



Calscience



WORK ORDER NUMBER: 14-07-0031

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Analytical Report For

Client: San Joaquin County District Attorney

Client Project Name: Bioassay Testing

Attention: Heidi D'Agostino
222 East Weber
Stockton, CA 95202-2709

Approved for release on 07/29/2014 by:
Danielle Gonsman
Project Manager

ResultLink ▶

Email your PM ▶



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Work Order Number: 14-07-0031

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Work Order Narrative

Work Order: 14-07-0031

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/01/14. They were assigned to Work Order 14-07-0031.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

Sample Summary

Client: San Joaquin County District Attorney	Work Order:	14-07-0031
222 East Weber	Project Name:	Bioassay Testing
Stockton, CA 95202-2709	PO Number:	
	Date/Time Received:	07/01/14 13:30
	Number of Containers:	42

Attn: Heidi D'Agostino

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
92A	14-07-0031-1	06/20/14 11:00	1	Solid
93A	14-07-0031-2	06/20/14 11:00	1	Aqueous
94A	14-07-0031-3	06/20/14 11:00	1	Solid
95A	14-07-0031-4	06/20/14 11:00	1	Aqueous
96A	14-07-0031-5	06/20/14 11:00	1	Solid
97A	14-07-0031-6	06/20/14 11:00	1	Aqueous
98A	14-07-0031-7	06/20/14 11:00	1	Aqueous
99A	14-07-0031-8	06/20/14 11:00	1	Aqueous
100A	14-07-0031-9	06/20/14 11:00	1	Solid
101A	14-07-0031-10	06/20/14 11:00	1	Aqueous
102A	14-07-0031-11	06/20/14 11:00	1	Solid
103A	14-07-0031-12	06/20/14 11:00	1	Aqueous
104A	14-07-0031-13	06/20/14 11:00	1	Aqueous
105A	14-07-0031-14	06/20/14 11:00	1	Aqueous
106A	14-07-0031-15	06/20/14 11:00	1	Aqueous
107A	14-07-0031-16	06/20/14 11:00	1	Aqueous
108A	14-07-0031-17	06/20/14 11:00	1	Aqueous
109A	14-07-0031-18	06/20/14 11:00	1	Aqueous
110A	14-07-0031-19	06/20/14 11:00	1	Solid
111A	14-07-0031-20	06/20/14 11:00	1	Solid
112A	14-07-0031-21	06/20/14 11:00	1	Aqueous
113A	14-07-0031-22	06/20/14 11:00	1	Aqueous
114A	14-07-0031-23	06/20/14 11:00	1	Aqueous
115A	14-07-0031-24	06/20/14 11:00	1	Solid
116A	14-07-0031-25	06/20/14 11:00	1	Solid
117A	14-07-0031-26	06/20/14 11:00	1	Aqueous
118A	14-07-0031-27	06/20/14 11:00	1	Aqueous
119A	14-07-0031-28	06/20/14 11:00	1	Solid
120A	14-07-0031-29	06/20/14 11:00	1	Solid
121A	14-07-0031-30	06/20/14 11:00	1	Solid
122A	14-07-0031-31	06/20/14 11:00	1	Solid
123A	14-07-0031-32	06/20/14 11:00	1	Solid
124A	14-07-0031-33	06/20/14 11:00	1	Aqueous
125A	14-07-0031-34	06/20/14 11:00	1	Aqueous
126A	14-07-0031-35	06/20/14 11:00	1	Aqueous
127A	14-07-0031-36	06/20/14 11:00	1	Aqueous
128A	14-07-0031-37	06/20/14 11:00	1	Aqueous
129A	14-07-0031-38	06/20/14 11:00	1	Solid
130A	14-07-0031-39	06/20/14 11:00	1	Solid
131A	14-07-0031-40	06/20/14 11:00	1	Solid
132A	14-07-0031-41	06/20/14 11:00	1	Aqueous
133A	14-07-0031-42	06/20/14 11:00	1	Solid



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Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/05/14 16:00:00	Test End:	07/09/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.78 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.17 mg/L	Alkalinity:	194 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
92A	14-07-0031-1	06/20/14	Solid	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	5	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L): 22.50
 Upper 95% confidence limit: 23.80
 Lower 95% confidence limit: 21.10

SRT: Standard Reference Toxicant.

