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Sconza Candy Company
Candy Manufacturers Since 1939

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

January 18, 2012
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 last quarter of 2011 for effluent water for Sconza Candy Company at their Oakdale facility. This report relates to Limited Threat General Order number R5-2008-0082-015.
Sierra Foothill Laboratories in Jackson and JL Analytical Services, Inc. in Modesto completed the annual Acute Toxicity test. Daily and monthly monitoring was done by in house staff.
Please let us know if there are any concerns.
Jesse Hodges - 209 918-0140 or Eric McDonald - 209-896-6287

"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

Sconza Candy Company
2011 Quarterly Monitoring
EFFLUENT MONITORING (NON-CONTACT COOLING WATER)
Limited Threat General Order number R5-2008-0082-015

DATE (2011)	Electrical Conductivity *Monthly*	ACUTE TOXICITY (% Survival) *Annual*	Ammonia *(with toxicity samples)*	CHRONIC TOXICITY (% Survival) *Annual*
10/18	245.5	NT	NT	NT
11/3	NT	100	0	NT
11/30	284	NT	NT	NT
12/9	277	NT	NT	NT

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Date (2011)	Flow MGD	pH	Total Chlorine PPM	Bisulfate PPM	Date (2011)	Flow	pH	Total Chlorine PPM	Bisulfate PPM
10/17			0.00	.5	12/7	3.14	7.51	0.00	.5
10/18		7.75	0.00	.5	12/8	3.24	7.36	0.00	.5
10/19			0.00	1.0	12/9	3.24	7.27	0.01	.5
10/20		8.29	0.00	1.5	12/10	3.14	7.03	0.00	.5
10/21	2.24	8.06	0.02/0.00*	.5	12/12	3.24	7.23	0.01	1.5
10/22	2.06	7.09	0.00	0.5	12/13	3.24	7.12	0.01	1.0
10/23	2.06	6.71	0.00*		12/14	3.24	7.02	0.00	.5
10/24	2.15	7.33	0.01	.5	12/15	3.14	7.11	0.00	.5
10/25	2.24	7.02	0.01	1.0	12/16	3.24	6.92	0.00	.5
10/26	2.24	6.86	0.01	1.0	12/19	2.83	6.87	0.00	.5
10/27	2.06	7.10	0.01	.5	12/20	2.43	7.61	0.00	.5
10/28	2.06	6.78	0.01	1.5	Plant	Closed:	Christmas	Holiday	
10/29	2.06	6.72	0.00*						
10/30	2.06	7.20	0.00*						
10/31	2.06	7.08	0.02/0.00*	0					
11/1	2.06	7.20	0.00	.5					
11/2	2.24	7.16	0.01	1.0					
11/3	2.06	7.60	0.00	2.5					
11/4	3.24	7.50	0.00	1.5					
11/5	3.24	7.05	0.00*						
11/6	3.24	7.45	0.00*						
11/7	3.24	7.20	0.00	1.5					
11/8	3.03	7.19	0.00*						
11/9	3.46	7.21	0.00*						
11/10	3.68	7.15	0.00	1.5					
11/11	3.46	7.18	0.01	1.5					
11/12	3.46	7.31	0.00	1.5					
11/13	3.68	7.10	0.00*						
11/14	3.24	7.21	0.00	.5					
11/15	3.03	7.25	0.00	1.5					
11/16	3.03	7.32	0.00	1.0					
11/17	3.24	7.07	0.00	1.0					
11/18	3.03	7.87	0.00	.5					
11/19	2.83	7.56	0.00	.5					
11/20	3.24	7.32	0.00*						
11/21	3.24	7.35	0.00	1.0					
11/22	2.83	7.42	0.00	.5					
11/23	2.63	7.35	0.00	1.0					
Plant Closed	Thanksgiving	Holiday							
11/28	2.24	7.44	0.00	0.5					
11/29	2.15	7.38	0.00	1.0					
11/30	2.63	7.04	0.00	1.0					
12/1	2.83	7.08	0.00	0.5					
12/2	2.73	7.28	0.01	3.5					
12/6	2.93	7.47	0.01	0.5					

*Denotes result from LaMotte meter, tested by technical services - JDH

On days not listed the plant was not in production, no effluent flow to canal

SIERRA
FOOTHILL LABORATORY Inc

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

REPORT

11/14/11

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

96h Static Screening Acute Bioassay with Fathead Minnow 11/3/11 – 11/7/11
Sconza Candy Effluent collected 11/3/11 0720
Laboratory # 732080
NPDES# CA000416

Sample description:

One 1-gallon plastic container of Sconza Candy Effluent sample collected 11/3/11 0720 was received at the 11/3/11 1035 via SFL courier. The sample was iced, 5.1C and in good condition. Laboratory # 732080 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 10/21/11 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 11/3/11 1520 and ended 11/7/11 1535. 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 10/24/11 were used. Organism age was 10d. Temperature was 25C ± 1C. KCl reference toxicant test date was 10/25/11 and data were in control. Test ran without incidence for 96h.

