Real-Time Water Quality Monitoring Network
Calibration and Maintenance Schedule
NF02ZM0178 – Leary's Brook At Prince Philip Drive

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.

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
1			07/06/04	10:00	Initial Installation	
2	07/13/04	11:00	07/14/04	13:50	Maintenance/Calibration	
3	07/21/04	10:30	07/22/04	13:15	Maintenance/Calibration	
4	07/29/04		07/30/04	13:30	Maintenance/Calibration	
5	08/05/04	08:30			Maintenance/Calibration	The water level was too low to redeploy the instrument
6			08/27/04	16:25	Maintenance/Calibration	The water level rose enough to redeploy the instrument
7	09/08/04	13:15	09/11/04	18:40	Maintenance/Calibration	
8	09/27/04	10:15	09/27/04	18:00	Replace original instrument with loaner instrument for testing	The Datasonde 4a was removed for cleaning; the Datasonde 4x (loaner) was deployed for testing the same day
9	10/05/04	11:30	10/05/04	11:50	Replace loaner instrument with original instrument	The Datasonde 4x was removed for cleaning and return to manufacturer; the Datasonde 4a was deployed the same

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
						day
10	10/20/04	16:00	10/27/04	14:00	Maintenance/Calibration	The instrument was out for a longer period because it was being used in a training course
11	11/10/04	15:40	11/15/04	14:15	Maintenance/Calibration	
12	12/01/04	16:28	02/04/05	14:42	Maintenance/Calibration	
13	02/15/05	14:50	02/16/05	14:30	Maintenance/Calibration	
14	02/22/05	14:50	03/07/05	12:35	Maintenance/Calibration	
15	03/16/05	16:10	03/17/05	16:50	Maintenance/Calibration	
16	03/24/05	11:10	03/28/05	13:40	Maintenance/Calibration	
17	04/11/05	11:55	04/16/05	16:40	Maintenance/Calibration	
18	04/26/05	13:50	04/27/05	10:40	Maintenance/Calibration	
19	05/05/05	9:55	05/05/05	15:25	Maintenance/Calibration	
20	06/06/05	10:55	06/07/05	14:15	Maintenance/Calibration	
21	06/16/05	14:30	06/17/05	11:25	Maintenance/Calibration	
22	06/27/05	14:25	06/28/05		Maintenance/Calibration	
23	07/07/05	14:20	07/08/05	15:40	Maintenance/Calibration	
24	07/18/05	13:20	07/20/05	14:45	Maintenance/Calibration	
25	08/01/05	08:00	08/01/05	11:30	Maintenance/Calibration	
26	08/12/05	15:30	08/14/05	12:20	Maintenance/Calibration	
27	08/24/05	13:45	11/21/05	16:20	Servicing	The Datasonde would not calibrate properly thus was sent to Manufacturer for servicing
28	12/09/05	13:50	12/10/05	15:25	Maintenance/Calibration	
29	12/19/05	15:30	12/20/05	15:50	Maintenance/Calibration	
30	01/03/06	14:35	01/04/06	15:10	Maintenance/Calibration	
31	01/11/06	15:20	01/12/06	15:20	Maintenance/Calibration	
32	01/25/06	16:00	01/26/06	16:30	Maintenance/Calibration	
33	02/08/06	15:30	02/09/06	15:50	Maintenance/Calibration	
34	02/16/06	15:35	02/17/06	15:15	Maintenance/Calibration	
35	02/23/06	15:20	02/24/06	15:00	Maintenance/Calibration	
36	03/06/06	11:30	03/07/06	16:20	Maintenance/Calibration	
37	03/16/06	15:35	03/17/06	14:55	Maintenance/Calibration	
38	04/18/06	14:30	04/25/06	10:15	Maintenance/Calibration	
39	05/08/06	12:10	05/08/06	12:10	Maintenance/Calibration	
40	06/08/06	12:30	06/08/06	17:20	Maintenance/Calibration	
41	06/28/06	14:10	06/30/06	12:15	Maintenance/Calibration	

