

Stn X23

Summary Table (From 1986-87 Faro Data)

007513

Parameter	$\bar{x}$	S	n
pH	7.14	0.327	56
NH <sub>3</sub>	2.37	2.94	44
Cu	0.0156	0.0153	57
Pb	0.0329	0.037	56
Zn	27.57	8.497	57
Mn	9.33	4.326	50
SO <sub>4</sub>	1196.5	395.07	57

X23 flow = X7-X22, however, error will be large.

CURRAGH RESOURCES  
FARD DATABASE  
1986-87 WATER QUALITY DATA  
(part 1)

Current Site	DATE	Analysis Time Date	Temp (C)	Ammonia (mg/l)	Cu (mg/l)	Pb (mg/l)	Zn (mg/l)	Cyanide (mg/l)	Mn (mg/l)	Sodium (mg/l)	SO4 (mg/l)
** 2BC-X23											
2BC-X23	04/01/87	/ /	2.00	5.800	0.010	0.050	9.400	-99.000	2.310	19.800	487.000
2BC-X23	04/07/87	/ /	-99.00	4.450	0.070	0.020	11.400	-99.000	3.450	15.400	546.000
2BC-X23	04/14/87	/ /	2.00	7.900	0.020	0.050	19.800	-99.000	3.860	20.000	605.000
2BC-X23	04/20/87	/ /	3.00	5.620	0.020	0.040	20.400	-99.000	3.400	18.000	559.000
2BC-X23	04/28/87	/ /	2.00	2.450	0.040	0.080	20.600	-99.000	8.600	16.500	566.000
2BC-X23	01/07/87	/ /	4.00	0.250	0.020	0.030	37.500	0.010	8.310	29.000	1190.000
2BC-X23	01/15/87	/ /	1.00	0.770	0.020	-0.010	31.300	-0.010	11.300	34.000	1250.000
2BC-X23	01/20/87	/ /	3.00	0.560	0.020	-0.010	31.000	0.010	8.950	29.500	1055.000
2BC-X23	01/26/87	/ /	2.00	0.560	0.020	0.020	26.500	-0.010	9.180	29.000	1115.000
2BC-X23	02/03/87	/ /	3.00	0.550	0.010	0.010	22.100	-0.010	7.330	24.500	1010.000
2BC-X23	02/10/87	/ /	2.00	0.560	-0.010	0.010	29.600	-0.010	10.300	33.500	1145.000
2BC-X23	02/17/87	/ /	3.00	5.560	-0.010	0.020	12.000	0.010	2.600	16.400	547.000
2BC-X23	02/24/87	/ /	3.00	1.760	0.010	0.020	14.000	0.010	3.800	16.900	641.000
2BC-X23	03/03/87	/ /	1.00	0.580	0.100	0.020	13.800	-0.010	4.020	15.500	644.000
2BC-X23	03/10/87	/ /	1.00	3.230	-0.010	-0.010	10.300	0.020	2.880	17.300	522.000
2BC-X23	03/17/87	/ /	4.00	1.470	-0.010	-0.010	16.600	0.010	6.870	22.500	837.000
2BC-X23	03/24/87	/ /	4.00	4.260	-0.010	0.030	8.500	-0.010	1.980	14.400	415.000
2BC-X23	10/10/86	/ /	-99.00	-99.000	0.010	0.040	30.000	-99.000	12.700	42.000	1555.000
2BC-X23	10/23/86	/ /	-99.00	-99.000	0.020	0.020	30.000	-99.000	-99.000	-99.000	1550.000
2BC-X23	10/31/86	/ /	-99.00	-99.000	0.010	0.020	34.700	-99.000	-99.000	-99.000	1555.000
