07/15/2011
Received Date: 07/06/2011
Work Order: 244432

Laboratory Number: 24443201
Description: Effluent Pond, 7-6-11, 845

Analytical Results

Constituent		Result		Minimum Level	Method Detection Limit	Method Reference	Analysis Date	Analysis Time	Analyst
BOD		4	mg/l	2.0	1.0	SM 5210B	07/07/2011	09:45	NH
COD, titrametric	<	5	mg/l	5.0	3.0	SM 5220C	07/08/2011	13:00	GP
Oil & Grease	<	5	mg/l	5.0	1.5	EPA 1664A	07/13/2011	15:40	JP

QC Results

Constituent	QC Units	Blank	Matrix	Theoretical Spike	Matrix Spike	Matrix Spike Duplicate	Lab Control Spike	Precision %	Accuracy %	Response %
BOD	mg/l	< 2	1300	2000	2300	2200	1800	3.5	90.2	90.9
COD, titrametric	mg/l	< 5	< 5	500	31	32	580	4.2	117.0	116.4
Oil & Grease	mg/l	< 5	< 5	80	78	81	80	3.3	93.5	94.1

Notes

Authorized E Amy Ballinger 07/15/2011
Amy Ballinger Chemist

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Sconza Candy Company
Attn: Jesse Hodges
1 Sconza Candy Lane
Oakdale,CA 95361

Report # L2.2-14R13122
Report Date: 07/07/2011
Received Date: 07/05/2011
Work Order: 244271

Laboratory Number: 24427101
Description: Water, R1, 7-5-11, 850

Analytical Results

Constituent	Result		Minimum Level	Method Detection Limit	Method Reference	Analysis Date	Analysis Time	Analyst
Turbidity	1.9	NTU	0.1	0.04	SM 2130B	07/06/2011	14:20	GP

QC Results

Constituent	QC Units	Blank	Matrix	Theoretical Spike	Matrix Spike	Matrix Spike Duplicate	Lab Control Spike	Precision %	Accuracy %	Response %
Turbidity	NTU	< 0.1	2.4	40	43	44	39	0.5	102.7	98.0

Notes

Authorized By: Amos Snider 07/07/2011

Amos Snider Laboratory Supervisor

ELAP Accreditation Laboratory Certificate #2776. These results relate only to the samples tested. This report shall not be reproduced except in fullwithout written approval of the laboratory.

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Sconza Candy Company
Attn: Jesse Hodges
1 Sconza Candy Lane
Oakdale,CA 95361

Report #	L2.2-14R13122
Report Date:	07/07/2011
Received Date:	07/05/2011
Work Order:	244271

Laboratory Number: 24427102
Description: Water, R2, 7-5-11, 855

Analytical Results

Constituent	Result		Minimum Level	Method Detection Limit	Method Reference	Analysis Date	Analysis Time	Analyst
Turbidity	2.4	NTU	0.1	0.04	SM 2130B	07/06/2011	14:20	GP

QC Results

Constituent	QC Units	Blank	Matrix	Theoretical Spike	Matrix Spike	Matrix Spike Duplicate	Lab Control Spike	Precision %	Accuracy %	Response %
Turbidity	NTU	< 0.1	2.4	40	43	44	39	0.5	102.7	98.0

Notes

Authorized By: Amos Snider 07/07/2011

Amos Snider Laboratory Supervisor

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Sconza Candy Company
Attn: Jesse Hodges
1 Sconza Candy Lane
Oakdale, CA 95361

Report #	L2.2-23R24480
Report Date:	07/25/2011
Received Date:	07/25/2011
Work Order:	245727

Laboratory Number: 24572701
Description: Water, 100% Sconza Candy Pond Effluent, 7/7/11, 945

Certificate of Analysis

Constituent	Result	Method Reference	Analysis Date
Bioassay (Acute Toxicity)	See Report	See Attached Report	07/25/2011

Notes

Authorized By: Amos Snider 07/25/2011
Amos Snider Laboratory Supervisor

These results relate only to the samples tested. This report shall not be reproduced except in full, without written approval of the laboratory.

SIERRA
FOOTHILL LABORATORY Inc

REPORT

255 SCOTTSVILLE BLVD.
P.O. BOX 1268 JACKSON, CA 95642
(209) 223 – 2800
sandy@sierralab.com

7/22/2011

J L Analytical Services Inc
217 Primo Way, Ste 2
Modesto CA 95358

96h Static Screening Acute Bioassay with Fathead Minnow 7/08/11-7/12/11
Sconza Candy Effluent collected 7/07/11 0945
Laboratory # 723305
NPDES# CA000416

Sample description:

One 1-gallon plastic container of Sconza Candy Effluent sample collected 7/07/11 0945 was received at the 7/08/11 1340 via FedEx. The sample was iced, 1.8C and in good condition. Laboratory # 723305 was assigned to the effluent, and chemical measurements made are summarized on the following report page.

