Table H-1: Diversion Canal (Canal Dyke)
Thermistor CD-15

CD-15		Location:	Canal Dyke St. 1+530			Elevation (m amsl):	1054.73	Coordinates:	1233.7 mN 1028.7 mE	8V581228 6913287
		Thermistor String #26	Date Installed:	1981	Thermistor Type:	Cantec Controls YSI 44007	Ice-Bath Calibration:	applied	Surface Protector:	yes
Depth Correction	0.1									

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	9-Dec-81	31-May-94	13-Sep-94	20-Sep-95	11-Sep-96	13-Sep-99	7-Jun-00	5-Sep-00	25-May-01	13-Sep-01	13-Jun-02	12-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	16-Sep-04	31-May-05	12-Oct-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	19-Jun-08	24-Sep-08	30-Jun-09	16-May-10	2-Jun-10	10-Sep-10
1.0	-1.1	20.00	13.84	11.56	11.52	11.93	11.36	13.04	12.03	16.84	11.56	12.16	11.57	12.04	11.11	8.87	12.50	13.40	13.87	11.66	13.11	12.99	13.97	13.52	12.89	11.90	16.93	12.66	11.10
2.0	-2.1	16.29	16.58	10.64	11.36	12.23	11.48	16.96	11.74	17.14	11.30	16.59	12.00	15.88	11.22	11.63	11.67	16.89	12.55	16.95	12.65	17.14	12.72	16.37	12.39	14.90	17.18	16.93	11.30
3.0	-3.1	15.99	23.62	15.29	16.47	18.13	17.46	24.88	17.37	24.84	17.05	24.82	18.61	24.71	17.12	21.04	16.94	24.35	17.39	24.52	18.43		13.08				24.62	-	-
4.0	-4.1	15.65		11.34	11.61	13.10	12.17	16.64	12.08	17.01		17.42	13.84	18.02	13.33	17.84	13.31		13.22	18.93	O/L	19.56	14.08	19.44	14.76	19.90	20.14	20.05	14.70
5.0	-5.1	15.71	16.11	11.81	11.65	13.06	12.38	16.12	11.88	16.21	12.38	16.24	12.68	16.26	12.31	15.91	12.35	16.05	11.70	16.20	12.91	16.50	15.69	16.40	12.61	16.49	16.75	16.61	12.40
6.0	-6.1	15.75	15.80	12.17	11.72	13.07	12.50	15.77	12.10	15.90	12.57	15.95	12.70	16.00	12.36	15.66	12.82	15.87	12.13	16.42	13.69	17.05	15.90	17.42	13.86	18.92	20.10	19.96	15.50
7.0	-7.1	15.53	15.49	12.61	12.28	13.67	13.09	15.39	12.60	15.52	13.10	15.53	13.43	15.59	12.94	15.54	13.15	15.30	12.16	15.45	13.34	15.63	15.17	15.73	13.08	15.81	16.05	15.95	12.80
8.0	-8.1	15.47	15.33	13.42	13.09	14.28	13.78	15.24	13.55	15.40	13.83	15.37	14.26	15.43	13.67	15.44	13.77	15.09	12.76	15.25	13.83	15.43	14.40	15.58	13.77	15.69	15.88	15.82	13.70
9.0	-9.1	15.41	15.19	14.09	13.78	14.68	14.38	15.23	14.39	15.40	14.52	15.37	14.88	15.45	14.40	15.47	14.46	15.13	13.50	15.27	14.46	15.28	15.03	15.84	14.94	16.75	17.66	17.73	16.30
10.0	-10.1	15.45	15.96	15.21	14.97	15.78	16.64	17.33	16.94	17.64	17.05	17.55	17.30	17.88	17.09	18.14	17.27	17.76	16.55	5.17	5.14	*28.10*					*45.90*	*46.00*	*36.40*

*The initial reading (Nov 15/81) is excluded from the data set because post-installation equilibrium may not have been complete.

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	9-Dec-81	31-May-94	13-Sep-94	20-Sep-95	11-Sep-96	13-Sep-99	7-Jun-00	5-Sep-00	25-May-01	13-Sep-01	13-Jun-02	12-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	16-Sep-04	31-May-05	12-Oct-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	19-Jun-08	24-Sep-08	30-Jun-09	16-May-10	2-Jun-10	10-Sep-10
1.0	-1.1	-4.10	3.09	6.72	6.79	6.08	7.08	4.28	5.91	-0.78	6.72	5.69	6.70	5.89	7.53	12.20	5.14	3.74	3.05	6.55	4.18	4.36	2.90	3.56	4.52	6.13	-0.91	4.91	7.54
2.0	-2.1	-0.20	-0.55	8.35	7.01	5.51	6.79	-0.99	6.34	-1.19	7.12	-0.56	5.89	0.30	7.26	6.53	6.46	-0.91	4.98	-0.98	4.82	-1.19	4.71	-0.30	5.24	1.55	-1.27	-0.98	7.09
3.0	-3.1	0.20																					4.15				-8.27		
4.0	-4.1	0.70		7.15	6.67	4.23	5.72	-0.51	5.87	-0.93		-1.40	3.13	-2.05	3.88	-1.86	3.91		4.05	-3.00		-3.74	2.68	-3.62	1.74	-4.07	-4.29	-4.21	1.95
5.0	-5.1	0.60	0.11	6.31	6.58	4.27	5.35	0.09	6.19	-0.01	5.35	-0.05	4.87	-0.07	5.47	0.35	5.40	0.18	6.50	0.00	4.50	-0.36	0.63	-0.24	4.98	-0.35	-0.67	-0.51	5.32
6.0	-6.1	0.50	0.44	5.65	6.41	4.21	5.11	0.48	5.76	0.31	4.99	0.25	4.79	0.19	5.33	0.61	4.60	0.35	5.71	-0.32	3.28	-1.05	0.31	-1.47	3.03	-3.06	-4.34	-4.20	0.82
7.0	-7.1	0.80	0.85	4.95	5.48	3.33	4.20	0.98	4.96	0.81	4.18	0.80	3.68	0.72	4.43	0.78	4.10	1.09	5.68	0.90	3.82	0.67	1.26	0.55	4.21	0.45	0.14	0.26	4.64
8.0	-8.1	0.90	1.08	3.73	4.23	2.49	3.20	1.20	3.53	0.99	3.13	1.03	2.52	0.95	3.36	0.94	3.21	1.39	4.74	1.19	3.13	0.95	2.32	0.76	3.21	0.63	0.38	0.46	3.32
9.0	-9.1	1.00	1.28	2.77	3.22	1.96	2.37	1.23	2.35	1.01	2.18	1.05	1.69	0.95	2.34	0.92	2.26	1.36	3.63	1.18	2.26	1.17	1.49	0.46	1.61	-0.63	-1.71	-1.79	-0.12
10.0	-10.1	0.90	0.26	1.21	1.52	0.48	-0.56	-1.35	-0.90	-1.69	-1.03	-1.59	-1.31	-1.95	-1.08	-2.23	-1.28	-1.82	-0.45										

* The 3 metre depth tip is suspect

The node is malfunctioning. Numbers are not included in the graphs.

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Table H-2: Diversion Canal (Canal Dyke)
Thermistor CD-21

CD-21		**Location:**	Canal Dyke St.2+100			**Elevation (m amsl):**	1053.34	**Coordinates:**	1455.9 mN 509.5 mE	8V580708 6913505
		Thermistor String #12	**Date Installed:**	1981	**Thermistor Type:**	Cantec Controls YSI 44007	**Ice-Bath Calibration:**	NO	**Surface Protector:**	yes
Depth Correction:	0.0									

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	9-Dec-82	29-May-94	14-Sep-94	20-Sep-95	13-Sep-96	17-Oct-97	12-Nov-98	13-Sep-99	7-Jun-00	5-Sep-00	25-May-01	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	18-Sep-04	31-May-05	1-Jun-05	14-Sep-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	30-May-08	23-Jun-08	25-Sep-08	30-Jun-09	17-Sep-09	18-May-10	2-Jun-10	10-Sep-10
3.0	-3.0	16.58	16.80	11.91	13.12	14.12	14.18	14.78	13.47	16.92	13.27	16.96	16.84	12.55	17.13	13.29	16.92	12.87	16.69	12.32	16.63	16.75	12.62	17.07	13.82	17.31	13.89	17.11	16.96	13.63	17.01	13.56	16.91	16.89	12.80
5.0	-5.0	16.56	16.45	14.61	15.04	16.56	15.29	14.65	15.78	16.42	15.15	16.34	16.40	14.56	16.42	15.13	16.37	14.93	16.20	14.08	15.81	15.94	14.20	16.31	15.01	16.47	15.74	16.33	16.39	14.89	16.48	15.38	16.09	16.21	14.70
8.0	-8.0	16.89	16.51	16.72	16.68	16.63	16.48	15.79	16.43	16.26	16.23	16.11	16.22	15.99	16.07	15.97	16.13	15.85	15.69	15.39	15.43	15.52	15.26	15.85	15.57	15.90	16.03	15.84	15.99	15.61	16.08	15.92	15.65	15.79	15.60
11.0	-11.0	16.87	16.31	16.27	16.31	16.40	16.48	nr	16.13	15.67	15.79	15.53	15.43	15.54	15.38	14.97	15.49	14.41	14.99	14.12	14.67	14.94	14.09	14.94	14.24	14.50	14.20		15.03	14.57	15.32	15.03	15.17	15.06	14.20
13.0	-13.0	16.84	16.69	16.84	16.84	16.83	16.81	16.77	16.59	16.25	16.37	16.00	16.12	16.17	15.93	15.60	16.18	14.53	16.06	13.93	15.69	15.83	14.39	15.98	14.29	15.89	14.87	15.91	15.99	14.77	16.02	14.85	15.78	15.87	14.90

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	9-Dec-82	29-May-94	14-Sep-94	20-Sep-95	13-Sep-96	17-Oct-97	12-Nov-98	13-Sep-99	7-Jun-00	5-Sep-00	25-May-01	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	18-Sep-04	31-May-05	1-Jun-05	14-Sep-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	30-May-08	23-Jun-08	25-Sep-08	30-Jun-09	17-Sep-09	18-May-10	2-Jun-10	10-Sep-10
3.0	-3.0	-0.30	-0.55	6.29	4.34	2.87	2.79	1.96	3.81	-0.69	4.11	-0.74	-0.60	5.23	-0.93	4.08	-0.69	4.73	-0.42	5.61	-0.35	-0.49	5.12	-0.86	3.30	-1.14	3.20	-0.91	-0.74	3.58	-0.79	3.68	-0.68	-0.66	4.83
5.0	-5.0	-0.30	-0.17	2.16	1.59	-0.30	1.26	2.11	0.64	-0.14	1.45	-0.04	-0.11	2.23	-0.14	1.47	-0.08	1.73	0.13	2.90	0.61	0.45	2.73	0.00	1.63	-0.20	0.69	-0.03	-0.10	1.79	-0.21	1.15	0.26	0.11	2.04
8.0	-8.0	-0.70	-0.25	-0.50	-0.45	-0.39	-0.22	0.62	-0.16	0.05	0.08	0.23	0.09	0.37	0.28	0.40	0.20	0.55	0.75	1.13	1.07	0.96	1.29	0.55	0.90	0.48	0.32	0.56	0.37	0.85	0.26	0.46	0.81	0.63	0.87
11.0	-11.0	-0.60	0.06	0.10	0.06	-0.05	-0.15		0.27	0.84	0.69	1.02	1.14	1.00	1.21	1.74	1.07	2.50	1.72	2.90	2.14	1.78	2.94	1.78	2.73	2.37	2.79		1.66	2.28	1.29	1.66	1.48	1.62	2.78
13.0	-13.0	-0.60	-0.42	-0.60	-0.60	-0.59	-0.56	-0.52	-0.31	0.10	-0.05	0.40	0.25	0.19	0.49	0.90	0.18	2.30	0.33	3.14	0.79	0.61	2.49	0.43	2.63	0.54	1.84	0.51	0.41	1.98	0.38	1.87	0.67	0.56	1.80

Table H-3: Diversion Canal (Canal Dyke)
Thermistor CD-26

CD-26		Location:	Canal Dyke St.2+600	Elevation (m amsl):	1053.10			Coordinates:	1674.7 mN, 71.7 mE	8V580269 6913720
		Thermistor String #17	Date Installed:	1981	Thermistor Type:	Cantec Controls YSI 44007	Ice-Bath Calibration:	applied	Surface Protector:	yes
Depth Correction	-0.4									

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	9-Dec-81	1-Jun-94	14-Sep-94	21-Sep-95	13-Sep-96	14-Sep-99	13-Jun-02	12-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	18-Sep-04	1-Jun-05	12-Oct-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	30-Jun-09	17-Sep-09	18-May-10	2-Jun-10	10-Sep-10	
1.0	-0.6	22.70	13.14	11.87	11.54	11.98	11.51	14.85	15.64	17.85	17.34	12.28	17.76	16.40	19.82	13.91	18.27	15.43	18.84	15.08	18.32	22.28	16.19	15.20	
2.0	-1.6	16.32	16.38	11.07	11.52	11.97	11.63	16.08	11.97	15.52	11.55	10.93	11.99	16.67	13.17	16.68	12.72	16.75	12.44	13.28	12.36	17.30	16.99	11.10	
3.0	-2.6	16.20	16.76	11.14	12.01	12.77	12.40	17.06	12.99	16.99	12.38	14.03	12.01	17.00	12.75	17.22	12.92	17.26	12.92	16.68	12.79	17.38	17.34	11.80	
4.0	-3.6	16.17		11.94	12.60	13.59	13.26	16.60	13.83	16.54	13.15	16.46	12.45		12.46		13.03	16.67	13.55	16.51	13.11	16.45		12.40	
5.0	-4.6	16.24	15.88	12.88	13.36	14.58	14.38	16.99	15.33	17.13	14.74	17.20	13.88	16.96	13.10	17.40	14.53	16.67	15.42	17.96	15.25	17.96	18.15	14.80	
6.0	-5.6	16.28	17.71	15.80	18.08	22.69	27.08	35.50	34.25	37.50	35.00	40.20	34.00	44.20	38.00		42.30	48.30	44.06	54.40	50.60	54.90	55.90	48.20	
7.0	-6.6	16.43	15.73	14.56	14.73	15.61	15.69	16.51	16.23	16.63	15.92	16.68	15.11	16.30	14.41	16.65	15.37	16.82	16.25	16.95	15.88	16.70	16.88	15.80	
8.0	-7.6	16.50	15.19	16.25	14.73	15.35	15.42	15.70	15.73	15.83	15.56	15.86	14.99	15.43	14.24	15.73	15.08	15.87	16.06	15.97	15.46	15.74	15.90	15.50	
9.0	-8.6	16.46	15.33	15.60	15.38	15.80	16.10	16.90	17.17	17.38	17.43	17.99	17.62	18.31	18.06	19.84	19.38	19.85	20.78	22.42	22.53	23.49	23.73	26.20	
10.0	-9.6	16.24	14.68	15.07	14.91	15.01	15.04	15.11	15.34	15.26	15.34	15.29	15.21	14.85	14.57	15.12	15.13	15.21	15.93	15.37	15.39	15.10		15.60	