2BC-X23	11/06/86	/ /	-99.00	-99.000	0.010	0.020	37.700	-99.000	-99.000	-99.000	1560.000
2BC-X23	11/13/86	/ /	-99.00	-99.000	0.010	0.020	34.700	-99.000	-99.000	-99.000	1570.000
2BC-X23	11/21/86	/ /	-99.00	-99.000	0.010	0.010	33.000	-99.000	-99.000	-99.000	1750.000
2BC-X23	11/28/86	/ /	-99.00	-99.000	0.010	0.020	35.700	-99.000	-99.000	-99.000	1580.000
2BC-X23	12/04/86	/ /	1.00	-99.000	0.010	0.010	34.500	-99.000	14.850	45.000	1560.000
2BC-X23	12/10/86	/ /	3.00	-99.000	0.010	0.010	36.000	-99.000	14.800	45.000	1544.000
2BC-X23	12/16/86	/ /	-99.00	0.000	0.010	0.020	35.100	-99.000	17.200	43.900	1580.000
2BC-X23	12/23/86	/ /	3.00	-99.000	0.010	0.090	38.900	-99.000	15.000	52.000	1540.000
2BC-X23	12/31/86	/ /	3.00	0.910	0.020	0.020	40.400	-0.010	13.800	46.000	1558.000
2BC-X23	12/16/86	/ /	1.00	-99.000	0.010	0.020	35.100	-99.000	17.200	43.900	1580.000
2BC-X23	06/04/87	/ /	5.00	1.890	-0.010	0.030	25.100	-0.010	4.740	19.600	748.000
2BC-X23	06/11/87	/ /	3.00	1.390	0.010	0.050	21.800	-0.010	4.750	22.000	796.000
2BC-X23	06/16/87	/ /	4.00	1.900	0.030	0.130	35.800	-0.010	5.200	27.000	1040.000
2BC-X23	06/26/87	/ /	3.00	1.260	-0.010	0.010	32.400	-0.010	10.700	33.500	1400.000
2BC-X23	06/30/87	/ /	5.00	0.950	0.010	0.010	30.800	-0.010	11.500	33.500	1385.000
2BC-X23	07/06/87	/ /	5.00	0.780	0.010	0.010	28.400	-0.010	10.600	34.500	1380.000
2BC-X23	07/13/87	/ /	4.00	0.810	0.010	0.030	28.000	-0.010	11.950	36.000	1440.000
2BC-X23	07/20/87	/ /	5.00	0.790	-0.010	0.030	28.600	-0.010	11.700	37.000	1410.000
2BC-X23	07/28/87	/ /	5.00	0.750	-0.010	0.030	27.900	-0.010	12.250	37.500	1470.000
2BC-X23	08/04/87	/ /	3.00	0.950	-0.010	0.050	26.100	-0.010	11.000	34.000	1385.000
2BC-X23	08/11/87	/ /	3.00	0.970	-0.010	0.020	24.700	-0.010	9.950	34.000	1360.000
2BC-X23	08/18/87	/ /	3.00	0.890	-0.010	0.020	26.500	-0.010	11.250	39.000	1435.000
2BC-X23	08/25/87	/ /	4.00	0.760	0.010	0.050	28.700	0.020	11.850	41.500	1510.000
2BC-X23	09/01/87	/ /	3.00	0.830	-0.010	0.010	27.900	0.020	11.500	41.500	1505.000
2BC-X23	09/08/87	/ /	3.00	0.700	-0.010	0.010	27.000	0.010	12.150	41.000	1505.000
2BC-X23	09/15/87	/ /	3.00	0.670	-0.010	0.010	26.600	-0.010	12.350	42.000	1510.000

