



December 8, 2010

Mayor Dave Cieslewicz  
City of Madison  
210 Martin Luther King Jr. Blvd. #403  
Madison, WI 53709-0002

Dear Mayor Dave:

Attached is a report from Northern Lake Services, a professional environmental testing agency hired by Madison Fireworks Fund, on 3 separate water samples taken from Lake Mendota, Madison a month after the Rhythm & Booms 2010 event.

There was concern expressed prior to the event of increased levels of Perchlorate. Please note that the levels in the testing are low, and are identical in the two test locations in the Warner Park lagoon to the sample taken at Tenney Park on the same day.

Please note that the samples were taken by a professional engineer from Skogen Engineering Associates of Fitchburg, Wisconsin and the chain of custody was preserved in all cases, i.e. the sealed sample bottles were delivered to Skogen Engineering and Skogen Engineering sent the samples directly to Northern Lake Services for testing.

Please feel free to share this information with environmental interests if you so wish.

Sincerely,

Terry Kelly  
President

TK:djm  
Attachment

# ANALYTICAL REPORT

**NORTHERN LAKE SERVICE, INC.**  
 Analytical Laboratory and Environmental Services  
 400 North Lake Avenue - Crandon, WI 54520  
 Ph: (715)-478-2777 Fax: (715)-478-3060

WDNR Laboratory ID No. 721026460  
 WDATCP Laboratory Certification No. 105-330  
 EPA Laboratory ID No. WI00034

**Client:** Madison Fireworks Fund, Inc.  
 Attn: Deb McCue  
 6515 Grand Teton Plaza  
 Suite 140  
 Madison, WI 53719

Printed: 09/15/10 Code: NNNN-S Page 1 of 3  
 NLS Project: 149334  
 NLS Customer: 99521  
 Phone: 608 274 5789

**Project:** Surface Water

**Jenney Park I/EA NLS ID: 575075**

COC: 125406 Matrix: SW

Collected: 08/02/10 15:00 Received: 08/03/10

Notes: Noncompliance: Metals scan is for informational use only.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Aluminum, tot. recoverable as Al by ICP	0.21	mg/L	1	0.025	0.050	08/10/10	EPA 200.7	721026460
Antimony, tot. recoverable as Sb by ICP	ND	ug/L	1	2.6	9.2	08/10/10	EPA 200.7	721026460
Arsenic, tot. recoverable as As by ICP	ND	ug/L	1	3.1	11	08/10/10	EPA 200.7	721026460
Barium, tot. recoverable as Ba by ICP	28	ug/L	1	2.5*	5.0*	08/10/10	EPA 200.7	721026460
Beryllium, tot. recoverable as Be by ICP	ND	ug/L	1	0.17	0.50	08/10/10	EPA 200.7	721026460
Cadmium, tot. recoverable as Cd by ICP	ND	ug/L	1	0.17	0.50	08/10/10	EPA 200.7	721026460
Calcium, tot. recoverable as Ca by ICP	26	mg/L	1	0.15*	0.30*	08/10/10	EPA 200.7	721026460
Chromium, tot. recoverable as Cr by ICP	ND	ug/L	1	1.0	3.0	08/10/10	EPA 200.7	721026460
Cobalt, tot. recoverable as Co by ICP	10.97	ug/L	1	0.47	1.7	08/10/10	EPA 200.7	721026460
Copper, tot. recoverable as Cu by ICP	ND	ug/L	1	0.60	2.1	08/10/10	EPA 200.7	721026460
Iron, tot. recoverable as Fe by ICP	0.24	mg/L	1	0.025	0.050	08/10/10	EPA 200.7	721026460
Lead, tot. recoverable as Pb by ICP	ND	ug/L	1	1.0	3.0	08/10/10	EPA 200.7	721026460
Magnesium, tot. recoverable as Mg by ICP	31	mg/L	1	0.15	0.30	08/10/10	EPA 200.7	721026460
Manganese, tot. recoverable as Mn by ICP	16	ug/L	1	1.0	2.0	08/10/10	EPA 200.7	721026460
Molybdenum, total recoverable as Mo by ICP	1.4	ug/L	1	0.76	2.7	08/10/10	EPA 200.7	721026460
Nickel, tot. recoverable as Ni by ICP	ND	ug/L	1	0.74	2.6	08/10/10	EPA 200.7	721026460
Potassium, tot. recoverable as K by ICP	3.4	mg/L	1	0.15	0.30	08/10/10	EPA 200.7	721026460
Selenium, tot. recoverable as Se by fumace	ND	ug/L	1	2.4	8.7	08/10/10	SM 3113-B 196d	721026460
Silver, tot. recoverable as Ag by ICP	ND	ug/L	1	0.22	0.77	08/10/10	EPA 200.7	721026460
Sodium, tot. recoverable as Na by ICP	21	mg/L	1	0.15	0.52	08/10/10	EPA 200.7	721026460
Thallium, tot. recoverable as Tl by ICP	ND	ug/L	1	1.7	5.8	08/10/10	EPA 200.7	721026460
Tin, tot. recoverable as Sn by ICP	ND	ug/L	1	2.1	7.4	08/10/10	EPA 200.7	721026460
Titanium, tot. recoverable as Ti by ICP	6.8	ug/L	1	0.33	1.0	08/10/10	EPA 200.7	721026460
Vanadium, tot. recoverable as V by ICP	2.0	ug/L	1	0.41	1.5	08/10/10	EPA 200.7	721026460
Zinc, tot. recoverable as Zn by ICP	ND	ug/L	1	5.0	10	08/10/10	EPA 200.7	721026460
Metals digestion - tot. recov. ICP	Yes					08/09/10	EPA 200.7M	721026460
Metals digestion - tot. recov. GF	Yes					08/09/10	EPA 200.0M	721026460
Perchlorate by EPA 314	ND	ug/L	1	0.37*	4.0*	08/09/10	314.0	Edge