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Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/05/14 16:00:00	Test End:	07/09/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.79 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.16 mg/L	Alkalinity:	194 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
94A	14-07-0031-3	06/20/14	Solid	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/05/14 16:00:00	Test End:	07/09/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.8 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.23 mg/L	Alkalinity:	194 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
96A	14-07-0031-5	06/20/14	Solid	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/05/14 16:00:00	Test End:	07/09/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.78 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.19 mg/L	Alkalinity:	194 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
100A	14-07-0031-9	06/20/14	Solid	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/05/14 16:00:00	Test End:	07/09/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.76 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.17 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
102A	14-07-0031-11	06/20/14	Solid	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	10	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L): 22.50
 Upper 95% confidence limit: 23.80
 Lower 95% confidence limit: 21.10

SRT: Standard Reference Toxicant.



Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.84 units	Conductivity:	920 umhos/cm
Dissolved Oxygen (D.O.):	7.17 mg/L	Alkalinity:	202 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
110A	14-07-0031-19	06/20/14	Solid	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.82 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.1 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
111A	14-07-0031-20	06/20/14	Solid	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.



Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.82 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.15 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
115A	14-07-0031-24	06/20/14	Solid	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.



Analytical Report

San Joaquin County District Attorney
222 East Weber
Stockton, CA 95202-2709

Date Received: 07/01/14
Work Order: 14-07-0031
Preparation: N/A
Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.82 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.11 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
116A	14-07-0031-25	06/20/14	Solid	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney	Date Received:	07/01/14
222 East Weber	Work Order:	14-07-0031
Stockton, CA 95202-2709	Preparation:	N/A
Project: Bioassay Testing	Method:	CA Fish and Game
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Test Species:	Fathead Minnow (Pimephales Promelas)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.82 units	Conductivity:	920 umhos/cm
Dissolved Oxygen (D.O.):	7.21 mg/L	Alkalinity:	200 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
119A	14-07-0031-28	06/20/14	Solid	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.9 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.24 mg/L	Alkalinity:	200 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
120A	14-07-0031-29	06/20/14	Solid	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	75	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

All testing was within method protocol.

Sample was received within recommended holding time.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
222 East Weber
Stockton, CA 95202-2709

Date Received: 07/01/14
Work Order: 14-07-0031
Preparation: N/A
Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.79 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.16 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
121A	14-07-0031-30	06/20/14	Solid	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
222 East Weber
Stockton, CA 95202-2709

Date Received: 07/01/14
Work Order: 14-07-0031
Preparation: N/A
Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.84 units	Conductivity:	940 umhos/cm
Dissolved Oxygen (D.O.):	7.2 mg/L	Alkalinity:	206 mg/L
Hardness:	44 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
122A	14-07-0031-31	06/20/14	Solid	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
222 East Weber
Stockton, CA 95202-2709

Date Received: 07/01/14
Work Order: 14-07-0031
Preparation: N/A
Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.79 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.17 mg/L	Alkalinity:	198 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
123A	14-07-0031-32	06/20/14	Solid	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.78 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.16 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
129A	14-07-0031-38	06/20/14	Solid	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/20/14 13:00:00	Test End:	07/24/14 13:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	8.01 units	Conductivity:	920 umhos/cm
Dissolved Oxygen (D.O.):	7.1 mg/L	Alkalinity:	208 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
130A	14-07-0031-39	06/20/14	Solid	07/20/14	07/24/14 13:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	100	%
Bioassay 250 mg/L (% Mortality)	100	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney 222 East Weber Stockton, CA 95202-2709	Date Received: 07/01/14 Work Order: 14-07-0031 Preparation: N/A Method: CA Fish and Game
Project: Bioassay Testing	Page 17 of 18

Test Species: Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length: 42 mm	Mean Weight: 0.45 g
Sample Collected: 06/20/14 11:00:00	Sample Received: 07/01/14 13:30:00	
Test Start: 07/20/14 13:00:00	Test End: 07/24/14 13:00:00	

Initial Water Quality Parameters	
Residual Chlorine: < 0.01 mg/L	Temperature: 20 °C
pH: 7.9 units	Conductivity: 930 umhos/cm
Dissolved Oxygen (D.O.): 7.12 mg/L	Alkalinity: 210 mg/L
Hardness: 42 mg/L	Ammonia: N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
131A	14-07-0031-40	06/20/14	Solid	07/20/14	07/24/14 13:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	100	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/20/14 13:00:00	Test End:	07/24/14 13:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.95 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.1 mg/L	Alkalinity:	204 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
133A	14-07-0031-42	06/20/14	Solid	07/20/14	07/24/14 13:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L): 22.50
 Upper 95% confidence limit: 23.80
 Lower 95% confidence limit: 21.10

SRT: Standard Reference Toxicant.



Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game
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Project: Bioassay Testing

Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/05/14 16:00:00	Test End:	07/09/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.78 units	Conductivity:	920 umhos/cm
Dissolved Oxygen (D.O.):	7.2 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
93A	14-07-0031-2	06/20/14	Aqueous	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
222 East Weber
Stockton, CA 95202-2709

Date Received: 07/01/14
Work Order: 14-07-0031
Preparation: N/A
Method: CA Fish and Game

Project: Bioassay Testing

Page 2 of 24

Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/05/14 16:00:00	Test End:	07/09/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.77 units	Conductivity:	920 umhos/cm
Dissolved Oxygen (D.O.):	7.19 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
95A	14-07-0031-4	06/20/14	Aqueous	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney 222 East Weber Stockton, CA 95202-2709	Date Received: 07/01/14 Work Order: 14-07-0031 Preparation: N/A Method: CA Fish and Game
Project: Bioassay Testing	Page 3 of 24

Test Species: Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length: 42 mm	Mean Weight: 0.45 g
Sample Collected: 06/20/14 11:00:00	Sample Received: 07/01/14 13:30:00	
Test Start: 07/05/14 16:00:00	Test End: 07/09/14 16:00:00	

Initial Water Quality Parameters			
Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.77 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.17 mg/L	Alkalinity:	194 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
97A	14-07-0031-6	06/20/14	Aqueous	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/05/14 16:00:00	Test End:	07/09/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.8 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.17 mg/L	Alkalinity:	194 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
98A	14-07-0031-7	06/20/14	Aqueous	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/05/14 16:00:00	Test End:	07/09/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.77 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.16 mg/L	Alkalinity:	194 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
99A	14-07-0031-8	06/20/14	Aqueous	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
222 East Weber
Stockton, CA 95202-2709

Date Received: 07/01/14
Work Order: 14-07-0031
Preparation: N/A
Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/05/14 16:00:00	Test End:	07/09/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.78 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.16 mg/L	Alkalinity:	194 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
101A	14-07-0031-10	06/20/14	Aqueous	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.



Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/05/14 16:00:00	Test End:	07/09/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.78 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.2 mg/L	Alkalinity:	194 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
103A	14-07-0031-12	06/20/14	Aqueous	07/05/14	07/09/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L): 22.50
 Upper 95% confidence limit: 23.80
 Lower 95% confidence limit: 21.10

SRT: Standard Reference Toxicant.



Analytical Report

San Joaquin County District Attorney
222 East Weber
Stockton, CA 95202-2709

Date Received: 07/01/14
Work Order: 14-07-0031
Preparation: N/A
Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.82 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.13 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
104A	14-07-0031-13	06/20/14	Aqueous	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	100	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.84 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.15 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
105A	14-07-0031-14	06/20/14	Aqueous	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.



Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (Pimephales Promelas)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.82 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.11 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
106A	14-07-0031-15	06/20/14	Aqueous	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	10	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.





Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.83 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.14 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
107A	14-07-0031-16	06/20/14	Aqueous	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L): 24.00
 Upper 95% confidence limit: 25.50
 Lower 95% confidence limit: 22.40

SRT: Standard Reference Toxicant.



Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game
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Project: Bioassay Testing

Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.8 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.12 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
108A	14-07-0031-17	06/20/14	Aqueous	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.83 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.1 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
109A	14-07-0031-18	06/20/14	Aqueous	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game
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Project: Bioassay Testing

Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.83 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.08 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
112A	14-07-0031-21	06/20/14	Aqueous	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney 222 East Weber Stockton, CA 95202-2709	Date Received: 07/01/14 Work Order: 14-07-0031 Preparation: N/A Method: CA Fish and Game
Project: Bioassay Testing	Page 15 of 24

Test Species: Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length: 43 mm	Mean Weight: 0.47 g
Sample Collected: 06/20/14 11:00:00	Sample Received: 07/01/14 13:30:00	
Test Start: 07/11/14 17:00:00	Test End: 07/15/14 17:00:00	

Initial Water Quality Parameters			
Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.89 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.14 mg/L	Alkalinity:	198 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
113A	14-07-0031-22	06/20/14	Aqueous	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.81 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.15 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
114A	14-07-0031-23	06/20/14	Aqueous	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game
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Project: Bioassay Testing

Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.47 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/11/14 17:00:00	Test End:	07/15/14 17:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.81 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.13 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
117A	14-07-0031-26	06/20/14	Aqueous	07/11/14	07/15/14 17:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample received after recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.00
Upper 95% confidence limit:	25.50
Lower 95% confidence limit:	22.40

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.8 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.18 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
118A	14-07-0031-27	06/20/14	Aqueous	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.81 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.22 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
124A	14-07-0031-33	06/20/14	Aqueous	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
222 East Weber
Stockton, CA 95202-2709

Date Received: 07/01/14
Work Order: 14-07-0031
Preparation: N/A
Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.89 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.17 mg/L	Alkalinity:	200 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
125A	14-07-0031-34	06/20/14	Aqueous	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game
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Project: Bioassay Testing

Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.83 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.16 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
126A	14-07-0031-35	06/20/14	Aqueous	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game
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Project: Bioassay Testing

Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.85 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.2 mg/L	Alkalinity:	200 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
127A	14-07-0031-36	06/20/14	Aqueous	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	100	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game

Project: Bioassay Testing

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Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	43 mm	Mean Weight:	0.46 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/16/14 16:00:00	Test End:	07/20/14 16:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	19.8 °C
pH:	7.8 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.22 mg/L	Alkalinity:	196 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
128A	14-07-0031-37	06/20/14	Aqueous	07/16/14	07/20/14 16:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	24.20
Upper 95% confidence limit:	25.70
Lower 95% confidence limit:	22.80

SRT: Standard Reference Toxicant.

Analytical Report

San Joaquin County District Attorney
 222 East Weber
 Stockton, CA 95202-2709

Date Received: 07/01/14
 Work Order: 14-07-0031
 Preparation: N/A
 Method: CA Fish and Game
 Page 24 of 24

Project: Bioassay Testing

Test Species:	Fathead Minnow (<i>Pimephales Promelas</i>)	Mean Length:	42 mm	Mean Weight:	0.45 g
Sample Collected:	06/20/14 11:00:00	Sample Received:	07/01/14 13:30:00		
Test Start:	07/20/14 13:00:00	Test End:	07/24/14 13:00:00		

Initial Water Quality Parameters

Residual Chlorine:	< 0.01 mg/L	Temperature:	20 °C
pH:	7.82 units	Conductivity:	910 umhos/cm
Dissolved Oxygen (D.O.):	7.15 mg/L	Alkalinity:	198 mg/L
Hardness:	42 mg/L	Ammonia:	N/A

Sample Preparation

The sample was adjusted to test temperature.

Sample Adjustment During Analysis

No Supplemental aeration needed.

If needed, supplemental aeration to maintain required Dissolved Oxygen level is supplied via a low pressure oil-free pump connected to individual lines for each tank/chamber from a common manifold. Individual valves at each tank/chamber control the flow rate as required.

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date/Time Analyzed	QC Batch ID
132A	14-07-0031-41	06/20/14	Aqueous	07/20/14	07/24/14 13:00:00	

Parameter	Result	Units
Bioassay 750 mg/L (% Mortality)	ND	%
Bioassay 250 mg/L (% Mortality)	ND	%

Laboratory Notes

Sample was received within recommended holding time.

All testing was within method protocol.

LC 50 Results

SRT sample (mg/L):	22.50
Upper 95% confidence limit:	23.80
Lower 95% confidence limit:	21.10

SRT: Standard Reference Toxicant.