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	9-Dec-81	1-Jun-94	14-Sep-94	21-Sep-95	13-Sep-96	14-Sep-99	13-Jun-02	12-Sep-02	17-Jun-03	12-Sep-03	6-Jul-04	18-Sep-04	1-Jun-05	12-Oct-05	14-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	30-Jun-09	17-Sep-09	18-May-10	2-Jun-10	10-Sep-10	
1.0	-0.6	-6.40	4.23	6.28	6.86	6.10	6.91	1.79	0.77	-1.81	-1.25	5.59	-1.71	-0.16	-3.82	3.09	-2.26	1.03	-2.85	1.49	-2.31	-6.15	0.14	1.39	
2.0	-1.6	-0.20	-0.27	7.58	6.76	5.98	6.57	0.09	5.98	0.79	6.71	7.84	5.95	-0.61	4.05	-0.62	4.75	-0.70	5.20	3.89	5.33	-1.38	-1.02	7.48	
3.0	-2.6	0.00	-0.67	7.50	5.97	4.72	5.32	-1.01	4.38	-0.93	5.35	2.84	5.97	-0.94	4.76	-1.19	4.49	-1.24	4.49	-0.57	4.69	-1.39	-1.34	6.31	
4.0	-3.6	0.00		6.05	4.96	3.45	3.94	-0.51	3.10	-0.44	4.10	-0.34	5.21		5.19		4.32	-0.56	3.53	-0.37	4.20	-0.27		5.33	
5.0	-4.6	-0.10	0.34	4.50	3.77	2.02	2.30	-0.98	1.03	-1.14	1.81	-1.22	3.00	-0.95	4.16	-1.45	2.14	-0.56	0.97	-2.01	1.19	-2.06	-2.27	1.75	
6.0	-5.6	-0.10																							
7.0	-6.6	-0.30	0.56	2.08	1.85	0.71	0.61	-0.39	-0.06	-0.53	0.32	-0.59	1.35	-0.14	2.29	-0.56	1.03	-0.74	-0.06	-0.89	0.39	-0.62	-0.83	0.47	
8.0	-7.6	-0.40	1.22	-0.10	1.83	1.02	0.93	0.57	0.54	0.41	0.75	0.37	1.49	0.91	2.50	0.54	1.41	0.40	0.17	0.28	0.92	0.54	0.34	0.84	
9.0	-8.6	-0.35																							
10.0	-9.6	-0.10	1.89	1.37	1.58	1.45	1.41	1.32	1.02	1.12	1.02	1.08	1.19	1.66	2.04	1.30	1.34	1.24	0.33	1.03	1.01	1.34		0.71	

The node is malfunctioning. Numbers are not included in the graphs.

Historic Source Data: As compiled by BGC in 2009 Annual Geotechnical Inspection; Revised as of 2010 by Denison Environmental Services (DES).

Denison Environmental Services

Table H-4: Diversion Canal (Spoil Pile)
Thermistor SP-3

SP-3											
		Location:	N. of canal dyke St.1 +900		**Surface Elevation (m amsl):**	1051.2	**Coordinates:**	1394.4 m N & 704.5 m E			
		Date Installed:	1981		**Thermistor Type:**	Cantec Controls VSI 44007	**Ice-Bath Calibration:**	applied		**Surface Protector:**	yes
Thermistor String #25		Depth Correction	0.1								

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	9-Dec-81	31-May-94	13-Sep-94	20-Sep-95	15-Oct-96	6-Nov-97	15-Nov-98	15-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	6-Jul-04	16-Sep-04	12-Oct-05	15-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	24-Jun-08	24-Sep-08	30-Jun-09	20-May-10	2-Jun-10	10-Sep-10
1.0	-1.1	16.85	14.88	12.72	12.60	17.37	16.59	17.30	12.15		12.38	13.69	12.31	10.81	12.41	8.65	15.69	21.86	13.01	13.05	14.05	13.73	13.21	13.53	12.51	n/r	19.02	11.77
2.0	-2.1	16.20	16.67	11.81	12.29	15.90	14.88	14.95	12.18	16.73	12.06	14.76	11.81		12.21			13.10	16.93	13.22	16.98		16.87	12.73	14.76	n/r	16.78	12.08
3.0	-3.1	16.25	16.66	12.04	12.52	15.59	14.43	14.48	12.38	16.48				17.41	11.78	12.46	13.82	12.87	16.76	62.50	16.90		16.74	12.87	15.50	n/r	0.00	12.45
4.0	-4.1	16.27	18.85	14.32	15.13	16.19	18.09	29.54	nr	nr								53.40	69.30	340.90	92.70		107.30		108.70	n/r	117.50	96.50
5.0	-5.1	16.27	17.10	14.32	14.82	15.10	15.06	15.20	15.11	18.93	16.23	23.65	18.05		13.12	15.35	18.00	144.00	300.40	15.23	1.90		2.30		1.968 Δ	n/r	2.84	n/r
6.0	-6.1	16.39	16.99	15.88	15.31	15.23	14.90	14.80	14.96		14.73	19.10	14.50		13.97	25.52	25.10	14.92	17.21	10.12	17.45		17.51	15.37	17.93	n/r	17.69	15.69
7.0	-7.1	16.49	16.81	16.50	16.33	16.04	15.52	15.01	15.49		15.27		14.87		14.71		17.03	14.49	16.51	15.15	14.20				o/l	n/r	0.00	o/l
8.0	-8.1	16.54	16.69	16.91	16.80	16.73	16.27	15.39	15.78			18.79	18.79						15.80	15.40	15.93		15.99	15.08	16.57	n/r	16.01	15.50
9.0	-9.1	16.54	16.60	16.82	16.71	16.70	16.77	15.90	16.01	15.78	15.38	18.50	15.34		15.04	16.41		14.93	15.66	16.13	15.79		15.87	15.25	16.08	n/r	15.96	15.72
10.0	-10.1	16.48	16.65	17.74	16.77	16.77	16.75	16.68	16.38		15.64					85.10					16.35		17.34	16.95	17.96	n/r	18.15	18.14

* The initial reading (Nov 15/81) is excluded from the data set because post-installation equilibrium may not have been complete.

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	9-Dec-81	31-May-94	13-Sep-94	20-Sep-95	15-Oct-96	6-Nov-97	15-Nov-98	15-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	6-Jul-04	16-Sep-04	12-Oct-05	15-Jun-06	2-Oct-06	6-Jun-07	24-Sep-07	24-Jun-08	24-Sep-08	30-Jun-09	20-May-10	2-Jun-10	10-Sep-10
1.0	-1.1	-0.80	1.64	4.77	4.96	-1.39	-0.50	-1.31	5.70		5.32	3.30	5.44	8.08	5.27	12.72	0.60	-5.80	4.32	4.26	2.78	3.24	4.01	3.53	5.11		-3.23	6.34
2.0	-2.1	0.00	-0.56	6.31	5.50	0.33	1.64	1.55	5.65	-0.66	5.85	1.80	6.28		5.60			4.18	-0.89	4.00	-0.95		-0.82	4.76	1.80		-0.71	5.83
3.0	-3.1	-0.10	-0.59	5.87	5.08	0.72	2.25	2.18	5.32	-0.37				-1.44	6.33	5.19	3.11	4.54	-0.70		-0.86		-0.67	4.54	0.84			5.20
4.0	-4.1	-0.10	-2.95	2.42	1.33	-0.02	-2.18																					
5.0	-5.1	-0.10	-1.07	2.42	1.74	1.35	1.40	1.22	1.34	-3.05	-0.07	-7.28	-2.14		4.15	1.03	-2.08			1.18								
6.0	-6.1	-0.30	-1.00	0.32	1.04	1.18	1.61	1.75	1.54		1.84	-3.23	2.15		2.89			1.59	-1.21		-1.48		-1.55	1.00	-2.01		-1.77	0.58
7.0	-7.1	-0.40	-0.77	-0.41	-0.21	0.16	0.81	1.47	0.85		1.13				1.87		-1.01	2.17	-0.40	1.29	2.57							
8.0	-8.1	-0.40	-0.57	-0.83	-0.70	-0.66	-0.12	0.98	0.48										0.46	0.96	0.30		0.22	1.38	-0.47		0.21	0.84
9.0	-9.1	-0.40	-0.47	-0.73	-0.60	-0.63	-0.71	0.33	0.20	0.48	0.99	-2.61	1.04		1.43	-0.28		1.57	0.63	0.05	0.47		0.37	1.16	0.11		0.28	0.57
10.0	-10.1	-0.40	-0.60	-1.83	-0.74	-0.71	-0.68	-0.60	-0.25		0.66										-0.21		-1.36				-2.28	-2.27

Denison Environmental Services

Table H-5: Diversion Canal (Spoil Pile)
Thermistor SP-5

SP-5										
	Location:	N. of canal dyke St.2+950		**Surface Elevation (m amsl):**	1046.	**Coordinates:**	1898.2 m N & 183.1 m W	8V580012 6913942		
	Date Installed:	1981		**Thermistor Type:**	Cantec Controls YSI 44007	**Ice-Bath Calibration:**	applied			**Surface Protector:** yes
Thermistor String #24	**Depth Correction:**	0.1								

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	9-Dec-81	30-May-94	14-Sep-94	21-Sep-95	13-Sep-96	10-Nov-97	12-Nov-98	14-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	17-Jun-03	28-Oct-03	6-Jul-04	18-Sep-04	6-Jun-07	24-Sep-07	23-Jun-08	24-Sep-08	30-Jun-09	20-May-10	2-Jun-10	10-Sep-10
1.0	-1.1	18.19	14.47	11.96	12.37	12.66	16.43	16.51	11.82	14.67	12.23	12.84	12.29	12.93	12.20	13.37	15.44	9.59	12.47	13.68	12.58	11.18	12.50	10.98	16.86	13.92	10.70
2.0	-2.1	16.21	16.68	11.68	12.28	13.37		15.19	12.49	16.88	12.55	17.03	12.37	16.72	11.76	16.79	14.27	12.06	12.06	17.04	12.51	13.53	12.09	12.80	17.48	16.64	11.10
3.0	-3.1	16.38	16.70	12.39	13.08	14.38	15.39	14.85	13.51	16.95	13.52	16.87	13.76	16.86	16.07	16.93	14.01	14.18	12.54	17.01		14.96	12.46	14.29	17.27	16.55	11.80
4.0	-4.1	16.32	16.79	13.37	14.02	15.46				17.23	14.72	17.23	14.94	17.21		17.35			13.59	17.61		16.50	13.62	16.09	18.60	17.32	13.30
5.0	-5.1	16.38	16.48	14.21	14.48	15.78	15.24	14.64	14.99	16.58	14.97	16.51	15.19	16.40	13.84	16.46	14.04	15.87	13.59	16.24		15.60	13.14	17.70	17.00	15.77	12.90
6.0	-6.1	16.33	16.76	15.76	15.81	17.04		15.89	16.65	17.69	16.75	17.76	17.17	17.77	15.87	18.04	15.92		16.10	19.24		21.00	16.90	19.34	21.60	19.79	17.40
7.0	-7.1	16.36	16.73	17.00	16.78	17.51				18.12	17.62	18.16	18.22	18.19		18.47	16.75	18.49	16.99	18.32		18.11	16.43	17.89	19.79	17.93	16.40
8.0	-8.1	16.40	16.48	16.72	16.48	16.68				16.68	16.38	16.50		16.40		16.40	15.31	16.36	15.59	15.81			14.67	15.38	17.04	15.32	14.50
9.0	-9.1	16.54	16.72	17.14	16.74	16.91	17.63		16.81	16.92	16.86	16.85		16.80	16.61	16.80	16.17	16.77	16.44	16.12		15.91	15.45	15.74	17.47	15.64	15.30
10.0	-10.1	16.40	16.64	17.06	16.67	16.85		16.73	16.72	16.75	16.77	16.77		16.75	16.82	16.78	16.54	16.72	16.68	15.89		15.68	15.47	15.48	17.29	15.38	15.20

* The initial reading (Nov 15/81) is excluded from the data set because post-installation equilibrium may not have been complete.

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	9-Dec-81	30-May-94	14-Sep-94	21-Sep-95	13-Sep-96	10-Nov-97	12-Nov-98	14-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	13-Sep-01	13-Jun-02	13-Sep-02	17-Jun-03	28-Oct-03	6-Jul-04	18-Sep-04	6-Jun-07	24-Sep-07	23-Jun-08	24-Sep-08	30-Jun-09	20-May-10	2-Jun-10	10-Sep-10
1.0	-1.1	-2.20	2.28	6.11	5.43	4.96	-0.22	-0.31	6.35	2.01	5.66	4.67	5.56	4.53	5.71	3.86	1.00	10.65	5.26	3.40	5.09	7.48	5.22	7.85	-0.77	3.07	8.34
2.0	-2.1	0.00	-0.56	6.54	5.52	3.81		1.27	5.18	-0.80	5.08	-0.97	5.38	-0.61	6.40	-0.69	2.51	5.89	5.89	-0.98	5.15	3.57	5.84	4.69	-1.48	-0.51	7.54
3.0	-3.1	-0.30	-0.68	5.25	4.16	2.27	0.93	1.63	3.51	-0.97	3.50	-0.87	3.15	-0.86	0.08	-0.94	2.79	2.55	5.01	-1.03		1.49	5.14	2.39	-1.35	-0.51	6.19
4.0	-4.1	-0.20	-0.75	3.75	2.80	0.87				-1.25	1.84	-1.25	1.54	-1.23					3.43	-1.68		-0.41	3.38	0.08	-2.77	-1.36	3.85
5.0	-5.1	-0.30	-0.42	2.51	2.13	0.43	1.12	1.91	1.45	-0.54	1.47	-0.45	1.18	-0.32	3.03	-0.39	2.74	0.32	3.40	-0.13		0.66	4.07	-1.81	-1.04	0.44	4.41
6.0	-6.1	-0.20	-0.71	0.50	0.44	-1.03		0.34	-0.58	-1.76	-0.69	-1.83	-1.18	-1.84	0.36	-2.14	0.30		0.08	-3.38		-5.05	-0.87	-3.48	-5.61	-3.92	-1.42
7.0	-7.1	-0.20	-0.64	-0.95	-0.70	-1.53				-2.19	-1.65	-2.23	-2.30	-2.27			-0.66	-2.58	-0.94	-2.40		-2.18	-0.29	-1.94	-3.90	-1.98	-0.25
8.0	-8.1	-0.30	-0.40	-0.68	-0.40	-0.63				-0.63	-0.28	-0.42		-0.30			1.05	-0.25	0.69	0.42			1.94	1.01	-1.06	1.06	2.16
9.0	-9.1	-0.40	-0.61	-1.09	-0.63	-0.83	-1.64		-0.71	-0.84	-0.77	-0.76		-0.70	-0.48	-0.70	0.04	-0.67	-0.28	0.10		0.36	0.94	0.57	-1.47	0.69	1.12
10.0	-10.1	-0.30	-0.59	-1.07	-0.62	-0.83		-0.69	-0.68	-0.71	-0.74	-0.74		-0.71	-0.80	-0.75	-0.47	-0.68	-0.63	0.32		0.58	0.84	0.83	-1.34	0.96	1.19

