



# North Dakota State Water Commission

900 EAST BOULEVARD AVENUE, DEPT 770 • BISMARCK, NORTH DAKOTA 58505-0850  
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September 27, 2012

North Dakota Department of Health  
Division of Water Quality  
918 East Divide Avenue  
Bismarck, ND 58501-1947

RE: August 2012 Devils Lake Outlets Monthly Discharge and Water Quality Report

Enclosed are the monthly discharge reports for the Devils Lake Outlets for the month of August 2012 and summaries of water quality sample results and flow data. Both the West End and East End Outlets operated continuously throughout the reported period. Discharges from the East End Outlet remained reduced to maintain an optimal blend of outlet discharges and the natural Sheyenne River baseflow.

Executive Order 2012-07 suspends water quality standards that may restrict the operation of the outlets. However, some samples contained sulfates above the aquatic life standard of 750 milligrams per liter (mg/L) developed for the Sheyenne River from its headwaters to 1/10 mile downstream from Baldhill Dam. Sulfates were detected above the currently suspended standard in samples collected from the following sites below the confluence of Tolna Coulee with the Sheyenne River during the reported period: below Pekin (Highway 1), near Cooperstown, and the three Lake Ashtabula crossing locations.

The attached tables contain average daily outlet discharges and water quality results from samples collected from both outlets and the corresponding upstream and downstream locations. Also included are average daily stream flow data and conductivity data obtained from the USGS gaging stations located upstream and downstream of the outlets.

If you have any questions, please contact me at 701-328-4948.

Sincerely,

Jonathan Kelsch P.E.  
Head, Construction Section  
JK:MSW:416-10

OUTLET OPERATOR NAME/ADDRESS

NAME: ND State Water Commission  
 ADDRESS: 900 E Boulevard Avenue,  
 Bismarck ND 58505

MONTHLY DISCHARGE REPORT


LOCATION: WEST END OUTLET

FACILITY: Devils Lake Outlet Project

MONITORING PERIOD	
START DATE	END DATE
8/1/12	8/31/12

LOCATION: Benson Co, ND

Devils Lake West Outlet discharged 14,919 ac-ft over 31 Days

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.50	8.86	8.70	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	NA	NA	NA	µS/cm	Continuous	Recorder
SULFATE	578	588	582	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	579	588	582	mg/L	2 x Week	GRAB
OUTLET DISCHARGE	217	251	243	cfs	Continuous	Recorder
SIGNATURE				9/27/12	701-328-4948	
NAME AND TITLE	JONATHAN KELSCH, HEAD, CONSTRUCTION SECTION			DATE	TELEPHONE NUMBER	

COMMENT AND EXPLANATION OF ANY VIOLATIONS

Summary of individual sample results and flow data for outlet, upstream & downstream monitoring locations attached.

Notes:

- ac-ft - Acre feet
- SU - Standard Units
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- mg/L - Milligrams per liter or parts per million
- cfs - Cubic feet per second
- NA - Not available

OUTLET OPERATOR NAME/ADDRESS

NAME: ND State Water Commission  
 ADDRESS: 900 E Boulevard Avenue,  
 Bismarck ND 58505

MONTHLY DISCHARGE REPORT


LOCATION: EAST END OUTLET

FACILITY: Devils Lake Outlet Project

MONITORING PERIOD	
START DATE	END DATE
8/1/12	8/31/12

LOCATION: Ramsey, Benson, Nelson, ND

Devils Lake East Outlet discharged 19,537 ac-ft over 31 Days

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.44	8.91	8.73	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	NA	NA	NA	µS/cm	Continuous	Recorder
SULFATE	1000	1020	1012	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	1000	1020	1011	mg/L	2 x Week	GRAB
OUTLET DISCHARGE	309	324	321	cfs	Continuous	Recorder
SIGNATURE				9/27/12	701-328-4948	
NAME AND TITLE	JONATHAN KELSCH, HEAD, CONSTRUCTION SECTION			DATE	TELEPHONE NUMBER	

COMMENT AND EXPLANATION OF ANY VIOLATIONS

Summary of individual sample results and flow data for outlet, upstream & downstream monitoring locations attached.

