



Kurt E. Floren
Agricultural Commissioner/
Director of Weights and Measures

COUNTY OF LOS ANGELES

Department of Agricultural Commissioner/ Weights and Measures

Environmental Toxicology Bureau
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Robert G. Atkins
Chief Deputy

California State DHS Certificate #1430
County Sanitation ID #10240

Report Date: April 7, 2006

Sample Description: Water Filtration Pitchers

Attention: Carl Palmer
Seychelle Technology
32921 Calle Perfecto
San Juan Capistrano, CA 92675

Date Received: February 4, 2006

Laboratory ID Number: MS-1905-06 and MS-1906-06

FILTER PREPARATION PRIOR TO ANALYSES: The complete filtering unit was initially rinsed and drained with 1 liter of deionized water.

INORGANIC TESTING

Description of Methods:

Nitrite, nitrate, & fluoride: A 500 ml of 1 mg/L fluoride, 2 mg/l nitrite and 20 mg/l nitrate were transferred to filter unit MS-1905-06 and MS-1906-06, filtered through the filter and analyzed. Procedures was performed on 3/21/06.

MBAS Analyses: A 500-ml of 300 ug/L aliquot was passed through the filter and analyzed. Procedure was performed on 3/10/06.

Trace Metals: 500 ml of 200 μ g/l each of chromium, copper, lead, nickel, cadmium, cobalt, zinc, arsenic, molybdenum, vanadium, mercury, antimony, selenium, thallium and 500 μ g/l of barium was transferred to filter unit MS-1905-06 and MS-1906-06, filtered through the filter, and analyzed. Procedure was performed on 3/21/06.

Mercury: 1 liter of 25 μ g/l mercury in water was transferred to MS-1905-06 and MS-1906-06, filter through the filter and analyzed on 3/31/06.

Turbidity: 500ml water with turbidity value of 4.50 NTU was passed through the filters and analyzed. Procedure performed on 3/10/06.

Chromium VI: 500 ml water with 200 μ g/l chromium VI was filtered through filter unit MS-1905-06 and MS-1096-06, and the filtrate was analyzed on 2/21/06.

Total Residual Chlorine: 500ml aliquot of 0.80 mg/l chlorine was passed through the filters and analyzed on 3/10/06.


Seychelle Technology/Palmer
MS-1905-06 thru MS-1906-06

MS #	Analyte	Method Used ¹	Pre-Filtered Concentration	Units	Post-Filtration Result	% Reduction	Reporting Limit	Date Analyzed
1905/06	Nitrate	SM 4110	20	mg/l	18.6	65	0.5	3/21/06
1905/06	Nitrite	SM 4110	2	mg/l	<0.1	>95	0.1	3/21/06
1905/06	Fluoride	SM 4110	1	mg/l	<0.1	>90	0.1	3/21/06
1905/06	Arsenic	200.8	200	µg/l	<2	>99	2	3/21/06
1905/06	MBAS	425.1	300	µg/l	<10	>96.67	10	3/10/06
1905/06	Chromium	200.8	200	µg/l	117	41.50	10	3/21/06
1905/06	Copper	200.8	200	µg/l	39.2	80.40	10	3/21/06
1905/06	Nickel	200.8	200	µg/l	152	24.00	10	3/21/06
1905/06	Cadmium	200.8	200	µg/l	128	36.00	1	3/21/06
1905/06	Cobalt	200.8	200	µg/l	154	23.00	10	3/21/06
1905/06	Zinc	200.8	200	µg/l	183	8.50	50	3/21/06
1905/06	Lead	200.8	200	µg/l	<5	>97.50	5	3/21/06
1905/06	Molybdenum	200.8	200	µg/l	<20	>90.00	20	3/21/06
1905/06	Vanadium	200.8	200	µg/l	<25	>87.50	25	3/21/06
1905/06	Antimony	200.8	200	µg/l	<5	>97.50	5	3/21/06
1905/06	Selenium	200.8	200	µg/l	<5	>97.50	5	3/21/06
1905/06	Thallium	200.8	200	µg/l	<1	>99.50	1	3/21/06
1905/06	Barium	200.8	500	µg/l	233	53.40	100	3/21/06
1905/06	Chromium VI	218.6, IC	200	µg/l	7.76	96.12	0.25	2/21/06
1905/06	Mercury	245.1	25	µg/l	<0.5	>98.00	0.5	3/31/06
1905/06	Total Residual Chlorine	330.5	0.80	mg/l	<0.1	>87.50	0.1	3/10/06
1905/06	Turbidity	180.1	4.5	NTU	0.12	97.33	0.1	3/10/06
1906/06	Nitrate	SM 4110	20	mg/L	13.2	34	0.5	3/21/06
1906/06	Nitrite	SM 4110	2	mg/l	<0.1	>95	0.1	3/21/06
1906/06	Fluoride	SM 4110	1	mg/l	<0.1	>90	0.1	3/21/06
1906/06	Arsenic	200.8	200	µg/l	<2	>99	2	3/21/06
1906/06	MBAS	425.1	300	µg/l	<10	>96.67	10	3/10/06