Table H-6 and H-7 : Diversion Canal (Canal Dyke)
2010 Inclinometer Data - CD-10 and CD-15

CD-10				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 11:49 ON 16/09/10				
DEPTH OF TUBE : -10.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	0.00925	-0.007861	-0.007494	0.007444
-1	0.010388	-0.008983	-0.008064	0.008043
-1.5	0.009198	-0.007761	-0.001517	0.001572
-2	0.008524	-0.007263	0.009202	-0.009196
-2.5	0.009293	-0.00793	0.012388	-0.012407
-3	0.011919	-0.010609	0.016162	-0.01616
-3.5	0.015024	-0.013739	0.020206	-0.020215
-4	0.016902	-0.015579	0.021983	-0.021975
-4.5	0.021073	-0.019869	0.025361	-0.025342
-5	0.028197	-0.026904	0.029913	-0.030025
-5.5	0.031303	-0.030109	0.03106	-0.031066
-6	0.033428	-0.032223	0.029967	-0.029973
-6.5	0.034128	-0.033008	0.02652	-0.026518
-7	0.032706	-0.031162	0.022667	-0.022734
-7.5	0.030001	-0.028705	0.017382	-0.017155
-8	0.023907	-0.022489	0.008569	-0.008605
-8.5	0.021575	-0.020081	0.007579	-0.007658
-9	0.021326	-0.019852	0.00687	-0.006935
-9.5	0.020919	-0.019429	0.0067	-0.006768
-10	0.021212	-0.019766	0.006619	-0.006674

CD-15				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 11:36 ON 16/09/10				
DEPTH OF TUBE : -10.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.079851	0.078091	0.041842	-0.043828
-1	-0.040352	0.039556	0.010234	-0.010721
-1.5	-0.023649	0.024481	0.00535	-0.005371
-2	-0.024388	0.025258	0.004002	-0.004015
-2.5	-0.024825	0.025639	0.006416	-0.006541
-3	-0.020905	0.021858	0.005696	-0.005741
-3.5	-0.01787	0.018696	0.004655	-0.004551
-4	-0.009272	0.0101	0.007867	-0.008001
-4.5	-0.002528	0.003432	0.006854	-0.006906
-5	0.003988	-0.003027	0.005162	-0.005257
-5.5	0.007893	-0.007068	0.00628	-0.006337
-6	0.010387	-0.009476	0.007129	-0.007227
-6.5	0.014356	-0.013505	0.005936	-0.006098
-7	0.026243	-0.025429	0.003952	-0.003954
-7.5	0.031568	-0.030735	0.00228	-0.002424
-8	0.032097	-0.031288	0.002147	-0.002281
-8.5	0.031334	-0.030506	0.00212	-0.002307
-9	0.029956	-0.02915	0.005082	-0.005173
-9.5	0.029616	-0.028832	0.007669	-0.007841
-10	0	0	0	0

Table H-8 and H-9: Diversion Canal (Canal Dyke)
2010 Inclinometer Data - CD-19 and CD-21

CD-19				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 12:17 ON 16/09/10				
DEPTH OF TUBE : -10.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.067941	0.069003	-0.019026	0.020413
-1	-0.065841	0.067014	-0.01777	0.019034
-1.5	-0.054837	0.056135	-0.01305	0.013906
-2	-0.045453	0.046596	-0.013705	0.014948
-2.5	-0.040599	0.041799	-0.015059	0.016353
-3	-0.038928	0.040106	-0.014555	0.015782
-3.5	-0.039959	0.041154	-0.014534	0.015713
-4	-0.041829	0.04297	-0.017677	0.019054
-4.5	-0.045059	0.046229	-0.021165	0.022267
-5	-0.053169	0.054179	-0.025408	0.026936
-5.5	-0.059325	0.060529	-0.024604	0.025783
-6	-0.056905	0.058151	-0.025298	0.02664
-6.5	-0.048593	0.049721	-0.025889	0.027075
-7	-0.046172	0.047266	-0.026535	0.027881
-7.5	-0.049025	0.050313	-0.021236	0.02202
-8	-0.053602	0.054696	-0.023297	0.024969
-8.5	-0.050327	0.051476	-0.020924	0.021881
-9	-0.073458	0.074582	-0.035971	0.040402
-9.5	-0.094136	0.094372	-0.050506	0.053535
-10	-0.059873	0.061325	-0.036546	0.034896

CD-21				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 17:20 ON 13/09/10				
DEPTH OF TUBE : -10.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.086012	0.087173	-0.028259	0.028356
-1	-0.072502	0.07163	-0.016077	0.018107
-1.5	-0.042996	0.043528	0.007761	-0.005012
-2	-0.028376	0.029612	0.017846	-0.017951
-2.5	-0.025381	0.026727	0.02098	-0.020671
-3	-0.023065	0.023992	0.034892	-0.035061
-3.5	-0.021167	0.022548	0.039708	-0.039539
-4	-0.019139	0.019995	0.048821	-0.048832
-4.5	-0.003677	0.004615	0.055865	-0.055835
-5	0.013912	-0.012018	0.051304	-0.051548
-5.5	-0.011159	0.012557	0.054426	-0.0543
-6	0.005364	-0.004625	0.068033	-0.068159
-6.5	0.021147	-0.02496	0.072291	-0.070771
-7	0.005512	-0.003061	0.045596	-0.045768
-7.5	0.014299	-0.011544	0.073708	-0.072944
-8	0.00708	-0.005748	0.077382	-0.077588
-8.5	0.007684	-0.006117	0.063764	-0.063968
-9	0.007084	-0.006424	0.059194	-0.059002
-9.5	0.007315	-0.006201	0.045663	-0.04578
-10	0.000133	0.001556	0.039501	-0.039452

Table H-10 and H-11: Diversion Canal (Canal Dyke)
2010 Inclinometer Data - BH94CD-1 and BGC05-08

BH94CD-1				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 16:05 ON 13/09/10				
DEPTH OF TUBE : -2.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.02408	0.025219	-0.030948	0.030821
-1	-0.018271	0.019941	-0.020205	0.020045
-1.5	-0.005931	0.006803	0.000426	-0.000276
-2	-0.005964	0	0.000395	0

BGC05-08				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 16:46 ON 13/09/10				
DEPTH OF TUBE : -13.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.000803	0.001337	0.006499	-0.00654
-1	-0.000826	0.00182	0.005247	-0.005364
-1.5	-0.001678	0.002889	0.003482	-0.003667
-2	-0.004591	0.005731	0.002387	-0.002563
-2.5	-0.006738	0.00796	0.001307	-0.001513
-3	-0.007441	0.008583	0.000151	-0.000372
-3.5	-0.005935	0.007134	-0.001416	0.001222
-4	-0.005547	0.006733	-0.001651	0.0014
-4.5	-0.005929	0.007133	-0.002046	0.001858
-5	-0.005512	0.006693	-0.003712	0.003509
-5.5	-0.003518	0.004723	-0.005625	0.005422
-6	-0.001263	0.002438	-0.006644	0.006446
-6.5	-0.002744	0.003935	-0.006356	0.006172
-7	-0.004835	0.006054	-0.006861	0.006605
-7.5	-0.004747	0.005944	-0.009789	0.009595
-8	-0.008535	0.009729	-0.008928	0.008749
-8.5	-0.013294	0.014512	-0.009371	0.009148
-9	-0.019852	0.021057	-0.010755	0.010554
-9.5	-0.022359	0.023531	-0.010912	0.010703
-10	-0.02352	0.024726	-0.01223	0.011969
-10.5	-0.024652	0.025832	-0.014354	0.014175
-11	-0.023485	0.024633	-0.015958	0.015832
-11.5	-0.020991	0.022174	-0.017333	0.01714
-12	-0.024266	0.025448	-0.015609	0.015345
-12.5	-0.025033	0.026295	-0.014464	0.014204
-13	0	0	0	0

Table H-12 and H-13: Diversion Canal (Canal Dyke)
2010 Inclinometer Data - BGC05-05 and BH91-CD1

BGC05-05				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 17:06 ON 13/09/10				
DEPTH OF TUBE : -12.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.00862	0.009736	0.002752	-0.00281
-1	-0.00874	0.009929	0.00377	-0.00389
-1.5	-0.01043	0.011663	0.004212	-0.00431
-2	-0.01261	0.013762	0.004268	-0.00437
-2.5	-0.0145	0.015613	0.0047	-0.00477
-3	-0.01431	0.015508	0.004035	-0.00409
-3.5	-0.01412	0.015292	0.003262	-0.0033
-4	-0.0129	0.014111	0.002708	-0.00281
-4.5	-0.01122	0.012369	0.001985	-0.00207
-5	-0.00936	0.010576	0.00132	-0.0014
-5.5	-0.00818	0.009381	0.000911	-0.00101
-6	-0.00466	0.005788	0.000743	-0.00082
-6.5	-0.00432	0.005501	0.001402	-0.0015
-7	-0.00503	0.006202	0.001769	-0.00191
-7.5	-0.00605	0.007172	0.001929	-0.00204
-8	-0.00705	0.008268	0.00218	-0.00231
-8.5	-0.00856	0.009807	0.002463	-0.00259
-9	-0.00808	0.009243	0.00356	-0.00374
-9.5	-0.00896	0.010185	0.004295	-0.00443
-10	-0.01166	0.012938	0.003685	-0.00384
-10.5	-0.01274	0.01393	0.004356	-0.00459
-11	-0.01345	0.014739	0.003837	-0.00404
-11.5	-0.01415	0.015377	0.003452	-0.0037
-12	0	0	0	0

BH91-CD1				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 11:20 ON 16/09/10				
DEPTH OF TUBE : -11.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.0008	0.001337	0.006499	-0.00654
-1	-0.00083	0.00182	0.005247	-0.00536
-1.5	-0.00168	0.002889	0.003482	-0.00367
-2	-0.00459	0.005731	0.002387	-0.00256
-2.5	-0.00674	0.00796	0.001307	-0.00151
-3	-0.00744	0.008583	0.000151	-0.00037
-3.5	-0.00594	0.007134	-0.00142	0.001222
-4	-0.00555	0.006733	-0.00165	0.0014
-4.5	-0.00593	0.007133	-0.00205	0.001858
-5	-0.00551	0.006693	-0.00371	0.003509
-5.5	-0.00352	0.004723	-0.00563	0.005422
-6	-0.00126	0.002438	-0.00664	0.006446
-6.5	-0.00274	0.003935	-0.00636	0.006172
-7	-0.00484	0.006054	-0.00686	0.006605
-7.5	-0.00475	0.005944	-0.00979	0.009595
-8	-0.00854	0.009729	-0.00893	0.008749
-8.5	-0.01329	0.014512	-0.00937	0.009148
-9	-0.01985	0.021057	-0.01076	0.010554
-9.5	-0.02236	0.023531	-0.01091	0.010703
-10	-0.02352	0.024726	-0.01223	0.011969
-10.5	-0.02465	0.025832	-0.01435	0.014175
-11	-0.02349	0.024633	-0.01596	0.015832
-11.5	-0.02099	0.022174	-0.01733	0.01714
-12	-0.02427	0.025448	-0.01561	0.015345
-12.5	-0.02503	0.026295	-0.01446	0.014204
-13	0	0	0	0

Table H-14 and H-15: Diversion Canal (Spoil Pile)
2010 Inclinometer Data - SP-2 and SP-5

SP-2				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 14:52 ON 25/06/10				
DEPTH OF TUBE : -7.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	-0.0442	0.04506	0.02334	-0.0237
-1	-0.0408	0.04177	0.02422	-0.0245
-1.5	-0.0253	0.026	0.0248	-0.0252
-2	0.00439	-0.0036	0.01806	-0.0182
-2.5	-0.0003	0.00112	0.01873	-0.0191
-3	0.0129	-0.0129	0.00543	-0.0043
-3.5	0.015	-0.0154	0.01177	-0.0126
-4	-0.0104	0.01099	0.02999	-0.0304
-4.5	0.00743	-0.0066	0.01984	-0.02
-5	0.02627	-0.0257	0.01523	-0.0151
-5.5	0.02584	-0.025	-0.0084	0.00811
-6	0.03347	-0.0337	-0.0237	0.02212
-6.5	0.01933	-0.0222	0.02075	-0.0192
-7	0.03302	-0.0354	0.04735	-0.0463

SP-5				
FACES LOGGED : ABCD				
TIME/DATE TAKEN : 14:27 ON 25/06/10				
DEPTH OF TUBE : -8.0				
READING INTERVAL : 0.5				
DEPTH	FACE A+	FACE A-	FACE B+	FACE B-
meters	meters	meters	meters	meters
-0.5	0.02524	-0.0287	0.03968	-0.0342
-1	0.0241	-0.027	0.03591	-0.0333
-1.5	0.0111	-0.0117	0.0209	-0.0171
-2	0.00056	-2E-05	0.00392	-0.0043
-2.5	-0.0027	0.00322	0.00361	-0.004
-3	0.00136	-0.0008	0.00704	-0.0073
-3.5	0.01819	-0.0177	0.00934	-0.0095
-4	0.02663	-0.0262	9.8E-05	-0.0002
-4.5	0.0252	-0.0247	-0.0038	0.00323
-5	0.01526	-0.0148	0.00234	-0.0026
-5.5	0.01624	-0.0158	0.00566	-0.0057
-6	0.03065	-0.0301	-0.0065	0.00593
-6.5	0.04576	-0.0451	-0.0128	0.01322
-7	0.02038	-0.0215	-0.0043	0.00804
-7.5	0.00606	-0.0055	0.0098	-0.0099
-8	0.01924	-0.0187	-0.0007	0.00029

Table H-16: Diversion Canal (Canal Dyke) Piezometric Monitoring BGC05-02

BGC05-02		Location:	Canal Dike St.1+900		
		Coordinates:	8V580881 6913412	Ground Elevation (m amsl):	1054.10
Surface Protector:	Yes	Date Installed:	2005	Tip Elevation (m amsl):	1044.65
Date		Reading (psi) (#030137)		Piezometric Elevation (m amsl)	Comments
14-Jun-06		1.9		1045.98	
2-Oct-06		1.7		1045.84	
6-Jun-07		2		1046.05	good flow
24-Sep-07		0.8		1045.21	
24-Jun-08		2.5		1046.40	
24-Sep-08		3		1046.75	
30-Jun-09		n/r			
17-Sep-09		1.8		1045.91	
20-May-10		1.6		1045.77	
2-Jun-10		2.7		1046.54	
10-Sep-10		0.1		1044.72	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Table H-17: Diversion Canal (Canal Dyke) Piezometric Monitoring BGC05-03

