

Capco Analytical Services Incorporated (CAS)  
1536 Eastman Avenue, Suite B  
Ventura, CA. 93003  
(805) 644-1095

Prepared For: Petromax Technologies  
Post Office Box 34666  
Los Angeles, CA 90034

March 25, 1999

ATTENTION: Barry Rosengrant

Laboratory No: 990451  
Date Received: MAR-15-17  
Project: N/A

Job No: B00000  
Sampled By: Client  
ID: See Below

**RESULTS**

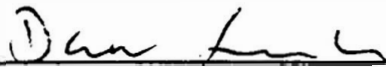
On March 15, 2017, one (1) sample was received for analysis by Capco Analytical Services Inc. The sample was identified and assigned the lab number listed below. This report consists of 6 pages excluding the cover letter, and the Chain of Custody. Capco conducted the Bioassay within all specifications. The results show no fish died. The test results available upon request.

SAMPLE DESCRIPTION

CAS LAB NUMBER

PF 2002 FLUIDIZING LIQUID

99045101

  
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Dan A. Farah, Ph.D.  
Director - Analytical Operations

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**CAPCO**

Capco Analytical Services INC. (CAS)  
 1536 Eastman Avenue, Suite B  
 Ventura CA 93003  
 (805) 644-1095

Client: Petromax  
 Sample ID: PF 2002 Fluidizing Liquid  
 Date Received: 03/15/17  
 Date Sampled: N/A

Sample Matrix: Liquid  
 CAS LAB NO: 99045101  
 Date Analyzed: 03/23/99

CAM 17 METALS ANALYSIS

METALS	TTLIC (mg/L)	TTLC PQL (mg/L)	STLIC (mg/L)	STLIC PQL (mg/L)	CAM LIMITS		EPA METHOD
					TTLIC (mg/L)	STLIC (mg/L)	
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	5	206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
Cadmium	BQL	0.03			100	1	200.7
Chromium	BQL	0.04			2500	560	200.7
Cobalt	BQL	0.05			8000	80	200.7
Copper	BQL	0.03			2500	25	200.7
Lead	BQL	0.09			1000	5	200.7
Mercury	BQL	0.0005			20	0.2	245.1
Molybdenum	BQL	0.08			3500	350	200.7
Nickel	BQL	0.08			2000	20	200.7
Selenium	BQL	0.01			100	1	270.2
Silver	0.34	0.06			500	5	200.7
Thallium	BQL	0.2			700	7	200.7
Vanadium	BQL	0.07			2400	24	200.7
Zinc	0.38	0.06			5000	250	200.7

BQL: Below Practical Quantitation Limit  
 PQL: Practical Quantitation Limit

  
 \_\_\_\_\_  
 Principal Analyst

Capco Analytical Services INC. (CAS)  
1536 Eastman Avenue, Suite B  
Ventura CA 93003  
(805) 644-1095

Client: Petromax  
Lab ID: 990451  
Analyst: ENN

Sample Matrix: Liquid  
Date Received: 03/15/17  
Date Sampled: N/A

HEXAVALENT CHROMIUM

CAS Lab #	Sample ID	RESULTS (mg/L)	Dil Factor	PQL (mg/L)
99045101	PF 2002 Fluidizing Liq.	BQL	1	0.03

PQL: Practical Quantitation Limit  
BQL: Below Practical Quantitation Limit  
EPA Method: SM 3500D

  
Principal Analyst

## SAMPLE AND BIOASSAY INFORMATION

**LAB NO.:** 99045101  
**CLIENT :** Petromax  
**Flow:** Static  
**Test Type:** Screening  
**Dilution Water:** Synth. Fresh  
**Hardness:** 434 mg/L  
**Alkalinity:** 330 mg/L

**SAMPLE ID:** Control  
**SAMPLE MATRIX:** Liquid  
**Species:** Pimephales promelas  
**Common Name:** Fathead Minnow  
**Acclimation Temp:** 20°C  
**Supplier:** Thomas Fish Co.  
**Fish Received:** 02/26/99  
**Shipper:** Federal Express  
**Tank Volume:** 10 L.  
**Sol. Depth:** ~16 cm  
**Fish per Tank:** 10  
**Avg. Length:** 37 mm  
**Range:** 35-41 mm  
**Avg. Wt.:** 0.62 g  
**Range:** 0.50-0.72 g

<u>Date/Time</u>	<u>Control</u>	<u>Control</u>
<b>INITIAL</b> 03/18/17-0900		
D.O.	6.9	6.5
Temp.	19.0	19.0
pH	6.9	7.6
<b>Hours</b> 03/19/17-0900		
D.O.	6.1	7.1
Temp.	19.0	19.0
pH	6.7	6.8
Mortality	0	0
<b>Hours</b> 03/20/17-0900		
D.O.	8.1	7.14
Temp.	19.0	19.0
pH	6.9	6.8
Mortality	0	0
<b>12 Hours</b> 03/21/17-0900		
D.O.	7.6	7.0
Temp.	19.0	19.0
pH	6.7	6.5
Mortality	0	0
<b>Hours</b> 03/22/17-0900		
D.O.	8.1	7.5
Temp.	19.0	19.0
pH	6.5	6.9
Mortality	0	0
<b>Total Dead</b>	<b>0</b>	<b>0</b>

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<u>Beginning</u>	<u>Beginning</u>	<u>Ending</u>	<u>Ending</u>
<u>Hardness</u>	<u>Alkalinity</u>	<u>Hardness</u>	<u>Alkalinity</u>
43 mg/L	27 mg/L	41 mg/L	25 mg/L

**Remarks:** Single bubble aeration was supplied during entire test.

C. W. N. A.

**Principal Analyst**



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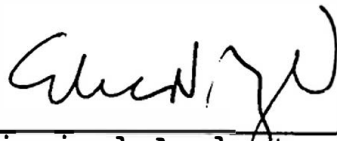
Client: Petromax Sample  
 ID: Method Blank Date  
 Analyzed: 03/23/17

Sample Matrix: MB for Liquid  
 CAS LAB NO: 990451-MB

CAM 17 METALS ANALYSIS

METALS	TTLC (mg/L)	TTLC	STLC (mg/L)	STLC	CAM LIMITS		EPA METHOD
		PQL (mg/L)		PQL (mg/L)	TTLC (mg/L)	STLC (mg/L)	
Antimony	BQL	0.1			500	15	200.7
Arsenic	BQL	0.03			500	5	206.2
Barium	BQL	0.06			10000	100	200.7
Beryllium	BQL	0.1			75	0.75	200.7
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Zinc	BQL	0.06			5000	250	200.7

BQL: Below Practical Quantitation Limit  
 PQL: Practical Quantitation Limit

  
 \_\_\_\_\_  
 Principal Analyst

# BIOASSAY ANALYSIS RESULTS

LAB NO.: 99045101

SAMPLE ID: PF 2002 Fluidizing Liquid

CLIENT : Petromax

SAMPLE MATRIX: Liquid

Flow: Static

Test Type: Screening

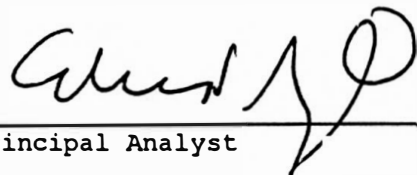
Species: Pimephales promelas

96hr. LC<sub>50</sub> Results: >750 mg/L

Confidence Limits: N/A

LC50 Calculation Method: N/A

Method: "Static Acute Bioassay Procedures For Hazardous Waste Samples" prepared by the California Department of Fish and Game Water Pollution Control Laboratory



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Principal Analyst