



**Real-Time Water Quality Monitoring Network  
Calibration and Maintenance Schedule  
Tata Steel Minerals Canada**

The water quality probe is periodically removed to undergo necessary maintenance and calibration. Some of these removals are necessary to perform scheduled maintenance while others may be done in response to sudden fouling of the sensors or loss of calibration.

The maintenance/calibration process involves removing the water quality probe from the water body for cleaning, replacement of sensors and fluids, calibration and testing in a temperature-controlled laboratory. This usually takes place over a period of two days but may take longer for specific sites or to address unique problems.

**NF03OB0039 – Elross Creek Below Pinette Lake Inflow**

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
1			06/05/12	19:30		Initial installation after winter months
2	07/15/12	10:25	07/15/12	10:45	Maintenance/Calibration	
3	08/22/12	19:10	08/23/12	18:00	Maintenance/Calibration	
4	09/27/12	11:35	09/27/12	17:30	Maintenance/Calibration	
5	10/25/12	12:15				Removed for winter months
6			06/04/13	13:00		Initial installation after winter months
7	07/03/13	17:45	07/03/13	18:30	Maintenance/Calibration	
8	08/07/13	10:45	08/07/13	11:15	Maintenance/Calibration	
9	09/11/13	11:45	09/11/13	17:00	Maintenance/Calibration	
10	10/08/13	11:50				Removed for winter months
11			06/11/14	15:30		Initial installation after winter months
12	07/16/14	16:00	07/16/14	17:30	Maintenance/Calibration	
13	08/13/14	11:30	08/13/14	12:00	Maintenance/Calibration	

14	09/10/14	11:37	09/10/14	12:00	Maintenance/Calibration	
15	10/06/14	16:45				Removed for winter months
16			06/03/15	14:30		Initial installation after winter months
17	07/08/15	09:30	07/08/15	09:30	Maintenance/Calibration	
18	08/05/15	11:15	08/05/15	11:30	Maintenance/Calibration	
19	09/01/15	14:45	09/01/15	15:00	Maintenance/Calibration	
20	10/06/15	12:00				Removed for winter months
21			06/01/16	11:00		Initial installation after winter months
22	07/06/16	----	07/06/16	18:00	Maintenance/Calibration	
23	08/03/16	14:15	08/03/16	14:45	Maintenance/Calibration	
24	09/07/16	11:10	09/07/16	17:00	Maintenance/Calibration	
25	10/05/16	----				Removed for winter months
26			06/07/17	08:15		Initial installation after winter months
27	07/11/17	17:15	07/11/17	17:30	Maintenance/Calibration	
28	08/09/17	14:40	08/09/17	17:15	Maintenance/Calibration	
29	09/05/17	15:45	09/05/17	16:00	Maintenance/Calibration	
30	10/11/17	11:07				Removed for winter months
31			06/19/18	18:45		Initial installation after winter months
32	07/24/18	17:00	07/24/18	17:40	Maintenance/Calibration	
33	08/29/18	10:30	08/29/18	17:00	Maintenance/Calibration	
34	10/02/18	15:40				Removed for winter months
35			06/12/19	09:30		Initial install after winter
36	07/17/19	09:30	07/17/19	14:40	Maintenance/Calibration	

37	08/20/19	18:00	08/20/19	18:30	Maintenance/Calibration	
38	10/08/19	16:40				Removed for winter
39						



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**NF03OB0040 – Goodream Creek 2km Northwest of Timmins 6**

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
1			06/05/12	14:54		Initial installation after winter months
2	07/14/12	18:00	07/14/12	18:15	Maintenance/Calibration	
3	08/22/12	18:15	08/23/12	14:30	Maintenance/Calibration	
4	09/27/12	10:15	09/27/12	16:10	Maintenance/Calibration	
5	10/25/12	10:40				Removed for winter months
6			06/04/13	11:30		Initial installation after winter months
7	07/03/13	12:15	08/07/13	13:30	Maintenance/Calibration	Flow was too low to deploy the instrument for the

						month of July.
8	09/11/13	10:50	09/11/13	17:30	Maintenance/Calibration	
9	10/08/13	10:45				Removed for winter months
10			06/12/14	10:30		Initial installation after winter months
11	07/16/14	13:00	07/16/14	13:15	Maintenance/Calibration	
12	08/13/14	16:00	09/09/14	14:11		Instrument removed in August and not redeployed until September due to low flow conditions
13	10/06/14	15:30				Removed for winter months
14			06/04/15	10:50		Initial installation after winter months
15	07/09/15	09:00	07/09/15	09:30	Maintenance/Calibration	
16	08/04/15	13:30	08/04/15	13:45	Maintenance/Calibration	
17	09/02/15	12:45	09/02/15	13:10	Maintenance/Calibration	
18	10/06/15	11:00				Removed for winter months
19			05/31/16	16:15		Initial installation after winter months
20	07/06/16	11:55	07/06/16	15:05	Maintenance/Calibration	
21	08/03/16	10:15	08/03/16	10:15	Maintenance/Calibration	
22	09/07/16	10:15	09/07/16	16:00	Maintenance/Calibration	
23	10/04/16	17:50				Removed for winter months
24			06/07/17	11:00		Initial

						installation after winter months
25	07/12/17	14:15	07/12/17	14:30	Maintenance/Calibration	
26	08/09/17	14:00	08/09/17	18:10	Maintenance/Calibration	
27	09/06/17	10:00	09/06/17	10:15	Maintenance/Calibration	
28	10/11/17	08:38				Removed for winter months
29	06/20/18					Station shut down for move to new location

**NF03OB0042 – Joan Brook below Outlet of Joan Lake**

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
1			06/01/16	13:30		Initial installation after winter months
2	07/06/16	10:00	07/06/16	17:40	Maintenance/Calibration	
3	08/02/16	18:30	08/02/16	18:45	Maintenance/Calibration	
4	09/06/16	15:10	09/07/16	09:00	Maintenance/Calibration	
5	10/04/16	16:35				Removed for winter months
6			06/07/17	11:15		Initial installation after winter months
7	07/12/17	0945	07/12/17	10:45	Maintenance/Calibration	
8	08/08/17	14:30	08/09/17	08:45	Maintenance/Calibration	
9	09/06/17	11:45	09/06/17	17:30	Maintenance/Calibration	
10	10/11/17	07:30				Removed for winter months
11			06/20/18	12:20		Initial installation after winter months
12	07/25/18	10:15	07/25/18	10:30	Maintenance/Calibration	
13	08/29/18	08:45	08/29/18	14:45	Maintenance/Calibration	

14	10/02/18	17:15				Removed for winter months
15			06/12/19	10:45		Initial install after winter
16	07/17/19	08:30	07/17/19	13:30	Maintenance/Calibration	
17	08/21/19	13:00	08/21/19	13:45	Maintenance/Calibration	
18	10/09/19	09:50				Removed for winter