LABORATORY REPORT

Aquatic Testing Laboratories

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756
CA ELAP Cert. No.: 1775

Date: March 13, 2016

Client: Yolo County District Attorney
301 Second Street
Woodland, CA 95695
Attn: Heidi D'Agostino

Laboratory No.: A-16022502-017/018

Sample Control: The samples were received by ATL in new and unopened packaging, with the chain of custody record attached.

Date Sampled:	02/23/16, 03/03/16 (additional sample)
Date Received:	02/25/16, 03/07/16 (additional sample)
Date Tested:	03/08/16 to 03/12/16

Sample Analysis: The following analyses were performed on your sample:

CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay (Polisini & Miller 1988).

Attached are the test data generated from the analysis of your sample. All testing was conducted under the direct supervision of Joseph A. LeMay.

Result Summary:

Sample ID.	Results
379A – Frebreze Vent Clip Fresh Citrus	FAIL (LC50 < 400 mg/l)
380A – Frebreze Vent Clip Midnight Storm	FAIL (LC50 < 400 mg/l)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of the Laboratory's name for advertising or publicity purpose without authorization is prohibited.

FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

Lab No.: A16022502-017

Client/ID: Yolo co. 379A Febreze vent clip fresh citrus

TEST SUMMARY

Species: ***Pimephales promelas***.
Fish weight (gm): av: 0.50 ; min: 0.45 ; max: 0.55.
Reference Toxicant: SDS conducted per batch.
Test chamber volume: 10 liters.
Temperature: 20 +/- 2°C.
Aeration: none, unless D.O. drops below 5.0 mg/l.
Number of replicates: 2.
Dilution water: Soft reconstituted water (40-48 mg/l $CaCO_3$).

Source: Thomas Fish.
Regulations: CCR Title 22.
Test Protocol: California F&G/DHS 1988.
Endpoints: Survival at 96 hrs.
Test type: Static.
Feeding: None.
Number of fish per chamber: 10.
Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL			24 Hr				48 Hr				72 Hr				96 Hr			
Date/Time:	3-8-16 1100			3-9-16 1030				3-10-16 1030				3-11-16 1100				3-12-16 1100			
Analyst:	Z			Z				Z				Z				Z			
	°C	DO	pH	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Control A	20.0	8.6	8.0	20.0	8.5	8.1	0	20.4	8.5	7.8	0	20.4	8.4	7.8	0	20.2	8.6	8.0	0
Control B	20.0	8.6	8.0	20.2	8.4	7.9	0	20.5	8.4	7.8	0	20.4	8.5	7.9	0	20.2	8.5	8.0	0
400 mg/l A	20.0	8.6	8.0*	20.2	8.4	7.8	10	–	–	–	–	–	–	–	–	–	–	–	–
400 mg/l B	20.0	8.6	7.9*	20.2	8.4	7.8	10	–	–	–	–	–	–	–	–	–	–	–	–
750 mg/l A	20.0	8.5	7.9*	20.2	8.1	7.7	10	–	–	–	–	–	–	–	–	–	–	–	–
750 mg/l B	20.0	8.6	7.8*	20.2	8.0	7.7	10	–	–	–	–	–	–	–	–	–	–	–	–

Comments: Extraction method: Mechanical shaking ✓. * Fish under stress
None (aqueous solution) NA.
Dissolved Oxygen (DO) readings in mg/l O_2. Test Aerated: (Yes) / No

	CONTROL		HIGH CONCENTRATION	
	Alkalinity	Hardness	Alkalinity	Hardness
Initial	31 mg/l $CaCO_3$	45 mg/l $CaCO_3$	28 mg/l $CaCO_3$	48 mg/l $CaCO_3$
Final	32 mg/l $CaCO_3$	46 mg/l $CaCO_3$	– mg/l $CaCO_3$	– mg/l $CaCO_3$

Total Number Dead	
Control	0 /20
400 mg/l	20 /20
750 mg/l	20 /20

RESULTS

(the checked (√) result applies based on fish survival rates of this test; NA - not applicable)

NA	**PASSED**	**LC50 > 750 mg/l** (<40% dead in 750 mg/l conc.)
NA	**FAILED**	**≥40% dead in 750 mg/l** (close to passing - definitive test recommended)
✓	**FAILED**	**LC50 < 400 mg/l** (>60% dead in 400 mg/l conc.)

FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

Lab No.: A16022502-018

Client/ID: Yolo co. 380A Febreze vent clip midnight storm

TEST SUMMARY

Species: ***Pimephales promelas***.
Fish weight (gm): av: 0.50 ; min: 0.45 ; max: 0.55 .
Reference Toxicant: SDS conducted per batch.
Test chamber volume: 10 liters.
Temperature: 20 +/- 2°C.
Aeration: none, unless D.O. drops below 5.0 mg/l.
Number of replicates: 2.
Dilution water: Soft reconstituted water (40-48 mg/l $CaCO_3$).

Source: Thomas Fish.
Regulations: CCR Title 22.
Test Protocol: California F&G/DHS 1988.
Endpoints: Survival at 96 hrs.
Test type: Static.
Feeding: None.
Number of fish per chamber: 10.
Photoperiod: 16/8 hrs light/dark.

TEST DATA

	INITIAL			24 Hr				48 Hr				72 Hr				96 Hr			
Date/Time:	3-8-16 1100			3-9-16 1070				3-10-16 1030				3-11-16 1100				3-12-16 1100			
Analyst:	2			2				2				2				2			
	°C	DO	pH	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Control A	20.0	8.6	8.0	20.0	8.5	8.1	0	20.4	8.5	7.8	0	20.4	8.4	7.8	0	20.2	8.6	8.0	0
Control B	20.0	8.6	8.0	20.2	8.4	7.9	0	20.5	8.4	7.8	0	20.4	8.5	7.9	0	20.2	8.5	8.0	0
400 mg/l A	19.8	8.6	7.8*	20.3	8.1	7.6	10	–	–	–	–	–	–	–	–	–	–	–	–
400 mg/l B	19.9	7.9	7.9*	20.3	8.0	7.7	10	–	–	–	–	–	–	–	–	–	–	–	–
750 mg/l A	19.9	8.5	7.9*	20.4	8.1	7.7	10	–	–	–	–	–	–	–	–	–	–	–	–
750 mg/l B	19.9	8.5	7.9*	20.4	8.0	7.8	10	–	–	–	–	–	–	–	–	–	–	–	–

Comments: Extraction method: Mechanical shaking ✓
None (aqueous solution) NA. * fish under stress
Dissolved Oxygen (DO) readings in mg/l O_2. Test Aerated: Yes / No

	CONTROL		HIGH CONCENTRATION	
	Alkalinity	Hardness	Alkalinity	Hardness
Initial	31 mg/l $CaCO_3$	45 mg/l $CaCO_3$	27 mg/l $CaCO_3$	46 mg/l $CaCO_3$
Final	32 mg/l $CaCO_3$	46 mg/l $CaCO_3$	– mg/l $CaCO_3$	– mg/l $CaCO_3$

Total Number Dead		
Control	0	/20
400 mg/l	20	/20
750 mg/l	20	/20

RESULTS

(the checked (√) result applies based on fish survival rates of this test; NA - not applicable)

NA	**PASSED**	**LC50 > 750 mg/l** (<40% dead in 750 mg/l conc.)
NA	**FAILED**	**≥40% dead in 750 mg/l** (close to passing - definitive test recommended)
✓	**FAILED**	**LC50 < 400 mg/l** (>60% dead in 400 mg/l conc.)

OFFICE OF THE DISTRICT ATTORNEY
YOLO COUNTY

301 2nd Street
Woodland, California 95695
Telephone: (530) 666-8424 Fax: (530) 666-8423

Please send results to:

Name: Investigator Heidi D'Agostino
Email: heidi.dagostino@yolocounty.org
Fax: 530-666-8185

Testing Facility

Facility name: Aquatic Testing Laboratories
Facility address: 4350 Transport Street, Unit 107
Ventura, CA 93003