Control/ comparison water was Diluted Mineral Water (dMW) prepared 6/24/11 using 26% Evian and 74% Arrowhead Distilled. Organisms are cultured in dMW.

Testing method closely followed:

EPA 600/4-90/027F Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms. 4th edition.

Endpoint of test is death or 96h. The testing began 7/08/11 1455 and ended 7/12/11 1235. Test chambers were 500ml plastic containing 300ml of test solution. There were two replicate chambers per treatment, with 10 fish per chamber. *Pimephales promelas* (fathead minnow) obtained from EnviroScience, hatched 7/05/11 were used. Organism age was 3d. Temperature was 25C ± 1C. KCl reference toxicant test date was 7/08/11 and data were in control. Test ran without incidence for 96h.

Results:

Treatment	# Organisms	# Replicates	96h % Survival
100% Sconza Candy Pond Effluent collected 7/07/11 0945	20	2	90
dMW Lab Control	20	2	90

Sierra Foothill Laboratory Inc certifies that test results meet all applicable ELAP requirements unless stated otherwise.
Results are specific to the sample(s) as submitted and only to the parameters reported.
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ELAP #2784, 1113A, 1881

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FOOTHILL LABORATORY Inc

255 SCOTTSVILLE BLVD.
P.O. BOX 1268 JACKSON, CA 95642
(209) 223 – 2800
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REPORT

7/22/2011

J L Analytical Services Inc
217 Primo Way, Ste 2
Modesto CA 95358

96h Static Screening Acute Bioassay with Fathead Minnow 7/08/11-7/12/11
Sconza Candy Effluent collected 7/07/11 0945
Laboratory # 723305
NPDES# CA000416

Summary:

On 7/08/11 1455, 3d old fathead minnows were exposed to Sconza Candy Effluent collected 7/07/11 0945. The effluent sample was 29h old at test initiation. At 96h test termination, there was 90% survival of organisms exposed to Sconza Candy Effluent collected 7/07/11 0945. There was 90% survival of organisms exposed to laboratory control.

Percent survival of organisms exposed to the Sconza Candy Effluent collected 7/07/11 0945 was not significantly reduced from survival of organisms in lab control.

Summary prepared by:

Sandy Nurse

Sandy Nurse

Sierra Foothill Laboratory Inc certifies that test results meet all applicable ELAP requirements unless stated otherwise.
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ELAP #2784, 1113A, 1881

Sierra Foothill Laboratory, Inc.

255 Scottsville Blvd
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Email info@sierralab.com

Sierra Foothill Laboratory Inc
P O Box 1268/ 255 Scottsville Blvd
Jackson CA 95642
(T) 209 223-2800 (F) 209 223-2747

JLAN

CUSTOMER NAME: J&L ANALYTICAL for Sconza Candy

ADDRESS: (SHIP) 1400 SOUTH YOSEMITE AVE (MAIL)217 PRIMO WAY

CITY, STATE, ZIP: OAKDALE CA 95361 MODESTO CA 95358

ATTN: JESSE HODGES TERRY MOONEY

NPDES# CA000416

SFL ID#	SOURCE DESCRIPTION	ANALYSIS (x)		SAMPLING & CONTAINER INFORMATION:			
		Chronic*	Acute**	MATRIX	P/G Gal P	DATE/HR COLLECTED	BY
123305-01	Sconza Candy		X	WW		7/7/11 9:45	JK

* *Acute 96h screening bioassay with fathead minnows, EPA 600/4-90/027F

1.8L to draw

Collection for June 2011 is as follows:

Date
Thurs 7/07/2011 ~~lab picks up on route a City of Oakdale WWTP~~

Amt. effluent to collect
1 gallon AFSc

Transportation notes: Ice sample after collection. ~~Lab will pickup on route at City of Oakdale WWTP,~~ ice must be present in chest to indicate cooling. Shipped – Fed Ex

RELINQUISHED BY: [signature] DATE/TIME: 7/7/11

BY [signature] 7-7-2011 DATE/TIME: 7-7-11

BY: [signature] DATE/TIME:

DATE/TIME: 7-8-11 1340 (Fedex)

KD 7-8-11

Sierra Foothill Laboratory, Inc.

