

# North Dakota State Water Commission

900 EAST BOULEVARD AVENUE, DEPT 770 • BISMARCK, NORTH DAKOTA 58505-0850  
701-328-2750 • TTY 800-366-6888 • FAX 701-328-3696 • INTERNET: <http://swc.nd.gov>

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August 30, 2013

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

RE: July 2013 Devils Lake Outlets Monthly Discharge and Water Quality Report

Enclosed are the monthly discharge reports for the Devils Lake Outlets for the month of July 2013 and summaries of water quality sample results and flow data. The West End Outlet began discharging on July 1<sup>st</sup>. Combined discharges from the West and East End Outlet were limited to 500 cubic feet per second (cfs) because of high natural flows in the Sheyenne River until July 15<sup>th</sup> when the outlets began running at full capacity (600 cfs). Discharges from the West End Outlet were limited June 23<sup>rd</sup> through the 25<sup>th</sup> for routine maintenance.

The attached tables contain average daily outlet discharges and water quality results from samples collected from the 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
7/1/13	7/31/13

LOCATION: Benson Co, ND

Devils Lake West Outlet discharged 14,110 ac-ft over 31 Days

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.44	8.59	8.50	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	NA	NA	NA	µS/cm	Continuous	Recorder
SULFATE	528	548	543	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	536	548	543	mg/L	2 x Week	GRAB
OUTLET DISCHARGE	0	264	229	cfs	Continuous	Recorder
SIGNATURE				8/30/13	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
7/1/13	7/31/13

LOCATION: Ramsey, Benson, Nelson, ND

Devils Lake East Outlet discharged 19,722 ac-ft over 31 Days

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.42	8.50	8.47	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	NA	NA	NA	µS/cm	Continuous	Recorder
SULFATE	929	967	946	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	936	967	949	mg/L	2 x Week	GRAB
OUTLET DISCHARGE	252	378	321	cfs	Continuous	Recorder
SIGNATURE				8/30/13	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
7/1/13	7/31/13

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.11	8.26	8.20	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	1,330	1,490	1,387	µS/cm	Continuous	Recorder
SULFATE	285	307	296	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	287	316	298	mg/L	2 x Week	GRAB
FLOW, INSTREAM	110	357	209	cfs	Continuous	Recorder
SIGNATURE				8/30/13	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
7/1/13	7/31/13

LOCATION: Eddy Co, ND

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.07	8.46	8.33	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	1,380	1,740	1,634	µS/cm	Continuous	Recorder
SULFATE	347	465	422	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	340	465	420	mg/L	2 x Week	GRAB
FLOW, INSTREAM	122	581	420	cfs	Continuous	Recorder
SIGNATURE				8/30/13	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
- 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