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WDNR Laboratory ID No. 721026460  
 WDATCP Laboratory Certification No. 105-330  
 EPA Laboratory ID No. W100034

Printed: 09/15/10 Code: NNNN-S Page 2 of 3  
 NLS Project: 149334  
 NLS Customer: 99521  
 Phone: 606 274 5789

**Client:** Madison Fireworks Fund, Inc.  
 Attn: Deb McCue  
 6515 Grand Teton Plaza  
 Suite 140  
 Madison, WI 53719

**Project:** Surface Water  
**Warner Park 2/2A NLS ID: 575076**

COC: 125406 Matrix: SW

Collected: 08/02/10 15:20 Received: 08/03/10

Notes: Noncompliance: Metals scan is for informational use only.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Aluminum, tot. recoverable as Al by ICP	0.31	mg/L	1	0.025	0.050	08/10/10	EPA 200.7	721026460
Antimony, tot. recoverable as Sb by ICP	ND	ug/L	1	2.6	9.2	08/10/10	EPA 200.7	721026460
Arsenic, tot. recoverable as As by ICP	ND	ug/L	1	3.1	11	08/10/10	EPA 200.7	721026460
Barium, tot. recoverable as Ba by ICP	38	ug/L	1	2.5*	5.0*	08/10/10	EPA 200.7	721026460
Beryllium, tot. recoverable as Be by ICP	ND	ug/L	1	0.17	0.50	08/10/10	EPA 200.7	721026460
Cadmium, tot. recoverable as Cd by ICP	ND	ug/L	1	0.17	0.50	08/10/10	EPA 200.7	721026460
Calcium, tot. recoverable as Ca by ICP	15	mg/L	1	0.15*	0.30*	08/10/10	EPA 200.7	721026460
Chromium, tot. recoverable as Cr by ICP	ND	ug/L	1	1.0	3.0	08/10/10	EPA 200.7	721026460
Cobalt, tot. recoverable as Co by ICP	ND	ug/L	1	0.47	1.7	08/10/10	EPA 200.7	721026460
Copper, tot. recoverable as Cu by ICP	1.2	ug/L	1	0.60	2.1	08/10/10	EPA 200.7	721026460
Iron, tot. recoverable as Fe by ICP	0.71	mg/L	1	0.025	0.050	08/10/10	EPA 200.7	721026460
Lead, tot. recoverable as Pb by ICP	1.2	ug/L	1	1.0	3.0	08/10/10	EPA 200.7	721026460
Magnesium, tot. recoverable as Mg by ICP	5.8	mg/L	1	0.15	0.30	08/10/10	EPA 200.7	721026460
Manganese, tot. recoverable as Mn by ICP	82	ug/L	1	1.0	2.0	08/10/10	EPA 200.7	721026460
Molybdenum, total recoverable as Mo by ICP	10.86	ug/L	1	0.76	2.7	08/10/10	EPA 200.7	721026460
Nickel, tot. recoverable as Ni by ICP	ND	ug/L	1	0.74	2.6	08/10/10	EPA 200.7	721026460
Potassium, tot. recoverable as K by ICP	2.4	mg/L	1	0.15	0.30	08/10/10	EPA 200.7	721026460
Selenium, tot. recoverable as Se by furnace	ND	ug/L	1	2.4	8.7	08/10/10	SM 3113-B 19ed	721026460
Silver, tot. recoverable as Ag by ICP	ND	ug/L	1	0.22	0.77	08/10/10	EPA 200.7	721026460
Sodium, tot. recoverable as Na by ICP	15	mg/L	1	0.15	0.52	08/10/10	EPA 200.7	721026460
Thallium, tot. recoverable as Tl by ICP	ND	ug/L	1	1.7	5.8	08/10/10	EPA 200.7	721026460
Tin, tot. recoverable as Sn by ICP	ND	ug/L	1	2.1	7.4	08/10/10	EPA 200.7	721026460
Titanium, tot. recoverable as Ti by ICP	9.3	ug/L	1	0.33	1.0	08/10/10	EPA 200.7	721026460
Vanadium, tot. recoverable as V by ICP	1.2	ug/L	1	0.41	1.5	08/10/10	EPA 200.7	721026460
Zinc, tot. recoverable as Zn by ICP	ND	ug/L	1	5.0	10	08/10/10	EPA 200.7	721026460
Metals digestion - tot. recov. ICP	yes					08/06/10	EPA 200.7M	721026460
Metals digestion - tot. recov. GF	yes					08/09/10	EPA 200.0M	721026460
Perchlorate by EPA 314	ND	ug/L	1	0.37*	4.0*	08/09/10	314.0	Edge

