

## APPENDIX E

### Mathew Freeburn Pty Ltd (survey information)

**From:** Clint [mailto:clint@freeburnsurveyors.com]  
**Sent:** Monday, 29 May 2017 3:50 PM  
**To:** 'Josh Graham' <josh@pfformation.com.au>  
**Subject:** Extraction Levels and Wells.

Hi Josh,

Below are the Coordinates and levels taken on concrete base, top of pipe and top of metal lid for new and existing monitoring wells.

(PFP214 MW1) E =313286.41 N = 6294508.34 RL 184.450 Concrete - RL 185.26 Pipe - RL 185.34 Lid  
(PF167MW-5D) E =313203.61 N = 6294658.95 RL 180.850 Concrete - RL 181.54 Pipe - RL 181.65 Lid  
(PF167 MW1) E =313190.79 N = 6294816.05 RL 187.850 Concrete - RL 187.95 Pipe  
(PF167MW-4S) E =313725.86 N =6294836.93 RL 192.930 Concrete - RL 193.44 Pipe - RL 193.57 Lid  
(PF167MW-4D) E =313727.56 N = 6294836.89 RL 192.930 Concrete - RL 193.39 Pipe - RL 193.193.52 Lid  
(PF166MW-3D) E =313545.67 N = 6295186.86 RL 197.930 Concrete - RL 198.67 Pipe - RL 198.81 Lid  
(PF166 MW1) E =313293.61 N = 6295256.65 RL 209.780 Concrete - RL 210.35 Pipe - RL 210.55 Lid  
(PF166MW-2D) E =313438.92 N = 6295492.65 RL 209.280 Concrete - RL 209.90 Pipe - RL 210.09 Lid  
(PF166MW-2S) E =313439.64 N = 6295494.49 RL 209.300 Concrete - RL 210.00 Pipe - RL 210.10 Lid  
(PFL2HITCH MW1) E =313810.71 N = 6295241.46 RL 225.130 Concrete - RL 225.87 Pipe - RL 226.01 Lid

Please also see attached PDF's showing levels taken at bottom of extraction.

I think this all you need for tomorrow if you need anything else please let me know.

Regards

Clint Donnelly.  
0433121668

**FREEBURN SURVEYING**

PHONE: (02) 4721 2289 FAX: (02) 4721 5646  
SUITE 2, FIRST FLOOR "SURVEYOR HOUSE"  
2 CASTLEREAGH STREET, PENRITH NSW 2750