LOCATION: Nelson Co, ND

MONITORING PERIOD	
START DATE	END DATE
7/1/13	7/31/13

PARAMETER	MINIMUM	MAXIMUM	AVERAGE	UNITS	SAMPLING FREQUENCY	TYPE
pH	8.20	8.41	8.30	SU	2 x Week	GRAB
SPECIFIC CONDUCTANCE	NA	NA	NA	µS/cm	Continuous	Recorder
SULFATE	401	709	583	mg/L	2 x Week	GRAB
7 DAY AVERAGE OF SULFATE	344	709	570	mg/L	2 x Week	GRAB
FLOW, INSTREAM	NA	NA	NA	cfs	Continuous	Recorder
SIGNATURE				8/30/13	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
- 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)
7/1/13	357	1,330	168	14,555,000	398	1,380	252	21,797,000	245	2,830	886	1,260
7/2/13	339	1,340	264	22,795,000	513	1,470	252	21,800,000	245	2,820	824	1,320
7/3/13	324	1,340	261	22,548,000	581	1,530	252	21,778,000	243	2,810	816	1,380
7/4/13	312	1,340	259	22,380,000	568	1,560	252	21,755,000	243	2,810	825	1,430
7/5/13	301	1,370	259	22,417,000	545	1,570	252	21,782,000	242	2,800	834	1,510
7/6/13	288	1,370	260	22,424,000	530	1,590	252	21,786,000	242	2,810	829	1,600
7/7/13	274	1,370	260	22,429,000	515	1,610	252	21,771,000	242	2,810	812	1,710
7/8/13	263	1,380	260	22,430,000	502	1,620	252	21,762,000	240	2,790	810	1,760
7/9/13	259	1,390	260	22,428,000	498	1,620	252	21,743,000	246	2,750	820	1,770
7/10/13	258	1,360	259	22,414,000	491	1,620	252	21,736,000	239	2,750	835	1,790
7/11/13	259	1,390	259	22,413,000	488	1,630	295	25,456,000	274	2,760	841	1,840
7/12/13	247	1,390	260	22,428,000	488	1,630	329	28,408,000	330	2,760	841	1,880
7/13/13	244	1,380	260	22,451,000	481	1,630	329	28,431,000	315	2,740	838	1,890
7/14/13	240	1,370	260	22,460,000	477	1,630	329	28,431,000	318	2,750	832	1,900
7/15/13	229	1,340	260	22,456,000	466	1,640	348	30,037,000	332	2,760	837	1,930
7/16/13	216	1,360	260	22,467,000	460	1,650	347	29,999,000	334	2,780	848	2,000
7/17/13	203	1,380	260	22,467,000	449	1,660	346	29,893,000	329	2,780	852	2,020
7/18/13	194	1,410	223	19,277,000	439	1,680	346	29,898,000	328	2,790	850	2,040
7/19/13	174	1,410	190	16,423,000	379	1,690	348	30,055,000	329	2,800	848	2,060
7/20/13	162	1,400	260	22,436,000	371	1,670	351	30,305,000	328	2,790	849	2,090
7/21/13	151	1,380	259	22,407,000	403	1,720	336	29,000,000	328	2,790	846	2,090
7/22/13	140	1,370	227	19,596,000	407	1,720	364	31,474,000	329	2,780	840	2,150
7/23/13	130	1,370	0	21,000	329	1,730	378	32,690,000	358	-	831	2,170
7/24/13	122	1,360	6	526,000	157	1,620	378	32,649,000	-	-	820	2,180
7/25/13	114	1,350	69	6,004,000	122	1,550	376	32,527,000	353	2,850	800	2,200
7/26/13	116	1,410	260	22,485,000	192	1,580	375	32,410,000	349	2,850	788	2,230
7/27/13	115	1,430	258	22,323,000	343	1,730	375	32,376,000	346	2,780	789	2,270
7/28/13	115	1,490	259	22,394,000	363	1,730	375	32,365,000	341	2,810	785	2,270
7/29/13	114	1,480	257	22,224,000	361	1,730	375	32,377,000	344	2,820	749	2,270
7/30/13	112	1,470	257	22,212,000	357	1,730	358	30,918,000	332	2,820	688	2,330
7/31/13	110	1,460	259	22,362,000	353	1,740	367	31,666,000	337	2,770	648	2,410
<b>Minimum</b>	110	1330	0	21,000	122	1380	252	21,736,000	239	2740	648	1260
<b>Maximum</b>	357	1490	264	22,795,000	581	1740	378	32,690,000	358	2850	886	2410
<b>Average</b>	209	1387	229	19,827,484	420	1634	321	27,712,097	302	2792	816	1927
			<b>Total (ft³)</b>	614,652,000			<b>Total (ft³)</b>	859,075,000				
			<b>Total (Mgal)</b>	4,598			<b>Total (Mgal)</b>	6,426				
			<b>Total (Ac-ft)</b>	14,110			<b>Total (Ac-ft)</b>	19,722				

**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
- NC - Not calculated

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

Date	Time	Specific Conductance USGS Gage (µS/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
7/1/13	-	-	-	-	-	-	-
7/2/13	7:55	1,330	8.11	307	316	NA	7
7/3/13	-	-	-	-	-	-	-
7/4/13	-	-	-	-	-	-	-
7/5/13	-	-	-	-	-	-	-
7/6/13	-	-	-	-	-	-	-
7/7/13	-	-	-	-	-	-	-
7/8/13	-	-	-	-	-	-	-
7/9/13	8:05	1,390	8.21	300	300	32	7
7/10/13	9:22	1,290	8.17	298	299	NA	7
7/11/13	-	-	-	-	-	-	-
7/12/13	-	-	-	-	-	-	-
7/13/13	-	-	-	-	-	-	-
7/14/13	-	-	-	-	-	-	-
7/15/13	-	-	-	-	-	-	-
7/16/13	8:00	1,380	8.21	300	299	NA	7
7/17/13	-	-	-	-	-	-	-
7/18/13	-	-	-	-	-	-	-
7/19/13	9:57	1,380	8.26	285	293	NA	-
7/20/13	-	-	-	-	-	-	-
7/21/13	-	-	-	-	-	-	-
7/22/13	-	-	-	-	-	-	-
7/23/13	8:10	1,360	8.23	289	287	26	7
7/24/13	-	-	-	-	-	-	-
7/25/13	-	-	-	-	-	-	-
7/26/13	-	-	-	-	-	-	-
7/27/13	-	-	-	-	-	-	-
7/28/13	-	-	-	-	-	-	-
7/29/13	-	-	-	-	-	-	-
7/30/13	8:10	1,470	8.24	293	293	NA	7
7/31/13	-	-	-	-	-	-	-
<b>Minimum</b>		1,290	8.11	285	287	26	
<b>Maximum</b>		1,470	8.26	307	316	32	
<b>Average</b>		1,371	8.20	296	298	29	