BGC05-03		Location:	Canal Dike St.1+900		
		Coordinates:	8V580868 6913418	Ground Elevation (m amsl):	1054.68
Surface Protector:	Yes	Date Installed:	2005	Tip Elevation (m amsl):	1050.64
Date		Reading (psi) (#030139)		Piezometric Elevation (m amsl)	Comments
14-Jun-06		0.3		1050.85	
2-Oct-06		0.5		1050.99	
6-Jun-07		0.5		1050.99	good flow
24-Sep-07		0		1050.64	
24-Jun-08		0.4		1050.92	
24-Sep-08		0.5		1050.99	
30-Jun-09		0.3		1050.85	
17-Sep-09		0.3		1050.85	
20-May-10		0.4		1050.92	
2-Jun-10		1.4		1051.62	
10-Sep-10		0.4		1050.92	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation
Review; 2010 Data compiled by DES

Table H-18: Diversion Canal (Canal Dyke)
Piezometric Monitoring BGC05-06

BGC05-06		Location:	Canal Dike St. 2+160 (approx)	Ground Elevation (m amsl):	1050.31
		Coordinates:	8V580715 6913517	Shallow Tip Elevation (m amsl):	1046.78
Surface Protector:	Yes	Date Installed:	2005	Deep Tip Elevation (m amsl):	1041.50

	Reading (psi)		Piezometric Elevation (m amsl)		
	Shallow PP	Deep PP	Shallow	Deep	
Date	(#030138)	(#030136)	(#030138)	(#030136)	Comments
14-Sep-05	0.2	0.3	1046.92	1041.71	
14-Jun-06	0.2	0.3	1046.92	1041.71	
2-Oct-06	0.2	0.3	1046.92	1041.71	
6-Jun-07	0.3	0.4	1046.99	1041.78	good flow
24-Sep-07	0	0	1046.777	1041.50	
24-Jun-08	0.3	0.2	1046.987	1041.64	
24-Sep-08	0.3	0.2	1046.99	1041.64	
30-Jun-09	0.1	0.2	1046.85	1041.64	
17-Sep-09	0.3	0.3	1046.99	1041.71	
19-May-10	0.2	0.3	1046.92	1041.71	
2-Jun-10	1.2	1	1047.62	1042.20	
10-Sep-10	0.1	0.1	1046.85	1041.57	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-19: Diversion Canal (Canal Dyke)
Piezometeric Monitoring CD-13

CD-13		Location:	Canal Dike St.1+350	Ground Elevation (m amsl):	1055.214
		Coordinates:	8V581400 6913185	Shallow Tip Elevation (m amsl):	1048.70
Surface Protector:	yes	Date Installed:	1981	Deep Tip Elevation (m amsl):	1044.70

	Reading (psi)		Piezometric Elevation (m amsl)		
	Shallow PP	Deep PP	Shallow	Deep	
Date	(#350)	(#381)	(#350)	(#381)	Comments
Nov-81	3.2	7.9	1050.94	1050.23	
Dec-81	2.8	7.5	1050.63	1049.95	
Mar-82	0.9	5.0	1049.33	1048.20	
May-82	0.4	4.1	1048.98	1047.57	
Aug-82	3.4	7.9	1051.08	1050.23	
Apr-83	2.7	7.3	1050.59	1049.81	
Sep-83	3.3	7.9	1051.01	1050.23	
Mar-84	2.4	7.0	1050.38	1049.60	
Jun-84	3.6	8.6	1051.22	1050.72	
Sep-84	2.8	7.7	1050.66	1050.09	
Oct-85	3.7	8.6	1051.29	1050.72	
Oct-86	3.3	8.2	1051.01	1050.44	
Oct-87	3.4	8.2	1051.08	1050.44	
Oct-88	3.2	8.0	1050.94	1050.30	
Sep-89	2.0	7.7	1050.10	1050.09	
Oct-90	3.7	8.5	1051.29	1050.65	
Sep-91	2.8	7.9	1050.66	1050.23	
Sep-92	3.5		1051.12		
May-94	2.8	7.7	1050.66	1050.09	
Sep-94	2.0	7.5	1050.10	1049.95	
Sep-95	0.5	7.5	1049.05	1049.95	
Sep-96	3.4	8.3	1051.08	1050.48	
8-May-97	2.0	7.9	1050.10	1050.23	
7-Nov-97	2.5	7.5	1050.45	1049.95	
26-May-98	3.4	8.3	1051.06	1050.51	
15-Nov-98	2.7	7.7	1050.59	1050.09	
28-May-99	3.3	8.1	1051.01	1050.37	
11-Sep-99	3.1	8.0	1050.87	1050.30	
14-Jun-00	4.2	9.1	1051.64	1051.07	
9-Sep-00	3.8	8.7	1051.36	1050.79	
6-Jun-01	4.2	8.8	1051.64	1050.86	
19-Sep-01	3.0	7.9	1050.80	1050.23	
13-Jun-02	2.1	8.6	1050.17	1050.72	
12-Sep-02	2.2	8.4	1050.24	1050.58	
17-Jun-03	0.1	8.6		1050.72	(#350 very wet)
12-Sep-03	0.1	7.8		1050.16	(#350 very wet)
6-Jul-04	1.3	8.0	1049.61	1050.30	(#350 kept rising)
16-Sep-04	1.8	7.7	1049.96	1050.09	(#350 kept rising)
31-May-05	2.5	9.1	1050.45	1051.07	(#350 kept rising)
14-Sep-05	1.4	8.0	1049.68	1050.30	#350 Bubbles stop then numbers start rising
14-Jun-06	2.3	8.7	1050.31	1050.79	#350 Keeps Climbing
2-Oct-06	0.9	7.7	1049.33	1050.09	Ice in casing and on cable
6-Jun-07	3.9	9.5	1051.43	1051.35	read three times, was very noisy
24-Sep-07	1.9	8.3	1050.03	1050.51	#350 stopped then keeps rising
24-Jun-08	3.2	8.7	1050.94	1050.79	#350 stopped then keeps rising
24-Sep-08	3.6	8.6	1051.22	1050.72	
30-Jun-09	3.4	8.4	1051.08	1050.58	
29-Sep-09	4.0	8.4	1051.50	1050.58	
16-May-10	2.1	8.0	1050.17	1050.30	
2-Jun-10	2.7	7.3	1050.59	1049.81	
10-Sep-10	3.1	7.9	1050.87	1050.23	

Questionable values

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-20: Diversion Canal (Canal Dyke)
Piezometric Monitoring CD-15

CD-15		Location:	Canal Dike St.1+530	Ground Elevation (m amsl):	1054.882
		Coordinates:	1233.7N, 1028.7E 8V581245 6913275	Shallow Tip Elevation (m amsl):	1048.10
Surface Protector:	yes	Date Installed:	1981	Deep Tip Elevation (m amsl):	1043.30

	Reading (psi)		Piezometric Elevation (m amsl)		
	Shallow PP	Deep PP	Shallow	Deep	
Date	(#353)	(#362)	(#353)	(#362)	Comments
Nov-81	0.0	0.1	1048.1	1043.37	
Dec-81	0.0	0.0	1048.1	1043.314	
Mar-82	1.0	0.1	1048.8	1043.37	
May-82	0.1		1048.17		
Aug-82	2.7		1049.99		
Apr-83	2.0		1049.5		
Sep-83	2.7		1049.99		
Mar-84	1.4		1049.08		
Jun-84	3.1		1050.27		
Oct-85	4.5		1051.25		
Oct-86	3.6		1050.62		
Oct-87	3.3		1050.41		
Oct-88	3.0		1050.2		
Sep-89	2.8		1050.06		
Jan-90	0.8		1048.66		
Oct-90	4.0		1050.9		
Sep-91	3.0		1050.2		
Sep-92	2.4		1049.78		
May-94	2.3	10.4	1049.71	1050.58	
Sep-94	0.7	8.0	1048.59	1048.9	
Sep-95	1.0	9.0	1048.8	1049.6	
Sep-96	2.4	9.1	1049.745	1049.67	
8-May-97	0.6	7.0	1048.52	1048.2	
6-Nov-97	1.2	3.4	1048.919	1045.645	
26-May-98	1.9	9.2	1049.43	1049.74	
15-Nov-98	1.3		1049.01		No return in deep piezo
4-Dec-98	0.7	7.3	1048.59	1048.41	
16-Dec-98	0.4	6.9	1048.38	1048.13	
28-May-99	0.3	7.4	1048.31	1048.494	
11-Sep-99	0.5	8.5	1048.45	1049.25	
14-Jun-00	0.5	9.9	1048.45	1050.23	
9-Sep-00	0.6		1048.52		No return in deep piezo
19-Sep-00	0.5	11.0	1048.45	1050.965	
6-Jun-01	0.6	5.9	1048.52	1047.43	
19-Sep-01	0.0	8.0	1048.1	1048.9	Shallow tip is "dry"
13-Jun-02	0.7	2.8	1048.59	1045.26	
12-Sep-02	0.6	9.8	1048.52	1050.16	
17-Jun-03	0.0	9.1	1048.1	1049.67	*readings recorded with
12-Sep-03	0.5	8.1	1048.45	1048.97	new piezometer
6-Jul-04	0.0	8.6	1048.128	1049.32	
16-Sep-04	0.5	7.8	1048.45	1048.76	
31-May-05	1.2	10.0	1048.94	1050.3	
14-Sep-05	0.6	8.0	1048.52	1048.9	
14-Jun-06	0.7	9.0	1048.59	1049.6	
2-Oct-06	0.6	7.7	1048.52	1048.69	
6-Jun-07	0.1	7.2	1048.17	1048.34	good flow
24-Sep-07	dry	3.9		1046.03	#353 Dropping - #362 No Bubbles
24-Jun-08	1.0	0.2	1048.8	1043.44	
24-Sep-08	1.2	9.8	1048.94	1050.16	
30-Jun-09	1.7	9.1	1049.29	1049.67	
17-Sep-09	0.8	8.0	1048.66	1048.9	
16-May-10	0.8	0.9	1048.66	1043.93	
2-Jun-10	2.7	9.6	1049.99	1050.02	
10-Sep-10	0.5	7.9	1048.45	1048.83	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-21: Diversion Canal (Canal Dyke)
Piezometric Monitoring CD-21

CD-21		Location:	Canal Dike St.2+100	Ground Elevation (m amsl):	1053.447
		Coordinates:	1455.9N, 509.5E 8V580724 6913495	Shallow Tip Elevation (m amsl):	1047.50
Surface Protector:	yes	Date Installed:	1981	Deep Tip Elevation (m amsl):	1042.00

	Reading (psi)		Piezometric Elevation (m amsl)		
	Shallow PP	Deep PP	Shallow	Deep	
Date	(#345)	(#366)	(#345)	(#366)	Comments
Nov-81	1.2	0.4	1048.34	1042.28	
Dec-81	1.1	0.8	1048.27	1042.55	
Mar-82	1.0	0.6	1048.20	1042.42	
May-82	0.7	0.4	1047.99	1042.28	
Aug-82	0.7	0.4	1047.99	1042.28	
Apr-83	0.9	0.4	1048.13	1042.28	
Sep-83	0.8	0.4	1048.06	1042.28	
Mar-84	1.0	0.7	1048.20	1042.49	
Jun-84	1.3	1.3	1048.41	1042.91	
Sep-84	1.5	0.6	1048.55	1042.42	
Oct-85	4.4	4.3	1050.58	1045.01	
Oct-86	6.8	6.3	1052.26	1046.41	
Oct-87	2.0	6.5	1048.90	1046.55	
Oct-88	2.9	5.3	1049.53	1045.71	
Jun-89	3.2	4.9	1049.74	1045.43	
Aug-89	3.5	4.9	1049.95	1045.43	
Sep-89	3.4	4.7	1049.88	1045.29	
Jan-90	1.1	4.8	1048.27	1045.36	
Feb-90	0.9	4.4	1048.13	1045.08	
Mar-90	0.9	4.5	1048.13	1045.15	
Apr-90	1.0	4.6	1048.20	1045.22	
May-90	1.3	4.7	1048.41	1045.29	
Jun-90	2.6	4.4	1049.32	1045.08	
Jul-90	3.6	4.3	1050.02	1045.01	
Oct-90	3.4	4.5	1049.88	1045.15	
Feb-91	0.9	4.1	1048.13	1044.87	
Mar-91	2.8	4.4	1049.46	1045.08	
Apr-91	0.6	4.2	1047.92	1044.94	
May-91	0.9	4.3	1048.13	1045.01	
Jun-91	4.7	4.0	1050.79	1044.80	
Jul-91	4.1	4.1	1050.37	1044.87	
Sep-91	3.8	3.9	1050.16	1044.73	
Apr-92	4.7	5.0	1050.76	1045.47	
Jun-92	6.8	7.9	1052.26	1047.51	
Sep-92	4.2	4.3	1050.44	1045.01	
May-94	4.2	4.1	1050.44	1044.87	
Sep-94	4.0	1.6	1050.30	1043.12	
Sep-95	3.5	0.5	1049.95	1042.35	
Sep-96	4.3	1.3	1050.51	1042.88	
8-May-97	5.8	1.6	1051.56	1043.12	
10-Nov-97	3.7	1.1	1050.09	1042.77	
26-May-98	5.2	0.7	1051.11	1042.49	
15-Nov-98	3.5	n.r.	1049.95		
4-Dec-98	3.8	0.9	1050.16	1042.63	
28-May-99	3.5	1.1	1049.94	1042.77	
11-Sep-99	4.1	1.1	1050.37	1042.77	
14-Jun-00	4.0	1.1	1050.30	1042.77	
9-Sep-00	4.3	1.2	1050.51	1042.84	
6-Jun-01	3.6	1.1	1049.99	1042.77	
19-Sep-01	3.7	1.3	1050.09	1042.91	
13-Jun-02	2.3	1.2	1049.11	1042.84	
12-Sep-02	2.8	1.2	1049.46	1042.84	
17-Jun-03	0.9	0.9	1048.13	1042.63	*readings recorded with new piezometer
12-Sep-03	1.1	0.9	1048.27	1042.63	
6-Jul-04	1.0	0.9	1048.20	1042.63	#366 Bubbles stpped at 1.7Psi
16-Sep-04	1.0	1.0	1048.20	1042.70	
31-May-05	0.9	1.0	1048.13	1042.70	casing full of water, lots of air over 35 psi
14-Sep-05	1.3		1048.41		#366 - gone
14-Jun-06	0.9		1048.13		#366 - gone
2-Oct-06	1.1		1048.27		#366 - gone
6-Jun-07	1.1	n.r.	1048.27		#366 - gone
24-Sep-07	1.7	n.r.	1048.69		#366 - gone (No Cable)
24-Jun-08	1.2		1048.34		#366 - gone
24-Sep-08	2.0		1048.90		#366 - gone
30-Jun-09	1.0	n.r.	1048.20		#366 - gone
17-Sep-09	1.7	n.r.	1048.69		#366 - gone
18-May-10	1.0	n.r.	1048.20		#366 - gone
2-Jun-10	1.5	n.r.	1048.55		#366 - gone
10-Sep-10	1.1	n.r.	1048.27		#366 - gone