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
42	08/08/06	13:55	08/08/06	16:55	Maintenance/Calibration	
43	09/08/06	15:50	09/11/06	13:30	Maintenance/Calibration	
44	10/10/06	15:45	10/11/06	16:15	Maintenance/Calibration	
45	11/24/06	14:55	11/24/06	15:15	Maintenance/Calibration	
46	12/19/06	11:40	04/03/07	10:00	Maintenance/Calibration	
47	05/09/07	10:30	05/10/07	11:40	Maintenance/Calibration	Data gap for several days due to malfunctioning data cable. Cable replaced May 31 and transmissions resumed
48	06/04/07	16:00	06/05/07	11:20	Maintenance/Calibration	
49	07/13/07	12:21	07/19/07	15:37	Maintenance/Calibration	
50	08/28/07	12:00	08/30/07	16:24	Maintenance/Calibration	
51	09/24/07	09:38	09/26/07	11:30	Maintenance/Calibration	
52	10/19/07	08:34	10/25/07	15:15	Maintenance/Calibration	
53	11/20/07	10:57	11/23/07	12:25	Maintenance/Calibration	Turbidity sensor didn't calibrate
54	12/06/07	11:00	12/07/07	16:18	Maintenance/Calibration	
55	01/10/08	11:15	01/23/08	16:30	Maintenance/Calibration	Side by side comparison conducted in lab with hydrolab and YSI probes Jan 11-22.
56	02/18/08	1600	02/27/08	15:00	Maintenance/Calibration	Data gap due to lab comparisons with YSI probe
57	03/25/08	1130	03/26/08	1600	Maintenance/Calibration	QAQC with minisonde
58	07/03/08	1100	07/03/08	1115	Maintenance/Calibration	Remove Eastern back-up#1; replace with Learys Bk hydrolab
59	08/27/08	1100	08/27/08	1115	Maintenance/Calibration	Remove Learys Bk hydrolab; replace with Eastern back-up#2
60	09/23/08	14:45	09/23/08	14:45	Maintenance/Calibration	Remove Eastern back-up#2 (45036); Reinstall Learys Bk (43679)
61	10/31/08	14:30	10/31/08	14:30	Maintenance/Calibration	Remove Leary's

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
						Bk hydrolab (s/n 43679); replace hydrolab s/n 45271
62	11/07/08	14:22	11/07/08	14:30	Maintenance/Calibration	Remove hydrolab s/n 45271 due to problem with turbidity sensor; replace Eastern back-up#2 (45036)
63	12/03/08	15:30	12/03/08	15:30	Maintenance/Calibration	Remove Eastern #2 hydrolab s/n 45036; replace Leary's Bk hydrolab s/n 43679) NOTE: s/n 45036 was redeployed on December 9 due to turbidity issues with s/n 43679.
64	01/29/09					Pipe frozen solid in ice; unsuccessful attempt to remove instrument; will be removed for calibration when weather improves.
65	03/25/09	12:45	03/25/09	12:45	Maintenance/Calibration	Removed s/n 45036 and replaced with s/n 44975
66	04/22/09	15:15	04/22/09	15:15	Maintenance/Calibration	Removed s/n 44975 and replaced with s/n 46319 (BGA probe).
67	05/22/09	15:15	05/22/09	16:10	Maintenance/Calibration s/n 46319 had turbidity sensor issues	Removed s/n 46319 (BGA probe) due to fault with turbidity recording. Replaced with s/n

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
						43679.
68	06/02/09		06/02/09			Removed s/n 43679 due to turbidity issues; replaced with s/n 44975
69	07/17/09	12:15	07/17/09	15:45	Maintenance/Calibration s/n 43679 had turbidity sensor issues	Removed s/n 44975; cleaned and calibrated the instrument and returned s/n 44975 to the river
70	09/16/09	10:30	09/16/09	15:00	Maintenance/Calibration	Removed s/n 44975; cleaned and calibrated the instrument and returned s/n 44975 to the river
71	10/23/09	9:30	10/23/09	15:30	Maintenance/Calibration	Removed s/n 44975; cleaned and calibrated the instrument and returned s/n 44975 to the river
72	11/20/09	10:50	11/20/09	13:40	Maintenance/Calibration	Removed s/n 44975; cleaned and calibrated the instrument and returned s/n 44975 to the river
73	01/08/10	11:20	01/08/10	14:13	Maintenance/Calibration	Removed s/n 44975; cleaned and calibrated the instrument and returned s/n 44975 to the river
74	02/23/10	09:30	02/23/10	14:30	Maintenance/Calibration	Removed s/n 44975; cleaned and calibrated the instrument and returned s/n 44975 to the river
75	05/11/10	11:00	05/11/10	13:23	Maintenance/Calibration	Removed s/n