255 Scottsville Blvd
PO Box 1268
Jackson, CA 95642

Phone 209/223-2800
Fax 209/223-2747
Email info@sierralab.com

FROM:
DANNY BAROCI
SCONZA CANDY COMPANY
1 SCONZA CANDY LN

OAKDALE, CA 95361
(209) 848-3750

Ship Date: 07JUL11
ActWgt: 28.0 LB MAN
CAD: 57434S/CAFE2472

TO
SIERRA FOOTHILL LABORATORY
255 SCOTTSVILLE BLVD

JACKSON, CA 95642 (US)

(209) 223-2800

FedEx Ground

Ref: SAMPLES LBS
PO: JESSE HODGES
Dept: OPERATIONS

1 of 1

(9612019) 0252554 60036604

GND
Prepaid

Part # 156148-434 NRIT V9.02-10

Sierra Foothill Laboratory, Inc.

255 Scottsville Blvd
PO Box 1268
Jackson, CA 95642

Phone 209/223-2800
Fax 209/223-2747
Email info@sierralab.com

Client: **JLAN**

J L Analytical Services, Inc.
217 Primo Way, Ste 2
Modesto, CA 95358-

Project Report: **199484**

Results for Project 199484

723305 SCONZA CANDY Liquid Taken: 07/07/2011 0945 By: JH Rec:07/08/2011

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Acute tox 96h fathead, 4th ed	See Report	%survival			600/4-90/027F,1993	07/11/2011 1400	SFL	
Specific Conductance	257	umhos/cm		1.00	EPA120.1/SM2510B	07/08/2011 1215	LV	
Alkalinity, Total as CaCO3	92	mg/L		5.0	EPA310.1/SM2320B	07/20/2011 0905	RK	
Hardness as CaCO3	87	mg/L		5.0	SM2340C	07/21/2011 1400	TN	
pH, Lab*	8.2	unit		0.1	SM4500-H+B	07/08/2011 1210	R&L	*past hold
Oxygen, Dissolved, Lab*	9.8	mg/L		0.1	SM4500-O G	07/08/2011 1415	LV	*past hold
Chlorine Residual,Total, Lab*	<0.10	mg/L		0.10	SM4500Cl G	07/08/2011 1040	L&R	*past hold

Sample Preparation Steps for Project 199484

723305 SCONZA CANDY Liquid Taken: 07/07/2011 0945 By: JH Rec:07/08/2011

Parameter	Result	Unit		Method	Analyzed	By
Nitrogen, Ammonia-N Screen	ND	mg/L	0.50	SFL SOP 125	07/12/2011 1100	T&L

SET Quality Control/Quality Assurance for Project 199484

Alkalinity, Total as CaCO3 (Analyzed: 07/20/2011 0905 RK Verified: 07/22/2011 10:51 DEG)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	320	347	mg/L	92.2	
	Blank	<5.0		mg/L		
723289	Duplicate	16	16	mg/L		0.0
723398	Duplicate	72	76	mg/L		5.4
723411	Duplicate	11	11	mg/L		0.0
723424	Duplicate	64	68	mg/L		6.1
723524	Duplicate	132	132	mg/L		0.0
723543	Duplicate	88	84	mg/L		4.7
723310	Matrix SPK	100	93	mg/L	108	
723392	Matrix SPK	88.4	93	mg/L	95	
723409	Matrix SPK	87.4	93	mg/L	94	
723438	Matrix SPK	81.3	83	mg/L	98	
723449	Matrix SPK	92.1	93	mg/L	99	

Sierra Foothill Laboratory certifies that test results meet all applicable ELAP requirements unless stated otherwise.
Results are specific to the sample(s) as submitted and only to the parameter(s) reported.
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Sierra Foothill Laboratory, Inc.

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Client: **JLAN**
Project Report: **199484**

SET Quality Control/Quality Assurance for Project 199484

Alkalinity, Total as CaCO3

(Analyzed: 07/20/2011 0905 RK Verified: 07/22/2011 10:51 DEG)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
723544	Matrix SPK	95.8	93	mg/L	103	

Chlorine Residual,Total, Lab*

(Analyzed: 07/08/2011 1040 L&R Verified: 07/11/2011 08:30 KL)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Blank	<0.10		mg/L		
723293	Duplicate	0.48	0.49	mg/L		2.1

Oxygen, Dissolved, Lab*

(Analyzed: 07/08/2011 1415 LV Verified: 07/11/2011 08:29 KL)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
723305	Duplicate	9.8	10.0	mg/L		2.0

Specific Conductance

(Analyzed: 07/08/2011 1215 LV Verified: 07/11/2011 08:31 KL)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	104	100	umhos/cm	104.0	
723284	Duplicate	436	438	umhos/cm		0.5