Results:

Treatment	# Organisms	# Replicates	96h % Survival
100% Sconza Candy Pond Effluent collected 11/3/11 0720	20	2	100
dMW Lab Control	20	2	100

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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REPORT

11/14/11

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

96h Static Screening Acute Bioassay with Fathead Minnow 11/3/11 – 11/7/11
Sconza Candy Effluent collected 11/3/11 0720
Laboratory # 732080
NPDES# CA000416

Summary:

On 11/3/11 1520, 10d old fathead minnows were exposed to Sconza Candy Effluent collected 11/3/11 0720. The effluent sample was 8h old at test initiation. At 96h test terminatio11/3/11 0720. There was 100% survival of organisms exposed to laboratory control.

Percent survival of organisms exposed to the Sconza Candy Effluent collected 11/3/11 0720 was not significantly reduced from survival of organisms in lab control.

Summary prepared by:

Sandy Nurse

Sandy Nurse

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ELAP #2784, 1113A, 1881

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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	DATE/HR COLLECTED	BY
732080.01	Sconza Candy		X	WW	Gal P	11/3/11 7:20	[illegible]

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

5.1 -6 ice

Collection for November 2011 is as follows:

Date		Amt. effluent to collect	
Thurs 11/03/2011	lab picks up on route a City of Oakdale WWTP	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.

RELINQUISHED BY: [signature] DATE/TIME: 11/3/11 7:45

RECEIVED BY: Rovanna Brown DATE/TIME: 11/3/11 8:40 am

RELINQUISHED BY: Rovanna Brown DATE/TIME: 11/3/11 1035

RECEIVED BY: [signature] DATE/TIME: 11.3.11 1035

Rel [signature] 11-3-11 1300

Rec [signature] 11.3.11 1300

[signature] 11.3.11

Sierra Foothill Laboratory, Inc.

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Client: **JLAN**

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

Project Report: **203987**

Results for Project 203987

732080 SCONZA CANDY EFFLUENT Liquid Taken: 11/03/2011 0720 By: JH Rec:11/03/2011

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Acute tox 96h fathead, 4th ed	See Report	%survival			600/4-90/027F,1993	11/07/2011 1400	SFL	
Specific Conductance	250	umhos/cm		1.00	EPA120.1/SM2510B	11/03/2011 0945	RLJ	
Alkalinity, Total as CaCO3	92	mg/L		5.0	EPA310.1/SM2320B	11/04/2011 1030	LG	
Hardness as CaCO3	88	mg/L		5.0	SM2340C	11/07/2011 1535	LV	
pH, Lab*	8.1	unit		0.1	SM4500-H+B	11/03/2011 1245	LV	*past hold
Oxygen, Dissolved, Lab*	8.2	mg/L		0.1	SM4500-O G	11/03/2011 1405	LV	*past hold
Chlorine Residual,Total, Lab*	<0.10	mg/L		0.10	SM4500Cl G	11/03/2011 0930	LVJ	*past hold

Sample Preparation Steps for Project 203987

732080 SCONZA CANDY EFFLUENT Liquid Taken: 11/03/2011 0720 By: JH Rec:11/03/2011

Parameter	Result	Unit		Method	Analyzed	By
Nitrogen, Ammonia-N Screen	ND	mg/L	0.50	SFL SOP 125	11/03/2011 1100	LV

SET Quality Control/Quality Assurance for Project 203987

Alkalinity, Total as CaCO3 (Analyzed: 11/04/2011 1030 LG Verified: 11/04/2011 16:33 DEG)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	218	217	mg/L	100.5	
	Blank	<5.0		mg/L		
731792	Duplicate	211	208	mg/L		1.4
731862	Duplicate	344	340	mg/L		1.2
731995	Duplicate	82	80	mg/L		2.5
732080	Duplicate	92	92	mg/L		0.0
732130	Duplicate	134	132	mg/L		1.5
731669	Matrix SPK	58.6	57.5	mg/L	102%	
731824	Matrix SPK	71.1	69	mg/L	103%	
731944	Matrix SPK	73.1	69	mg/L	106%	
732093	Matrix SPK	71.8	69	mg/L	104%	
732118	Matrix SPK	71.1	69	mg/L	103%	

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Continued

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SET Quality Control/Quality Assurance for Project 203987

Chlorine Residual,Total, Lab*

(Analyzed: 11/03/2011 0930 LVJ Verified: 11/04/2011 10:16 DEG)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Blank	<0.10		mg/L		
732021	Duplicate	<0.10	<0.10	mg/L		0.0
732038	Duplicate	1.09	1.09	mg/L		0.0

Oxygen, Dissolved, Lab*

(Analyzed: 11/03/2011 1405 LV Verified: 11/04/2011 10:17 DEG)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
732080	Duplicate	8.2	8.3	mg/L		1.2

Specific Conductance

(Analyzed: 11/03/2011 0945 RLJ Verified: 11/04/2011 10:15 DEG)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	104	100	umho/cm	104.0	
730086	Duplicate	481	481	umho/cm		0.0
732021	Duplicate	258	258	umho/cm		0.0

Hardness as CaCO3

(Analyzed: 11/07/2011 1535 LV Verified: 11/08/2011 10:12 KL)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	571	598	mg/L	95.5	
	Blank	<5.0		mg/L		
732101	Duplicate	82	88	mg/L		7.1
732146	Duplicate	94	90	mg/L		4.3
732118	Matrix SPK	84.2	84.2	mg/L	100	
732215	Matrix SPK	40.8	42.1	mg/L	97	

pH, Lab*

(Analyzed: 11/03/2011 1245 LV Verified: 11/04/2011 10:16 DEG)