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Printed: 09/15/10 Code: NNNN-S Page 3 of 3  
 NLS Project: 149334  
 NLS Customer: 99521  
 Phone: 608 274 5789

**Project:** Surface Water  
**Warner Park 3/3A NLS ID: 575077**

COC: 125406 Matrix: SW

Collected: 08/02/10 15:30 Received: 08/03/10

Notes: Noncompliance: Metals scan is for informational use only.

Parameter	Result	Units	Dilution	LOD	LOQ	Analyzed	Method	Lab
Aluminum, tot. recoverable as Al by ICP	ND	mg/L	1	0.025	0.050	08/10/10	EPA 200.7	721026460
Antimony, tot. recoverable as Sb by ICP	ND	ug/L	1	2.6	9.2	08/10/10	EPA 200.7	721026460
Arsenic, tot. recoverable as As by ICP	ND	ug/L	1	3.1	11	08/10/10	EPA 200.7	721026460
Barium, tot. recoverable as Ba by ICP	29	ug/L	1	2.5*	5.0*	08/10/10	EPA 200.7	721026460
Beryllium, tot. recoverable as Be by ICP	ND	ug/L	1	0.17	0.50	08/10/10	EPA 200.7	721026460
Cadmium, tot. recoverable as Cd by ICP	ND	ug/L	1	0.17	0.50	08/10/10	EPA 200.7	721026460
Calcium, tot. recoverable as Ca by ICP	15	mg/L	1	0.15*	0.30*	08/10/10	EPA 200.7	721026460
Chromium, tot. recoverable as Cr by ICP	ND	ug/L	1	1.0	3.0	08/10/10	EPA 200.7	721026460
Cobalt, tot. recoverable as Co by ICP	ND	ug/L	1	0.47	1.7	08/10/10	EPA 200.7	721026460
Copper, tot. recoverable as Cu by ICP	ND	ug/L	1	0.60	2.1	08/10/10	EPA 200.7	721026460
Iron, tot. recoverable as Fe by ICP	0.24	mg/L	1	0.025	0.050	08/10/10	EPA 200.7	721026460
Lead, tot. recoverable as Pb by ICP	ND	ug/L	1	1.0	3.0	08/10/10	EPA 200.7	721026460
Magnesium, tot. recoverable as Mg by ICP	5.7	mg/L	1	0.15	0.30	08/10/10	EPA 200.7	721026460
Manganese, tot. recoverable as Mn by ICP	45	ug/L	1	1.0	2.0	08/10/10	EPA 200.7	721026460
Molybdenum, total recoverable as Mo by ICP	[0.88]	ug/L	1	0.76	2.7	08/10/10	EPA 200.7	721026460
Nickel, tot. recoverable as Ni by ICP	ND	ug/L	1	0.74	2.6	08/10/10	EPA 200.7	721026460
Potassium, tot. recoverable as K by ICP	2.5	mg/L	1	0.15	0.30	08/10/10	EPA 200.7	721026460
Selenium, tot. recoverable as Se by furnace	ND	ug/L	1	2.4	8.7	08/10/10	SM 3113-B 19ed	721026460
Silver, tot. recoverable as Ag by ICP	ND	ug/L	1	0.22	0.77	08/10/10	EPA 200.7	721026460
Sodium, tot. recoverable as Na by ICP	16	mg/L	1	0.15	0.52	08/10/10	EPA 200.7	721026460
Thallium, tot. recoverable as Tl by ICP	ND	ug/L	1	1.7	5.8	08/10/10	EPA 200.7	721026460
Tin, tot. recoverable as Sn by ICP	ND	ug/L	1	2.1	7.4	08/10/10	EPA 200.7	721026460
Titanium, tot. recoverable as Ti by ICP	[0.72]	ug/L	1	0.33	1.0	08/10/10	EPA 200.7	721026460
Vanadium, tot. recoverable as V by ICP	[0.55]	ug/L	1	0.41	1.5	08/10/10	EPA 200.7	721026460
Zinc, tot. recoverable as Zn by ICP	ND	ug/L	1	5.0	10	08/10/10	EPA 200.7	721026460
Metals digestion - tot. recov. ICP	yes					08/06/10	EPA 200.7M	721026460
Metals digestion - tot. recov. GF	yes					08/09/10	EPA 200.0M	721026460
Perchlorate by EPA 314	ND	ug/L	1	0.37*	4.0*	08/09/10	314.0	Edge