Seychelle Technology/Palmer
MS-1905-06 thru MS-1906-06

MS #	Analyte	Method Used ¹	Pre-Filtered Concentration	Units	Post-Filtration Result	% Reduction	Reporting Limit	
1906/06	Chromium	200.8	200	µg/l	110	45.00	10	3/21/06
1906/06	Copper	200.8	200	µg/l	44.5	77.75	10	3/21/06
1906/06	Nickel	200.8	200	µg/l	138	31.00	10	3/21/06
1906/06	Cadmium	200.8	200	µg/l	114	43.00	1	3/21/06
1906/06	Cobalt	200.8	200	µg/l	135	32.50	10	3/21/06
6446/02	Zinc	200.8	200	µg/L	157	21.50	50	3/21/06
1906/06	Lead	200.8	200	µg/l	<5	>97.50	5	3/21/06
1906/06	Molybdenum	200.8	200	µg/l	<20	>90.00	20	3/21/06
1906/06	Vanadium	200.8	200	µg/l	30	85.00	25	3/21/06
1906/06	Antimony	200.8	200	µg/l	<5	>97.50	5	3/21/06
1906/06	Selenium	200.8	200	µg/l	<5	>97.50	5	3/21/06
1906/06	Thallium	200.8	200	µg/l	<1	>99.50	1	3/21/06
1906/06	Barium	200.8	500	µg/l	199	60.20	100	3/21/06
1906/06	Chromium VI	218.6, IC	500	µg/l	3.34	99.33	0.25	2/21/06
1906/06	Mercury	245.1	25	µg/l	<0.5	>98.00	0.5	3/31/05
1906/06	Total Residual Chlorine	330.5	0.80	mg/l	<0.1	>87.50	0.1	3/10/06
1906/06	Turbidity	180.1	3.45	NTU	0.13	96.23	0.1	3/10/06

Submitted By:


Wai Leung, Supervising Toxicologist 4/10/06
Date


Dr. Wasfy Shindy, Deputy Director 4/11/06
tm Date



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Report Date: March 24, 2006

Sample Description: Water Filtration Pitchers

Attention: Carl Palmer
Seychelle Technology
32921 Calle Perfecto
San Juan Capistrano, CA 92675

Date Received: February 14, 2006

Laboratory ID Number: MS-1905-06 and MS-1906-06

FILTER PREPARATION PRIOR TO ANALYSES: The complete unit with plastic lid and charcoal filter was initially rinsed with 1 liter of deionized water.

ORGANIC TESTING

Description of Methods:

Volatile Organic (Method 524.2): 125 μ l (0.125 mg/l) of volatile organic standard in methanol at 2000 μ g/ml was added to 1 liter of deionized water. This spiked water (concentration = 250 μ g/l) was transferred to filter unit MS-1905-06 and MS-1906-06, filtered through the unit and analyzed. Procedure was performed on March 13, 2006.

Chlorinated Pesticides (Method 505): 1.0 ml of Chlorinated Pesticides at 10 μ g/ml was added to 1.0 liter of deionized water. This spiked water (concentration = 10 μ g/l) was transferred to filter unit MS-1905-06 and MS-1906-06, filtered through the unit and analyzed. Procedure was performed on February 23, 2006.

Nitrogen and Phosphorus containing Pesticides (Method 507): 1 ml of simazine, atrazine, molinate and thiobencarb at 50 μ g/ml was added to 1.0 liter of deionized water. This spiked water (concentration = 50 μ g/l) was transferred to filter unit MS-1905-06 and MS-1906-06, filtered through the unit and analyzed. Procedure was performed on February 24, 2006.