Sample	Type	Result	Value	Unit	Recovery (%)	RPD
	Standard	7.5	7.5	unit	100.0	
732048	Duplicate	6.5	6.5	unit		0.0

ELAP #2784, #1113A, #1881

Sandy Nurse

Sandy Nurse, Lab Director

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

Client: J + L Analytical for Sconza Candy 732080

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 X JCM
Fed Irregularly (.1 mL @46h; Siphon @ 48h) X

Test Period:
Beginning: Date 11-03-11 Time 1520
Ending: Date 11-07-11 Time 1535

Food Used: <24h Artemia Code: 6425
Exposed Organisms: 10/test exposure chamber
Renewal Volume and Date: 100 mLs @ 48h
☐ EPA 600/4-90/027F ☒ EPA 821-R02-012
Temp: 25°C +/- 1 Temp: max.- min. ≤ 3° C

Test Organism:
Species: Pimephales promelas
Age: Hatch Date 10-24-11 10 day old
Source: Enviro Science
Control Water: dMW of 10-21-11
Reference Toxicant Test Date: 10-25-11 Prep Date: 10-24-11
KCl Reagent Code 6517 Prep Code 1011-38

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	3011	0	0	0	0	11.0	8.3	8.1	8.0	8.0	8.2	8.2	8.2	8.2	8.3	250	~~349~~ 249	247
	3012	0	0	0	0													
Mortality Check Time/Initials																		

Lab Comments:

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

Client: J + L Analytical for Sconza Candy

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 ~~X~~ JCM
Fed Irregularly (.1 mL @46h; Siphon @ 48h) X

Test Period:
Beginning: Date 11-03-11 Time 1520
Ending: Date 11-07-11 Time 1535

Food Used: <24h Artemia Code: 6425
Exposed Organisms: 10/test exposure chamber
Renewal Volume and Date: 100 mLs @ 48h
☐ EPA 600/4-90/027F ☒ EPA 821-R02-012
Temp: 25°C +/- 1 Temp: max.- min. ≤ 3° C

Test Organism:
Species: Pimephales promelas
Age: Hatch Date 10-21-11 10 day old
Source: Enviro Science
Control Water: dMW of 10-21-11
Reference Toxicant Test Date: 10-25-11 Prep Date: 10-24-11
KCl Reagent Code: 6517 Prep Code: 1011-38

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
3011	25.2	25.0	25.0	25.0	24.4	92	88	<.1	<.5

Initial

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

Batch ID:	09-2920-8385	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	03 Nov-11 15:20	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	
Ending Date:	07 Nov-11 15:35	**Species:**	Pimephales promelas	**Brine:**	
Duration:	4d 0h	**Source:**	Enviro Sciences Inc, TX	**Age:**	10d
Sample ID:	08-1671-9138	**Code:**	1011-38	**Client:**	Sierra Foothill Laboratory
Sample Date:	03 Nov-11	**Material:**	Potassium chloride	**Project:**	
Receive Date:	03 Nov-11	**Source:**	KCl Reference Toxicant		
Sample Age:	15h	**Station:**			

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
02-0203-2168	96h Survival Rate	1	2	1.414	N/A		Fisher Exact Test

Point Estimate Summary

Analysis ID	Endpoint	Level	gm/L	95% LCL	95% UCL	TU	Method
00-5482-4545	96h Survival Rate	EC50	1.231	1.088	1.394		Spearman-Kärber

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
00-5482-4545	96h Survival Rate	Control Resp	1	0.9 - NL	Yes	Passes Acceptibility Criteria
02-0203-2168	96h Survival Rate	Control Resp	1	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	1	1	1	1	1	0	0	0.0%	0.0%
0.285		2	1	1	1	1	1	0	0	0.0%	0.0%
0.5		2	1	1	1	1	1	0	0	0.0%	0.0%
1		2	0.8	0.7472	0.8528	0.7	0.9	0.1	0.1414	17.68%	20.0%
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	1	1
0.285		1	1
0.5		1	1
1		0.9	0.7
2		0	0

CETIS Analytical Report

Fathead Minnow 96-h Acute Survival Test

Sierra Foothill Laboratory Inc.

Analysis ID:	00-5482-4545	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	08 Nov-11 10:47	**Analysis:**	Untrimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	09-2920-8385	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	03 Nov-11 15:20	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	
Ending Date:	07 Nov-11 15:35	**Species:**	Pimephales promelas	**Brine:**	
Duration:	4d 0h	**Source:**	Enviro Sciences Inc, TX	**Age:**	10d
Sample ID:	08-1671-9138	**Code:**	1011-38	**Client:**	Sierra Foothill Laboratory
Sample Date:	03 Nov-11	**Material:**	Potassium chloride	**Project:**	
Receive Date:	03 Nov-11	**Source:**	KCl Reference Toxicant		
Sample Age:	15h	**Station:**			

Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	0.00%	0.09031	0.02692	1.231	1.088	1.394