**Notes:**

µS/cm - Microsiemens per Centimeter at 25 degrees Celsius  
mg/L - Milligrams per liter or parts per million  
NA - Not Analyzed  
USGS specific conductance data courtesy of the USGS  
USGS data are provisional and subject to revision  
Italic font denotes preliminary result





**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
7/1/13	-	-	-	-	-	-
7/2/13	-	-	-	-	-	-
7/3/13	-	-	-	-	-	-
7/4/13	-	-	-	-	-	-
7/5/13	-	-	-	-	-	-
7/6/13	-	-	-	-	-	-
7/7/13	-	-	-	-	-	-
7/8/13	-	-	-	-	-	-
7/9/13	8:15	8.44	548	548	24	7
7/10/13	9:10	8.51	528	538	NA	7
7/11/13	-	-	-	-	-	-
7/12/13	-	-	-	-	-	-
7/13/13	-	-	-	-	-	-
7/14/13	-	-	-	-	-	-
7/15/13	-	-	-	-	-	-
7/16/13	8:20	8.44	544	536	NA	7
7/17/13	-	-	-	-	-	-
7/18/13	-	-	-	-	-	-
7/19/13	9:44	8.59	546	545	NA	7
7/20/13	-	-	-	-	-	-
7/21/13	-	-	-	-	-	-
7/22/13	-	-	-	-	-	-
7/23/13	-	-	-	-	-	-
7/24/13	-	-	-	-	-	-
7/25/13	-	-	-	-	-	-
7/26/13	-	-	-	-	-	-
7/27/13	-	-	-	-	-	-
7/28/13	-	-	-	-	-	-
7/29/13	-	-	-	-	-	-
7/30/13	8:24	8.54	548	548	NA	7
7/31/13	-	-	-	-	-	-
<b>Minimum</b>		8.44	528	536	24	
<b>Maximum</b>		8.59	548	548	24	
<b>Average</b>		8.50	543	543	24	

**Notes:**

mg/L - Milligrams per liter or parts per million

NA - Not Analyzed

Italic 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**

Date	Time	Specific Conductance USGS Gage (µS/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
7/1/13	-	-	-	-	-	-	-
7/2/13	7:30	1,410	8.07	347	340	NA	7
7/3/13	-	-	-	-	-	-	-
7/4/13	-	-	-	-	-	-	-
7/5/13	-	-	-	-	-	-	-
7/6/13	-	-	-	-	-	-	-
7/7/13	-	-	-	-	-	-	-
7/8/13	-	-	-	-	-	-	-
7/9/13	7:30	1,620	8.33	424	424	60	7
7/10/13	9:40	1,620	8.34	425	425	NA	7
7/11/13	-	-	-	-	-	-	-
7/12/13	-	-	-	-	-	-	-
7/13/13	-	-	-	-	-	-	-
7/14/13	-	-	-	-	-	-	-
7/15/13	-	-	-	-	-	-	-
7/16/13	7:40	1,640	8.34	421	423	NA	7
7/17/13	-	-	-	-	-	-	-
7/18/13	-	-	-	-	-	-	-
7/19/13	10:25	1,700	8.46	432	427	NA	7
7/20/13	-	-	-	-	-	-	-
7/21/13	-	-	-	-	-	-	-
7/22/13	-	-	-	-	-	-	-
7/23/13	7:35	1,720	8.33	442	437	52	7
7/24/13	-	-	-	-	-	-	-
7/25/13	-	-	-	-	-	-	-
7/26/13	-	-	-	-	-	-	-
7/27/13	-	-	-	-	-	-	-
7/28/13	-	-	-	-	-	-	-
7/29/13	-	-	-	-	-	-	-
7/30/13	7:45	1,730	8.42	465	465	NA	7
7/31/13	-	-	-	-	-	-	-
<b>Minimum</b>		1,410	8.07	347	340	52	
<b>Maximum</b>		1,730	8.46	465	465	60	
<b>Average</b>		1,634	8.33	422	420	56	