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-22: Diversion Canal (Canal Dyke)
Piezometric Monitoring CD-26

CD-26		Location:	Canal Dike St.2+600	Ground Elevation (m amsl):	1053.10
		Coordinates:	1674.7N, 71.7E 8V580284 6913710	Shallow Tip Elevation (m amsl):	1048.20
Surface Protector:	yes	Date Installed:	1981	Deep Tip Elevation (m amsl):	1042.00

	Reading (psi)		Piezometric Elevation (m amsl)		
	Shallow PP	Deep PP	Shallow	Deep	
Date	(#349)	(#356)	(#349)	(#356)	Comments
Nov-81	0.3	0.5	1048.41	1042.35	
Dec-81	0.5	0.7	1048.55	1042.49	
Mar-82	0.6	0.7	1048.62	1042.49	
May-82	0.4	0.4	1048.48	1042.28	
Aug-82	0.3	0.5	1048.41	1042.35	
Apr-83	0.4	0.6	1048.48	1042.42	
Sep-83	0.4	0.6	1048.48	1042.42	
Mar-84	0.2	0.4	1048.34	1042.28	
Jun-84	0.2	0.5	1048.34	1042.35	
Sep-84	0.4	0.6	1048.48	1042.42	
Oct-85	1.1	1.3	1048.97	1042.91	
Oct-86	1.3	1.2	1049.11	1042.84	
Oct-87	1.0	1.3	1048.90	1042.91	
Jul-88	2.3	2.3	1049.81	1043.61	
Oct-88	0.7	0.8	1048.69	1042.56	
Sep-89	0.5	0.8	1048.55	1042.56	
Oct-90	1.0	1.1	1048.90	1042.77	
Sep-91	0.5	0.7	1048.55	1042.49	
Sep-92	1.3	1.9	1049.11	1043.33	
May-94	0.5	0.8	1048.55	1042.56	
Sep-94	0.6	0.8	1048.62	1042.56	
Sep-95	0.0	0.0	1048.20	1042.00	
Sep-96	0.8	1.2	1048.76	1042.84	
8-May-97	0.6	0.8	1048.62	1042.56	
10-Nov-97	0.6	0.3	1048.59	1042.21	
26-May-98	0.4	0.6	1048.51	1042.42	
12-Nov-98	0.6	0.7	1048.60	1042.49	
28-May-99	1.0	1.2	1048.89	1042.84	
11-Sep-99	0.6	1.0	1048.62	1042.70	
14-Jun-00	0.5	0.8	1048.55	1042.56	
9-Sep-00	0.8	1.2	1048.76	1042.84	
6-Jun-01	0.6	1.0	1048.62	1042.70	
19-Sep-01	0.1	1.0	1048.25	1042.70	
13-Jun-02	0.7	0.9	1048.69	1042.63	
12-Sep-02	0.5	0.9	1048.55	1042.63	
#REF!	0.5	0.8	1048.55	1042.56	*readings recorded with new piezometer
#REF!	0.6	0.9	1048.62	1042.63	
6-Jul-04	0.5	0.9	1048.55	1042.63	
16-Sep-04	0.6	1.0	1048.62	1042.70	
31-May-05	0.5	0.7	1048.55	1042.49	good flow
14-Sep-05	0.5	0.9	1048.55	1042.63	
14-Jun-06	0.5	0.7	1048.55	1042.49	
2-Oct-06	0.5	0.8	1048.55	1042.56	wet in casing
6-Jun-07	0.6	1.0	1048.62	1042.70	good flow
24-Sep-07	0.0	0.3	1048.20	1042.21	
30-Jun-09	0.5	0.6	1048.55	1042.42	
29-Sep-09	0.6	0.8	1048.62	1042.56	
18-May-10	0.5	0.8	1048.55	1042.56	
2-Jun-10	1.0	1.3	1048.90	1042.91	
10-Sep-10	0.6	0.5	1048.62	1042.35	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-23: Rose Creek Staff Gauge-4 (RCSG-4) Readings 2010

Site	RCSG-4		
Date	Time	Reading (m)	Comments
3-Apr-10	3:12 PM	0.050	
19-Apr-10		0.250	
21-Apr-10	8:30 AM	0.545	
22-Apr-10	9:00 AM	0.684	
29-Apr-10	11:10 AM	0.598	
30-Apr-10	9:00 AM	0.520	
1-May-10	8:20 AM	0.485	
2-May-10	8:15 AM	0.425	
3-May-10	4:09 AM	0.355	
4-May-10	9:01 AM	0.375	
5-May-10	10:55 AM	0.326	
6-May-10	8:36 AM	0.291	
7-May-10	6:56 AM	0.291	
8-May-10		0.308	
9-May-10	8:50 AM	0.308	
10-May-10	9:19 AM	0.300	
11-May-10	8:50 AM	0.308	
12-May-10	8:53 AM	0.320	
13-May-10	8:00 AM	0.338	
14-May-10	1:40 PM	0.299	
15-May-10	3:13 PM	0.320	
16-May-10	3:41 PM	0.344	
17-May-10		0.350	
18-May-10	9:15 AM	0.385	
19-May-10	8:59 AM	0.476	
20-May-10	8:54 AM	0.630	
20-May-10	10:56 AM	0.628	
21-May-10	7:55 AM	0.550	
22-May-10	11:05 AM	0.510	
23-May-10	9:00 AM	0.499	
24-May-10	7:45 AM	0.545	
25-May-10	9:25 AM	0.565	
26-May-10	8:51 AM	0.552	
27-May-10	9:36 AM	0.552	
28-May-10	10:03 AM	0.562	
29-May-10	8:02 AM	0.565	
30-May-10	8:05 AM	0.535	
31-May-10	9:44 AM	0.525	
1-Jun-10	9:31 AM	0.492	
2-Jun-10	9:42 AM	0.499	
3-Jun-10	9:14 AM	0.484	
4-Jun-10	11:15 AM	0.509	
5-Jun-10	7:11 AM	0.468	
6-Jun-10	7:04 AM	0.421	
7-Jun-10	9:27 AM	0.410	
8-Jun-10	9:14 AM	0.439	
9-Jun-10	8:55 AM	0.473	

Table H-23: Rose Creek Staff Gauge-4 (RCSG-4) Readings 2010

Site	RCSG-4		
Date	Time	Reading (m)	Comments
10-Jun-10	8:50 AM	0.448	
11-Jun-10	8:05 AM	0.490	
12-Jun-10	8:00 AM	0.440	
13-Jun-10	8:31 AM	0.420	
14-Jun-10	10:28 AM	0.393	
16-Jun-10	9:22 AM	0.385	
17-Jun-10	8:44 AM	0.378	
18-Jun-10	8:16 AM	0.376	
19-Jun-10	8:23 AM	0.398	
20-Jun-10	8:05 AM	0.384	
21-Jun-10	8:24 AM	0.373	
22-Jun-10	10:46 AM	0.411	
23-Jun-10	9:43 AM	0.395	
24-Jun-10	9:26 AM	0.407	
25-Jun-10	8:41 AM	0.391	
26-Jun-10	9:43 AM	0.372	
27-Jun-10	8:45 AM	0.360	
28-Jun-10	8:40 AM	0.370	
29-Jun-10	10:06 AM	0.374	
30-Jun-10	1:37 PM	0.479	
1-Jul-10	8:22 AM	0.436	
2-Jul-10	8:44 AM	0.445	
3-Jul-10	8:39 AM	0.690	
4-Jul-10	8:45 AM	0.659	
5-Jul-10	10:44 AM	0.533	
6-Jul-10	10:14 AM	0.477	
7-Jul-10	9:38 AM	0.444	
8-Jul-10	9:32 AM	0.429	
9-Jul-10	7:57 AM	0.417	
10-Jul-10	9:24 AM	0.398	
11-Jul-10	8:08 AM	0.404	
12-Jul-10	10:24 AM	0.393	
13-Jul-10	8:35 AM	0.370	
14-Jul-10	8:55 AM	0.362	
15-Jul-10	8:52 AM	0.352	
16-Jul-10	7:56 AM	0.360	
17-Jul-10	7:47 AM	0.368	
18-Jul-10	7:33 AM	0.349	
19-Jul-10	8:50 AM	0.335	
20-Jul-10	8:35 AM	0.327	
21-Jul-10	8:49 AM	0.392	
22-Jul-10	9:20 AM	0.368	
23-Jul-10	8:22 AM	0.344	X2 Datalogger downloaded 14:45
24-Jul-10	8:34 AM	0.332	
25-Jul-10	8:15 AM	0.330	
26-Jul-10	9:15 AM	0.319	
27-Jul-10	9:30 AM	0.309	
28-Jul-10	8:51 AM	0.299	

Table H-23: Rose Creek Staff Gauge-4 (RCSG-4) Readings 2010

Site	RCSG-4		
Date	Time	Reading (m)	Comments
29-Jul-10	8:46 AM	0.292	
30-Jul-10	8:28 AM	0.291	
31-Jul-10	8:23 AM	0.286	
1-Aug-10	8:22 AM	0.289	
2-Aug-10	9:04 AM	0.284	
3-Aug-10	8:41 AM	0.285	
4-Aug-10	8:41 AM	0.266	
5-Aug-10	8:41 AM	0.268	
6-Aug-10	8:14 AM	0.268	
7-Aug-10	8:42 AM	0.273	*X2SG below water level
8-Aug-10	8:16 AM	0.296	Rained lots yesterday and today
9-Aug-10	8:33 AM	0.305	
10-Aug-10	9:24 AM	0.283	
11-Aug-10	8:42 AM	0.290	
12-Aug-10	8:34 AM	0.291	
13-Aug-10	9:56 AM	0.274	
14-Aug-10	8:47 AM	0.263	
15-Aug-10	9:11 AM	0.261	
16-Aug-10	8:51 AM	0.255	
17-Aug-10	9:25 AM	0.252	
18-Aug-10	9:05 AM	0.270	
19-Aug-10	10:15 AM	0.287	
20-Aug-10	8:19 AM	0.371	
21-Aug-10	2:11 PM	0.319	
22-Aug-10	7:47 AM	0.309	
23-Aug-10	8:50 AM	0.310	
24-Aug-10	10:43 AM	0.319	
25-Aug-10	8:32 AM	0.315	
26-Aug-10	8:35 AM	0.310	
27-Aug-10	8:18 AM	0.309	
28-Aug-10	8:32 AM	0.306	
29-Aug-10	8:15 AM	0.298	
30-Aug-10	8:59 AM	0.292	
31-Aug-10	10:46 AM	0.290	
1-Sep-10	8:19 AM	0.288	X2 Datalogger downloaded 11:16
2-Sep-10	9:58 AM	0.300	
3-Sep-10	7:54 AM	0.335	
4-Sep-10	8:04 AM	0.340	
5-Sep-10	9:38 AM	0.325	
6-Sep-10	10:12 AM	0.319	
7-Sep-10	8:59 AM	0.315	
8-Sep-10	8:33 AM	0.310	
9-Sep-10	8:30 AM	0.311	
13-Sep-10	8:38 AM	0.311	
14-Sep-10	8:25 AM	0.308	
15-Sep-10	9:48 AM	0.301	
16-Sep-10	8:59 AM	0.299	
20-Sep-10	9:32 AM	0.284	

Table H-23: Rose Creek Staff Gauge-4 (RCSG-4) Readings 2010

Site	RCSG-4		
Date	Time	Reading (m)	Comments
21-Sep-10	9:35 AM	0.271	
22-Sep-10	9:05 AM	0.283	
23-Sep-10	11:16 AM	0.384	
27-Sep-10	10:12 AM	0.299	
28-Sep-10	9:17 AM	0.299	
29-Sep-10	9:17 AM	0.291	
30-Sep-10	9:46 AM	0.280	
4-Oct-10	10:24 AM	0.282	
5-Oct-10	1:43 PM	0.267	
6-Oct-10	2:19 PM	0.280	
7-Oct-10	2:18 PM	0.256	
12-Oct-10	1:02 PM	0.241	
13-Oct-10	5:05 PM	0.280	
14-Oct-10	4:20 PM	0.269	
18-Oct-10	1:05 PM	0.258	
19-Oct-10	3:50 PM	0.256	
20-Oct-10	11:56 AM	0.225	
25-Oct-10	10:46 AM	0.239	
26-Oct-10	3:26 PM	0.447	
27-Oct-10	10:21 AM	0.244	
28-Oct-10	12:58 PM	0.230	

Denison Environmental Services

Table H-24: Cross Valley Dam
Thermistor - CVDC-6

CVDC-6		Location:	Stn 0+340, Cross Valley Dam Crest	Elevation (m amsl):	1033.	Coordinates:	2182.1 m N 4.7 m E	8V580210 6914218	
		Date Installed:	1981	Thermistor Type:	Cantec Controls YSI 44007	Ice-Bath Calibration:	applied	Surface Protector:	yes
Thermistor String #32		Depth Correction:	0						

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	9-Dec-81	30-May-94	15-Sep-94	22-Sep-95	13-Sep-96	20-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	14-Sep-01	16-Oct-01	18-Oct-01	1-May-02	12-Jun-02
15.0	-15.0	11.05	13.87	14.23	15.64		14.22	14.27	14.55	14.61	14.63	16.26	14.11	14.26	14.35
17.0	-17.0	11.70	13.95	15.22	15.74			14.54	14.79	14.82	14.91	16.48	14.94	14.54	14.59
19.0	-19.0	12.59	13.81	14.63	15.59		14.01	14.29	14.50	14.49	14.60	16.12	14.57	14.18	14.20
21.0	-21.0	13.48	18.73	19.53	20.59	All readings fluctuating	21.25	22.11	22.55	22.63	22.75	24.31	22.82	22.39	22.43
23.0	-23.0	14.16	13.80	14.26	14.97		14.00	14.31	14.54	14.16	14.18	15.02	14.17	13.69	13.75
25.0	-25.0	15.37	13.96	14.42	14.97		14.21	14.45	14.62	14.19	14.27	15.09	14.28	13.70	13.84
27.0	-27.0	15.42	14.26	14.91	15.29		14.55	14.80	14.96	14.96	14.97	15.81	15.00	14.69	14.74
29.0	-29.0	15.35	14.46	14.14	15.44		14.86	15.12	15.22	16.01	16.15	17.05	16.25	16.33	16.37

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	17-Jul-02	9-Sep-02	23-Apr-03	7-May-03	11-Jun-03	15-Jul-03	10-Sep-03	29-Apr-04	19-Jul-04	26-Aug-04	9-Sep-04	26-May-05	12-Oct-05	14-Jun-06	4-Oct-06
15.0	-15.0	14.37	14.30	14.03	13.98	14.19	14.08	14.21	13.99	14.15	14.41	14.30	14.02	14.08	14.03	14.42
17.0	-17.0	14.57	14.47	14.31	14.24	14.41	14.28	14.38	14.30	14.40	14.64	14.43	14.27	14.35	14.32	14.69
19.0	-19.0	14.14	14.06	13.96	13.89	14.05	13.91	13.99	14.02	14.08	14.31	14.09	14.03	14.03	14.14	14.71
21.0	-21.0	22.43	22.44	22.74	22.70	22.29	22.98	23.29	24.02	24.55	24.98	24.81	26.06	26.70	28.20	30.07
23.0	-23.0	13.72	13.66	13.55	13.49	13.68	13.57	13.69	13.70	13.77	14.03	13.78	13.74	13.69	13.83	13.97
25.0	-25.0	13.85	13.79	13.60	13.56	13.79	13.71	13.84	13.74	13.84	14.13	13.86	13.77	13.73	13.85	14.07
27.0	-27.0	14.67	14.57	14.56	14.49	14.65	14.51	14.55	14.61	14.65	14.91	14.62	14.69	14.56	14.79	14.91
29.0	-29.0	16.28	16.16	17.97	18.01	18.44	18.53	19.06	20.24	20.55	20.93	20.69	21.77	21.15	23.59	24.08

* The initial reading (Nov 15/81) is excluded from data set because post-installation equilibrium may not have been complete.