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.9 - NL	Yes	Passes Acceptibility Criteria

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value	Grubbs Extreme Value	2.121	2.29	0.1335	No Outliers Detected

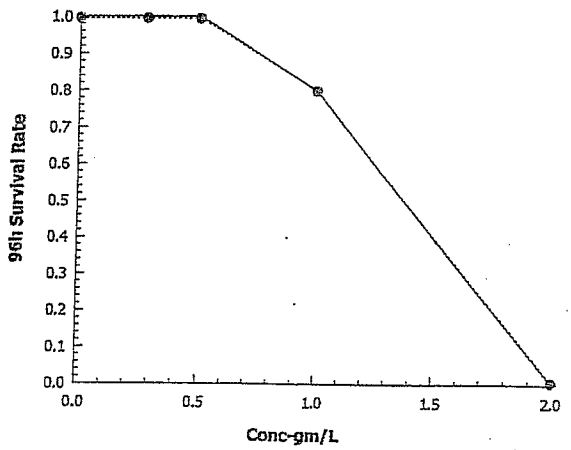
96h Survival Rate Summary

			Calculated Variate(A/B)								
Conc-gm/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	DMW	2	1	1	1	0	0	0.0%	0.0%	20	20
0.285		2	1	1	1	0	0	0.0%	0.0%	20	20
0.5		2	1	1	1	0	0	0.0%	0.0%	20	20
1		2	0.8	0.7	0.9	0.1	0.1414	17.68%	20.0%	16	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	1	1
0.285		1	1
0.5		1	1
1		0.9	0.7
2		0	0

Graphics



Fathead Minnow 96-h Acute Survival Test

Sierra Foothill Laboratory Inc.

Analysis ID:	02-0203-2168	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	08 Nov-11 10:47	**Analysis:**	Single 2x2 Contingency Table	**Official Results:**	Yes
Batch ID:	09-2920-8385	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	03 Nov-11 15:20	**Protocol:**	EPA/821/R-02-012 (2002)	**Diluent:**	
Ending Date:	07 Nov-11 15:35	**Species:**	Pimephales promelas	**Brine:**	
Duration:	4d 0h	**Source:**	Enviro Sciences Inc, TX	**Age:**	10d
Sample ID:	08-1671-9138	**Code:**	1011-38	**Client:**	Sierra Foothill Laboratory
Sample Date:	03 Nov-11	**Material:**	Potassium chloride	**Project:**	
Receive Date:	03 Nov-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	1	2	1.414	

Fisher Exact Test

Control	vs	Conc-gm/L	Test Stat	P-Value	Decision(0.05)
DMW		0.285	1	1.0000	Non-Significant Effect
		0.5	1	1.0000	Non-Significant Effect
		1	0.05301	0.0530	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.9 - NL	Yes	Passes Acceptibility Criteria

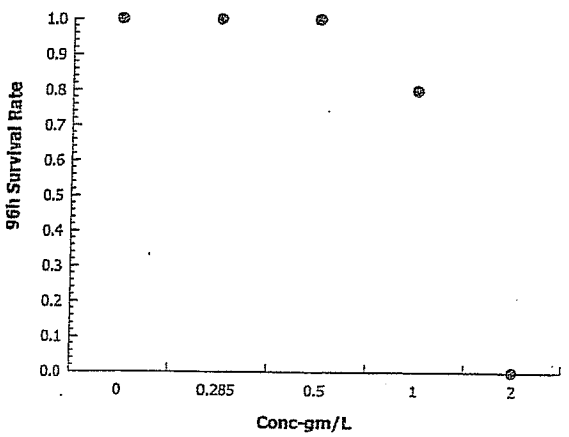
Data Summary

Conc-gm/L	Control Type	No-Resp	Resp	Total
0	DMW	20	0	20
0.285		20	0	20
0.5		20	0	20
1		16	4	20
2		0	20	20