## APPENDIX F

## Appendix F: Bore Water Monitoring (2017-2020) Water Levels in MAHD

### Hitchcock Road Site

Date	PF166 MW-2D	PF166 MW -2s	PF166 MW-3D	PF166 MW-4D	PF166 MW-4s	PF166 MW-1	PF167 MW-1	PF214 MW-1	PFL2Hitch MW-1	PF167 MW-5D
7/06/2017	182.05	205.4	184.53	185.93	185.83					179.78
9/06/2017						199.55	183.12	179.41	189.6	
17/07/2017	181.99	205.48	184.72	186.055	185.925	200.34	183.25	179.875	189.765	180.06
27/07/2017	181.92	205.375		185.945	185.86	200.2			189.73	180.07
15/08/2017	182.02	205.23	184.72	185.94	185.795	199.94	183.26	180.14	189.87	180.02
7/09/2017	181.99	205	184.57	185.78	185.74	199.71	183.04	180.13	189.85	179.885
23/10/2017	181.98	204.71	184.42	185.615	185.665	199.56	182.83	180.114	189.765	179.83
24/11/2017	181.97	204.53	184.34	185.51	185.63	199.44	182.68	180.1	189.705	179.75
18/12/2017	182.01	204.41	184.25	185.43	185.61	199.32	182.54	179.99		179.04
19/01/2018	181.94	204.25	184.41	185.31	185.59	199.18	182.37	179.93	189.64	179.54
13/02/2018	181.93	204.14	184.13	185.22	185.55	199.07	182.23	179.81	189.6	decommissioned
12/03/2018	181.82	204.18	184.1	185.05	185.51	199	182.06	179.92	189.53	
9/04/2018	181.81	204.07	184.03	184.86	185.46	dry	181.86	179.95	189.49	
8/05/2018	181.71	203.77	184.04	184.77	185.37	dry	181.64	179.72	189.43	
12/06/2018	181.72	203.55	183.78	184.67	185.28	dry	181.34	179.7	189.46	
10/07/2018	181.51	203.47	183.5	184.57	185.1	dry	181.2	179.53	189.28	
7/08/2018	181.61	203.32	183.39	184.61	185.12	dry	181.1	179.54	189.34	
13/09/2018	181.48	203.21	183.03	184.45	185.01	dry	180.93	178.41	190.07	
11/10/2018	181.32	203.44	182.8	184.36	184.92	dry	180.71	179.32	190.01	
7/11/2018	181.42	203.84	183.03	184.56	184.97	dry	180.77	179.68	190.1	
11/12/2018	181.21	203.61	182.77	184.49	185.02	dry	180.78	179.53	189.98	
17/01/2019	181.18	203.64	182.68	184.5	184.99	dry	180.8	179.69	190	
14/02/2019	181.06	203.5	182.47	184.45	184.94	dry	180.75	178.06	189.9	
7/03/2019	180.99	203.36	182.41	184.43	184.93	dry	180.66	178.3	189.89	
11/04/2019	180.92	203.75	182.26	184.46	184.92	dry	180.53	178.73	189.9	
14/05/2019	180.88	203.42	182.26	184.48	184.93	dry	180.45	178.69	189.88	
19/06/2019	180.9	203.2	182.17	184.44	184.92	dry	180.32	178.76	189.89	
18/07/2019	180.92	203.16	182.09	184.4	184.91	dry	180.24	179.04	189.91	
21/08/2019	180.89	203.08	181.97	184.32	184.87	dry	180.12	178.85	189.92	
27/09/2019	180.85	203.9	181.91	184.4	184.87	dry	180.25	179.67	189.82	
21/10/2019	180.73	203.69	181.93	184.56	184.91	dry	180.33	179.64	189.95	
14/11/2019	180.81	203.5	182.05	184.52	185.04	dry	180.26	179.8	189.91	
13/12/2019	180.76	203.37	181.96	184.47	185.02	dry	180.15	180.06	189.89	
14/01/2020	180.71	203.23	181.8	184.41	184.94	dry	180.05	179.28	189.87	
20/02/2020	180.71	205.14	No access	184.62	184.95	dry	180.19	180.06	189.87	
23/03/2020	180.52	204.5	No access	185	185.92	199.19	181.01	180.62	189.87	
15/04/2020	180.64	204.46	No access	185.15	185.93	199.04	181.26	180.77	189.96	
20/05/2020	180.64	204.05	No access	185.1	185.79	199.15	181.37	180.7	190.03	
23/06/2020	180.68	203.89	182.97	184.94	185.7	199.2	181.37	180.42	190.01	
24/07/2020	180.57	203.8	182.88	185.17	184.98	199.2	181.39	180.41	189.93	

Note:

Measurements completed by Melissa Mass of SEE using an acoustic water level probe. Water levels taken from m "toc" and converted to mAHD

Prepared By: Earth2Water Pty Ltd

## Appendix F: Bore Water Monitoring

4378 Old Northern Road Maroota

Date	Time	PF1 SWL (mtoc)	PF2 SWL (mtoc)	PF3 SWL (mtoc)
11/12/2018	1106	13.32	7.3	35.2
17/01/2019	1036	13.29	7.24	35.19
14/02/2019	1308	13.37	7.31	35.15
7/03/2019	1254	13.37	7.32	Dry
11/04/2019	1030	13.34	7.41	Dry
14/05/2019	1152	13.35	7.37	Dry
19/06/2019	1202	13.35	7.31	Dry
18/07/2019	924	13.34	7.32	Dry
21/08/2019	1155	13.42	7.4	Dry
25/09/2019	1158	13.4	7.56	34.16
17/10/2019	1038	13.27	7.33	Dry
14/11/2019	1348	13.38	7.34	Dry
13/12/2019	1159	13.42	7.33	Dry
14/01/2020	1148	13.48	7.44	35.19
20/02/2020	12.01	13.26	7.44	34.6
23/03/2020	1145	13.17	7.18	Dry
15/04/2020	1137	13.12	6.77	Dry
20/05/2020	1044	13.06	6.3	Dry
23/06/2020	1149	13.06	6.05	Dry
24/07/2020	1041	13.14	6.18	Dry

Note: WL Monitoring conducted by Melissa Mass/SEE

## Appendix F: Bore Water Monitoring (2017 to 2020)

### Lot 198 Pumping Wells

Date	PB1 SWL (mtoc)	PB2 SWL (mtoc)	PB-3 SWL (mtoc)	Notes
7/06/2017	18.6	18.6		PB-1 active pumping
19/07/2017	18.5	15.17		
11/08/2017	18.51	14.42		
23/10/2017	18.805	42.66		
24/11/2017	18.705			PB-2 clogged/Fe
19/01/2018	18.7			
13/02/2018	34.76			
12/03/2018	31.82			
9/04/2018	30.02			
8/05/2018	28.17			
12/06/2018	27.16			
10/07/2018	26.9			
7/08/2018	26.29			
14/09/2018	26.27			
11/10/2018	20.19			
7/11/2018	19.83			
11/12/2018	19.8			
17/01/2019	19.76			
14/02/2019	19.89			
7/03/2019	20.03			
11/04/2019	20.09			
14/05/2019	20.45			
19/06/2019	20.98			
18/07/2019	22.09			
21/08/2019	22.22			
25/09/2019	22.36			
17/10/2019	23.02		36.1	PB-3 drilled Oct2020
23/10/2019			35.39	PB-3 pumping
14/11/2019	22.9		26.67	
13/12/2019	25.69		53.74	
14/01/2020	25.33		51.6	
20/02/2020	24.51		53.9	
23/03/2020	23.83		55.62	
15/04/2020	23.3		49.6	
20/05/2020	22.85		49.5	
23/06/2020	21.95			
24/07/2020	21.76			