Notes:

- ac-ft - Acre feet
- SU - Standard Units
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- mg/L - Milligrams per liter or parts per million
- cfs - Cubic feet per second
- NA - Not available

OUTLET OPERATOR NAME/ADDRESS

NAME: ND State Water Commission  
 ADDRESS: 900 E Boulevard Avenue,  
 Bismarck ND 58505


MONTHLY DISCHARGE REPORT

LOCATION: UPSTREAM OF THE WEST END OUTLET (FLORA)

FACILITY: Devils Lake Outlet Project

LOCATION: Benson Co, ND

MONITORING PERIOD	
START DATE	END DATE
8/1/12	8/31/12

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	7.99	8.52	8.37	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	1,660	1,860	1,745	µS/cm	Continuous	Recorder
SULFATE	434	583	513	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	434	565	504	mg/L	2 x Week	GRAB
FLOW, INSTREAM	2	9	5	cfs	Continuous	Recorder
SIGNATURE				9/27/12	701-328-4948	
NAME AND TITLE	JONATHAN KELSCH, HEAD, CONSTRUCTION SECTION			DATE	TELEPHONE NUMBER	

COMMENT AND EXPLANATION OF ANY VIOLATIONS

Summary of individual sample results and flow data for outlet, upstream & downstream monitoring locations attached.

Notes:

- SU - Standard Units
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- mg/L - Milligrams per liter or parts per million
- cfs - Cubic feet per second
- USGS streamflow and specific conductance data courtesy of the USGS
- USGS data are provisional and subject to revision

OUTLET OPERATOR NAME/ADDRESS

NAME: ND State Water Commission  
 ADDRESS: 900 E Boulevard Avenue,  
 Bismarck ND 58505


MONTHLY DISCHARGE REPORT

LOCATION: DOWNSTREAM OF THE WEST END OUTLET (BREMEN)  
 UPSTREAM OF THE EAST END OUTLET

FACILITY: Devils Lake Outlet Project

MONITORING PERIOD	
START DATE	END DATE
8/1/12	8/31/12

LOCATION: Eddy Co, ND

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.45	8.83	8.66	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	1,860	1,970	1,928	µS/cm	Continuous	Recorder
SULFATE	557	591	580	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	571	589	580	mg/L	2 x Week	GRAB
FLOW, INSTREAM	212	254	238	cfs	Continuous	Recorder
SIGNATURE				9/27/12	701-328-4948	
NAME AND TITLE	JONATHAN KELSCH, HEAD, CONSTRUCTION SECTION			DATE	TELEPHONE NUMBER	

COMMENT AND EXPLANATION OF ANY VIOLATIONS

Summary of individual sample results and flow data for outlet, upstream & downstream monitoring locations attached.

Notes:

- SU - Standard Units
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- mg/L - Milligrams per liter or parts per million
- cfs - Cubic feet per second
- USGS streamflow and specific conductance data courtesy of the USGS
- USGS data are provisional and subject to revision

OUTLET OPERATOR NAME/ADDRESS

NAME: ND State Water Commission  
 ADDRESS: 900 E Boulevard Avenue,  
 Bismarck ND 58505


MONTHLY DISCHARGE REPORT

LOCATION: DOWNSTREAM OF THE EAST END OUTLET (PEKIN)

FACILITY: Devils Lake Outlet Project

MONITORING PERIOD	
START DATE	END DATE
8/1/12	8/31/12

LOCATION: Nelson Co, ND

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.30	8.71	8.45	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	NA	NA	NA	µS/cm	Continuous	Recorder
SULFATE	780	832	802	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	789	813	804	mg/L	2 x Week	GRAB
FLOW, INSTREAM	NA	NA	NA	cfs	Continuous	Recorder
SIGNATURE				9/27/12	701-328-4948	
NAME AND TITLE				JONATHAN KELSCH, HEAD, CONSTRUCTION SECTION		
COMMENT AND EXPLANATION OF ANY VIOLATIONS						
Summary of individual sample results and flow data for outlet, upstream & downstream monitoring locations attached.						