Hardness as CaCO3

(Analyzed: 07/21/2011 1400 TN Verified: 07/22/2011 10:39 JT)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	571	598	mg/L	95.5	
	Blank	<5.0		mg/L		
722945	Duplicate	288	299	mg/L		3.7
722991	Duplicate	83	79	mg/L		4.9
723436	Duplicate	110	110	mg/L		0.0
723489	Duplicate	51	47	mg/L		8.2
723586	Duplicate	138	142	mg/L		2.9
723058	Matrix SPK	81.7	86	mg/L	95	
723305	Matrix SPK	86.0	86	mg/L	100	
723504	Matrix SPK	79.1	86	mg/L	92	
723586	Matrix SPK	90.3	86	mg/L	105	
723587	Matrix SPK	93.7	86	mg/L	109	

pH, Lab*

(Analyzed: 07/08/2011 1210 R&L Verified: 07/11/2011 08:22 KL)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	7.4	7.4	unit	100.0	
723304	Duplicate	7.4	7.5	unit		1.3

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Client: **JLAN**
Project Report: **199484**

ELAP #2784, #1113A, #1881

Sandy Nurse

Sandy Nurse, Lab Director

Sierra Foothill Laboratory certifies that test results meet all applicable ELAP requirements unless stated otherwise.
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Sierra Foothill Laboratory, Inc.
255 Scottsville Blvd.
Jackson, CA 95642

Client: J&L Analytical-Sconza Candy 723305

Test Conducted By: LG/SN/JCM

Exposure Chamber: Capacity 500 mL
Test Solution Volume 300 mL

Feeding Schedule: Not Fed _____
Fed Daily, Siphon Debris Daily _____
Fed Irregularly (.1 mL @46h; Siphon @ 48h) X

Test Period:
Beginning: Date 7-08-11 Time 1455
Ending: Date 7-12-11 Time 1235

Test Organism:
Species: Pimephales promelas
Age: Hatch Date 7-05-11 3 day old
Source: Enviro Science
Control Water: dMW of 6-24-11

Food Used: <24h Artemia Code: 6263
Exposed Organisms: 10/test exposure chamber
Renewal Volume and Date: 100 mLs @ 48h
☐ EPA 600/4-90/027F X☐ EPA 821-R02-012
Temp: 25°C +/- 1 Temp: max.- min. ≤ 3° C

Reference Toxicant Test Date: 7-08-11 Prep Date 7-05-11
KCl Reagent Code 6391 Prep Code 0711- 01

Conc or %	Test Container #	# Dead:				Dissolved oxygen (mg/L):					pH (unit):					EC (µmho/cm):		
		24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	48	96
EFF	7011	1	0	0	0	8.6	8.1	7.6	8.0	7.6	8.3	8.4	8.3	8.4	8.4	257	297	284
	7012	1	0	0	0													
Mortality Check Time/Initials																		

Lab Comments:

Sierra Foothill Laboratory, Inc.
255 Scottsville Blvd.
Jackson, CA 95642

Client: J&L Analytical-Sconza Candy 723305

Test Conducted By: LG/SN/JCM

Exposure Chamber: Capacity 500 mL
Test Solution Volume 300 mL

Feeding Schedule: Not Fed _____
Fed Daily, Siphon Debris Daily _____
Fed Irregularly (.1 mL @46h; Siphon @ 48h) X

Food Used: <24h Artemia **Code:** 6263
 # Exposed Organisms: 10/test exposure chamber
Renewal Volume and Date: 100 mLs @ 48h
☐ EPA 600/4-90/027F X☐ EPA 821-R02-012
Temp: 25°C +/- 1 **Temp:** max.- min. ≤ 3° C

Test Period:
Beginning: Date 7-08-11 Time 1455
Ending: Date 7-12-11 Time 1235

Test Organism:
Species: Pimephales promelas
Age: Hatch Date 7-05-11 3 day old
Source: Enviro Science
Control Water: dMW of 6-24-11
Reference Toxicant Test Date: 7-08-11 **Prep Date:** 7-05-11
KCl Reagent Code: 6391 **Prep Code:** 0711-01

Test Cont. number	0h Temp	24h Temp	48h Temp	72h Temp	96h Temp	Total Alkalinity (mg/L as $CaCO_3$) 0h	Total Hardness (mg/L as $CaCO_3$) 0h	Cl_2 (mg/L) 0h	NH_3P (mg/L) 0h
7011 Initial	25.9	25.0	24.4	23.6	23.4	92	87	<0.10	ND

Sierra Foothill Laboratory, Inc.
255 Scottsville Blvd.
Jackson, CA 95642

Client: dMW/Ref Tox

Test Conducted By: LG/SN/JCM

Exposure Chamber: Capacity 500 mL
Test Solution Volume 300 mL

Feeding Schedule: Not Fed _____
Fed Daily, Siphon Debris Daily _____
Fed Irregularly (.1 mL @46h; Siphon @ 48h) X

Test Period:
Beginning: Date 7-08-11 Time 1455
Ending: Date 7-12-11 Time 1235

Test Organism:
Species: Pimephales promelas
Age: Hatch Date 7-05-11 3 day old
Source: Enviro Science
Control Water: dMW of 6-24-11