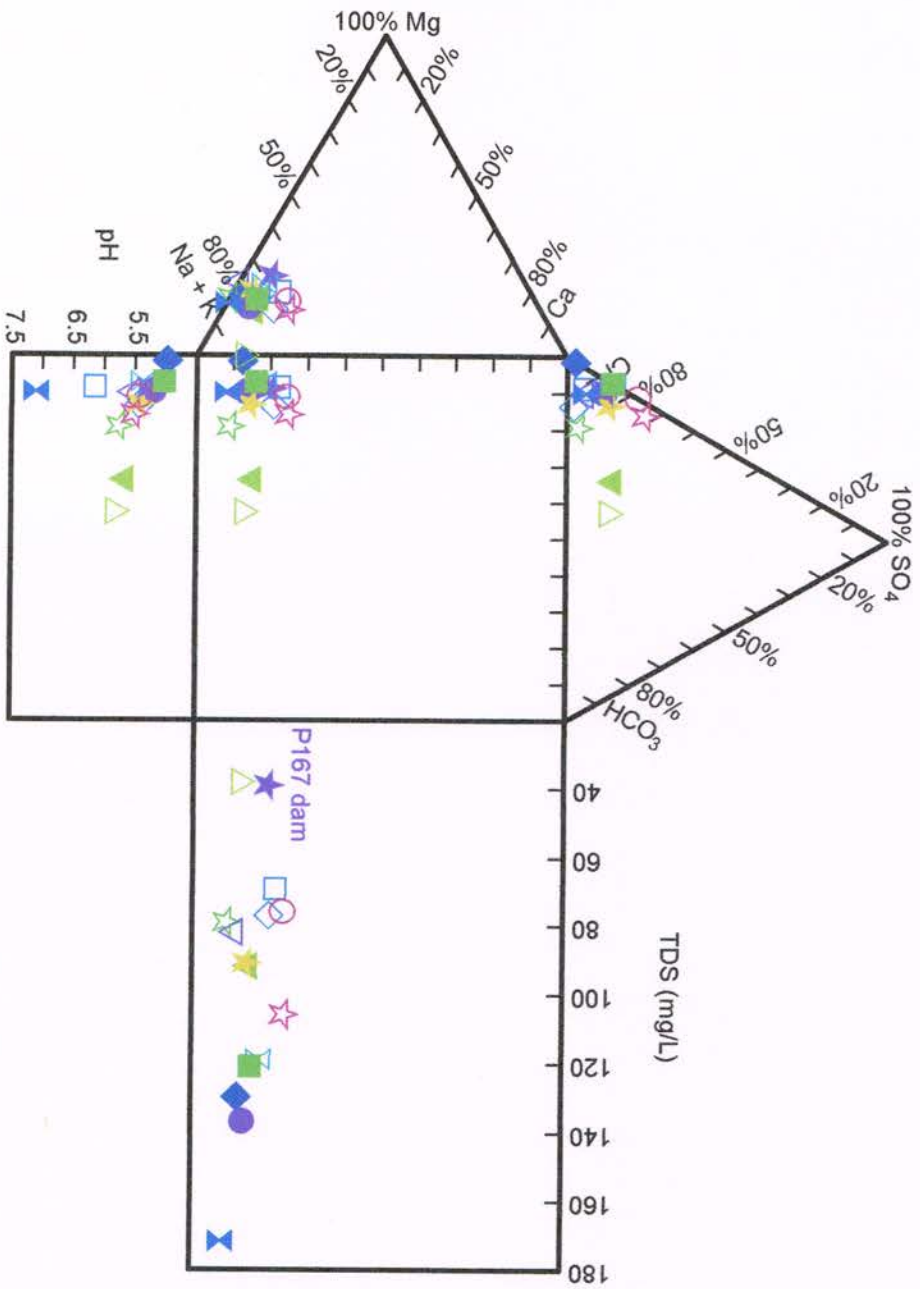
Note:

Measurements completed by Melissa Mass of SEE using an acoustic water level probe.