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	9-Dec-81	30-May-94	15-Sep-94	22-Sep-95	13-Sep-96	20-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01	14-Sep-01	16-Oct-01	18-Oct-01	1-May-02	12-Jun-02
15.0	-15.0	7.60	3.01	2.50	0.63		2.51	2.44	2.06	1.97	1.95	-0.13	2.67	2.46	2.33
17.0	-17.0	6.40	2.85	1.12	0.46			2.03	1.69	1.65	1.53	-0.44	1.49	2.03	1.96
19.0	-19.0	4.90	3.04	1.90	0.64		2.76	2.36	2.07	2.09	1.94	-0.02	1.98	2.52	2.49
21.0	-21.0														
23.0	-23.0	2.60	3.11	2.46	1.49		2.82	2.39	2.07	2.60	2.57	1.43	2.58	3.27	3.18
25.0	-25.0	1.00	2.91	2.26	1.52		2.56	2.22	1.99	2.58	2.47	1.36	2.46	3.28	3.08
27.0	-27.0	0.90	2.45	1.56	1.06		2.05	1.71	1.50	1.50	1.48	0.41	1.44	1.86	1.79
29.0	-29.0														

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	17-Jul-02	9-Sep-02	23-Apr-03	7-May-03	11-Jun-03	15-Jul-03	10-Sep-03	29-Apr-04	19-Jul-04	26-Aug-04	9-Sep-04	26-May-05	12-Oct-05	14-Jun-06	4-Oct-06
15.0	-15.0	2.30	2.40	2.78	2.85	2.55	2.71	2.53	2.84	2.61	2.25	2.40	2.79	2.71	2.78	2.23
17.0	-17.0	1.99	2.12	2.35	2.44	2.21	2.39	2.25	2.36	2.22	1.89	2.18	2.40	2.29	2.33	1.83
19.0	-19.0	2.57	2.69	2.83	2.93	2.70	2.90	2.79	2.74	2.66	2.34	2.64	2.73	2.73	2.57	1.79
21.0	-21.0															
23.0	-23.0	3.22	3.31	3.47	3.56	3.28	3.44	3.27	3.25	3.15	2.78	3.14	3.20	3.27	3.07	2.86
25.0	-25.0	3.07	3.15	3.43	3.49	3.15	3.27	3.08	3.23	3.08	2.67	3.05	3.18	3.24	3.07	2.75
27.0	-27.0	1.88	2.02	2.03	2.13	1.91	2.10	2.05	1.96	1.91	1.56	1.95	1.86	2.03	1.72	1.56
29.0	-29.0															

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	9-May-07	24-Sep-07	24-Jun-08	24-Sep-08	21-Mar-09	13-Apr-09	20-Apr-09	27-Apr-09	5-May-09	19-May-09	29-Jun-09	15-Sep-09	19-May-10	3-Jun-10	10-Sep-10
15.0	-15.0	14.04	14.03	14.11	14.29	13.97	13.96	13.93	13.92	2.19	13.93	14.08	14.36	13.92	14.44	14.00
17.0	-17.0	14.31	14.47	14.35	14.88	14.61	14.24	14.23	14.21	2.20	14.20	14.30	14.53	14.17	14.16	14.20
19.0	-19.0	14.02	14.10	14.05	14.22	14.09	14.01	13.99	13.97	2.19	13.95	14.02	14.18	13.93	13.91	13.90
21.0	-21.0	33.33	36.10	41.10	42.50	52.70	43.60	43.50	43.50		43.60	43.90	44.80	45.80	45.80	46.00
23.0	-23.0	13.55	13.60	13.54	13.60	22.63	13.45	13.44	13.42	2.18	13.40	13.46	13.53	13.36	13.33	13.30
25.0	-25.0	13.52	13.60	13.52	13.58	22.97	13.41	13.40	13.38	2.18	13.36	13.42	13.49	o/l	13.30	13.30
27.0	-27.0	14.53	14.48	14.49	14.50	37.09	14.46	14.45	14.43	2.21	14.41	14.48	14.51	14.38	o/l	14.30
29.0	-29.0	25.11	25.75	27.17	27.57		28.52	28.54	28.55	2.39	28.55	28.79	29.42	31.64	o/l	32.90

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	9-May-07	24-Sep-07	24-Jun-08	24-Sep-08	21-Mar-09	13-Apr-09	20-Apr-09	27-Apr-09	5-May-09	19-May-09	29-Jun-09	15-Sep-09	20-May-10	2-Jun-10	10-Sep-10
15.0	-15.0	2.76	2.78	2.67	2.41	2.86	2.88	2.92	2.94	43.96	2.92	2.71	2.32	2.98	2.17	2.85
17.0	-17.0	2.35	2.12	2.29	1.57	1.93	2.44	2.46	2.49	43.83	2.50	2.36	2.04	2.59	2.61	2.55
19.0	-19.0	2.74	2.63	2.70	2.46	2.64	2.76	2.79	2.81	43.90	2.84	2.74	2.52	2.92	2.95	2.96
21.0	-21.0															
23.0	-23.0	3.47	3.40	3.49	3.40	-6.48	3.62	3.64	3.67	44.14	3.70	3.61	3.50	3.87	3.92	3.97
25.0	-25.0	3.55	3.43	3.55	3.46	-6.73	3.71	3.73	3.76	44.17	3.79	3.70	3.59		4.01	4.01
27.0	-27.0	2.07	2.14	2.13	2.11	-15.50	2.17	2.18	2.21	43.79	2.24	2.14	2.10	2.40		2.52
29.0	-29.0															

09-Dec-81 results removed from figure as post installation equillibrium may not be complete

The -21 and -29 metre depth tips are suspect

05-May-09 results are suspect

Faro Mine Closure

Denison Environmental Services

Table H-25: Cross Valley Dam
Thermistor - BH 88-4

BH 88-4		Location:	0+450, Cross Valley Dam Crest		Elevation (m amsl):	1033.	Coordinates:	2018.3 m N, 76.6 m W 8V580127 6914054		
		Date Installed:	1988		Thermistor Type:	Cantec Controls YSI 44007	Ice-Bath Calibration:	no	Surface Protector:	Yes
		Depth Correction:	0							

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	10-Dec-91	24-Jan-92	30-May-94	15-Sep-94	22-Sep-95	13-Sep-96	5-May-97	20-Nov-97	26-May-98	12-Nov-98	28-May-99	20-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01
0.6	-0.6	19.03	20.60	13.87	11.01	11.17	11.28	16.59	16.64	14.19	18.18	14.78	11.07	12.95	11.74	11.86
1.4	-1.4	16.72	18.54	15.54	10.52	11.32	11.43	17.14	15.88	16.51	15.71	16.52	11.25	15.73	11.74	13.71
2.0	-2.0	16.81	17.93	18.04	11.27	12.45	13.01	19.84	17.50	19.19	17.30	19.78	13.61	19.90	14.13	19.22
2.5	-2.5	15.25	16.14	16.60	10.37	11.54	11.91	17.47	14.86	16.70	14.19	16.76	11.64	16.73	12.05	16.67
3.3	-3.3	14.45	15.36	16.31	10.79	11.91	12.48	17.17	14.25	16.40	13.47	16.53	12.09	16.51	12.59	16.33
4.2	-4.2	13.82	14.69	15.87	11.52	12.41	13.19	16.52	13.82	15.98	13.03	16.11	12.72	16.14	13.30	16.03

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	14-Sep-01	18-Oct-01	1-May-02	12-Jun-02	17-Jul-02	9-Sep-02	23-Apr-03	7-May-03	11-Jun-03	15-Jul-03	10-Sep-03	29-Apr-04	19-Jul-04	26-Aug-04	9-Sep-04	26-May-05
0.6	-0.6	11.27	14.42	17.61	12.21	9.99	10.82	17.63	16.47	12.73	9.80	10.73	16.91	8.96	9.06	11.06	13.44
1.4	-1.4	11.26	13.61	18.17	14.42	11.52	11.18	17.86	16.91	14.83	11.60	10.90	17.18	10.03	9.33	10.59	15.84
2.0	-2.0	13.49	15.59	21.52	19.89	15.78	13.85	21.06	20.35	19.94	16.22	13.38	20.44	13.37	11.88	12.67	20.04
2.5	-2.5	11.50	12.85	17.89	17.08	15.04	12.16	17.73	17.47	17.29	15.75	11.87	17.56	12.57	10.92	11.19	17.54
3.3	-3.3	11.87	12.50	16.54	16.55	16.51	12.42	16.34	16.38	16.40	16.35	11.97	16.23	13.22	11.27	11.10	16.24
4.2	-4.2	12.60	12.59	16.04	16.19	16.17	13.12	15.90	15.98	16.08	16.05	12.74	15.82	14.34	12.27	11.86	15.82

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	10-Dec-91	24-Jan-92	30-May-94	15-Sep-94	22-Sep-95	13-Sep-96	5-May-97	20-Nov-97	26-May-98	12-Nov-98	28-May-99	20-Sep-99	7-Jun-00	5-Sep-00	26-Jun-01
0.6	-0.6	-3.10	-4.61	3.10	7.77	7.47	7.27	-0.44	-0.50	2.64	-2.22	1.83	7.66	4.47	6.46	6.25
1.4	-1.4	-0.67	-2.67	0.76	8.62	7.12	6.92	-1.15	0.34	-0.42	0.55	-0.43	7.25	0.53	6.38	3.25
2.0	-2.0	-0.70	-1.96	-2.08	7.28	5.26	4.37	-3.97	-1.56	-3.34	-1.33	-3.92	3.40	-4.03	2.65	-3.37
2.5	-2.5	1.15	0.03	-0.52	8.93	6.74	6.09	-1.52	1.65	-0.65	2.56	-0.72	6.55	-0.68	5.85	-0.61
3.3	-3.3	2.22	1.01	-0.16	8.12	6.10	5.16	-1.19	2.48	-0.29	3.60	-0.45	5.78	-0.42	4.96	-0.21
4.2	-4.2	3.07	1.86	0.33	6.74	5.23	4.00	-0.43	3.09	0.22	4.27	0.06	4.75	0.02	3.86	0.15

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	14-Sep-01	18-Oct-01	1-May-02	12-Jun-02	17-Jul-02	9-Sep-02	23-Apr-03	7-May-03	11-Jun-03	15-Jul-03	10-Sep-03	29-Apr-04	19-Jul-04	26-Aug-04	9-Sep-04	26-May-05
0.6	-0.6	7.29	2.32	-1.60	5.66	9.77	8.13	-1.62	-0.30	4.82	10.17	8.30	-0.81	12.04	11.81	7.68	3.73
1.4	-1.4	7.23	3.40	-2.28	2.24	6.76	7.37	-1.95	-0.89	1.69	6.62	7.89	-1.20	9.61	11.12	8.49	0.39
2.0	-2.0	3.57	0.70	-5.52	-4.02	0.46	3.05	-5.11	-4.46	-4.07	-0.08	3.74	-4.54	3.75	6.14	4.83	-4.17
2.5	-2.5	6.80	4.55	-1.98	-1.08	1.41	5.66	-1.81	-1.52	-1.32	0.50	6.15	-1.62	4.99	7.86	7.36	-1.60
3.3	-3.3	6.15	5.11	-0.46	-0.47	-0.42	5.24	-0.22	-0.27	-0.29	-0.23	5.98	-0.09	3.98	7.21	7.52	-0.10
4.2	-4.2	4.94	4.96	0.14	-0.04	-0.02	4.13	0.31	0.22	0.09	0.13	4.72	0.41	2.35	5.48	6.17	0.41

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	12-Oct-05	14-Jun-06	4-Oct-06	9-May-07	24-Sep-07	24-Jun-08	24-Sep-08	13-Apr-09	20-Apr-09	27-Apr-09	5-May-09	19-May-09	29-Jun-09	15-Sep-09	18-May-10	3-Jun-10	10-Sep-10
0.6	-0.6	13.30	10.79	12.74	16.41	12.54	11.39	12.16	20.13	19.33	18.84	2.26	15.81	11.10	10.90	15.15	12.01	10.40
1.4	-1.4	12.76	13.83	12.39	17.01	11.99	13.19	11.92	19.79	19.27	18.82	2.27	16.84	12.55	11.12	17.30	14.74	10.70
2.0	-2.0	14.92	20.09	14.82	20.83	14.37	18.38	14.47	23.14	22.79	22.35	2.32	20.67	17.41	13.78	20.77	20.28	14.40
2.5	-2.5	12.84	17.80	12.97	18.33	12.72	17.66	12.74	19.57	19.39	19.15	2.29	18.21	17.18	12.35	18.25	17.86	12.90
3.3	-3.3	11.92	16.58	12.33	16.97	12.40	16.42	12.25	17.16	17.18	17.13	2.26	16.87	16.65	12.20	16.94	16.64	12.80
4.2	-4.2	12.08	16.23	12.72	16.50		16.13	12.76	16.29	16.36	16.37	2.25	16.44	16.43	12.98	16.55	16.31	13.60

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	12-Oct-05	14-Jun-06	4-Oct-06	9-May-07	24-Sep-07	24-Jun-08	24-Sep-08	13-Apr-09	20-Apr-09	27-Apr-09	5-May-09	19-May-09	29-Jun-09	15-Sep-09	18-May-10	3-Jun-10	10-Sep-10
0.6	-0.6	3.94	8.18	4.80	-0.22	5.12	7.07	5.74	-4.17	-3.40	-2.90	43.31	0.51	7.60	7.97	1.28	6.21	9.27
1.4	-1.4	4.69	3.08	5.28	-1.00	5.95	4.02	6.07	-3.93	-3.42	-2.96	43.07	-0.81	5.02	7.48	-1.62	1.79	8.62
2.0	-2.0	1.57	-4.21	1.70	-4.90	2.31	-2.51	2.17	-6.89	-6.60	-6.23	42.55	-4.76	-1.46	3.15	-5.16	-4.66	2.58
2.5	-2.5	4.56	-1.89	4.36	-2.45	4.75	-1.73	4.72	-3.71	-3.53	-3.30	42.85	-2.33	-1.20	5.35	-2.65	-2.19	4.75
3.3	-3.3	6.07	-0.51	5.38	-0.96	5.27	-0.32	5.51	-1.18	-1.20	-1.14	43.20	-0.84	-0.59	5.60	-1.18	-0.79	4.87
4.2	-4.2	5.80	-0.09	4.75	-0.41		0.03	4.69	-0.16	-0.24	-0.26	43.35	-0.34	-0.33	4.35	-0.71	-0.39	3.57