Chlorinated Acids (Method 515.3): 500 μ l (0.5 ml) of Chlorinated Acids at 1 mg/ml was added to 1.0 liter of deionized water. This spiked water (concentration = 500 μ g/l) was transferred to filter unit MS-1905-06 and MS-1906-06, filtered through the unit and analyzed. Procedure was performed on March 9, 2006.

Carbamates (Method 531.1): 500 μ l (0.5 ml) of Chlorinated Acids at 1 mg/ml was added to 1.0 liter of deionized water. This spiked water (concentration = 500 μ g/l) was transferred to filter unit

Seychelle Technology/Palmer
MS-1905-06 and MS-1906-06

MS-1905-06 and MS-1906-06, filtered through the unit and analyzed. Procedure was performed on February 27, 2006.

Glyphosate (Method 547): 1.0 ml of glyphosate standard at 1 mg/ml was added to 1.0 liter of deionized water. This spiked water (concentration = 1,000 µg/l) was transferred to filter unit MS-1905-06 and MS-1906-06, filtered through the unit and analyzed. Procedure was performed on February 21, 2006.

PW-1905-06

Analyte	Method Used ¹	Pre-Filtered Concentration	Units	Post-Filtration Result	% Reduction	Reporting Limit	Date Analyzed
Bromodichloromethane	524.2	250	µg/l	0.64	99.74	0.5	3/13/06
Bromoform	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
Chloroform	524.2	250	µg/l	0.85	99.66	0.5	3/13/06
Dibromochloromethane	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
Benzene	524.2	250	µg/l	0.54	99.78	0.5	3/13/06
Carbon Tetrachloride	524.2	250	µg/l	<0.5	99.80	0.5	3/13/06
1,2-Dichlorobenzene	524.2	250	µg/l	<0.5	99.80	0.5	3/13/06
1,4-Dichlorobenzene	524.2	250	µg/l	<0.5	99.80	0.5	3/13/06
1,1-Dichloroethane	524.2	250	µg/l	0.67	99.73	0.5	3/13/06
1,2-Dichloroethane	524.2	250	µg/l	0.76	99.70	0.5	3/13/06
1,1-Dichloroethylene	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
cis-1,2-Dichloroethylene	524.2	250	µg/l	0.63	99.75	0.5	3/13/06
trans-1,2-Dichloroethylene	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
Dichloromethane (methylene chloride)	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
1,2-Dichloropropane	524.2	250	µg/l	0.62	99.75	0.5	3/13/06
Ethyl benzene	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
1,3-Dichloropropene	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
1,1-Dichloroethane	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
Monochlorobenzene	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
Styrene	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
1,1,2,2-Tetrachloroethane	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
Tetrachloroethylene	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
Toluene	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
1,2,4-Trichlorobenzene	524.2	250	µg/l	<0.5	> 99.80	0.5	3/13/06
1,1,1-Trichloroethane	524.2	250	µg/l	0.64	99.74	0.5	3/13/06
1,1,2-Trichloroethane	524.2	250	µg/l	0.63	99.75	0.5	3/13/06

Analyte	Method Used ¹	Pre-Filtered Concentration	Units	Post-Filtration Result	% Reduction	Reporting Limit	Date Analyzed
Trichloroethylene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Trichlorotrifluoroethane (Freon 113)	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Vinylchloride	524.2	250	µg/l	< 0.5	99.80	0.5	3/13/06
Total Xylenes	524.2	750	µg/l	1.32	99.82	1.5	3/13/06
MTBE	524.2	250	µg/l	< 1	> 99.60	1	3/13/06
Hexachlorocyclopentadiene	505	10	µg/l	< 1	> 90.00	1	2/23/06
Lindane	505	10	µg/l	< 0.2	> 98.00	0.2	2/23/06
Heptachlor	505	10	µg/l	< 0.01	> 99.90	0.01	2/23/06
Heptachlor epoxide	505	10	µg/l	< 0.01	99.90	0.01	2/23/06
Endrin	505	10	µg/l	< 0.1	> 99.00	0.1	2/23/06
Methoxychlor	505	10	µg/l	< 1	> 90.00	1	2/23/06
Molinate	507	50	µg/l	< 2	> 96.00	2	2/23/06
Atrazine	507	50	µg/l	< 1	> 98.00	1	2/23/06
Simazine	507	50	µg/l	< 1	> 98.00	1	2/23/06
Thiobencarb	507	50	µg/l	< 1	> 98.00	1	2/23/06
Bentazon	515.3	500	µg/l	< 2	> 99.60	2	2/23/06
2,4-D	515.3	500	µg/l	< 10	> 98.00	10	2/23/06
Dinoseb	515.3	500	µg/l	< 2	> 99.60	2	2/23/06
Pentachlorophenol	515.3	500	µg/l	< 0.2	> 99.96	0.2	2/23/06
Silvex	515.3	500	µg/l	< 1	> 99.80	1	2/23/06
Oxamyl	531.1	500	µg/l	< 20	> 96.00	20	2/23/06
Carbofuran	531.1	500	µg/l	< 5	> 99.00	5	2/23/06
Glyphosate	547	1000	µg/l	59.8	94.02	25	2/21/06