Food Used: <24h Artemia Code: 6263
Exposed Organisms: 10/test exposure chamber
Renewal Volume and Date: 100 mLs @ 48h
X☐ EPA 600/4-90/027F X☐ EPA 821-R02-012
Temp: 25°C +/- 1 Temp: max.- min. ≤ 3° C

Reference Toxicant Test Date : 7-08-11 Prep Date: 7-05-11
KCl Reagent Code: 6391 Prep Code: 0711-01

Conc or %	Test Container #	# Dead:				Dissolved oxygen (mg/L):					pH (unit):					EC (µmho/cm):		
		24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	48	96
dMW	7001	1	0	0	0	8.2	8.0	7.7	7.8	7.4	8.4	8.4	8.2	8.1	8.1	171	187	187
	7002	1	0	0	0													
KCl 0.25 L	7003	3	~~4~~ 1	0	0	8.3	8.0	7.4	7.9	7.5	8.3	8.4	8.1	8.2	8.2	649	682	655
	7004	2	4	0	0													
KCl 0.50 g/L	7005	3	0	1	0	8.2	8.0	7.6	7.8	7.7	8.3	8.4	8.1	8.2	8.2	1090	1142	1106
	7006	5	0	0	0													
KCl 1.0 g/L	7007	10	—	—	—	8.2	8.0	—	—	—	8.3	8.4	—	—	—			
	7008	6	3	0	0			7.7	7.9	7.7			8.2	8.2	8.2	1920	2060 (E)	2030(E)
KCl 2.0 g/L	7009	10	—	—	—	8.2	8.1	—	—	—	8.3	8.4	—	—	—	3440	—	—
	7010	10	—	—	—			—	—	—			—	—	—		—	—
Mortality Check Time/Initials		1300 AM	1355 LG	1240 LG	1235 JCM	LG	AM	LG	LG	1140 JCM	LG	AM	LG	LG	1155 JCM		LG	1150 JCM

CETIS Summary Report

Report Date: 20 Jul-11 11:45 (p 1 of 1)
Test Code: 070811PA5LRT1 | 06-8630-9874

Fathead Minnow 96-h Acute Survival Test — **Sierra Foothill Laboratory Inc.**

Batch ID:	17-5255-5328	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	08 Jul-11 14:55	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	
Ending Date:	12 Jul-11 12:35	**Species:**	Pimephales promelas	**Brine:**	
Duration:	94h	**Source:**	Enviro Sciences Inc, TX	**Age:**	3d

Sample ID:	00-7233-7144	**Code:**	0711-01	**Client:**	Sierra Foothill Laboratory
Sample Date:	08 Jul-11	**Material:**	Potassium chloride	**Project:**	
Receive Date:	08 Jul-11	**Source:**	KCl Reference Toxicant		
Sample Age:	15h	**Station:**			

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
13-2826-8855	96h Survival Rate	<0.25	0.25	N/A	N/A		Fisher Exact Test

Point Estimate Summary

Analysis ID	Endpoint	Level	gm/L	95% LCL	95% UCL	TU	Method
04-8748-1038	96h Survival Rate	EC50	0.5578	0.4367	0.7125		Trimmed Spearman-Kärber

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
04-8748-1038	96h Survival Rate	Control Resp	0.9	0.9 - NL	Yes	Passes Acceptibility Criteria
13-2826-8855	96h Survival Rate	Control Resp	0.9	0.9 - NL	Yes	Passes Acceptibility Criteria

96h Survival Rate Summary

Conc-gm/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	DMW	2	0.9	0.9	0.9	0.9	0.9	0	0	0.0%	0.0%
0.25		2	0.5	0.4472	0.5528	0.4	0.6	0.1	0.1414	28.28%	44.44%
0.5		2	0.55	0.5236	0.5764	0.5	0.6	0.05	0.07071	12.86%	38.89%
1		2	0.05	0.0236	0.0764	0	0.1	0.05	0.07071	141.4%	94.44%
2		2	0	0	0	0	0	0	0		100.0%

96h Survival Rate Detail

Conc-gm/L	Control Type	Rep 1	Rep 2
0	DMW	0.9	0.9
0.25		0.6	0.4
0.5		0.6	0.5
1		0	0.1
2		0	0

CETIS Analytical Report

Report Date:	20 Jul-11 11:45 (p 1 of 1)
Test Code:	070811PA5LRT1 | 06-8630-9874

Fathead Minnow 96-h Acute Survival Test — **Sierra Foothill Laboratory Inc.**

Analysis ID:	04-8748-1038	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	20 Jul-11 11:43	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes

Batch ID:	17-5255-5328	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	08 Jul-11 14:55	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	
Ending Date:	12 Jul-11 12:35	**Species:**	Pimephales promelas	**Brine:**	
Duration:	94h	**Source:**	Enviro Sciences Inc, TX	**Age:**	3d

Sample ID:	00-7233-7144	**Code:**	0711-01	**Client:**	Sierra Foothill Laboratory
Sample Date:	08 Jul-11	**Material:**	Potassium chloride	**Project:**	
Receive Date:	08 Jul-11	**Source:**	KCl Reference Toxicant		
Sample Age:	15h	**Station:**			

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0.1	41.67%	-0.2535	0.05315	0.5578	0.4367	0.7125

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9	0.9 - NL	Yes	Passes Acceptibility Criteria

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(a:5%)
Extreme Value	Grubbs Extreme Value	1.537	2.29	1.0000	No Outliers Detected

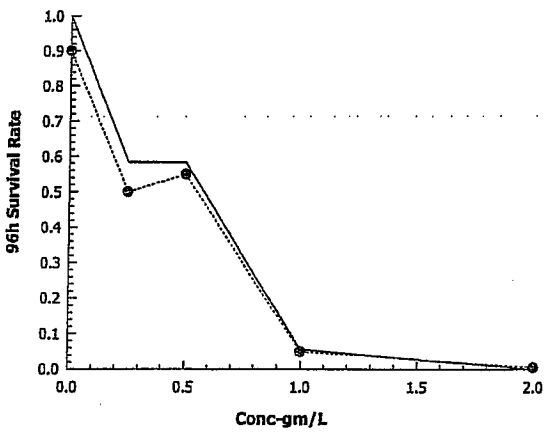
96h Survival Rate Summary

			Calculated Variate(A/B)								
Conc-gm/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	DMW	2	0.9	0.9	0.9	0	0	0.0%	0.0%	18	20
0.25		2	0.5	0.4	0.6	0.1	0.1414	28.28%	44.44%	10	20
0.5		2	0.55	0.5	0.6	0.05	0.07071	12.86%	38.89%	11	20
1		2	0.05	0	0.1	0.05	0.07071	141.4%	94.44%	1	20
2		2	0	0	0	0	0		100.0%	0	20

96h Survival Rate Detail

Conc-gm/L	Control Type	Rep 1	Rep 2
0	DMW	0.9	0.9
0.25		0.6	0.4
0.5		0.6	0.5
1		0	0.1
2		0	0

Graphics



CETIS Analytical Report

Report Date: 20 Jul-11 11:45 (p 1 of 1)
Test Code: 070811PA5LRT1 | 06-8630-9874

Fathead Minnow 96-h Acute Survival Test — **Sierra Foothill Laboratory Inc.**

Analysis ID:	13-2826-8855	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	20 Jul-11 11:43	**Analysis:**	Single 2x2 Contingency Table	**Official Results:**	Yes

Batch ID:	17-5255-5328	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	08 Jul-11 14:55	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	
Ending Date:	12 Jul-11 12:35	**Species:**	Pimephales promelas	**Brine:**	
Duration:	94h	**Source:**	Enviro Sciences Inc, TX	**Age:**	3d

Sample ID:	00-7233-7144	**Code:**	0711-01	**Client:**	Sierra Foothill Laboratory
Sample Date:	08 Jul-11	**Material:**	Potassium chloride	**Project:**	
Receive Date:	08 Jul-11	**Source:**	KCl Reference Toxicant		
Sample Age:	15h	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	<0.25	0.25	N/A	

Fisher Exact Test

Control	vs	Conc-gm/L	Test Stat	P-Value	Decision(0.05)
DMW		0.25	0.006907	0.0069	Significant Effect
		0.5	0.01548	0.0155	Significant Effect
		1	2.91E-08	<0.0001	Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.9	0.9 - NL	Yes	Passes Acceptibility Criteria

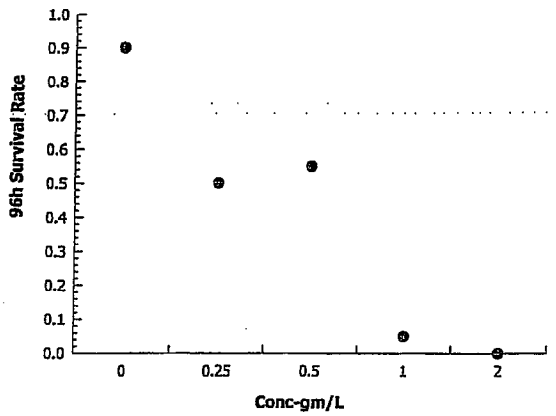
Data Summary

Conc-gm/L	Control Type	No-Resp	Resp	Total
0	DMW	18	2	20
0.25		10	10	20
0.5		11	9	20
1		1	19	20
2		0	20	20