96h Survival Rate Detail

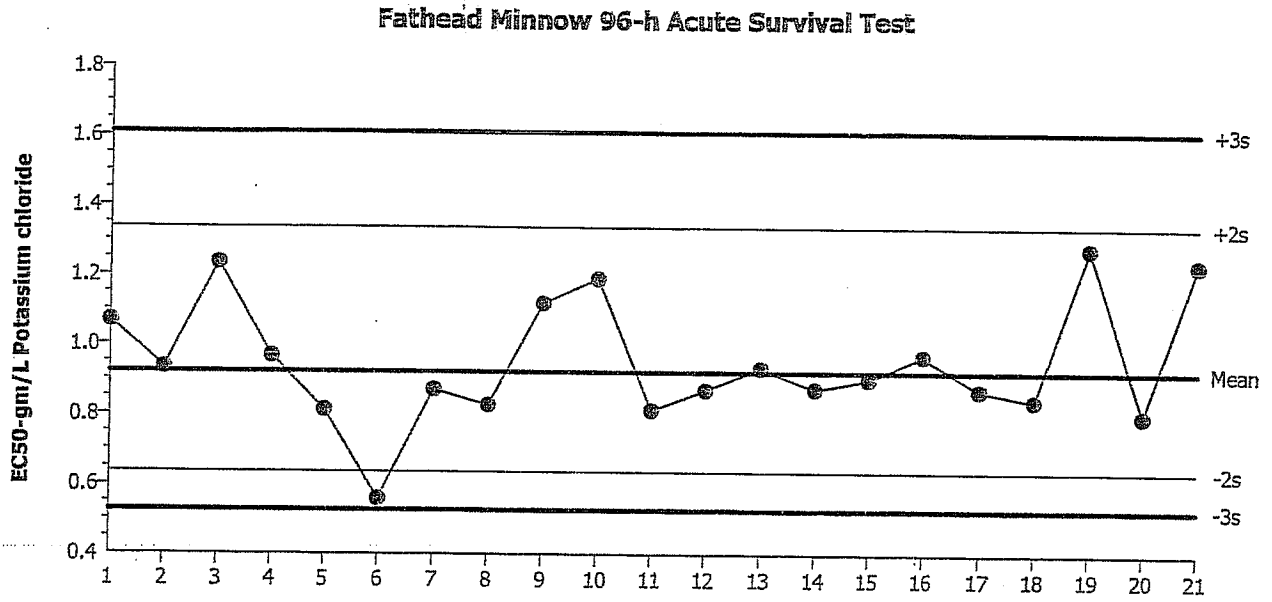
Conc-gm/L	Control Type	Rep 1	Rep 2
0	DMW	1	1
0.285		1	1
0.5		1	1
1		0.9	0.7
2		0	0

Graphics



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



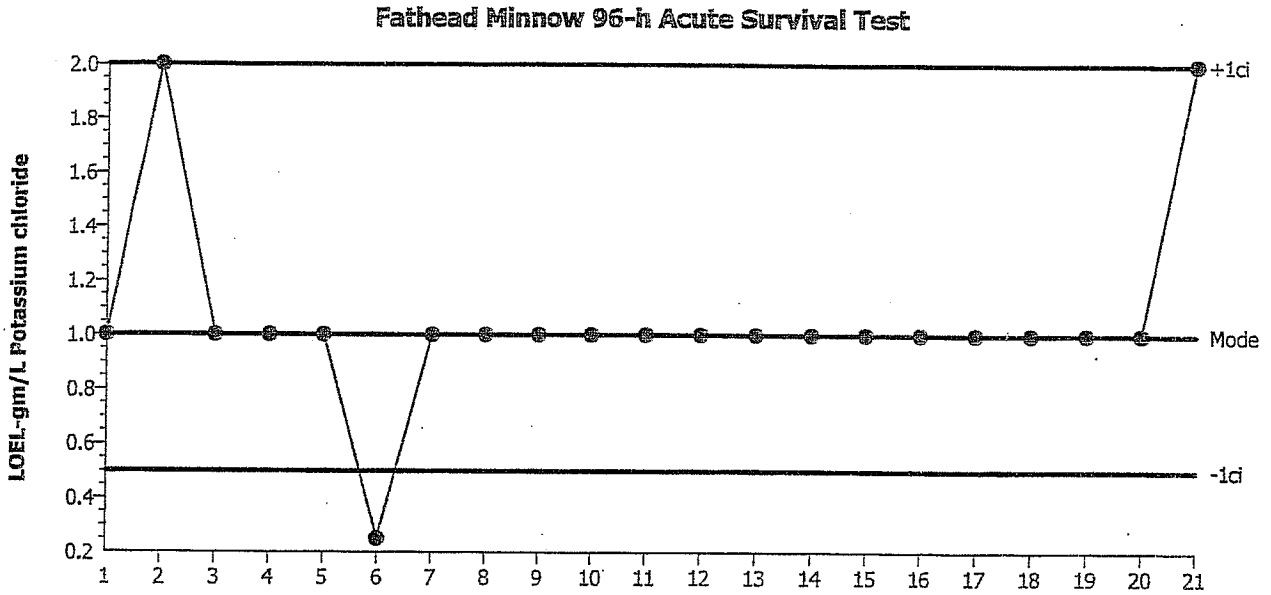
Mean:	0.9209	**Count:**	20	**-2s Warning Limit:**	0.6346	**-3s Action Limit:**	0.5268
Sigma:	N/A	**CV:**	20.50%	**+2s Warning Limit:**	1.336	**+3s Action Limit:**	1.61

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2011	May	5	1.066	0.1454	0.7872			11-3091-3534	20-6934-7500
2			10	0.933	0.01208	0.07001			20-6137-7443	14-2897-3259
3			18	1.234	0.3128	1.57			12-6961-7174	06-0019-4189
4		Jun	15	0.9659	0.04499	0.2561			12-0730-1833	14-5946-3582
5			22	0.8123	-0.1087	-0.6745			18-1456-7630	07-7482-2179
6		Jul	8	0.5578	-0.3631	-2.693	(-)		06-8630-9874	04-8748-1038
7			12	0.8706	-0.0504	-0.3023			15-1677-0590	02-8297-3214
8			20	0.8265	-0.0945	-0.5814			07-3024-4152	13-2771-3933
9			26	1.118	0.1971	1.042			16-1357-1431	14-7727-9868
10		Aug	4	1.189	0.2683	1.373			01-5259-8065	02-2413-7985
11			9	0.8123	-0.1087	-0.6745			09-4326-1853	13-7897-6149
12			17	0.8706	-0.0504	-0.3023			15-5253-5961	02-3817-2441
13		Sep	1	0.933	0.01208	0.07001			08-1396-7018	04-5542-3379
14			7	0.8736	-0.04733	-0.2833			02-8725-3382	19-9271-7092
15			13	0.9013	-0.0197	-0.1161			12-6799-9969	16-3444-0675
16			21	0.9685	0.04752	0.2702			10-7231-3686	16-0943-5812
17		Oct	6	0.8706	-0.0504	-0.3023			11-8176-0889	10-5874-8811
18			11	0.8409	-0.08005	-0.4884			07-5895-8255	01-9363-5684
19			19	1.277	0.356	1.755			06-2667-1165	03-4324-4669
20			25	0.797	-0.1239	-0.7761			12-3747-5596	01-6986-7864
21		Nov	3	1.231	0.3102	1.559			16-1429-0405	00-5482-4545