Notes:

- SU - Standard Units
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- mg/L - Milligrams per liter or parts per million
- cfs - Cubic feet per second
- NA - Not available

## Daily Outlet Discharge and Upstream and Downstream Flows Devils Lake Outlets

Date	Above West End Outlet - Sheyenne River near Flora		West End Outlet		Below West End Outlet/Above East End Outlet -Sheyenne River near Bremen		East End Outlet		Below East End Outlet - Tolna Coulee near Tolna		Below East End Outlet - Sheyenne River near Cooperstown	
	Average Streamflow USGS Gage (cfs)	Average Specific Conductance USGS Gage (µS/cm)	Average Daily Outlet Discharge (cfs)	Total Daily Volume (ft³)	Average Streamflow USGS Gage (cfs)	Average Specific Conductance USGS Gage (µS/cm)	Average Daily Outlet Discharge (cfs)	Total Daily Volume (ft³)	Average Streamflow USGS Gage (cfs)	Average Specific Conductance USGS Gage (µS/cm)	Average Streamflow USGS Gage (cfs)	Average Specific Conductance USGS Gage (µS/cm)
8/1/12	7	-	231	19,964,415	230	1,900	322	26,918,000	338	2,920	566	2,350
8/2/12	7	-	237	20,472,512	230	1,900	322	27,908,000	337	2,930	564	2,400
8/3/12	7	1,770	237	20,456,908	235	1,880	319	27,039,000	339	2,920	565	2,390
8/4/12	7	-	242	20,908,122	239	1,870	322	27,940,000	335	2,890	571	2,370
8/5/12	8	-	243	20,967,491	234	1,900	321	27,830,000	335	2,920	577	2,380
8/6/12	8	-	246	21,240,753	236	1,900	323	27,970,000	338	2,920	590	2,390
8/7/12	8	-	230	19,865,231	235	1,900	324	28,050,000	343	2,920	604	2,390
8/8/12	9	-	217	18,697,100	212	1,860	324	28,047,000	349	2,900	603	2,370
8/9/12	9	1,720	245	21,102,638	218	1,870	324	28,045,000	343	2,920	594	2,320
8/10/12	9	1,690	249	21,462,685	249	1,920	324	28,046,000	345	2,930	588	2,330
8/11/12	7	1,670	249	21,446,878	252	1,920	324	28,034,000	345	2,930	590	2,340
8/12/12	7	1,670	249	21,478,134	254	1,910	323	28,021,000	-	2,920	588	2,330
8/13/12	6	1,710	248	21,406,334	250	1,920	323	27,800,000	-	2,920	580	2,360
8/14/12	6	1,720	245	21,146,227	246	1,930	324	28,079,000	342	2,920	569	2,370
8/15/12	5	1,720	242	20,893,736	249	1,930	323	28,013,000	344	2,910	567	2,390
8/16/12	5	1,710	239	20,637,105	242	1,930	321	27,787,000	336	2,920	570	2,410
8/17/12	4	1,690	241	20,747,341	241	1,940	321	27,782,000	342	2,930	569	2,400
8/18/12	4	1,660	241	20,769,026	242	1,950	321	27,811,000	341	2,940	568	2,390
8/19/12	4	1,670	245	21,094,109	241	1,950	322	27,867,000	341	2,940	563	2,400
8/20/12	4	1,700	245	21,154,725	240	1,950	321	27,830,000	340	2,930	557	2,400
8/21/12	4	1,730	246	21,234,172	239	1,960	320	27,724,000	339	2,930	553	2,400
8/22/12	4	1,770	246	21,251,059	238	1,960	309	21,165,000	266	2,940	550	2,420
8/23/12	3	-	249	21,469,353	238	1,960	323	28,023,000	336	2,930	547	2,420
8/24/12	4	1,770	248	21,354,383	238	1,960	322	27,871,000	338	2,940	544	2,430
8/25/12	3	-	249	21,478,436	238	1,950	317	26,759,000	328	2,920	536	2,430
8/26/12	3	1,810	244	21,007,613	232	1,970	321	27,780,000	341	2,930	520	2,420
8/27/12	3	1,820	251	21,613,725	233	1,970	312	23,442,000	290	2,930	537	2,380
8/28/12	3	1,830	242	20,906,592	234	1,960	322	27,892,000	346	2,960	552	2,430
8/29/12	3	1,840	245	21,102,960	233	1,960	322	27,911,000	344	2,960	548	2,390
8/30/12	2	1,860	247	21,309,858	234	1,960	321	27,832,000	340	2,960	538	2,360
8/31/12	3	1,860	246	21,242,837	232	1,940	321	27,812,000	341	2,960	526	2,350
<b>Minimum</b>	2	1,660	217	18,697,100	212	1,860	309	21,165,000	266	2,890	520	2,320
<b>Maximum</b>	9	1,860	251	21,613,725	254	1,970	324	28,079,000	349	2,960	604	2,430
<b>Average</b>	5	1,745	243	20,963,950	238	1,928	321	27,452,516	336	2,929	564	2,384