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(\*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution.

LOD = Limit of Detection      LOQ = Limit of Quantitation      ND = Not Detected (< LOD)  
 DWB = Dry Weight Basis      NA = Not Applicable      %DWB = (mg/kg DWB) / 10000  
 MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by: *Walt Felder*

Authorized by:  
 R. T. Krueger  
 President

CITY OF MADISON  
RHYTHM and BOOMS  
Summary of Costs  
2000 - 2010

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
<b>Police Department</b>												
Salaries	\$ 42,212.22	\$ 52,370.65	\$ 54,812.89	\$ 51,095.98	\$ 53,035.39	\$ 60,443.84	\$ 87,889.99	\$ 57,838.08	\$ 58,030.57	\$ 71,365.56	\$ 59,871.65	
Benefits	11,214.32	13,592.72	14,454.60	14,129.61	14,001.34	16,278.56	23,785.41	15,726.38	15,791.33	19,410.93	15,049.87	
Equipment	1,060.15	1,368.00	444.60	551.24	214.85	436.76	500.00	426.67	390.61	297.71	187.00	
Total	\$ 54,486.69	\$ 67,331.37	\$ 69,712.09	\$ 65,776.89	\$ 67,251.58	\$ 77,159.16	\$ 112,175.40	\$ 73,991.13	\$ 74,212.51	\$ 91,074.20	\$ 69,108.52	
<b>Parks Division</b>												
Labor	\$ 5,906.04	\$ 6,898.65	\$ 5,240.97	\$ 8,432.82	\$ 10,454.94	\$ 11,137.00	\$ 14,347.52	\$ 18,192.37	\$ 18,293.65	\$ 12,921.38	\$ 20,826.10	
Equipment/Fees	4,553.57	4,217.02	5,185.75	5,920.15	6,277.53	7,319.03	9,338.09	9,022.92	9,066.74	11,158.94	12,012.45	
Total	\$ 10,459.61	\$ 11,055.67	\$ 10,426.72	\$ 14,352.77	\$ 16,732.47	\$ 18,456.03	\$ 23,685.61	\$ 27,215.29	\$ 27,360.39	\$ 24,080.32	\$ 32,838.55	
<b>Fire Department</b>												
Salaries / Benefits	\$ 5,915.59	\$ 5,714.73	\$ 6,949.48	\$ 7,360.03	\$ 8,174.31	\$ 6,503.08	\$ 10,571.65	\$ 7,594.31	\$ 7,421.88	\$ 7,074.04	\$ 7,208.88	
Equipment	-	-	-	-	-	-	-	-	-	-	-	
Total	\$ 5,915.59	\$ 5,714.73	\$ 6,949.48	\$ 7,360.03	\$ 8,174.31	\$ 6,503.08	\$ 10,571.65	\$ 7,594.31	\$ 7,421.88	\$ 7,074.04	\$ 7,208.88	
<b>Traffic Engineering</b>												
Labor	\$ 4,704.80	\$ 4,106.21	\$ 4,958.73	\$ 6,447.14	\$ 3,768.29	\$ 3,816.73	\$ 3,679.85	\$ 3,839.92	\$ 5,524.37	\$ 3,402.30	\$ 3,066.70	
Equipment	2,824.39	3,178.56	3,308.00	4,844.74	3,513.55	3,455.00	3,553.18	3,610.15	3,736.93	5,398.02	6,242.50	
Total	\$ 7,529.19	\$ 7,284.77	\$ 8,266.73	\$ 11,291.88	\$ 7,281.84	\$ 7,271.73	\$ 7,233.03	\$ 7,450.07	\$ 9,261.30	\$ 8,800.32	\$ 9,309.20	
Total City Costs	\$ 78,391.08	\$ 91,386.54	\$ 95,355.02	\$ 98,761.51	\$ 99,440.20	\$ 109,390.00	\$ 153,665.89	\$ 116,190.80	\$ 118,256.08	\$ 131,028.88	\$ 118,465.15	
City's Base Cost per Contract	(50,153.25)	(50,153.25)	(50,153.25)	(50,153.25)	(50,153.25)	(50,153.25)	(50,153.25)	(73,000.00)	(75,190.00)	(75,190.00)	(76,017.00)	