CURRASH RESOURCES  
FARO DATABASE  
1986-87 WATER QUALITY DATA  
(part 1)

Current Site	DATE	Analysis Time	Temp (C)	Ammonia (mg/l)	Cu (mg/l)	Pb (mg/l)	Zn (mg/l)	Cyanide (mg/l)	Nn (mg/l)	Sodium (mg/l)	SD4 (mg/l)
ZBC-X23	09/21/87	/ /	3.00	0.840	-0.010	-0.010	26.500	-0.010	12.450	42.000	1485.000
ZBC-X23	05/05/87	/ /	3.00	13.300	0.020	0.130	40.000	0.020	4.700	18.700	782.000
ZBC-X23	05/12/87	/ /	2.00	7.360	0.010	0.090	44.900	0.020	5.050	20.000	784.000
ZBC-X23	05/19/87	/ /	3.00	8.500	0.040	0.200	37.400	0.010	4.560	19.500	749.000
ZBC-X23	05/26/87	/ /	4.00	3.320	0.010	0.100	37.300	-0.010	4.630	14.700	738.000
ZBC-X23	10/02/87	/ / -9999	3.00	0.630	-0.010	-0.010	25.100	-0.010	12.700	41.500	1470.000
ZBC-X23	10/06/87	/ / -9999	2.00	0.670	-0.010	-0.010	25.500	0.030	15.300	42.000	1500.000
ZBC-X23	10/13/87	/ / -9999	3.00	0.760	-0.010	0.010	24.900	-0.010	12.700	41.500	1506.000
ZBC-X23	10/20/87	/ / -9999	3.00	0.780	-0.010	-0.010	24.700	0.010	13.150	42.000	1485.000
ZBC-X23	10/27/87	/ / -9999	3.00	0.780	-0.010	-0.010	24.500	0.020	13.000	42.000	1480.000
ZBC-X23	11/20/87	/ / -9999	-99.99	-999.900	0.007	-999.900	22.000	-999.900	-999.900	-999.900	1334.000
				$\bar{x} = 2.37$	$\bar{x} = 0.0156$	$\bar{x} = 0.33$	$\bar{x} = 27.57$		$\bar{x} = 9.327$		$\bar{x} = 1,196.5$
				$s = 2.94$	$s = 0.0153$	$s = 0.037$	$s = 8.477$		$s = 4.326$		$s = 395.07$
				$n = 44$	$n = 57$	$n = 56$	$n = 57$		$n = 50$		$n = 57$

CURRAGH RESOURCES  
FARD DATABASE  
1986-87 WATER QUALITY DATA  
(part 2)

Current Site	DATE	LCFO 96HRS	pH lab	Susp. Solids (mg/l)	Flow (cum/s)
** 2BC-X23					
2BC-X23	04/01/87	-99.000	7.57	14	-99.0000
2BC-X23	04/07/87	-99.000	7.03	5	-99.0000
2BC-X23	04/14/87	-99.000	6.83	4	-99.0000
2BC-X23	04/20/87	-99.000	6.88	4	-99.0000
2BC-X23	04/28/87	-99.000	7.46	3	-99.0000
2BC-X23	01/07/87	-99.000	7.26	5	-99.0000
2BC-X23	01/15/87	-99.000	6.97	2	-99.0000
2BC-X23	01/20/87	-99.000	6.77	2	-99.0000
2BC-X23	01/28/87	-99.000	7.00	3	-99.0000
2BC-X23	02/03/87	-99.000	7.01	3	-99.0000
2BC-X23	02/10/87	-99.000	6.97	2	-99.0000
2BC-X23	02/17/87	-99.000	6.95	2	-99.0000
2BC-X23	02/24/87	-99.000	6.77	4	-99.0000
2BC-X23	03/03/87	-99.000	7.34	3	-99.0000
2BC-X23	03/10/87	-99.000	7.31	2	-99.0000
2BC-X23	03/17/87	-99.000	7.16	10	-99.0000
2BC-X23	03/24/87	-99.000	7.07	4	-99.0000
2BC-X23	10/10/86	-99.000	6.90	-99	-99.0000
2BC-X23	10/23/86	-99.000	7.00	4	-99.0000
2BC-X23	10/31/86	-99.000	7.30	3	-99.0000
2BC-X23	11/06/86	-99.000	7.03	6	-99.0000
2BC-X23	11/13/86	-99.000	7.50	5	-99.0000
2BC-X23	11/21/86	-99.000	7.50	2	-99.0000
2BC-X23	11/28/86	-99.000	7.52	3	-99.0000
2BC-X23	12/04/86	-99.000	7.07	-99	-99.0000
2BC-X23	12/10/86	-99.000	7.00	-99	-99.0000
2BC-X23	12/16/86	-99.000	7.12	4	-99.0000
2BC-X23	12/23/86	-99.000	7.14	10	-99.0000
2BC-X23	12/31/86	-99.000	6.99	2	-99.0000
2BC-X23	12/16/86	-99.000	7.12	4	-99.0000
2BC-X23	06/04/87	0.000	7.14	6	0.0000
2BC-X23	06/11/87	0.000	7.00	3	0.0000
2BC-X23	06/16/87	0.000	6.11	38	0.0000
2BC-X23	06/26/87	0.000	7.05	2	0.0000
2BC-X23	06/30/87	0.000	6.88	2	0.0000
2BC-X23	07/06/87	0.000	7.31	1	0.0000
2BC-X23	07/13/87	0.000	7.13	2	0.0000
2BC-X23	07/20/87	0.000	6.40	2	0.0000
2BC-X23	07/28/87	0.000	7.16	1	0.0000
2BC-X23	08/04/87	0.000	7.10	3	0.0000
2BC-X23	08/11/87	0.000	7.12	1	0.0000
2BC-X23	08/18/87	0.000	7.06	1	0.0000
2BC-X23	08/25/87	0.000	7.08	3	0.0000
2BC-X23	09/01/87	0.000	7.08	1	0.0000
2BC-X23	09/08/87	0.000	6.94	2	0.0000