PW-1906-06

Analyte	Method Used ²	Pre-Filtered Concentration	Units	Post-Filtration Result	% Reduction	Reporting Limit	Date Analyzed
Bromodichloromethane	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Bromoform	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Chloroform	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Dibromochloromethane	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Benzene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Carbon Tetrachloride	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06

Analyte	Method Used ²	Pre-Filtered Concentration	Units	Post-Filtration Result	% Reduction	Reporting Limit	Date Analyzed
1,2-Dichlorobenzene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
1,4-Dichlorobenzene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
1,1-Dichloroethane	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
1,2-Dichloroethane	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
1,1-Dichloroethylene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
cis-1,2-Dichloroethylene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
trans-1,2-Dichloroethylene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Dichloromethane (methylene chloride)	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
1,2-Dichloropropane	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Ethyl benzene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
1,3-Dichloropropene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
1,1-Dichloroethane	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Monochlorobenzene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Styrene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
1,1,2,2-Tetrachloroethane	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Tetrachloroethylene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Toluene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
1,2,4-Trichlorobenzene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
1,1,1-Trichloroethane	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
1,1,2-Trichloroethane	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Trichloroethylene	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Trichlorotrifluoroethane (Freon 113)	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Vinylchloride	524.2	250	µg/l	< 0.5	> 99.80	0.5	3/13/06
Total Xylenes	524.2	750	µg/l	< 0.5	> 99.80	1.5	3/13/06
MTBE	524.2	250	µg/l	< 1	> 99.60	1	3/13/06
Hexachlorocyclopentadiene	505	10	µg/l	< 1	> 90.00	1	2/23/06
Lindane	505	10	µg/l	< 0.2	> 98.00	0.2	2/23/06
Heptachlor	505	10	µg/l	< 0.01	> 99.90	0.01	2/23/06
Heptachlor epoxide	505	10	µg/l	< 0.01	> 99.90	0.01	2/23/06
Endrin	505	10	µg/l	< 0.1	> 99.00	0.1	2/23/06
Methoxychlor	505	10	µg/l	< 1	> 90.00	1	2/23/06
Molinate	507	50	µg/l	< 2	> 96.00	2	2/24/06
Atrazine	507	50	µg/l	< 1	> 98.00	1	2/24/06
Simazine	507	50	µg/l	< 1	> 98.00	1	2/24/06
Thiobencarb	507	50	µg/l	< 1	> 98.00	1	2/24/06

Analyte	Method Used ²	Pre- Filtered Concentration	Units	Post- Filtration Result	% Reduction	Reporting Limit	Date Analyzed
Bentazon	515.3	500	µg/l	< 2	> 99.60	2	3/9/06
2,4-D	515.3	500	µg/l	< 10	> 98.00	10	2/27/06
Dinoseb	515.3	500	µg/l	< 2	> 99.60	2	2/27/06
Pentachlorophenol	515.3	500	µg/l	0.41	99.92	0.2	2/27/06
Silvex	515.3	500	µg/l	1.53	99.69	1	2/27/06
Oxamyl	531.1	500	µg/l	< 20	> 96.00	20	2/27/06
Carbofuran	531.1	500	µg/l	< 5	> 99.00	5	2/27/06
Glyphosate	547	1000	µg/l	60.1	93.99	25	2/21/06

Submitted By:

David Chiu 4/11/06
David Chiu, Supervising Toxicologist Date

Wasfy Shindy 4/11/06
Wasfy Shindy, Ph.D., Deputy Director Date

1. Method number from EPA publication EPA-600/4-79-020, rev. 3/83.
2. Method number from EPA publication EPA-600/4-79-020, rev. 3/83.