96h Survival Rate Detail

Conc-gm/L	Control Type	Rep 1	Rep 2
0	DMW	0.9	0.9
0.25		0.6	0.4
0.5		0.6	0.5
1		0	0.1
2		0	0

Graphics



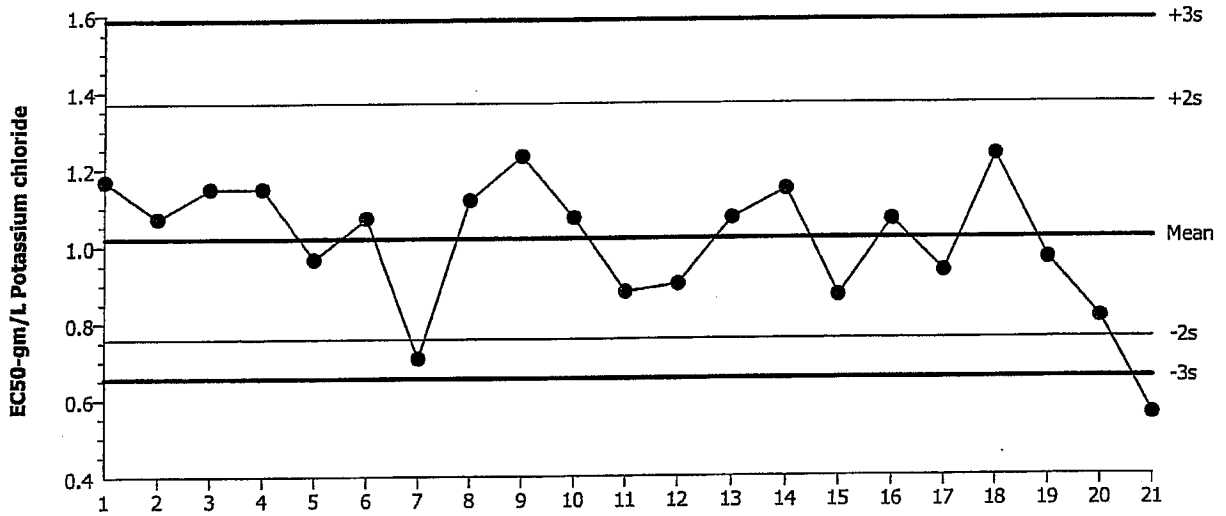
CETIS QC Plot

Report Date: 20 Jul-11 11:46 (1 of 1)

Fathead Minnow 96-h Acute Survival Test — Sierra Foothill Laboratory Inc.

Test Type:	Survival (96h)	**Organism:**	Pimephales promelas (Fathead Minn	**Material:**	Potassium chloride
Protocol:	EPA/821/R-02-012 (2002)	**Endpoint:**	96h Survival Rate	**Source:**	KCl Reference Toxicant-RT1

Fathead Minnow 96-h Acute Survival Test



Mean:	1.019	**Count:**	20	**-2s Warning Limit:**	0.7585	**-3s Action Limit:**	0.6545
Sigma:	N/A	**CV:**	15.90%	**+2s Warning Limit:**	1.369	**+3s Action Limit:**	1.587