CURRAGH RESOURCES  
FARD DATABASE  
1986-87 WATER QUALITY DATA  
(part 2)

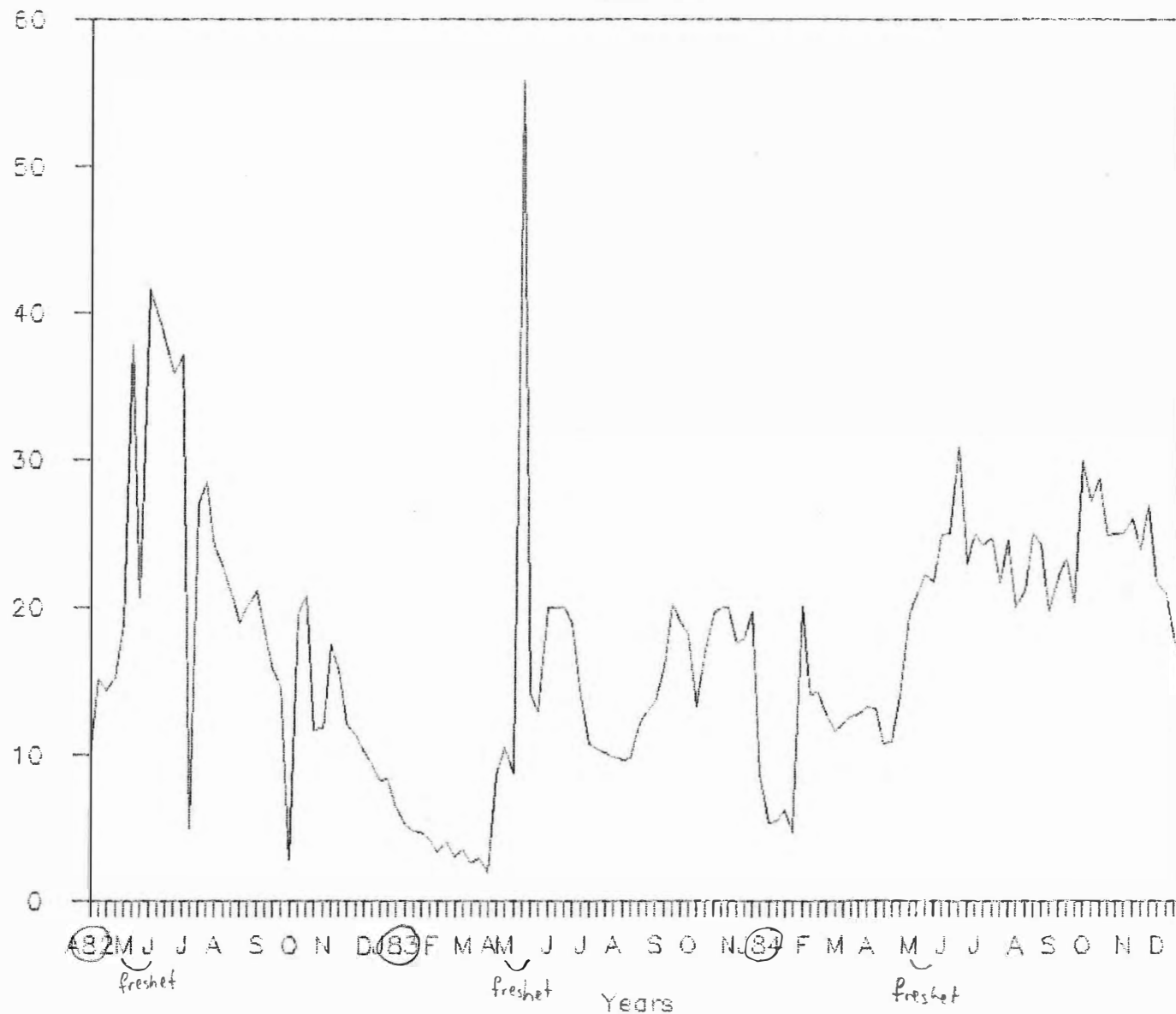
Current Site	DATE	LC50 96HRS	pH lab	Susp. Solids (mg/l)	Flow (cum/s)
ZBC-X23	09/15/87	0.000	6.67	3	0.0000
ZBC-X23	09/21/87	0.000	7.06	1	0.0000
ZBC-X23	05/05/87	0.000	7.36	13	0.0000
ZBC-X23	05/12/87	0.000	7.52	13	0.0000
ZBC-X23	05/19/87	0.000	6.74	148	0.0000
ZBC-X23	05/26/87	0.000	6.77	11	0.0000
ZBC-X23	10/02/87	-999.900	7.00	2	-999.9000
ZBC-X23	10/06/87	-999.900	7.32	1	-999.9000
ZBC-X23	10/13/87	-999.900	7.40	1	-999.9000
ZBC-X23	10/20/87	-999.900	7.63	2	-999.9000
ZBC-X23	10/27/87	-999.900	7.91	3	-999.9000
ZBC-X23	11/20/87	-999.900	-99.99	-999	-999.9000