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
						44975; cleaned and calibrated the instrument and returned s/n 44975 to the river
76	06/16/10	11:00	06/16/10	12:32	Maintenance/Calibration	Removed s/n 44975; replaced with the QAQC sonde s/n 46319 (because original sonde was not functioning properly)
77	07/14/10	09:50	07/14/10	12:20	Maintenance/Calibration	Removed s/n 46319; cleaned and calibrated the instrument and returned s/n 46319 to the river
78	08/11/10	10:15	08/11/10	10:15	Maintenance/Calibration	Returned original instrument (SN 44975) to the river
79	09/08/10	11:15	09/08/10	14:00	Maintenance/Calibration	Instrument (SN 44975) was placed in the river; deployment shortened due to Hurricane Igor
80	09/22/10		10/01/10	3:00		
81	10/27/10	10:45	10/27/10	12:50	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
82	11/19/10	12:00	11/19/10	15:45	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
83	12/15/10	10:25	12/15/10	12:05	Maintenance/Calibration	
84	01/19/11	11:55	01/19/11	15:30	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
85	02/23/11		02/23/11	12:40	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
86	03/30/11	9:27	03/30/11	14:10	Maintenance/Calibration	Instrument (SN 44975) was placed

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
						in the river
87	04/27/11	11:30	04/27/11	13:50	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
88	06/15/11	10:55	06/15/11	11:15	Maintenance/Calibration	
89	07/19/11	10:40	07/19/11	10:30	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
90	08/10/11	9:59	08/10/11	14:00	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
91	08/26/11	10:00	08/26/11	13:38	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
92	10/05/11	11:20	10/05/11	14:45	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
93	11/02/11	10:25	11/02/11	13:30	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
94	12/14/11	11:00	12/14/11	14:00	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
95	02/15/12	9:45	02/15/12	12:15	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
96	03/28/12	10:00	03/28/12	11:10	Maintenance/Calibration	Instrument (SN 43679) was placed in the river
97	04/25/12	10:30	04/25/12	14:20	Maintenance/Calibration	Instrument (SN 43679) was placed in the river
98	06/12/12	12:30	06/12/12		Maintenance/Calibration	Instrument (SN 43679) was placed in the river
99	08/07/12	09:20	08/07/12	13:58	Maintenance/Calibration	Instrument (SN 45271) was placed in the river
100	10/12/12	09:30	10/12/12	14:10	Maintenance/Calibration	Instrument (SN 45271) was placed in the river
101	11/23/12	09:30	11/23/12	12:45	Maintenance/Calibration	Instrument (SN 45271) was placed

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
						in the river
102	01/30/13	10:25	01/30/13	11:05	Maintenance/Calibration	Instrument (SN 43679) was placed in the river
103	02/26/13	10:30	02/26/13	14:25	Maintenance/Calibration	Instrument (SN 45036) was placed in the river
104	03/21/13	09:51	03/21/13	12:14	Maintenance/Calibration	Instrument (SN 45271) was placed in the river
105	04/24/13	11:00	04/24/13	14:52	Maintenance/Calibration	Instrument (SN 45271) was placed in the river
106	05/30/13	11:46	05/30/13	16:20	Maintenance/Calibration	Instrument (SN 45271) was placed in the river
107	07/04/13	12:24	07/04/13	12:48	Maintenance/Calibration	Instrument (SN 45036) was placed in the river
108	07/31/13	15:00	07/31/12	15:10	Maintenance/Calibration	Instrument (SN 45271) was placed in the river
109	08/27/13	11:40	08/27/13	15:15	Maintenance/Calibration	Instrument (SN 45271) was placed in the river
110	10/02/13	10:50	10/02/13	14:50	Maintenance/Calibration	Instrument (SN 45271) was placed in the river
111	10/30/13	12:42	10/30/13	13:09	Maintenance/Calibration	Instrument (SN 46323) was placed in the river
112	11/21/13	10:03				
113			01/14/14	12:26	Maintenance/Calibration	Instrument (SN 46319) was placed in the river
114	03/12/14	09:45	03/12/14	12:00	Maintenance/Calibration	Instrument (SN 46319) was placed in the river
115	05/14/14	09:47	05/14/14	14:44	Maintenance/Calibration	Instrument (SN 46319) was placed in the river

