

\* - Denotes mirror cleaning

DATE	LOCATION	USER	GAS TEMP	GAS PRESSURE	LASER A $\tau$	LASER B $\tau$	NOTES
8/22/18	1014 A Derrin	RPM	19.56°C	140.32 Torr	10.88 $\mu$ s	11.80 $\mu$ s	Lenses just cleaned
8/23/18	Mount Farms	ERH	23.21	140.21	10.87	11.80	N/A
8/26/18	Prices Park	ERH	21.03	140.20	10.86	11.83	N/A
8/31/18	Derrin	RPM	23.00	140.34	10.86	11.83	-
9/3/18	CCR	MAG	24.10	140.36	10.81	11.78	-
9/17/18	FCR	MEL	23.09	140.31	10.84	11.87	-
9/21/18	BVR	RPM	21.13	140.29	10.84	11.87	NONE
9/22/18	1082 Derr	MTG	22.94	140.32	10.84	11.87	12:45 ~
9/24/18	FCR	RPM	22.41	140.35	10.84	11.87	0940 - 1140
9/28/18	1082 Derr	RPM	23.66	140.36	10.82	11.86	40 minutes
10/1/18	FCR	RPM	23.36	140.35	10.85	11.87	10:00 - 12:00
10/5/18	BVR	RPM	23.81	140.28	10.84	11.87	13:38 - 13:54
10/8/18	FCR	RPM	23.48	140.33	10.84	11.87	0930 - 11:39
10/12/18	1082 Derr	MTG	23.09	140.21	10.84	11.87	16:21 - 16:40
10/15/18	FCR	RPM	21.19	140.37	10.84	11.87	10:00 - 12:10
10/19/18	BVR	MEL	21.60	140.35	10.85	11.87	12:50 - 13:15
10/22/18	FCR	KJF	18.60	140.36	10.84	11.88	10:05 - 12:02
10/29/18	FCR	RPM	21.40	140.38	10.83	11.88	0944 - 12:00
11/2/18	CCR	MAG	22.54	140.31	10.83	11.87	12:50 - 13:10
11/16/18	1082 Derr	MTG	22.8°C	140.27	10.84	11.87	iPad not on charge
11/16/18	1082 Derr	MTG	22.84°C	140.12	10.84	11.87	~ 20 mins
11/19/18	1082 Derr	MTG	22.53°C	140.12	10.83	11.87	~ 20 mins
11/20/18	1082 Derr	MTG	22.73°C	140.12	10.84	11.87	~ 20 mins
11/22/18	1082 Derr	MTG	22.64	140.19	10.84	11.87	~ 20 mins
11/28/18	1082 Derr	MTG	22.27	140.16	10.84	11.87	12:36 - 13:02
11/9/19	1082 Derr	MTG	21.28	140.22	10.84	11.87	90 min. 18
11/16/19	1082 Derr	BND	21.35	140.28	10.84	11.87	14:45 - 14:55
2/18/19	1082 Derr	KAB	21.32	140.28	10.84	11.87	~ 30 min
3/21/19	1082 Derr	BND	21.01	140.30	10.84	11.87	~ 15 min
3/22/19	Poverty Crk	KAB	21.12	140.17	10.84	11.87	~ 45 min
3/29/19	Pov Crk	KAB	23.66	140.3	10.84	11.87	~ 1 hr
4/7/19	1082 Derr	MTG	20.70	139.97	10.81	11.87	*Pressure back to 140 after 1 rep
4/27/19	Blue Room	RPM	20.50	140.30	10.81	11.87	0910 - 11:33
4/29/19	Duck Pond	RPM	24.55	140.39	10.81	11.87	10:15 - 11:03
5/20/19	FCR	RPM	23.62	140.38	10.81	11.81	1104 - 11:20
5/27/19	FCR	MEL	Sorry - we forgot notebook				13:00 - 13:20
6/6/19	FCR	RPM	22.53	140.36	10.81	11.82	10:15 -
6/3/19	FCR	RPM	25.34	140.32	10.83	11.87	1900 - 1500
6-10-19	FCR	RPM	22.33	140.32	10.82	11.87	1300 - 13:18
6-12-19	Poverty Crk	KAB	22.34	140.28	10.82	11.88	1 hr
6-17-19	FCR	ASL	20.12	140.27	10.82	11.87	11:15 - 11:30
6-19-19	Poverty Crk	KAB	20.93	140.16	10.81	11.87	9 - 11:30
6-19-19	Derrin	FAB/RPM	20.88	140.32	10.82	11.87	1300 -
6-29-19	FCR	HLW	26.54	140.29	10.82	11.87	10:37 - 10:50