Quality Control Data

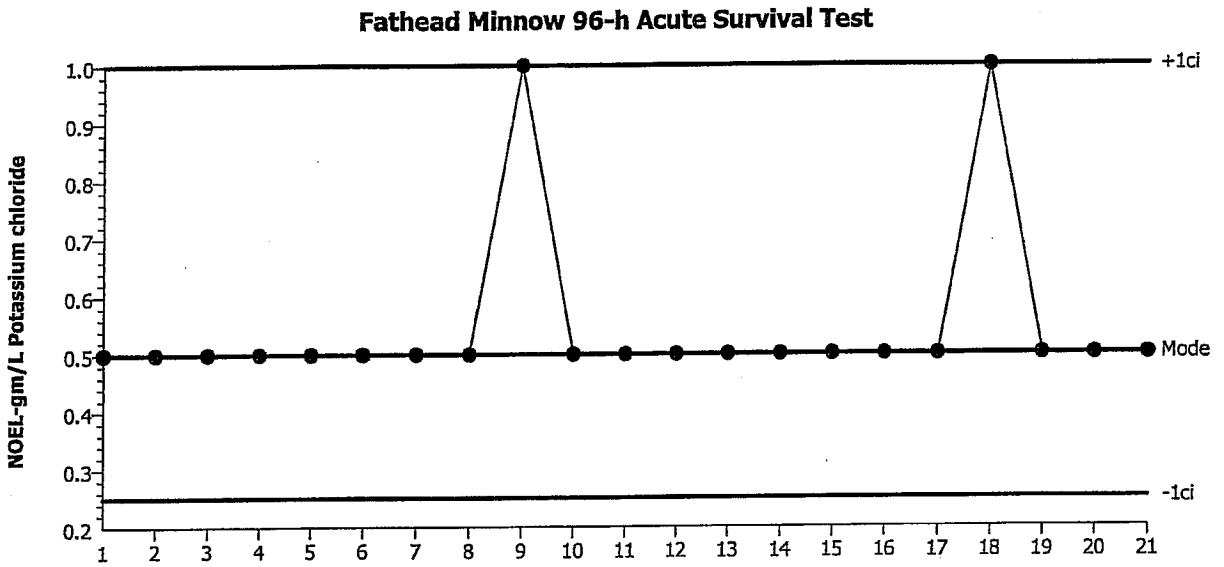
Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2011	Jan	11	1.168	0.1491	0.9249			18-8371-8811	00-1115-4720
2			19	1.072	0.05275	0.342			09-2139-5321	04-4799-3707
3			25	1.149	0.1297	0.8116			18-1743-4639	06-8312-6442
4		Feb	8	1.149	0.1297	0.8116			08-9402-3489	13-7781-3667
5			15	0.9659	-0.05308	-0.3624			17-6195-7280	03-9107-8564
6			16	1.072	0.05275	0.342			06-5671-2864	10-2487-8187
7			25	0.7071	-0.3119	-2.476	(-)		15-4252-8537	09-0293-1438
8		Mar	1	1.118	0.09906	0.6285			05-1161-5369	13-0338-0834
9			9	1.231	0.2121	1.281			20-3224-9970	15-7695-3646
10			15	1.072	0.05275	0.342			11-6948-7973	01-4706-2655
11			16	0.8805	-0.1385	-0.9896			04-5563-5050	02-5202-1790
12		Apr	6	0.9013	-0.1178	-0.8321			15-5427-6829	07-6291-6658
13			12	1.072	0.05275	0.342			10-0204-4934	15-6996-7495
14			19	1.146	0.1268	0.7948			12-9769-3312	08-5775-0461
15			26	0.8706	-0.1485	-1.067			04-9029-1617	01-3987-8470
16		May	5	1.066	0.04731	0.3075			11-3091-3534	20-6934-7500
17			10	0.933	-0.08599	-0.5973			20-6137-7443	14-2897-3259
18			18	1.234	0.2147	1.295			12-6961-7174	06-0019-4189
19		Jun	15	0.9659	-0.05308	-0.3624			12-0730-1833	14-5946-3582
20			22	0.8123	-0.2068	-1.536			18-1456-7630	07-7482-2179
21		Jul	8	0.5578	-0.4612	-4.082	(-)	(-)	06-8630-9874	04-8748-1038

CETIS QC Plot

Report Date: 20 Jul-11 11:47 (1 of 1)

Fathead Minnow 96-h Acute Survival Test — Sierra Foothill Laboratory Inc.

Test Type:	Survival (96h)	**Organism:**	Pimephales promelas (Fathead Minn	**Material:**	Potassium chloride
Protocol:	EPA/821/R-02-012 (2002)	**Endpoint:**	96h Survival Rate	**Source:**	KCl Reference Toxicant-RT1



Mode: 0.5 **Count:** 20 **-1ci Action Limit:** 0.25
Dil Fact: 0.5 **+1ci Action Limit:** 1

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2011	Jan	11	0.5	0				18-8371-8811	00-0939-8736
2			19	0.5	0				09-2139-5321	18-6187-1403
3			25	0.5	0				18-1743-4639	01-4470-4210
4		Feb	8	0.5	0				08-9402-3489	20-7180-8873
5			15	0.5	0				17-6195-7280	16-3976-4280
6			16	0.5	0				06-5671-2864	04-6023-9354
7			25	0.5	0				15-4252-8537	05-6416-6587
8		Mar	1	0.5	0				05-1161-5369	04-3056-1547
9			9	1	0.5				20-3224-9970	15-8757-2597
10			15	0.5	0				11-6948-7973	14-4618-6875
11			16	0.5	0				04-5563-5050	05-8801-1472
12		Apr	6	0.5	0				15-5427-6829	05-3552-9022
13			12	0.5	0				10-0204-4934	03-4729-3336
14			19	0.5	0				12-9769-3312	19-7871-1296
15			26	0.5	0				04-9029-1617	07-2802-1526
16		May	5	0.5	0				11-3091-3534	12-7375-8874
17			10	0.5	0				20-6137-7443	09-7249-2003
18			18	1	0.5				12-6961-7174	10-6070-1201
19		Jun	2	0.5	0				21-4067-6835	15-6468-1871
20			15	0.5	0				12-0730-1833	08-0814-2808
21			22	0.5	0				18-1456-7630	01-4648-4358