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: 1 **Count:** 20 **-1ci Action Limit:** 0.5
Dil Fact: 0.5 **+1ci Action Limit:** 2

Quality Control Data

Point	Year	Month	Day	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID
1	2011	May	10	1	0				20-6137-7443	09-7249-2003
2			18	2	1				12-6961-7174	10-6070-1201
3		Jun	2	1	0				21-4067-6835	15-6468-1871
4			15	1	0				12-0730-1833	08-0814-2808
5			22	1	0				18-1456-7630	01-4648-4358
6		Jul	8	0.25	-0.75			(-)	06-8630-9874	13-2826-8855
7			12	1	0				15-1677-0590	01-9307-8648
8			20	1	0				07-3024-4152	06-7443-7224
9			26	1	0				16-1357-1431	19-1940-6355
10		Aug	4	1	0				01-5259-8065	17-6299-7604
11			9	1	0				09-4326-1853	13-3121-6469
12			17	1	0				15-5253-5961	01-6085-5310
13		Sep	1	1	0				08-1396-7018	08-2055-9664
14			7	1	0				02-8725-3382	16-6592-1654
15			13	1	0				12-6799-9969	12-2446-9233
16			21	1	0				10-7231-3686	19-7363-7472
17		Oct	6	1	0				11-8176-0889	00-9155-7223
18			11	1	0				07-5895-8255	11-9480-7811
19			19	1	0				06-2667-1165	10-5867-7029
20			25	1	0				12-3747-5596	12-0360-4815
21		Nov	3	2	1				16-1429-0405	02-0203-2168

Sample Site	Time	Date	Temperature °C	°F	Conductivity	pH	Dissolved -O2 mg/L	Residual Chlorine PPM	Remarks: Conditions, outside tests, Storm water observations
E	7:20	10/4/11							
Well #4	9:05		20.8		27.4				Coliforms inorganic chem, NO_3, NO_2, Perchlorate
Storm water #1	11:45 pm	10/4/11							Light evening rain started ~10:40 at SW return ~11:30pm
E	7:45	10/6/11	—		—	—	—	—	Acute Toxicity Sample
R1	3:55	10/7/11	14.0	57.2	57.35	7.77	10.25	0.00	SW Flowing - Rain Flow: ~~2.34~~ 0.97 Down: 21" = 4049 Temp calibration of meter after battery Δ
E	4:10		21.7	71.1	245.9	7.23	8.77	0.00	
R2	4:20		14.7	58.5	68.87	7.94	10.60	0.00	SW Flowing intermittant
R1	3:40	10/14/11	15.1	59.2	60.44	7.47	9.22	0.00	Flow: 0.94 Down 23" = 3782
Eff-001	3:55		24.3	75.7	244.9	7.89	8.73	0.00	Clear
R2	4:20		16.0	60.8	69.76	7.85	8.61	0.00	SW - No Flow
Eff-001	3:25	10/18/11	25.1	77.2	End of OID Irrigation 245.5	7.75	season 8.29	0.00	Canal empty NPDES recission LT NPDES effective
E	2:00 3:20	10/20/11				8.29		0.00	Clear SW - No Flow Canal Empty
E	11:05	10/21/11				8.06		0.00	1 minute 0.38 Flume flow
E	9:15	10/22/11				7.09		0.00	2 minutes 0.36 Flume Flow
E	7:15	10/23/11				6.71		0.00	1 min Before Sunup No SW Flow 0.36

Sample Site	Time	Date	Temperature °C	Temperature °F	Conductivity	pH	Dissolved -O2 mg/L	Residual Chlorine PPM	Remarks: Conditions, outside tests, Storm water observations
Eff-001	11:20	10/24				7.33		0.00	Clear Flume Flow - 0.37 No storm water flow
E	1:25	10/25/11				7.02		0.00	Clear Flume Flow 0.37 No SW Flow
E	11:40	10/26/11				6.86		0.00	Clear Flume Flow - 0.38 Imin
E	3:00	10/27/11				7.10		—	Clear Flume Flow 0.36 Imin
E	11:05	10/28/11				6.78		0.00	Clear Flume Flow 0.36 Imin
E	3:40	10/29/11				6.72		0.00	Clear Flume Flow 0.36 No SW Flow
E	5:15pm	10/30/11				7.20		0.00	Clear Flume Flow 0.36 (dark)
E	4:30	10/31/11				7.08		0.00	Clear Flume Flow 0.36 SW Intermittent flow - ok
Well #3	7:25	11/1/11	18.4		276				Coliforms to LHA
Well #4	7:35		11.0		321				
Equip Wash	7:45							0.01	
Shipping	7:55							0.03	
E-001	1:45					7.20		0.00	Clear Flume Flow 0.36
E-001	2:00	11/2/11				7.16		0.00	Clear Flume Flow 0.38 SW Intermittent Flow — ok
Eff-001	7:30	11/3/11	21.7		Ammonia tested — 0 ppm	7.60		0.00	Clear Flume Flow 0.36 Acute Toxicity -- Annual