Costs Above Base Due From MFF	\$ 28,237.83	\$ 41,233.29	\$ 45,201.77	\$ 48,628.26	\$ 49,286.95	\$ 59,236.75	\$ 103,512.44	\$ 43,190.80	\$ 43,066.08	\$ 55,838.88	\$ 42,448.15	
Adjustments to MFF Share	-	-	-	-	(9,236.75)	1	(53,512.44)	1	(4,792.05)	4	(5,099.97)	5
Final Amount Due From MFF	\$ 28,237.83	\$ 41,233.29	\$ 45,201.77	\$ 48,628.26	\$ 49,286.95	\$ 50,000.00	\$ 50,000.00	\$ 38,998.75	\$ 37,966.11	\$ 51,819.80	\$ 42,448.15	

1 The Madison Fire Works Fund, Inc. (MMF) share is capped at \$50,000 per the 2002 - 2006 contract.

2 Squad car costs were estimated for 2006. Actual costs were not calculated in 2006 due to changes in the Police Department billing system and because the total for the event exceeded the reimbursable amount.

3 Per the 2007-2011 contract, the City's base cost increased to \$73,000 for 2007 and increases each subsequent year by the lesser of 3% or the Consumer Price Index-All Urban Customers. The CPI for the 12-month period ending June 2008 was 5%; therefore, the City's base increased by 3% to \$75,190.

4 In 2007, waste handling charges totaled \$4,792.05, and the Mayor determined the City would absorb the costs for one year only.

Parks salaries	\$ 1,763.20
Streets salaries and equipment	3,028.85
Total	\$ 4,792.05

5 2008 Parks Division charges include \$3,373 for waste handling. MFF short-paid the 2008 invoice by \$5,099.97, stating that they believed they were not required to pay for waste handling. MFF erroneously included \$1,727.05 of regular cleanup costs in their calculation. The City Attorney's Office determined that MFF is liable for waste handling costs; however, the Mayor's Office decided not to pursue collection for 2008.

6 Because of the rain delay in 2009, the waste handling work performed by the City was done on Monday and no overtime costs were incurred; therefore, the charges are not included in the invoice.

7 The CPI for the 12-month period ending June 2009 was a negative 1.4%. Per the Mayor's Office, we did not apply the decrease to the base. If we had made that adjustment, the invoice would have been \$1,053 higher.

8 There was a misunderstanding in how the Police contract language was communicated to MFF prior to the event. Due to this miscommunication, the City deducted the cost of the cancellation pay for the officers that volunteered to work the event.

9 The CPI for the 12-month period ending June 2010 was 1.1%; therefore, the City's base increased to \$76,017.

## Rhythm & Booms - Day of Event Sales History 2002-2010