05-May-09 results are suspect

Table H-26: Cross Valley Dam
Piezometeric Monitoring CVDC-4

CVDC-4	Location:	Cross Valley Dam Crest Stn. 0+215	2004 Ground Elevation (m amsl):	1033.3		
	Coordinates:	8V580266 6914331	Shallow Tip Elevation (m amsl):	1007.9	2004 Shallow stick-up 2004 (m):	0.11
Surface Protector: yes	Date Installed:	1981	Deep Tip Elevation (m amsl):	999.7	2004 Deep stick-up (m):	0.3

Date	Water Level from top of pipe (m)		Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments
	Shallow	Deep	Shallow	Deep		
Aug-82	15.10	15.26	1018.33	1018.04		
Dec-82	15.82	15.71	1017.61	1017.59		
Apr-83	15.71	15.84	1017.72	1017.46	1029.33	
Jun-83	16.54	16.33	1016.89	1016.97	1025.88	
Aug-83	16.57	16.52	1016.86	1016.78		
Oct-83	16.34	16.30	1017.09	1017.00		
Feb-84	16.21	16.22	1017.22	1017.08		
Mar-84					1030.60	
Apr-84	16.75	16.58	1016.68	1016.72		
Jun-84	16.40	16.37	1017.03	1016.93	1026.80	
Aug-84	16.50	16.48	1016.93	1016.82		
Jun-85	15.50	15.55	1017.93	1017.75	1031.20	
Oct-85	16.00	16.10	1017.43	1017.20		
May-86	15.58	15.54	1017.85	1017.76	1030.70	
Oct-86	14.99	15.14	1018.44	1018.16	1030.90	
Oct-87	15.42	16.45	1018.01	1016.85		
Jun-88		15.67		1017.63		
Jan-90		15.78		1017.59		
Oct-90		15.54		1017.83		
May-91		15.31		1018.06		
Jun-92		14.32		1019.05		
Sep-92		14.63		1018.74		
May-94		14.93		1018.47		
Sep-94		14.95		1018.45		
Sep-95		14.80		1018.60		
Sep-96		14.89		1018.51	1029.92	
May-97		15.34		1018.06		
Dec-97		14.89		1018.51		shallow standpipe - dry
May-98		14.66		1018.92	1031.20	
Nov-98		14.91		1018.67	1029.80	
Dec-98		14.89		1018.69	1029.80	
Jun-99		14.67		1018.91	1031.40	
Sep-99		15.60		1017.98	~1029.2	
Jun-00		14.73		1018.85	~1030.2	
Aug-00		14.88		1018.70		
Aug-00		14.86		1018.72		
Sep-00		14.83		1018.75		
Sep-00		14.76		1018.82		
Sep-00		14.84		1018.74		shallow standpipe - plugged
Sep-00		14.79		1018.79		shallow standpipe - plugged
Oct-00		14.75		1018.83		shallow standpipe - n.r.
Oct-00		14.76		1018.82		shallow standpipe - n.r.
Oct-00		14.74		1018.84		blocked @ 1.25m
Oct-00		14.76		1018.82		shallow standpipe - blocked @ 7.60m
Jun-01	7.67	14.87		1018.71		shallow standpipe - blocked @ 7.61m
Sep-01	7.61	14.82		1018.76		shallow standpipe - blocked @ 7.61m
Oct-01	7.61	14.90		1018.68		shallow standpipe - blocked @ 7.62m
Oct-01	7.61	14.93		1018.65		shallow standpipe - blocked @ 7.61m
Oct-01	7.61	14.95		1018.63		shallow standpipe - blocked @ 7.61m
Oct-01	7.61	14.96		1018.62		shallow standpipe - blocked @ 7.61m
Oct-01	7.61	14.97		1018.61		shallow standpipe - blocked @ 7.61m
Oct-01	7.61	14.98		1018.60		shallow standpipe - blocked @ 7.61m
Oct-01	7.61	14.98		1018.60		shallow standpipe - blocked @ 7.61m
Oct-01	7.61	14.98		1018.60		shallow standpipe - blocked @ 7.61m
Nov-01	7.61	14.98		1018.61		shallow standpipe - blocked @ 7.61m
Nov-01	7.61	14.97		1018.61		
Nov-01	7.61	14.97		1018.61		
Nov-01	7.61	14.97		1018.62		
Nov-01	7.61	14.96		1018.62		
Nov-01	7.61	14.95		1018.63		
Nov-01	7.61	14.95		1018.63		
Nov-01	7.61	14.95		1018.63		
Nov-01	7.61	14.94		1018.64		pond elev approx - 8 ft.
Nov-01	7.61	14.95		1018.63		daytime temp -34 C
Nov-01	7.61	14.94		1018.64		
Nov-01	7.61	14.94		1018.64		
Dec-01	7.61	14.96		1018.62		
Dec-01	7.61	14.97		1018.61		
Dec-01	7.61	14.94		1018.64		
Dec-01	7.61	14.82		1018.76		
Dec-01	7.61	14.84		1018.74		
Dec-01	7.61	14.87		1018.71		
Dec-01	7.61	14.90		1018.68		
Dec-01	7.61	14.92		1018.66		
Dec-01	7.61	14.94		1018.64		
Dec-01	7.61	14.96		1018.62		
Jan-02	7.61	14.94		1018.64		
Jan-02	7.61	14.99		1018.59		
Jan-02	7.61	15.04		1018.54		
Jan-02	7.61	15.02		1018.56		

Table H-26: Cross Valley Dam
Piezometeric Monitoring CVDC-4

CVDC-4	Location:	Cross Valley Dam Crest Stn. 0+215	2004 Ground Elevation (m amsl):	1033.3		
	Coordinates:	8V580266 6914331	Shallow Tip Elevation (m amsl):	1007.9	2004 Shallow stick-up 2004 (m):	0.11
Surface Protector: yes	Date Installed:	1981	Deep Tip Elevation (m amsl):	999.7	2004 Deep stick-up (m):	0.3

Date	Water Level from top of pipe (m)		Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments
	Shallow	Deep	Shallow	Deep		
Jan-02	7.61	15.02		1018.56		
Feb-02	7.61	15.00		1018.58		
Feb-02	7.61	15.00		1018.58		
Feb-02	7.61	14.99		1018.59		
May-02	7.61	14.92		1018.67		
Jun-02	7.61	14.90		1018.69		
Jul-02	7.61	14.85		1018.74		
Aug-02	7.61	14.90		1018.69		
Sep-02	7.61	14.82		1018.76		
Nov-02	7.61	14.86		1018.72		
Nov-02	7.61	14.85		1018.73		
Jan-03	7.61	14.75		1018.83		
Feb-03	7.61	14.76		1018.83		start siphon
Feb-03	7.61	14.77		1018.82		
Feb-03	7.61	14.78		1018.80		
Feb-03	7.61	14.80		1018.78		
Feb-03	7.61	14.83		1018.75	1026.18	
Apr-03	7.61	14.78		1018.80		
May-03	7.61	14.88		1018.71		
May-03	7.61	14.87		1018.71		
Jun-03	7.61	14.85		1018.73		
Jul-03	7.61	14.78		1018.80		
Sep-03	7.61	14.97		1018.62		
Mar-04	7.61	14.84		1018.76		2004 Survey data used from here on
Mar-04	7.61	14.86		1018.74		
Apr-04	7.61	14.83		1018.77		
Jul-04	7.61	14.88		1018.73		
Aug-04	7.61	14.78		1018.83		
Sep-04	7.61	14.89		1018.71		
Feb-05	7.61	14.84		1018.76		
Feb-05	7.61	14.84		1018.76		
Feb-05	7.61	14.85		1018.76		
May-05	7.61	14.79		1018.81		
Sep-05	7.61	15.12		1018.48		
Mar-06	7.61	15.23		1018.38		
Jun-06	7.61	15.14		1018.46		
Oct-06	7.61	15.23		1018.38	1027.47	
May-07	7.61	14.86		1018.75	1029.30	
Sep-07	7.61	15.21		1018.39	1030.30	
Sep-07	7.61	15.21		1018.39	1031.30	
Apr-08	7.61	14.79		1018.81	1030.30	
Apr-08	7.61	14.82		1018.78	1029.93	
Apr-08	7.61	14.85		1018.75	1029.63	
Apr-08	7.61	14.86		1018.74	1029.25	
May-08	7.61	14.86		1018.74	1029.43	
May-08	7.61	14.83		1018.77	1029.36	
May-08	7.61	14.83		1018.78	1029.34	
May-08	7.61	14.81		1018.79	1029.28	
Jun-08	7.61	14.85		1018.75	1028.64	
Sep-08	7.61	14.82		1018.79	1028.50	
Mar-09	7.61	14.76		1018.84	1029.60	
Apr-09	7.61	14.91		1018.70	1028.16	
Apr-09	7.61	14.95		1018.65	1027.74	
Apr-09	7.61	15.04		1018.57	1027.72	
Apr-09	7.61	15.15		1018.45	1027.49	
Apr-09	7.61	15.20		1018.40	1027.27	
Apr-09	7.61	15.23		1018.38	1027.16	
May-09	7.61	15.23		1018.38	1027.23	
May-09	7.61	15.03		1018.58	1027.83	
Jun-09	7.61	14.99		1018.61	1027.67	
Sep-09	7.61	14.92		1018.68	1028.36	
May-10	7.55	14.73		1018.88	1029.05	
Jun-10	7.67	14.73		1018.87	1029.74	Shallow Well Dry
Sep-10	7.67	15.07		1018.53	1030.44	Shallow Well Dry

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Table H-27: Cross Valley Dam
Piezometric Monitoring CVDC-7

CVDC-7		Location:	Cross Valley Dam Crest St.0+450	2004 Ground Elevation (m amsl):	1033.24		
		Coordinates:	8V580158 6914127	2004 Shallow Tip Elevation (m amsl):	1007.80	2004 Shallow stick-up (m):	0.31
Surface Protector:	yes	Date Installed:	1981	Deep Tip Elevation (m amsl):	1002.90	2004 Deep stick-up (m):	0.23

Date		Water Level from top of pipe (m)		Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments
		Shallow	Deep	Shallow	Deep		
Aug-82		17.58	14.44	1016.04	1019.09		
Dec-82		18.02	15.10	1015.60	1018.43		
Apr-83		17.83	15.24	1015.79	1018.29	1029.33	
Jun-83		18.06	14.88	1015.56	1018.65	1025.88	
Aug-83		18.30	16.24	1015.32	1017.29		
Oct-83		18.26	16.01	1015.36	1017.52		
Feb-84		18.24	15.92	1015.38	1017.61		
Mar-84						1030.60	
Apr-84		18.41	16.36	1015.21	1017.17		
Jun-84		18.22	16.06	1015.40	1017.47	1026.80	
Jun-85		17.87	16.06	1015.75	1017.47	1031.20	
Oct-85		18.20	15.55	1015.42	1017.98		
May-86		18.14	15.14	1015.48	1018.39	1030.70	
Oct-86		17.35	14.40	1016.27	1019.13	1030.90	
Oct-87		17.85	14.85	1015.77	1018.68		
Jun-88		17.90	15.10	1015.73	1018.59		
Sep-89		17.88	15.03	1015.75	1018.66		
Oct-90		17.68	15.03	1015.95	1018.66		
May-91		17.89	15.36	1015.74	1018.33		
Sep-91		17.81		1015.82			
Jun-92		17.37	14.48	1016.26	1019.21		
Sep-92		17.33	14.66	1016.30	1019.03		
May-94		17.99	15.50	1015.70	1018.16		
Sep-94		17.95	15.47	1015.74	1018.19		
Sep-95		17.81	15.08	1015.88	1018.58		
13-Sep-96		17.93	15.34	1015.76	1018.32	1029.915	
7-May-97		18.19	16.07	1015.50	1017.59		
20-Nov-97		17.91	15.29	1015.78	1018.37		
26-May-98		17.87	15.12	1015.82	1018.54	1031.2	
15-Nov-98		17.91	15.38	1015.78	1018.28	1029.8	
3-Jun-99		n.r.	15.10		1018.56	1031.4	
18-Sep-99		18.00	15.59	1015.69	1018.07	~1029.2	
8-Jun-00		17.85	15.08	1015.84	1018.58	~1030.2	
14-Aug-00		17.82	15.10	1015.87	1018.56		
31-Aug-00		17.80	15.16	1015.89	1018.50		
7-Sep-00		17.78	15.09	1015.91	1018.57		
14-Sep-00		17.78	15.80	1015.91	1017.86		
19-Sep-00		17.82	15.19	1015.87	1018.47		
21-Sep-00		17.82	15.16	1015.87	1018.50		
28-Sep-00		17.77	15.60	1015.92	1018.06		
6-Oct-00		17.71	14.96	1015.98	1018.70		
12-Oct-00		17.75	15.03	1015.94	1018.63		
20-Oct-00		17.76	15.00	1015.93	1018.66		
27-Oct-00		17.80	15.08	1015.89	1018.58		
10-Jun-01		17.97	15.39	1015.72	1018.27		
14-Sep-01		17.86	15.16	1015.83	1018.50		
16-Oct-01		17.95	15.43	1015.74	1018.23		
18-Oct-01		17.97	15.48	1015.72	1018.18		
19-Oct-01		17.98	15.49	1015.71	1018.17		
20-Oct-01		17.98	15.49	1015.71	1018.17		
21-Oct-01		17.98	15.49	1015.71	1018.17		
22-Oct-01		17.98	15.50	1015.71	1018.16		
25-Oct-01		17.99	15.51	1015.70	1018.15		
29-Oct-01		17.99	15.51	1015.70	1018.15		
1-Nov-01		17.99	15.50	1015.71	1018.17		
5-Nov-01		17.99	15.51	1015.70	1018.16		
6-Nov-01		17.99	15.51	1015.70	1018.16		
8-Nov-01		17.99	15.51	1015.70	1018.15		
12-Nov-01		18.00	15.51	1015.69	1018.15		
15-Nov-01		18.00	15.51	1015.69	1018.15		
19-Nov-01		18.00	15.51	1015.69	1018.15		
21-Nov-01		17.99	15.50	1015.70	1018.17		
23-Nov-01		17.99	15.50	1015.70	1018.17		pond elev approx - 8 ft.
26-Nov-01		18.00	15.50	1015.69	1018.17		daytime temp -34 C
28-Nov-01		18.00	15.50	1015.69	1018.16		
30-Nov-01		18.01	15.50	1015.68	1018.16		
3-Dec-01		18.01	15.51	1015.68	1018.15		
5-Dec-01		18.01	15.52	1015.68	1018.14		
12-Dec-01		18.01	15.52	1015.68	1018.14		
14-Dec-01		18.01	15.50	1015.68	1018.16		
15-Dec-01		18.02	15.54	1015.67	1018.12		
16-Dec-01		18.03	15.58	1015.66	1018.08		
17-Dec-01		18.04	15.61	1015.65	1018.05		
18-Dec-01		18.05	15.63	1015.64	1018.03		
19-Dec-01		18.06	15.65	1015.63	1018.01		
26-Dec-01		18.07	15.66	1015.62	1018.00		
2-Jan-02		18.07	15.65	1015.62	1018.01		
9-Jan-02		18.08	15.66	1015.61	1018.00		
16-Jan-02		18.08	15.65	1015.61	1018.01		