Previous measurements from PB-2 are from PB-1

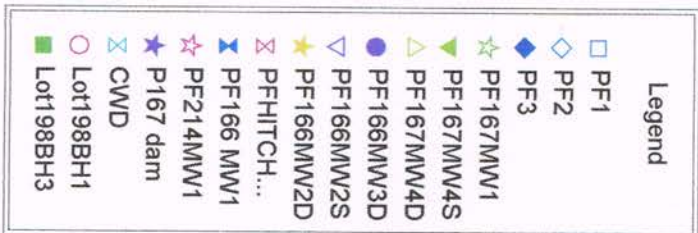
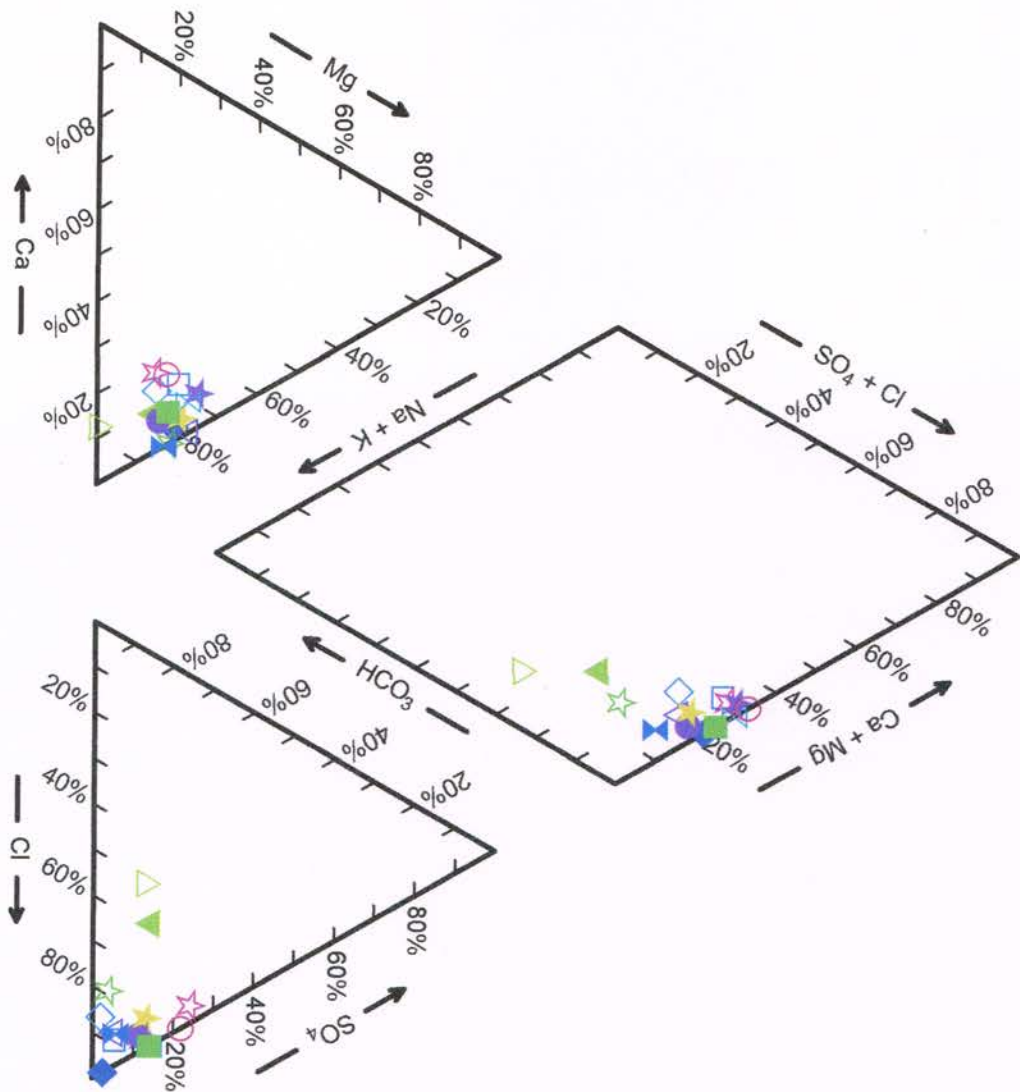
## APPENDIX G

# Durov1: Hitchcock Rd Water Aug 2020



- Legend**
- PF1
  - ◇ PF2
  - ◆ PF3
  - ☆ PF167MW1
  - ☆ PF167MW4S
  - ☆ PF167MW4D
  - ☆ PF166MW3D
  - PF166MW2S
  - ▽ PF166MW2D
  - ☆ PF166MW2D
  - ☆ PFHITCH...
  - ☆ PF166 MW1
  - ☆ PF214MW1
  - ☆ P167 dam
  - ◇ CWD
  - Lot198BH1
  - Lot198BH3

# Piper1; Hitchcock Rd Water Aug 2020





## APPENDIX H



PF 2

PF 1

PF 3