Sample Site	Time	Date	Temperature °C	°F	Conductivity	pH	Dissolved -O2 mg/L	Residual Chlorine PPM	Remarks: Conditions, outside tests, Storm water observations
E-001	11:00	11/4/11				7.50		0.00	Clear Parshall 4.8 SW-No Flow Rain in area
E	5:00	11/5/11				7.05		0.00	.48 SW-No Flow
E	10:10p	11/6/11				7.45		0.00	Clear .48
E	3:25p	11/7/11				7.20		0.01	Clear .48 SW intermittent flow
E	3:50	11/8/11				7.19		0.00	Clear 46 SW-No Flow
E	5:10p	11/9/11				7.21		0.00	Clear 0.50 SW No Flow
E	11:30a	11/10/11				7.15		0.00	Clear 0.52 SW No Flow
E	1:00	11/11/11				7.18		0.00	Clear 0.50 SW-No Flow-rain mg
E	3:45p	11/12/11				7.31		0.00	Clear 0.50 SW-No Flow
E	5:45a	11/13/11				7.10		0.00	Clear 0.52 →
E	2:10p	11/14/11				7.21		0.00	Clear 0.48 No flow-SW
E	3:20	11/15/11				7.25		0.00	Clear 0.46 Flow No Flow-SW
E	3:40	11/16/11				7.32		0.00	Clear 0.46 Flow SW-No flow
E	2:20	11/17/11				7.07		0.00	Clear 0.48 Flow SW-No flow
E-001	9:20	11/18/11				7.87		0.00	Clear 0.46 SW-No flow cloudy

Sample Site	Time	Date	Temperature °C	Temperature °F	Conductivity	pH	Dissolved -O2 mg/L	Residual Chlorine PPM	Remarks: Conditions, outside tests, Storm water observations
E-001	3:45	11/19/11				7.56		0.00	clear 0.44 flow SW-No Flow Training Eric McDonald
E	6:10	11/20/11				7.32		0.00	Clear 0.48 Training Eric McDonald Rain
E	2:35	11/21/11				7.35		0.00 Testing by Facilities	Clear 0.48 No flow-SW Training Eric McDonald 0.40
E	10:15	11/30/11			284				Clear SW-No Flow
Well #4	8:40	12/7/11	15.1		274				
E	3:55	12/9/11	19.4		277				Clear SW-No Flow
Well #3	7:50	1/4/12	16.8		278				
Beam Bldg	8:10							0.04	Water has yellow tint
Well #4	10:15				298				Little start
Conch Hall	8:20							0.01	a lot of Sediment at start
E	7:55	↓	17.0		282				Clear! SW-No flow

NPDES pH Log- with meter calibrations

Date	Time	pH Calibration			Pond effluent		Remarks	Name-Initials
		4	7	10	pH	Flow at Parshall		
11/22/11	2:40		OK		7.42	0.44		[illegible]
11/23/11	2:28		OK		7.35	0.42		WEM
11/28/11	8:17 AM		OK		7.44	0.38		WEM
11/29/11	08:30		OK		7.28	0.37		WEM
11/30/11	0800		OK		7.04	0.42		WEM
12/01/11	0806		OK		7.08	0.44		WEM
12/02/11	1345		OK		7.28	0.43		WEM
12/6/11	11:30		OK		7.47	0.45	No SW flow	OH/GG
12/7/11	09:30		OK		7.51	0.47		GG
12/8/11	0930		OK		7.36	0.48		GG
12/9/11	10:30		OK		7.27	0.48		GG
12/10/11	9:45		OK		7.03	0.47		EM
12/12/11	8:30		OK		7.32	0.48		GG
12/13/11	8:30		OK		7.12	0.48		GG
12/14/11	9:00		OK		7.02	0.48		GG
12/15/11	9:00		OK		7.11	0.47		GG
12/16/11	9:00		OK		6.92	0.48		GG
12/19/11	12:00		OK		6.87	0.44		GG
12/20/11	12:30		OK		7.61	0.40		GG