Approx hrs used

\* used

16 hrs

~ 3 hrs

~ 1 hrs

~ 2 hrs

~ 3 hrs

1300 - 1345

1:20

2 hrs

2 hours

20 minutes

2:15 hrs

?

?

?

25 min

~ 2 hrs

~ 2.25 hrs

~ 20 min

when 20 min starting use

replaced 3 hydrophobic filters

~ 45 min

had filters they were wet

~ 20 min

DATE	LOCATION	USER	GAS TEMP	GAS PRESSURE	LASER A $\tau$	LASER B $\tau$	NOTES
6/25	Comuta	KAB	21.13	140.32	10.81	11.88	
6/27	"	"	27.54	"	10.82	11.87	
7/1	FCR	RPM	28.7	140.33	10.81	11.86	
7/8	FCR	ASL	26.65	140.39	10.82	11.86	13:14 - 13:27
7/15	FCR	ASL	24.6	140.34	10.81	11.86	10:39 - 11:00
7/22	FCR	HLW	23.14	140.36	10.81	11.86	11:10 - 11:2
7/29	FCR	RPM	22.54	140.40	10.81	11.86	10:23 - 11:00
8/26-27	Comuta	KAB	20.9	140.25	10.82	11.87	10 hrs
8/31	Powerty Ck	KAB	22.18	140.25	10.81	11.69	3 hrs
8/5	FCR	JHW	25.05	140.28	10.81	11.68	11:21 - 11:50
8/7	Powerty Ck	KAB	22.04	140.27	10.82	11.69	10:40 - 1 pm
8/9	1082	KAB	21.06	140.34	10.81	11.69	9:35 - 10 am
8/21	Comuta	KAB	21 - 24	140.31	10.81	11.67	4 hrs
9/12	FCR	HLW	23.34	140.30	10.81	11.71	10:38 - 10:50
9/11	FCR	ASL + RPM	20.74	140.36	10.81	11.70	12:47 - 13:24
9/20	FCR	RPM	22.62	140.37	10.81	11.69	13:16 - 13:34
9/23	PM	KAB	28.21	140.24	10.82	11.7	30 min
10/22	FCR	BSB	21.48	140.37	10.81	11.68	15:30 - 16:00 hrs

\* Note: Towel  
thermal test turned  
off water at  
13:20  
On water:  
12:58  
Off water:  
13:09  
on water:  
13:13 \*  
Off water:  
13:22