<b>Total (ft³)</b>	649,882,456	<b>Total (ft³)</b>	851,028,000
<b>Total (Mgal)</b>	4,861	<b>Total (Mgal)</b>	6,366
<b>Total (Ac-ft)</b>	14,919	<b>Total (Ac-ft)</b>	19,537

**Notes:**

- cfs - cubic feet per second
- µS/cm - Microsiemens per Centimeter at 25 degrees Celsius
- ft³ - cubic feet
- Mgal - Millions of Gallons
- Ac ft - Acre Feet
- USGS streamflow and specific conductance data are preliminary and courtesy of the USGS

**Sheyenne River Upstream of West End Outlet near Flora**  
**Monthly Water Quality Summary**  
**Devils Lake Outlet Discharge Report**

Date	Time	Specific Conductance USGS Gage ( $\mu$ S/cm)	pH	Sulfate (mg/L)	7 Day Rolling Average of Sulfate (mg/L)	Total Suspended Solids (mg/L)	No. of days included in the 7 day Rolling Average
8/1/12	7:00	1,780	8.41	434	434	NA	7
8/2/12	8:25	1,770	8.46	448	441	NA	7
8/3/12	-	-	-	-	-	-	-
8/4/12	-	-	-	-	-	-	-
8/5/12	-	-	-	-	-	-	-
8/6/12	-	-	-	-	-	-	-
8/7/12	8:10	-	8.34	482	455	44	7
8/8/12	-	-	-	-	-	-	-
8/9/12	8:15	1,730	8.49	501	492	NA	7
8/10/12	-	-	-	-	-	-	-
8/11/12	-	-	-	-	-	-	-
8/12/12	-	-	-	-	-	-	-
8/13/12	-	-	-	-	-	-	-
8/14/12	7:00	1,720	8.43	533	517	NA	7
8/15/12	-	-	-	-	-	-	-
8/16/12	8:45	1,700	8.52	520	527	NA	7
8/17/12	-	-	-	-	-	-	-
8/18/12	-	-	-	-	-	-	-
8/19/12	-	-	-	-	-	-	-
8/20/12	-	-	-	-	-	-	-
8/21/12	8:10	-	8.17	539	530	38	7
8/22/12	-	-	-	-	-	-	-
8/23/12	9:30	1,760	8.44	544	542	NA	7
8/24/12	-	-	-	-	-	-	-
8/25/12	-	-	-	-	-	-	-
8/26/12	-	-	-	-	-	-	-
8/27/12	14:10	1,820	7.99	547	543	NA	7
8/28/12	-	-	-	-	-	-	-
8/29/12	-	-	-	-	-	-	-
8/30/12	9:25	1,860	8.44	583	565	NA	7
8/31/12	-	-	-	-	-	-	-
<b>Minimum</b>		1,700	7.99	434	434	38	
<b>Maximum</b>		1,860	8.52	583	565	44	
<b>Average</b>		1,768	8.37	513	504	41	

**Notes:**

$\mu$ S/cm - Microsiemens per Centimeter at 25 degrees Celsius  
mg/L - Milligrams per liter or parts per million  
NA - Not Analyzed  
USGS streamflow and specific conductance data courtesy of the USGS  
USGS data are provisional and subject to revision