<u>Qualifiers</u>	<u>Definition</u>
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



**OFFICE OF THE DISTRICT ATTORNEY
SAN JOAQUIN COUNTY**

222 E. Weber Avenue, Suite 678, Stockton, CA 95202
P.O. Box 990, Stockton, California 95201
Telephone: (209) 468-2400 Fax: (209) 468-0314

14-07-0031

Please send results to:

Name: Investigator Heidi D'Agostino
Email: heidi.dagostino@yolocounty.org
Fax: 530-666-8423

Testing Facility

Facility name: Calscience Environmental Laboratories, Inc.
Facility address: 7440 Lincoln Way
Garden Grove, CA 92841-1427
Facility contact: Danielle Gonsman, Project Manager

CHAIN OF CUSTODY RECORD

L1 Sample Number	Description	Manufacturer	UPC	Quantity	Main ingredient / Or Usage / NOTES	Date sampled	Time sampled	Sample container description					Required analysis	
								Method of sampling: Composite (C) Grab (G)	Size of sample container (include units)	Type of sample container: Glass (G) Plastic (P) Metal tube (MT) VOA (V)	Evidence tape: Yes (Y) No (N)	Transported in iced cooler: Yes (Y) No (N)	96-hour fish bioassay	
1 92A	Calcium + Vitamin D3	CVS/pharmacy Inc.	050428613658	80 caplets	solid	6/20/2014	11:00am	n/a	200g (min)	P in C	N	N	X	
2 93A	Biotene Dry Mouth Oral Rinse	GlaxoSmithKline	048582003309	16 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
3 94A	Nighttime Cleansing Towelettes	CVS/pharmacy Inc.	050428898574	2pkgs of 30 towelettes	solid NOTE***** Remove packaging for testing	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
4 95A	Joint JuiceEasy Shot	Joint Juice, Inc.	680214054480	20fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
5 96A	Glucosamine HCL MSM Joint Health	CVS/pharmacy Inc.	050428806487	150 caplets	solid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
6 97A	Fructis Triple Nutrition Miracle Dry Oil	Garnier	603084253067	5 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
7 98A	Oil-free moisture combination skin	Neutrogena	070501062401	4 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P in C	N	N	X	
8 99A	Hair Polisher Heat Protector Straightening Serum	Fantasia Industries	011313030158	6 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
9 100A	Eucerin Original Healing Soothing Repair Crème	Beiersdorf Inc	072140000226	4 oz	solid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
10 101A	Eye makeup remover oil-free	CVS/pharmacy Inc.	050428096673	4 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
11 102A	Digestive Advantage Kids	Reckitt Benckiser	020525901248	60 gummies	solid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
12 103A	Baby Bee Nourishing Oil	Burt's Bees Inc	792850712997	4 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
13 104A	Scope Outlast	Procter & Gamble	037000227472	25.4 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
14 105A	Extenze Maximum Strength	Global Product Managem	846345000714	4.8 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P in C	N	N	X	
15 106A	B-12 10,000% Energy shot	NVE Pharmaceuticals	878114005187	2 * 2 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
16 107A	Durex massage & play	Reckitt Benckiser	302340876391	6.76 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
17 108A	Aftersun Aloe Vera	CVS/pharmacy Inc.	050428071816	6 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
18 109A	Hello seriously friendly mouthwash	Hello products LLC	854296004040	16 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
19 110A	Viactiv Calcium plus D	Viactiv Lifestyle LLC	857141004981	115 chews	solid NOTE***** Remove packaging for testing	6/20/2014	11:00am	n/a	200g (min)	C	N	N	X	
20 111A	Ultimate CHIAlife	ReNew Life formulas	631257654014	454g	solid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	

NOTE: All samples were taken at 1868 E. Hazelton Ave, Stockton CA 95205

Relinquished by:	Name	Title	Date	Time	Remarks
Relinquished by:	Heidi D'Agostino	YCOA	07/01/2014	1330	PACKAGING ORIGINAL
Received by:	Danugle	ELC	7/01/2014	13:30	
Relinquished by:					
Received by:					
Relinquished by:					
Received by:					



**OFFICE OF THE DISTRICT ATTORNEY
SAN JOAQUIN COUNTY**

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Please send results to:

Name: Investigator Heidi D'Agostino
Email: heidi.dagostino@yolocounty.org
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0031

Testing Facility
Facility name: Calscience Environmental Laboratories, Inc.
Facility address: 7440 Lincoln Way
Garden Grove, CA 92841-1427
Facility contact: Danielle Gonsman, Project Manager