$\bar{x} = 7.14$   
 $S = 0.327$   
 $n = 56$

# Zinc Levels -- X23

1982-84

Zinc (mg/l)



1982 WATER QUALITY SUMMARY

Date	pH	S.S.	Temp	Flow	X23					Mn	
					Pb	Zn	Cu	Na	CN		NH <sub>3</sub>
Apr. 6	7.0	0	1	0.04	0.26	9.85	0.05	14		+10	2.04
13	7.1	3	1	0.04	0.06	15.1	0.01	18		3.2	2.64
20	6.8	1	1	0.04	0.09	14.4	0.02	15		3.1	2.10
27	7.0	0	1	0.04	0.08	15.2	N.D.	13		4.9	2.11
May 4	6.6	0	1	0.04	0.09	18.9	0.01	13			2.71
11	6.5	0	2	0.05	0.10	38.0	0.02	12			4.50
18	6.5	7	1	0.05	0.07	20.6	0.03	17			6.28
25	6.5	1	2	0.05	0.06		0.03	38			6.40
June 9	6.5	2	10		0.07	41.6	0.01	43			3.90
15	6.5	1	8		0.08	39.8	0.01	42			3.80
22	6.6	4	1		0.09	37.9	0.02	30			4.00
30	6.5	2	10		0.08	35.9	0.01	28			3.80
July 7	6.5	4	10		0.08	37.1	0.01	26			3.40
15	6.4	4	10		0.06	5.0	0.01	21			1.50
21	6.4	3	4		0.12	27.0	0.01	32			4.10
27	6.4	3	4		0.11	28.6	0.01	29			4.20
Aug. 2	6.3	6	4		0.08	24.1	0.01	33			3.80
9	6.3	6	4		0.06	22.7	0.03	38			3.00
17	6.3	6	3		0.08	20.9	0.03	36			2.90
24	6.6	5	6		0.07	19.0	0.03	36			2.60
31	6.6	5	6		0.06	20.1	0.03	37			2.70
Sept 7	6.5	5	4		0.06	21.1	0.03	31			2.80
14	6.5	5	2		0.06	18.3	0.03	N.A.			2.70
21	6.3	3	2		0.08	15.8	0.01	42			2.60
28	6.5	4	2		0.06	14.7	0.02	40			2.20
Oct 6	6.5	26	0	0.02	0.16	2.8	0.07	50			0.56
13	6.3	4	4	0.02	0.14	19.6	0.01	27			2.6
20	6.3	7	4	0.02	0.17	20.7	0.01	41			2.8
27	6.2	0	0	0.02	0.09	11.7	0.01	43			2.6
Nov 2	6.6	5	2	0.02	0.01	11.8	0.02	28			2.58
9	6.6	4	2	0.02	0.04	17.4	0.01	30			2.58
16	6.6	1	2	0.02	0.03	15.7	0.02	17			2.36
23	6.6	5	0	0.02	0.02	12.0	0.04	N.A.			1.69
30	6.7	2	0	0.02	0.04	11.3	0.01	21			3.05
Dec 8	7.1	1	0	0.002	0.06	10.2	0.04	32			3.01
15	6.9	2	0	0.002	0.10	9.3	0.01	20			3.42
22	7.3	1	0	0.002	0.11	8.2	0.01	22			3.84
29	7.6	4	0	0.002	0.09	8.3	0.01	20			3.79