**Notes:**

µS/cm - Microsiemens per Centimeter at 25 degrees Celsius  
mg/L - Milligrams per liter or parts per million  
NA - Not Analyzed  
USGS specific conductance data courtesy of the USGS  
USGS data are provisional and subject to revision  
Italic font denotes preliminary result



**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
7/1/13	-	-	-	-	-	-
7/2/13	9:20	8.46	953	953	NA	7
7/3/13	-	-	-	-	-	-
7/4/13	-	-	-	-	-	-
7/5/13	-	-	-	-	-	-
7/6/13	-	-	-	-	-	-
7/7/13	-	-	-	-	-	-
7/8/13	-	-	-	-	-	-
7/9/13	9:25	8.42	967	967	5	7
7/10/13	11:00	8.47	949	958	NA	7
7/11/13	-	-	-	-	-	-
7/12/13	-	-	-	-	-	-
7/13/13	-	-	-	-	-	-
7/14/13	-	-	-	-	-	-
7/15/13	-	-	-	-	-	-
7/16/13	9:25	8.44	929	939	NA	7
7/17/13	-	-	-	-	-	-
7/18/13	-	-	-	-	-	-
7/19/13	-	-	-	-	-	-
7/20/13	-	-	-	-	-	-
7/21/13	-	-	-	-	-	-
7/22/13	-	-	-	-	-	-
7/23/13	9:30	8.50	939	939	171	7
7/24/13	-	-	-	-	-	-
7/25/13	-	-	-	-	-	-
7/26/13	-	-	-	-	-	-
7/27/13	-	-	-	-	-	-
7/28/13	-	-	-	-	-	-
7/29/13	-	-	-	-	-	-
7/30/13	9:37	8.50	936	936	NA	7
7/31/13	-	-	-	-	-	-
<b>Minimum</b>		8.42	929	936	5	
<b>Maximum</b>		8.50	967	967	171	
<b>Average</b>		8.47	946	949	88	

**Notes:**

mg/L - Milligrams per liter or parts per million  
 NA - Not Analyzed due to operation constraints  
 Italic font denotes preliminary result



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

<b>Date</b>	<b>Time</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>
7/1/13	-	-	-	-	-	-
7/2/13	10:05	8.20	401	344	NA	7
7/3/13	-	-	-	-	-	-
7/4/13	-	-	-	-	-	-
7/5/13	-	-	-	-	-	-
7/6/13	-	-	-	-	-	-
7/7/13	-	-	-	-	-	-
7/8/13	-	-	-	-	-	-
7/9/13	10:00	8.28	573	573	53	7
7/10/13	10:40	8.28	551	562	NA	7
7/11/13	-	-	-	-	-	-
7/12/13	-	-	-	-	-	-
7/13/13	-	-	-	-	-	-
7/14/13	-	-	-	-	-	-
7/15/13	-	-	-	-	-	-
7/16/13	10:00	8.30	615	583	NA	7
7/17/13	-	-	-	-	-	-
7/18/13	-	-	-	-	-	-
7/19/13	-	-	-	-	-	-
7/20/13	-	-	-	-	-	-
7/21/13	-	-	-	-	-	-
7/22/13	-	-	-	-	-	-
7/23/13	10:00	8.33	650	650	59	7
7/24/13	-	-	-	-	-	-
7/25/13	-	-	-	-	-	-
7/26/13	-	-	-	-	-	-
7/27/13	-	-	-	-	-	-
7/28/13	-	-	-	-	-	-
7/29/13	-	-	-	-	-	-
7/30/13	10:05	8.41	709	709	NA	7
7/31/13	-	-	-	-	-	-
<b>Minimum</b>		8.20	401	344	53	
<b>Maximum</b>		8.41	709	709	59	
<b>Average</b>		8.30	583	570	56	

**Notes:**

mg/L - Milligrams per liter or parts per million

NA - Not Analyzed

Italic font denotes preliminary result