**West End Outlet  
Monthly Water Quality Summary  
Devils Lake Outlet Discharge Report**

Date	Time	pH	Sulfate (mg/L)	7 Day Rolling Average of Sulfate (mg/L)	Total Suspended Solids (mg/L)	No. of days included in the 7 day Rolling Average
8/1/12	7:10	8.60	581	581	NA	7
8/2/12	8:35	8.74	584	583	NA	7
8/3/12	-	-	-	-	-	-
8/4/12	-	-	-	-	-	-
8/5/12	-	-	-	-	-	-
8/6/12	-	-	-	-	-	-
8/7/12	8:20	8.68	583	583	27	7
8/8/12	-	-	-	-	-	-
8/9/12	8:30	8.83	578	581	NA	7
8/10/12	-	-	-	-	-	-
8/11/12	-	-	-	-	-	-
8/12/12	-	-	-	-	-	-
8/13/12	-	-	-	-	-	-
8/14/12	7:15	8.68	579	579	NA	7
8/15/12	-	-	-	-	-	-
8/16/12	-	-	-	-	-	-
8/17/12	-	-	-	-	-	-
8/18/12	-	-	-	-	-	-
8/19/12	-	-	-	-	-	-
8/20/12	-	-	-	-	-	-
8/21/12	8:25	8.59	588	588	17	7
8/22/12	-	-	-	-	-	-
8/23/12	9:40	8.86	580	584	NA	7
8/24/12	-	-	-	-	-	-
8/25/12	-	-	-	-	-	-
8/26/12	-	-	-	-	-	-
8/27/12	14:24	8.50	582	583	NA	7
8/28/12	-	-	-	-	-	-
8/29/12	-	-	-	-	-	-
8/30/12	9:15	8.79	579	581	NA	7
8/31/12	-	-	-	-	-	-
<b>Minimum</b>		8.50	578	579	17	
<b>Maximum</b>		8.86	588	588	27	
<b>Average</b>		8.70	582	582	22	

**Notes:**

mg/L - Milligrams per liter or parts per million

NA - Not Analyzed

*Italicized font denotes preliminary result*



**Sheyenne River Downstream of West End Outlet/Upstream of East End Outlet near Bremen  
Monthly Water Quality Summary  
Devils Lake Outlet Discharge Report**

<b>Date</b>	<b>Time</b>	<b>Specific Conductance USGS Gage (<math>\mu</math>S/cm)</b>	<b>pH</b>	<b>Sulfate (mg/L)</b>	<b>7 Day Rolling Average of Sulfate (mg/L)</b>	<b>Total Suspended Solids (mg/L)</b>	<b>No. of days included in the 7 day Rolling Average</b>
8/1/12	6:30	1,900	8.45	580	580	NA	7
8/2/12	8:05	1,900	8.62	578	579	NA	7
8/3/12	-	-	-	-	-	-	-
8/4/12	-	-	-	-	-	-	-
8/5/12	-	-	-	-	-	-	-
8/6/12	-	-	-	-	-	-	-
8/7/12	7:40	1,900	8.53	585	581	53	7
8/8/12	-	-	-	-	-	-	-
8/9/12	8:00	1,790	8.71	557	571	NA	7
8/10/12	-	-	-	-	-	-	-
8/11/12	-	-	-	-	-	-	-
8/12/12	-	-	-	-	-	-	-
8/13/12	-	-	-	-	-	-	-
8/14/12	6:35	1,930	8.63	587	572	NA	7
8/15/12	-	-	-	-	-	-	-
8/16/12	8:25	1,930	8.79	591	589	NA	7
8/17/12	-	-	-	-	-	-	-
8/18/12	-	-	-	-	-	-	-
8/19/12	-	-	-	-	-	-	-
8/20/12	-	-	-	-	-	-	-
8/21/12	7:40	1,960	8.60	583	587	69	7
8/22/12	-	-	-	-	-	-	-
8/23/12	8:30	1,960	8.83	577	580	NA	7
8/24/12	-	-	-	-	-	-	-
8/25/12	-	-	-	-	-	-	-
8/26/12	-	-	-	-	-	-	-
8/27/12	13:45	1,960	8.59	583	581	NA	7
8/28/12	-	-	-	-	-	-	-
8/29/12	-	-	-	-	-	-	-
8/30/12	9:50	1,960	8.81	578	581	NA	7
8/31/12	-	-	-	-	-	-	-
<b>Minimum</b>		1,790	8.45	557	571	53	
<b>Maximum</b>		1,960	8.83	591	589	69	
<b>Average</b>		1,919	8.66	580	580	61	

**Notes:**

$\mu$ S/cm - Microsiemens per Centimeter at 25 degrees Celsius  
mg/L - Milligrams per liter or parts per million  
NA - Not Analyzed  
USGS streamflow and specific conductance data courtesy of the USGS  
USGS data are provisional and subject to revision