Facility contact: Joseph A. LeMay

CHAIN OF CUSTODY RECORD

L1 Sample Number	Description	Manufacturer	UPC	Quantity	Main Ingredient / Or Usage / NOTES	Date sampled	Time sampled	Sample container description: Method of sampling: Composite (C) Grab (G)	Size of sample container (include units)	Type of sample container: Plastic (P), Cardboard/box (C)	Evidence tape: Yes (Y) No (N)	Transported in iced cooler: Yes (Y) No (N)	Required analysis: 96-hour fish bioassay
363A	Ensure Original Nutrition Shake Strawberry, 8 fl oz	Abbott Laboratories	070074407050	3	liquid	2/23/2016	1:00 PM	n/a	200g (min)	P	N	N	X
364A	Ensure Original Nutrition Shake Vanilla, 8 fl oz	Abbott Laboratories	070074407111	3	liquid	2/23/2016	1:00 PM	n/a	200g (min)	P	N	N	X
365A	Old English Lemon Oil, 16 fl oz	Reckitt Benckiser Inc	062338073255	1	liquid	2/23/2016	1:00 PM	n/a	200g (min)	P	N	N	X
366A	Windex Multisurface Disinfectant, 32 fl oz	S.C. Johnson & Son Inc	019800317690	1	liquid	2/23/2016	1:00 PM	n/a	200g (min)	P	N	N	X
367A	Windex Crystal Rain, 32 fl oz	S.C. Johnson & Son Inc	019800317881	1	liquid	2/23/2016	1:00 PM	n/a	200g (min)	P	N	N	X
368A	Rain X Bug Remover, 1 gallon	ITW Global Brands	079118688066	1	liquid	2/23/2016	1:00 PM	n/a	200g (min)	P	N	N	X
369A	SuperTech Windshield Washer Fluid Summer Formula, 1 gallon	Walmart Stores Inc	681131056304	1	liquid	2/23/2016	1:00 PM	n/a	200g (min)	P	N	N	X
370A	Crayola Crayons, 24 pack	Crayola	071662000240	2	solid	2/23/2016	1:00 PM	n/a	200g (min)	C	N	N	X
371A	Glade 2 in 1 Candle, Moonlit Walk & Wandering Stream, 2 pack, 3.8 oz each	S.C. Johnson & Son Inc	046500753657	1	solid	2/23/2016	1:00 PM	n/a	200g (min)	C/G	N	N	X
372A	Equate Makeup Remover Cleansing Towelettes, 40 toweletes	Walmart Stores Inc	681131034999	1	solid	2/23/2016	1:00 PM	n/a	200g (min)	P	N	N	X
373A	Play Day Bubble Stick, 3.9 fl oz	Walmart Stores Inc	825131017174	2	liquid	2/23/2016	1:00 PM	n/a	200g (min)	P	N	N	X
374A	Comet with Bleach Cleanser Lemon Fresh, 21 oz	The Spic and Span Company	678112101795	1	solid	2/23/2016	1:00 PM	n/a	200g (min)	C	N	N	X
375A	Bar Keepers Friend Cleanser & Polish, 21 oz	Servaas Laboratories Inc	071618115141	1	solid	2/23/2016	1:00 PM	n/a	200g (min)	C	N	N	X
376A	AJAX with Bleach, 28 oz	Colgate-Palmolive Company	035000053640	1	solid	2/23/2016	1:00 PM	n/a	200g (min)	C	N	N	X
377A	Renuzit Simply Vanilla, 7 oz	The Dial Corporation	019800036614	2	solid	2/23/2016	1:00 PM	n/a	200g (min)	P	N	N	X
378A	Play-Doh Orange, 5 oz	Hasbro	653569289890	2	solid	2/23/2016	1:00 PM	n/a	200g (min)	P	N	N	X
379A	Febreze Vent Clip Fresh Citrus, .06 fl oz	Proctor & Gamble	037000906285	4	liquid - not enough sample	2/23/2016	1:00 PM	n/a	200g (min)	C	N	N	X
380A	Febreze Vent Clip Midnight Storm, .06 fl oz	Proctor & Gamble	037000811169	4	liquid - not enough sample	2/23/2016	1:00 PM	n/a	200g (min)	C	N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X

NOTE: All Samples were taken at 301 2nd St. Woodland, CA 95695

	Name	Title	Date	Time	Remarks
Relinquished by:	Rachel Hunter	Legal Secretary	2/23/16	1:00pm	
Received by:	[illegible signature]	ATL	2-25-16	0930	
Relinquished by:					
Received by:					
Relinquished by:					
Received by:					

OFFICE OF THE DISTRICT ATTORNEY
YOLO COUNTY

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379A	Febreze Vent Clip Fresh Citrus, .06 fl oz	Proctor & Gamble	037000906285	8	liquid	3/3/2016	11:00 AM	n/a	200g (min)	C	N	N	X
380A	Febreze Vent Clip Midnight Storm, .06 fl oz	Proctor & Gamble	037000811169	8	liquid	3/3/2016	11:00 AM	n/a	200g (min)	C	N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X
								n/a	200g (min)		N	N	X

NOTE: All Samples were taken at 301 2nd St, Woodland, CA 95695

	Name	Title	Date	Time	Remarks
Relinquished by:	Rachel Hunter	Legal Secretary	3/3/16	11:00 am	
Received by:	[illegible]	ATL	3-7-16	0930	- additional sample -
Relinquished by:					
Received by:					
Relinquished by:					
Received by:					