1982 WATER QUALITY SUMMARY

Date	pH	S.S.	Temp	X22							
				Flow	Pb	Zn	Cu	Na	CN	NH <sub>3</sub>	Mn
Apr 6	6.8	24	1	0.03	0.09	9.67	0.03	12		+10	0.50
13	7.0	3885	1	0.03	0.20	17.5	0.02	17		5.2	1.56
20	6.9	50	1	0.03	0.05	17.6	0.01	13		3.0	1.00
27	7.0	157	1	0.04	0.19	22.2	N.D.	12		4.7	1.25
May 4	6.6	43	1	0.04	0.22	27.9	0.01	12			2.84
11	6.3	227	1	0.06	0.67	70.0	0.02	10			6.20
18	6.5	453	2	0.06	0.23	20.8	0.03	16			7.36
25	6.4	292	4	0.04	0.51	0.03	0.03	42			6.20
June 9	6.5	18	10		0.09	51.0	0.01	49			4.30
15	6.6	13	8		0.08	45.0	0.01	43			4.20
22	6.5	8	8		0.10	56.2	0.01	33			4.10
30	6.4	5	10		0.08	48.3	0.01	32			3.70
July 7	6.5	5	10		0.07	47.8	0.01	28	-0.02		2.90
15	pit not pumping - no flow										
21	6.4	5	7		0.12	29.5	0.01	35	-0.02		4.00
27	6.4	4	6		0.11	30.1	0.01	30	-0.02		4.10
Aug. 2	6.3	7	6		0.06	30.2	0.01	34	-0.02		3.70
9	6.3	6	4		0.08	30.6	0.02	40	-0.02		3.10
17	6.3	5	6		0.03	31.4	0.02	38	-0.02		2.90
24	6.7	4	8		0.04	21.1	0.02	35	-0.02		1.80
31	6.6	5	6		0.04	22.0	0.02	37	-0.02		1.90
Sept. 7	no sample flow										
14	6.4	8	4		0.05	17.6	0.03	N.A.	-0.02		2.10
21	6.5	5	3		0.07	10.4	0.01	46	-0.02		1.30
28	6.4	4	2		0.05	15.9	0.03	48	-0.02		1.00
Oct. 6	6.4	19	3	0.02	0.24	12.3	0.01	51	-0.02		2.55
13	6.3	5	2	0.02	0.20	26.1	0.01	24	-0.02		2.30
20	6.3	9	1	0.02	0.18	25.3	0.01	48	-0.02		2.90
27	6.2	0	0	0.02	0.10	12.1	0.03	43	-0.02		2.02
Nov. 2	6.9	6	1	0.02	0.02	12.2	0.02	31	-0.02		1.95
9	6.6	1	0	0.02	0.02	21.2	0.01	35	-0.02		1.89
16	6.6	2	0	0.02	0.04	19.7	0.02	18	-0.02		1.63
23	6.6	28	0	0.02	0.03	14.8	0.03	-	-0.02		1.02

pit pumps turned off