**East End Outlet  
Monthly Water Quality Summary  
Devils Lake Outlet Discharge Report**

Date	Time	pH	Sulfate (mg/L)	7 Day Rolling Average of Sulfate (mg/L)	Total Suspended Solids (mg/L)	No. of days included in the 7 day Rolling Average
8/1/12	8:35	8.57	1000	1000	NA	-
8/2/12	13:05	8.80	1020	1010	NA	-
8/3/12	-	-	-	-	-	-
8/4/12	-	-	-	-	-	-
8/5/12	-	-	-	-	-	-
8/6/12	-	-	-	-	-	-
8/7/12	10:30	8.75	1020	1013	13	-
8/8/12	-	-	-	-	-	-
8/9/12	9:30	8.91	1010	1015	NA	-
8/10/12	-	-	-	-	-	-
8/11/12	-	-	-	-	-	-
8/12/12	-	-	-	-	-	-
8/13/12	-	-	-	-	-	-
8/14/12	8:30	8.78	1010	1010	NA	-
8/15/12	-	-	-	-	-	-
8/16/12	12:50	8.85	1020	1015	NA	-
8/17/12	-	-	-	-	-	-
8/18/12	-	-	-	-	-	-
8/19/12	-	-	-	-	-	-
8/20/12	-	-	-	-	-	-
8/21/12	9:40	8.60	1020	1020	7	-
8/22/12	-	-	-	-	-	-
8/23/12	12:10	8.79	1010	1015	NA	-
8/24/12	-	-	-	-	-	-
8/25/12	-	-	-	-	-	-
8/26/12	-	-	-	-	-	-
8/27/12	15:40	8.44	1000	1010	NA	-
8/28/12	-	-	-	-	-	-
8/29/12	-	-	-	-	-	-
8/30/12	11:30	8.76	1010	1005	NA	-
8/31/12	-	-	-	-	-	-
<b>Minimum</b>		8.44	1000	1000	7	
<b>Maximum</b>		8.91	1020	1020	13	
<b>Average</b>		8.73	1012	1011	10	

**Notes:**

mg/L - Milligrams per liter or parts per million

NA - Not Analyzed

*Italicized font denotes preliminary result*



**Sheyenne River Downstream of East End Outlet near Pekin  
Monthly Water Quality Summary  
Devils Lake Outlet Discharge Report**

Date	Time	pH	Sulfate (mg/L)	7 Day Rolling Average of Sulfate (mg/L)	Total Suspended Solids (mg/L)	No. of days included in the 7 day Rolling Average
8/1/12	9:00	8.71	<b>806</b>	<b>806</b>	NA	7
8/2/12	13:40	8.42	<b>817</b>	<b>812</b>	NA	7
8/3/12	-	-	-	-	-	-
8/4/12	-	-	-	-	-	-
8/5/12	-	-	-	-	-	-
8/6/12	-	-	-	-	-	-
8/7/12	11:00	8.32	<b>780</b>	<b>801</b>	41	7
8/8/12	-	-	-	-	-	-
8/9/12	10:20	8.40	<b>798</b>	<b>789</b>	NA	7
8/10/12	-	-	-	-	-	-
8/11/12	-	-	-	-	-	-
8/12/12	-	-	-	-	-	-
8/13/12	-	-	-	-	-	-
8/14/12	9:00	8.42	<b>802</b>	<b>800</b>	NA	7
8/15/12	-	-	-	-	-	-
8/16/12	13:15	8.54	<b>794</b>	<b>798</b>	NA	7
8/17/12	-	-	-	-	-	-
8/18/12	-	-	-	-	-	-
8/19/12	-	-	-	-	-	-
8/20/12	-	-	-	-	-	-
8/21/12	10:10	8.37	<b>832</b>	<b>813</b>	40	7
8/22/12	-	-	-	-	-	-
8/23/12	12:30	8.55	<b>788</b>	<b>810</b>	NA	7
8/24/12	-	-	-	-	-	-
8/25/12	-	-	-	-	-	-
8/26/12	-	-	-	-	-	-
8/27/12	16:10	8.30	<b>799</b>	<b>806</b>	NA	7
8/28/12	-	-	-	-	-	-
8/29/12	-	-	-	-	-	-
8/30/12	12:00	8.51	<b>807</b>	<b>803</b>	NA	7
8/31/12	-	-	-	-	-	-
<b>Minimum</b>		8.30	780	789	40	
<b>Maximum</b>		8.71	832	813	41	
<b>Average</b>		8.45	802	804	41	

**Notes:**

mg/L - Milligrams per liter or parts per million

NA - Not Analyzed

*Italicized font denotes preliminary result*

**Bold font and gray shading denotes sample sulfate concentration exceeds currently suspended standard of 750 mg/L for aquatic life**