EDT  
RST ↓

NOTE: Manually  
reset the  
to today's date &  
time

Fixed  
voltage  
peaks  
CH<sub>4</sub> now  
works  
RPM

DATE	LOCATION	USER	GAS TEMP	GAS PRESSURE	LASER A t	LASER B t	NOTES
25 AUG 19	FCR	BTB + AGH	29.31	140.32	10.82	11.70	dropped data sheet in water, retrieved 15:25-16:01
11 Sep 19	FCR	ASL	28.65	140.34	10.81	11.68	
16 Oct 19	FCR	ASL	16.24	140.42	10.80	11.69	
23 Oct 19	FCR	ASL	14.74	140.55	10.81	11.71	
25 Oct 19	FCR	BB					
28 Oct 19	FCR	BB	20.88	140.34	10.81	11.69	13:20 - 13:55
28 Oct 19	BVR	BB	22.87	140.38	10.81	11.69	15:30 - 16:10
30 Oct 19	FCR	ASL	17.84	140.36	10.81	11.70	10:14
4 Nov 19	FCR	BB	19.40	140.32	10.81	11.70	11:23 - 11:48
6 Nov 19	Derring	SP	21.27	140.26	10.80	11.69	14:02 - 14:55
8 Nov 19	Pvy	KPY	19.16	140.31	10.81	11.69	11:00 - 12:30
11 Dec 19	Pvy	KPY	13.5	140.3	10.8	11.68	11:30 - 15:00
11 Feb 20	Pvy	KPY	18.2	140.29	10.26	11.57	12 - 1:30
22 Jun 20	FCR	ASL	25.02	140.31	10.26	11.58	10:50 - 11:10
29 Jun 20	FCR	HLW, ASL			10.26	11.57	12:30 - 13:30
30 Jun 20	Bburg	ASL	25.14	140.32	10.26	11.58	1:00 - 2:50
1 Jul 20	Bburg	ASL	worked 1st time, second time			H <sub>2</sub> O = -0.1	
2 Jul 20	Bburg	AGH	24.42	140.36	10.24	11.50	2:20 - 2:40 →
2 Jul 20	Bburg	AGH	26.01	140.32	10.22	11.48	4:00 - 4:07
2 Jul 20	Bburg	AGH	26.20	140.29	10.23	11.49	4:10 - 4:15
* Turned off URMIA and re-started to check time.							
3 NOTE: date and time appeared to note! Will check again on Monday AGH							
5 Jul 20	FCR	AGH	27.67	140.33	10.27	11.58	13:18 - 13:51
8 Jul 20	acm	AGH	Downloaded data ONLY!				
20 Jul 20	FCR	ASL	33.38	140.36	10.25	11.57	11:05 - 11:30
27 Jul 20	FCR	ASL	26.80	140.35	10.25	11.56	10:00 - 10:15
10 Aug 20	FCR	HLW	34.13	140.37	10.26	11.56	13:20 - 13:50
24 Aug 20	FCR	AGH	25.46	140.34	10.24	11.55	12:33 - 13:00
25 Oct 20	FCR	AGH	31.16	140.36	10.13	11.53	12:38 - 13:02
11 Sep 20	FCR	HLW	22.06	140.38	10.11	11.55	8:07 - 8:31
3 Oct 20	FCR	AGH	18.06	140.47	10.14	11.55	11:29 - 12:00
18 Apr 21	FCR	RPM	19.93	140.38	10.13	11.55	1:00 - 12:00
19 Apr 21	Derring	RPM	23.12	140.31	10.19	11.59	13:00 - 14:00
20 Apr 21	FCR	AGH	22.15	140.46	10.17	11.54	13:55 - 14:30
MAINTENANCE							
28 APR 21	Derring	ABP/ASL		CLEANED MIRRORS	4.74	3.82	Cleaned mirrors
					3.45	3.38	cleaned mirrors
					3.72	3.02	cleaned mirrors
10 JUN 22	Derring	ABP	29.14	140.35	3.73	3.07	
13 JUN 22	BVR	ABP					at Reservoir
07 Feb 23	FCR	ASL					Probe test analytical lab
01 Mar 23	Derring	ABP					started at 11:16am
12 Apr 23	BVR	CEW	19.71	140.38	12.03	10.92	

2x water for twice for 25m  
on note  
15:40 - 16:05  
the time  
on twice 5m  
11:29 11:41

data not work  
CH<sub>4</sub> = 0  
could not  
connect on  
3rd try

URMIA is  
reading  
05-22-02  
as two data?  
Approach to do  
time starting  
in 2020!

only did in  
on 06 for 5mm

CH<sub>4</sub> reading  
-0.01  
?

Need to  
clean  
mirrors  
against  
-ABP  
New Churn  
no change

If UGGA doesn't turn on  $\rightarrow$  check cord

[illegible]