Sconza Candy Pond Testing Log sheet

printed 10/11/2011

Date & Time	Tester Initials	Pond Inlet ORP Reading mv	Pond Outlet ORP Reading mv	Bisulfite ORP On Setpoint mv	Bisulfite ORP Off Setpoint mv	Pond Inlet Sulfite 4-6 ppm	Pond Outlet Sulfite (record)	Pond Inlet Total Chlorine ppm	Pond Outlet Total Chlorine ppm	Bisulfite tank level gal. 0-300
10/17/11 8:00	GG	495	217	230	229	.0	.5	.00	.00	227
10/18/11 9:00	GG	489	219	230	229	.5	.5	.00	.00	222
10/19/11 9:00	GG	487	221	230	229	1.0	1.0	.02	.00	217
10/20/11 9:00	GG	493	223	230	229	1.0	1.5	.01	.00	212
10/21/11 10:30	GG	502	219	230	229	.5	.5	.02	.02	297
10/22/11 8:30	EM	510	218	230	229	1.5	0.5	.01	.00	292
10/24/11 8:00	GG	491	227	230	229	1.0	.5	.01	.01	277
10/25/11 8:30	GG	496	226	230	229	1.0	1.0	.00	.01	268
10/26/11 8:30	GG	509	218	230	229	1.5	1.0	.01	.01	262
10/27/11 8:30	GG	85	199	30	29	.0	.5	.01	.01	255
10/28/11 9:00	GG	112	172	30	29	2.0	1.5	.00	.01	250
10/31/11 10:00	GG	157	182	30	29	.0	.0	.02	.02	220
11/1/11 8:30	GG	165	188	30	29	1.5	.5	.01	.00	210
11/2/11 8:30	GG	197	191	30	29	1.5	1.0	.01	.01	200
11/3/11 8:30	GG	183	192	30	29	2.0	2.5	.01	.00	195
11/4/11 8:30	GG	171	194	30	29	2.0	1.5	.01	.00	187
11/7/11 14:30	GG	207	193	30	29	1.5	1.5	.02	.00	162

Sconza Candy Pond Testing Log sheet

printed 10/11/2011

Date & Time	Tester Initials	Pond Inlet ORP Reading mv	Pond Outlet ORP Reading mv	Bisulfite ORP On Setpoint mv	Bisulfite ORP Off Setpoint mv	Pond Inlet Sulfite 4-6 ppm	Pond Outlet Sulfite (record)	Pond Inlet Total Chlorine ppm	Pond Outlet Total Chlorine ppm	Bisulfite tank level gal. 0-300
11/10/11 0830	GG	217	196	30	29	1.5	1.5	.00	.00	138
11/11/11 0830	GG	244	194	30	29	2.0	1.5	.00	.01	132
11/12/11 0930	EM	206	193	30	29	2.0	1.5	.01	.00	126
11/14/11 1000	GG	255	190	30	29	2.0	.5	.00	.06	112
11/15/11 0830	GG	220	195	30	29	1.0	1.5	.00	.00	105
11/16/11 0900	GG	230	194	30	29	1.5	1.0	.00	.00	97
11/17/11 0830	GG	206	197	30	29	2.0	1.0	.00	.06	90
11/18/11 1300	GG	279	196	30	29	1.5	.5	.00	.00	287
11/19/11 0950	EM	228	207	30	30	1.0	.5	0.1	.00	283
11/21/11 0900	GG	230	204	30	29	2.0	1.0	.00	.00	267
11/22/11 0900	GG	247	204	30	29	1.5	.5	.00	.00	260
11/23/11 0900	GG	245	162	30	29	1.5	1.0	.00	.00	255
11/28/11 0830	EM	267	172	30	29	0.5	0.5	.00	.00	245
11/29/11 0830	EM	238	196	30	29	1.0	1.0	.00	.00	240
11/30/11 0800	EM	187	164	30	29	0.5	1.0	.00	.00	232
12/01/11 0815	EM	75	169	30	29	1.0	0.5	.01	.00	227
12/02/11 1345	EM	160	171	30	29	2.5	3.5	.01	.01	220
12/06/11 1030	GG	212	150	30	29	0	0.5	.01	.01	193
12/7/11 0930	GG	200	151	30	29	.5	.5	.00	.00	187

Sconza Candy Pond Testing Log sheet

printed 10/11/2011

Date & Time	Tester Initials	Pond Inlet ORP Reading mv	Pond Outlet ORP Reading mv	Bisulfite ORP On Setpoint mv	Bisulfite ORP Off Setpoint mv	Pond Inlet Sulfite 4-6 ppm	Pond Outlet Sulfite (record)	Pond Inlet Total Chlorine ppm	Pond Outlet Total Chlorine ppm	Bisulfite tank level gal. 0-300
12/8/11 9:00	GG	194	157	30	29	.5	.5	.00	.00	180
12/9/11 10:00	GG	220	156	30	29	0	.5	.02	.01	175
12/10/11 9:45	EM	217	156	30	29	1.0	.5	.00	.00	170
12/12/11 8:00	GG	185	165	30	29	1.0	1.5	.00	.01	160
12/13/11 8:00	GG	195	172	30	29	2.0	1.0	.00	.01	155
12/14/11 9:30	GG	173	177	30	29	1.0	.5	.00	.00	147
12/15/11 9:30	GG	210	184	30	29	1.0	.5	.00	.00	142
12/16/11 9:00	GG	194	191	30	29	.5	.5	.00	.00	135
12/19/11 11:00	GG	165	154	30	29	.5	.5	.00	.00	125
12/20/11 12:00	GG	195	189	30	29	1.0	.5	.00	.00	117