CHAIN OF CUSTODY RECORD

L1 Sample Number	Description	Manufacturer	UPC	Quantity	Main Ingredient / Or Usage / NOTES	Date sampled	Time sampled	Sample container description						Required analysis
								Method of sampling: Composite (C) Grab (G)	Size of sample container (include units)	Type of sample container: Glass (G) Plastic (P) Metal tube (MT) VOA (V)	Evidence tape: Yes (Y) No (N)	Transported in iced cooler: Yes (Y) No (N)	96-hour fish bioassay	
21 112A	Johnsons baby oil	Johnson & Johnson Consu	381370033141	14 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
22 113A	KY Ultragel	McNEIL-PPG, Inc.	380040087378	4.5 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P in C	N	N	X	
23 114A	Airbrush Legs	Sally Hansen	074170398373	4 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
24 115A	Out of Bed Texterizer	L'OREAL	071249119259	4 oz	solid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
25 116A	Udderly Smooth Body Cream	Redex Industries	731064602519	12 oz	solid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
26 117A	Thicker Fuller Hair	Newall Laboratories, Inc	819933010204	5 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
27 118A	buld-a-tan	Neutrogena Corporation	086800871525	6.7 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
28 119A	honey & shea Body Butter	Burt's Bees, Inc	792850012011	6.5 oz	solid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
29 120A	Dentucreme	GlaxoSmithKline	310158092063	2 * 3.9 oz	solid	6/20/2014	11:00am	n/a	200g (min)	P in C	N	N	X	
30 121A	Benefiber	Novartis	886790013624	8.3 oz	solid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
31 122A	Multi-Vitamin Gummies	NatureSmart, LLC	759427167802	180 pieces	solid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
32 123A	Assorted Citrus Vitamin C	CVS/pharmacy	050428847503	30 dropg	solid *****NOTE remove packaging to test	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
33 124A	Pantene Classic Care Daily Conditioner	Procter & Gamble	080878008995	12.6 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
34 125A	Herbal Essences naked moisture conditioner hydr	Procter & Gamble	381519181771	10.1 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
35 126A	renewing argan oil of morocco	Vogue International	022796916143	2 * 3.3 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P in C	N	N	X	
36 127A	Alberto VOS moisture milks Strawberries & cream	High Ridge Brands Co.,	0816559013039	12.5 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
37 128A	SCD Essential Probiotics	SCD Probiotics	184368000213	16.3 fl oz	liquid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
38 129A	Vaseline rich conditioning petroleum jelly cocoa b	Unilever	305210069275	7.5 oz	solid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	
39 130A	SOS Steel wool soap pads	Clorox Company	016500980322	1 BOX (10 pads)	solid *****NOTE remove packaging to test	6/20/2014	11:00am	n/a	200g (min)	C	N	N	X	
40 131A	Whey Protein Elite Series (Chocolate)	MuscleTech	631656701869	2.00 lbs	solid	6/20/2014	11:00am	n/a	200g (min)	P	N	N	X	

NOTE: All Samples were taken at 1868 E. Hazelton Ave, Stockton CA 95205

Relinquished by:	<u>Heidi D'Agostino</u>	<u>VCDA</u>	<u>07/01/2014</u>	<u>13:30</u>	<u>New in PACKAGE</u>
Received by:	<u>Danielle ECI</u>		<u>7/01/2014</u>	<u>13:30</u>	
Relinquished by:	_____				
Received by:	_____				
Relinquished by:	_____				
Received by:	_____				

SAMPLE RECEIPT FORM

Cooler 0 of 0

CLIENT: Office of the District Attorney
Yolo County

DATE: 07/01/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)

Temperature 20.7 °C - 0.3°C (CF) = 20.4 °C Blank Sample

Sample(s) outside temperature criteria (PM/APM contacted by: 659)

Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: Air Filter

Checked by: 659

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A

Sample _____ No (Not Intact) Not Present

Checked by: 659

Checked by: 659

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® PB

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBzanna 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister Other: PB Trip Blank Lot#: _____ Labeled/Checked by: 659

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 301

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure zanna: ZnAc₂+NaOH f: Filtered Scanned by: 300

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