4 Waste  
4 Ube  
28 unplugs  
until  
13:23

10:30  
start  
12:00 start



	DATE	LOCATION	USER	GAS TEMP	GAS PRESSURE	LASER A t	LASER B t	NOTES
0036	26 Jun 23	BVR	HLW	22.74	140.51	12.01	10.93	
0038	26 Jun 23	FCR	HLW	31.89	140.46	12.02	10.91	
0040	27 Jun 23	BVR	HLW	24.64	140.41	12.00	10.90	
0041	27 Jun 23	FCR	RLK	30.49	140.48	12.00	10.89	
0042	10 Jul 23	BVR	CEW	23.33	140.47	12.02	10.92	hard to get CO <sub>2</sub> base line,
0043	10 Jul 23	FCR	RLK	27.59	140.49	12.01	10.91	1
0045	14 Jun 23	DMV	CLL	26.84	140.39	12.02	10.90	
0046/47	18 Jun 23	DMV	CLL	34.12	140.51	12.02	10.91	
0050	24 Jul 23	FCR	RLK	25.52	140.41	12.02	10.91	hard to get CO <sub>2</sub> baseline! did
0051	24 Jul 23	BVR	CEW	31.21	140.40	12.01	10.91	top of septum broken, 3 rps
0052	31 Jul 23	FCR	MM	29.85	140.49	12.01	10.89	hard to get CO <sub>2</sub> baseline
0053	7 Aug 23	FCR	ASL	23.71	140.49	12.02	10.91	
0054	7 Aug 23	BVR	ASL	27.24	140.46	12.01	10.88	messy CO <sub>2</sub> base line
0055	14 Aug 23	BVR	HLW	24.03	140.48	12.02	10.89	thru bed off pond on ly
0056	14 Aug 23	BVR	HLW	24.41	140.46	12.02	10.90	
0057	14 Aug 23	FCR	EMT	32.15	140.50	12.01	10.89	
0058	22 Aug 23	BVR	ABP	25.57	140.43	12.01	10.89	
0059	22 Aug 23	FCR	ABP	32.80	140.46	12.01	10.88	@ 13:39
0060	5 Sep 23	BVR	KKH	27.35	140.48	12.01	10.89	@ 11:06
0061	5 Sep 23	FCR	KKH	35.59	140.36	12.02	10.90	@ 13:37
0062	12 Sep 23	BVR	ABP	26.64	140.43	12.01	10.80	@ 11:00
0063	12 Sep 23	FCR	KKH	30.82	140.44	12.01	10.88	@ 13:24
0064	15 Sep 23	FCR	ABP	23.49	140.45	11.78	10.90	@ 11:23 site 10 by wetland
0065	15 Sep 23	FCR inflow						@ 11:40 inflow w/ wind
0066	15 Sep 23	FCR saw						@ 11:55 on saw grass
0067	18 Sep 23	BVR	DWH	20.47	140.48	12.01	10.90	
0068	18 Sep 23	FCR	DWH	23.16	140.38	12.01	10.88	
0069	25 Sep 23	BVR FCR	CEW	20.67	140.55	11.99	10.90	@ 11:41
0070?	26 Sep 23	BVR	ABP	18.79	140.50	12.01	10.91	@ 10:55
0074	30 Oct 23	BVR	KKH	21.77	140.55	12.02	10.92	@ 10:55 disconnected power
0075	30 Oct 23	BVR	KKH	22.70	140.46	12.01	10.91	@ 11:07
0076	30 Oct 23	FCR	ASL	27.72	140.46	12.02	10.91	@ 13:00 1.6m Secchi
0077	30 Oct 23	BVR	HLW	15.41	140.48	11.99	10.92	10:52
0078	30 Oct 23	FCR	DWH	16.98	140.55	12.02	10.90	12:25 - 1st peak
0079	17 Oct 23	FCR	KKH	16.43	140.47	12.02	10.92	13:47 (17:15) 2nd
0080	24 Oct 23	BVR	KKH	15.47	140.55	12.01	10.91	11:12
0081	24 Oct 23	FCR	KKH	22.83	140.55	12.02	10.91	14:03
0082	31 Oct 23	BVR	KKH	14.29	140.58	11.97	10.94	11:35
0083	31 Oct 23	FCR	KKH	12.80	140.56	12.02	10.93	13:15
0084	6 Nov 23	BVR	ASL	19.14	140.55	12.02	10.93	11:15
0085	6 Nov 23	FCR	HLW	18.99	140.47	12.02	10.91	12:35
0086	14 Nov 23	BVR	ASL	17.41	140.45	12.02	10.93	11:23
0087	14 Nov 23	FCR	ASL					13:05
0088	4 Dec	BVR	HLW	15.07	140.52	12.02	10.94	10:59

23

3X for UGGA Fluv bc weird CH<sub>4</sub> spike in #2

[illegible]