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
116	06/16/14	10:32	06/17/14	13:15	Maintenance/Calibration	Instrument (SN 46319) was placed in the river
117	08/07/14	12:55	08/07/14	11:45	Maintenance/Calibration	Instrument (SN 46319) was placed in the river
118	09/16/14	09:34	09/16/14	10:45	Maintenance/Calibration	Instrument (SN 46319) was placed in the river
119	10/23/14	13:45	10/23/14	14:11	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
120	11/26/14	09:35	11/26/14	13:23	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
121	01/21/15	10:40	01/21/15	15:40	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
122	03/04/15	13:05	03/05/15	9:00	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
123	04/14/15	10:15	04/15/15	10:50	Maintenance/Calibration	Instrument (SN 44975) was placed in the river
124	06/15/15	09:10	06/15/15	13:10	Maintenance/Calibration	
125	07/16/15		07/16/15	12:45	Maintenance/Calibration	Instrument (SN 65918) was placed in the river
126	08/17/15	13:15	08/17/15	13:15	Maintenance/Calibration	Instrument (SN 65918) was removed; instrument (SN 60392) was replaced
127	09/22/15	14:15	09/23/15	11:30	Maintenance/Calibration	Instrument (SN 60392) was removed; instrument (SN 60392) was replaced
128	10/20/15	13:30	10/21/15	09:30	Maintenance/Calibration	Instrument (SN 60392) was removed;

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
						instrument (SN 60392) was replaced
129	11/20/15	12:45	11/20/15	14:30	Maintenance/Calibration	Instrument (SN 60392) was removed; instrument (SN 60392) was replaced
130	12/17/15	11:45	12/17/15	13:30	Maintenance/Calibration	Instrument (SN 60392) was removed; instrument (SN 60392) was replaced
131	01/18/16	11:45	01/18/16	13:25	Maintenance/Calibration	Instrument (SN 60392) was removed; instrument (SN 60392) was replaced
132	02/22/16	09:45	02/23/16	12:00	Maintenance/Calibration	Instrument (SN 60392) was removed; instrument (SN 46319) was replaced
133	03/30/16	12:15	03/30/16	14:00	Maintenance/Calibration	Instrument (SN 46319) was removed; instrument (SN 46319) was replaced
134	05/12/16	11:40	05/12/16	14:15	Maintenance/Calibration	Instrument (SN 46319) was removed; instrument (SN 46319) was replaced
135	06/15/16	13:53	06/15/16	15:30	Maintenance/Calibration	Instrument (SN 46319) was

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
						removed; instrument (SN 46319) was replaced
136	07/26/16	12:15	07/26/16	13:30	Maintenance/Calibration	Instrument (SN 46319) was removed; instrument (SN 46319) was replaced
137	09/15/16	14:00	09/15/16	15:45	Maintenance/Calibration	Instrument (SN 46319) was removed; instrument (SN 46319) was replaced
138	10/17/16	11:45	10/17/16	14:30	Maintenance/Calibration	Instrument (SN 46319) was removed; instrument (SN 46319) was replaced
139	11/29/16	09:30	11/29/16	09:30	Maintenance/Calibration	Instrument (SN 46319) was removed; instrument (SN 46319) was replaced but encountered issues and was replaced with instrument (SN 44975)
140	01/12/17	11:35	01/12/17	14:00	Maintenance/Calibration	Instrument (SN 44975) was removed; instrument (SN 44975) was replaced
141	02/28/17	11:50	02/28/17	14:20	Maintenance/Calibration	Instrument (SN 44975) was removed; instrument (SN 44975) was replaced

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
142	04/05/17	11:30	04/05/17	12:45	Maintenance/Calibration	Instrument (SN 44975) was removed; instrument (SN 44975) was replaced
143	05/17/17	11:45	05/17/17	14:05	Maintenance/Calibration	Instrument (SN 44975) was removed; instrument (SN 44975) was replaced
144	06/30/17	11:55	06/30/17	14:25	Maintenance/Calibration	Instrument (SN 44975) was removed; instrument (SN 44975) was replaced
145	08/14/17	11:35	08/14/17	14:02	Maintenance/Calibration	Instrument (SN 44975) was removed; and replaced with 6227
146	09/14/17	10:02	09/14/17	14:32	Maintenance/Calibration	Instrument 6227 was removed and replaced
147	10/19/17	13:45	10/19/17	15:30	Maintenance/Calibration	Instrument 6227 was removed and replaced
148	11/21/17	13:17	11/21/17	15:02	Maintenance/Calibration	Instrument 6227 was removed and replaced
149	12/6/17		12/6/17		Failed turbidity sensor	Instrument 6227 was removed and replaced with 46323
150	12/27/17	13:15	12/28/17	11:2002	Maintenance/calibration	46323 was removed and replaced with 43820.
151	02/01/18	09:35	02/01/18	12:15	Maintenance/calibration	43820 was removed calibrated and replaced
152	03/09/18	11:50	03/09/18	13:55	Maintenance/calibration	43820 was

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
						removed calibrated and replaced
153	03/16/18	09:50	03/16/18	09:50	Maintenance/calibration	43820 was removed for annual maintenance and replaced with 43793
154	04/18/2018	0900	04/18/18	14:15	Maintenance calibration	43793 was removed, calibrated and placed back into Leary's Brook.
155	05/15/2018	12:00	05/15/2018	15:20	Maintenance calibration	43793 was removed, calibrated and placed back into Leary's Brook.
156	07/05/2018	11:55	07/05/2018	15:20	Maintenance calibration	43793 was removed, calibrated and placed back into Leary's Brook.
157	08/31/2018	09:05	08/31/2018	15:20	Maintenance calibration	43793 was removed, calibrated and placed back into Leary's Brook.
158	10/04/2018	09:35	10/04/2018	12:10	Maintenance calibration	43793 was removed, calibrated and placed back into Leary's Brook.
159	12/18/2018	09:10	12/18/2018	12:30	Maintenance calibration	43793 was removed, calibrated and placed back into Leary's Brook
160	02/28/2019	11:45	02/28/2019	15:00	Maintenance calibration	43793 was

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
						removed, calibrated and placed back into Leary's Brook
161	04/03/2019	09:25	04/03/19	13:40	Maintenance calibration	43793 was removed, calibrated and redeployed
162	04/24/2019	09:25	04/24/19	13:00	Maintenance calibration	43793 removed 46323 deployed
163	06/04/19	11:10	06/04/19	12:45	Maintenance calibration	46323 was removed calibrated and redeployed
164	07/24/19	13:50	07/24/19	15:05	Maintenance calibration	46323 was removed calibrated and redeployed
164	09/04/19	14:00	09/04/19	16:00	Maintenance calibration	46323 was removed and 62277 was calibrated and deployed
165	10/17/19	09:45	10/17/19	12:15	Maintenance calibration	62277 was removed, calibrated and redeployed
166	11/18/19	15:30	11/18/19	16:00	Maintenance calibration	62277 was removed calibrated and redeployed
167	01/15/2020	10:30	01/15/20	14:40	Maintenance calibration	62277 was removed calibrated and redeployed
168	03/04/2020	10:47	03/04/2020	11:15	Maintenance calibration	6227 was removed, 46323 was deployed
169	04/30/2020	9:15	04/30/2020	10:45	Maintenance Calibration	46323 was removed, calibrated and redeployed

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time instrument was reinstalled (mm/dd/yy)		Reason	Remarks
170	06/17/2020	08:47	06/17/2020	12:45	Maintenance and calibration	46323 removed and redeployed
171	07/31/2020	11:15	07/31/2020	13:45	Maintenance and calibration	43793 removed; 43793 redeployed
172	09/16/2020	11:15	09/16/2020	13:45	Maintenance and calibration	43793 removed; 43793 redeployed
173	11/03/2020	10:02	11/03/2020	14:32	Maintenance and calibration	43793 removed; 43793 redeployed
174	12/29/2020	09:50	12/29/2020	13:45	Maintenance and calibration	43793 removed; 43793 redeployed
175	02/10/2021	12:15	02/10/21	15:17	Maintenance and calibration	43793 removed; 43793 redeployed