Table H-27: Cross Valley Dam
Piezometric Monitoring CVDC-7

CVDC-7		Location:	Cross Valley Dam Crest St.0+450	2004 Ground Elevation (m amsl):	1033.24		
		Coordinates:	8V580158 6914127	2004 Shallow Tip Elevation (m amsl):	1007.80	2004 Shallow stick-up (m):	0.31
Surface Protector:	yes	Date Installed:	1981	Deep Tip Elevation (m amsl):	1002.90	2004 Deep stick-up (m):	0.23

Date		Water Level from top of pipe (m)		Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments
		Shallow	Deep	Shallow	Deep		
23-Jan-02		18.07	15.63	1015.62	1018.03		
30-Jan-02		18.08	15.63	1015.61	1018.03		
6-Feb-02		18.08	15.62	1015.62	1018.04		
13-Feb-02		18.07	15.60	1015.62	1018.06		
20-Feb-02		18.08	15.60	1015.62	1018.06		
1-May-02		18.07	15.60	1015.62	1018.06		Water being discharged from the polishing pond
12-Jun-02		17.98	15.35	1015.72	1018.31		
17-Jul-02		17.85	15.23	1015.84	1018.44		
7-Aug-02		17.90	15.35	1015.79	1018.31		
9-Sep-02		17.82	15.17	1015.88	1018.49		
4-Nov-02		17.91	15.36	1015.78	1018.30		
10-Nov-02		17.91	15.36	1015.78	1018.31		
30-Jan-03		17.90	15.24	1015.80	1018.43		
9-Feb-03		17.90	15.25	1015.79	1018.42		start siphon
11-Feb-03		17.91	15.26	1015.79	1018.40		
13-Feb-03		17.91	15.28	1015.78	1018.38		
18-Feb-03		17.93	15.31	1015.77	1018.35		
21-Feb-03		17.93	15.32	1015.76	1018.34	1026.18	
23-Apr-03		17.98	15.37	1015.71	1018.29		
7-May-03		18.01	15.47	1015.68	1018.19		
16-May-03		18.01	15.46	1015.68	1018.21		
11-Jun-03		17.91	15.33	1015.78	1018.33		
15-Jul-03		17.84	15.21	1015.85	1018.46		
10-Sep-03		18.00	15.59	1015.55	1017.88		
4-Mar-04		17.97	15.39	1015.58	1018.08		2004 Survey data used from here on
8-Mar-04		18.00	15.46	1015.55	1018.01		
26-Apr-04		17.98	15.40	1015.57	1018.07		
19-Jul-04		17.91	15.33	1015.64	1018.14		
26-Aug-04		17.93	15.34	1015.62	1018.13		
9-Sep-04		17.99	15.50	1015.56	1017.97		
22-Feb-05		18.00	15.43	1015.55	1018.04		
23-Feb-05		18.00	15.45	1015.55	1018.02		smells like old oil
24-Feb-05		18.00	15.48	1015.55	1017.99		
26-May-05		17.99	15.58	1015.56	1017.89		milky on probe
14-Sep-05		18.25	16.04	1015.30	1017.43		
9-Mar-06		18.41	16.30	1015.14	1017.17		
14-Jun-06		18.26	16.03	1015.29	1017.44		
4-Oct-06		18.27	16.10	1015.28	1017.37	1027.47	
9-May-07		18.20	15.80	1015.35	1017.67	1029.295	
24-Sep-07		18.19	15.97	1015.36	1017.50	1030.295	
9-Apr-08		18.11	15.55	1015.44	1017.92	1030.300	
14-Apr-08		18.11	15.61	1015.44	1017.86	1029.930	
21-Apr-08		18.12	15.70	1015.43	1017.77	1029.625	
28-Apr-08		18.13	15.76	1015.42	1017.71	1029.250	
5-May-08		18.14	15.72	1015.41	1017.75	1029.433	
12-May-08		18.14	15.71	1015.41	1017.76	1029.362	
20-May-08		18.14	15.75	1015.41	1017.72	1029.340	
26-May-08		18.15	15.76	1015.40	1017.71	1029.276	
24-Jun-08		18.03	15.60	1015.52	1017.87	1028.638	
24-Sep-08		18.00	15.65	1015.55	1017.82	1028.504	
31-Mar-09		18.12	15.70	1015.43	1017.77	1029.596	
13-Apr-09		18.16	16.00	1015.39	1017.47	1028.164	
16-Apr-09		18.19	16.06	1015.36	1017.41	1027.744	
20-Apr-09		18.22	16.14	1015.33	1017.33	1027.716	
23-Apr-09		18.28	16.19	1015.27	1017.28	1027.487	
27-Apr-09		18.31	16.26	1015.24	1017.21	1027.273	
30-Apr-09		18.32	16.28	1015.23	1017.19	1027.159	
5-May-09		18.31	16.25	1015.24	1017.22	1027.229	
19-May-09		18.27	16.15	1015.28	1017.32	1027.831	
29-Jun-09		18.11	15.91	1015.44	1017.56	1027.668	
15-Sep-09		18.16	15.92	1015.39	1017.55	1028.360	
19-May-10		15.87	18.14	1017.68	1015.33	1029.052	
3-Jun-10		15.81	18.15	1017.74	1015.32	1029.744	
7-Sep-10		16.15	18.20	1017.40	1015.27	1030.436	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Table H-28: Cross Valley Dam
Piezometric Monitoring CVDC-9

CVDC-9		Location:	Cross Valley Dam Crest St.0+565	2004 Ground Elevation (m amsl):	1033.28		
		Coordinates:	8V580096 6913998	2004 Shallow Tip Elevation (m amsl)	1007.70	2004 Shallow stick-up (m):	0.27
Surface Protector:	yes	Date Installed:	1981	2004 Deep Tip Elevation (m amsl):	1000.70	2004 Deep stick-up (m):	0.19

Date		Water Level below top of pipe (m)	Water Level below top of pipe (m)	Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments
		Shallow	Deep	Shallow	Deep		
1-Aug-82		8.80	8.85	1024.74	1024.61		
1-Dec-82		11.04	9.00	1022.50	1024.46		
1-Apr-83		11.38	9.81	1022.16	1023.65	1029.33	
1-Jun-83		12.58	10.74	1020.96	1022.72	1025.88	
1-Aug-83		13.63	11.90	1019.91	1021.56		
1-Oct-83		13.36	11.13	1020.18	1022.33		
1-Feb-84		12.24	10.67	1021.30	1022.79		
1-Mar-84						1030.60	
1-Apr-84		12.87	11.65	1020.67	1021.81		
1-Jun-84		10.75	12.28	1022.79	1021.18	1026.80	
1-Aug-84		12.41	11.05	1021.13	1022.41		
1-Jun-85		10.80	8.98	1022.74	1024.48	1031.20	
1-Oct-85		11.45	8.25	1022.09	1025.21		
1-May-86		9.65	11.18	1023.89	1022.28	1030.70	
1-Oct-86		10.51	8.79	1023.03	1024.67	1030.90	
1-Oct-87		10.85	9.10	1022.69	1024.36		
1-Jun-88		9.74	9.42	1023.90	1024.11		
1-Sep-89		11.01	9.07	1022.63	1024.46		
1-Oct-90		10.54	8.83	1023.10	1024.70		
1-May-91		10.79	9.14	1022.85	1024.39		
1-Sep-91		10.56		1023.08			
1-Jun-92		9.79	7.92	1023.85	1025.61		
1-Sep-92		10.27	8.29	1023.37	1025.24		
1-May-94		11.68	9.49	1021.94	1024.06		
1-Sep-94		11.93	9.82	1021.69	1023.73		
1-Sep-95		11.42	8.86	1022.20	1024.69		
13-Sep-96		11.84	9.52	1021.78	1024.03	1029.915	
7-May-97		13.15	11.57	1020.48	1021.99		
20-Nov-97		11.74	9.58	1021.88	1023.97		
26-May-98		11.57	9.11	1022.05	1024.44	1031.2	
13-Nov-98		12.19	9.90	1021.43	1023.65	1029.8	
3-Jun-99		10.56	8.87	1023.06	1024.68	1031.4	
18-Sep-99		11.50	10.25	1022.12	1023.30	~1029.2	
8-Jun-00		11.60	8.90	1022.02	1024.65	~1030.2	
14-Aug-00		11.73	9.19	1021.89	1024.36		
31-Aug-00		11.77	9.30	1021.85	1024.25		
7-Sep-00		11.66	9.12	1021.96	1024.43		
14-Sep-00		11.65	9.30	1021.97	1024.25		
19-Sep-00		11.83	9.34	1021.79	1024.21		
21-Sep-00		11.78	9.28	1021.84	1024.27		
28-Sep-00		11.61	9.40	1022.01	1024.15		
6-Oct-00		11.46	8.89	1022.16	1024.66		
12-Oct-00		11.57	9.00	1022.05	1024.55		
20-Oct-00		11.53	8.91	1022.09	1024.64		
27-Oct-00		11.62	9.03	1022.00	1024.52		
10-Jun-01		12.09	9.63	1021.53	1023.92		
14-Sep-01		11.75	9.67	1021.87	1023.88		
16-Oct-01		12.24	10.20	1021.38	1023.35		
18-Oct-01		12.35	10.33	1021.27	1023.22		
19-Oct-01		12.37	10.36	1021.25	1023.19		
20-Oct-01		12.38	10.37	1021.24	1023.18		
21-Oct-01		12.39	10.38	1021.23	1023.17		
22-Oct-01		12.40	10.39	1021.22	1023.16		
25-Oct-01		12.42	10.39	1021.20	1023.16		
29-Oct-01		12.41	10.34	1021.22	1023.21		
1-Nov-01		12.40	10.32	1021.23	1023.24		
5-Nov-01		12.41	10.31	1021.21	1023.24		
6-Nov-01		12.41	10.31	1021.21	1023.24		
8-Nov-01		12.41	10.30	1021.21	1023.25		
12-Nov-01		12.42	10.30	1021.20	1023.26		
15-Nov-01		12.42	10.29	1021.20	1023.27		
19-Nov-01		12.39	10.22	1021.23	1023.33		
21-Nov-01		12.37	10.19	1021.25	1023.36		
23-Nov-01		12.37	10.17	1021.25	1023.38		pond elev approx - 8 ft.
26-Nov-01		12.37	10.17	1021.25	1023.38		daytime temp -34 C
28-Nov-01		12.38	10.16	1021.24	1023.39		
30-Nov-01		12.39	10.17	1021.24	1023.38		
3-Dec-01		12.40	10.19	1021.22	1023.36		
5-Dec-01		12.42	10.20	1021.20	1023.35		
12-Dec-01		12.44	10.20	1021.19	1023.35		
14-Dec-01		12.47	10.25	1021.15	1023.30		
15-Dec-01		12.52	10.31	1021.10	1023.24		
16-Dec-01		12.57	10.38	1021.05	1023.17		
17-Dec-01		12.62	10.43	1021.00	1023.12		
18-Dec-01		12.66	10.48	1020.96	1023.07		
19-Dec-01		12.68	10.51	1020.94	1023.04		
26-Dec-01		12.72	10.53	1020.90	1023.02		
2-Jan-02		12.70	10.49	1020.92	1023.06		
9-Jan-02		12.68	10.45	1020.94	1023.10		

Table H-28: Cross Valley Dam
Piezometric Monitoring CVDC-9

CVDC-9		Location:	Cross Valley Dam Crest St.0+565	2004 Ground Elevation (m amsl):	1033.28		
		Coordinates:	8V580096 6913998	2004 Shallow Tip Elevation (m amsl)	1007.70	2004 Shallow stick-up (m):	0.27
Surface Protector:	yes	Date Installed:	1981	2004 Deep Tip Elevation (m amsl):	1000.70	2004 Deep stick-up (m):	0.19

Date		Water Level below top of pipe (m)	Water Level below top of pipe (m)	Piezometric Elevation (m amsl)		Pond Elevation (m amsl)	Comments
		Shallow	Deep	Shallow	Deep		
16-Jan-02		12.65	10.41	1020.97	1023.14		
23-Jan-02		12.62	10.36	1021.00	1023.19		
30-Jan-02		12.60	10.33	1021.02	1023.22		
6-Feb-02		12.59	10.31	1021.04	1023.24		
13-Feb-02		12.55	10.26	1021.07	1023.29		
20-Feb-02		12.55	10.25	1021.07	1023.30		
1-May-02		12.55	10.27	1021.07	1023.28		
12-Jun-02		12.16	9.77	1021.47	1023.78		
17-Jul-02		11.91	9.47	1021.71	1024.09		
7-Aug-02		12.10	9.71	1021.52	1023.85		
9-Sep-02		11.75	9.24	1021.87	1024.31		
4-Nov-02		11.85	9.64	1021.77	1023.91		
10-Nov-02		11.86	9.67	1021.76	1023.89		
30-Jan-03		11.81	9.40	1021.82	1024.16		
9-Feb-03		11.84	9.42	1021.78	1024.13		start siphon
11-Feb-03		11.87	9.46	1021.75	1024.10		
13-Feb-03		11.91	9.50	1021.71	1024.05		
18-Feb-03		11.96	9.55	1021.66	1024.00		
21-Feb-03		11.97	9.56	1021.65	1023.99	1026.18	
23-Apr-03		12.06	9.57	1021.57	1023.99		
7-May-03		12.21	9.78	1021.41	1023.77		
16-May-03		12.18	9.70	1021.45	1023.85		
11-Jun-03		11.99	9.46	1021.63	1024.09		
15-Jul-03		11.74	9.13	1021.88	1024.42		
10-Sep-03		12.36	9.95	1021.27	1023.60		
4-Mar-04		12.01	9.52	1021.54	1023.95		2004 Survey data used from here on
8-Mar-04		12.11	9.65	1021.44	1023.82		
26-Apr-04		12.45	9.50	1021.10	1023.97		
19-Jul-04		11.87	9.28	1021.68	1024.19		
26-Aug-04		11.88	9.28	1021.67	1024.19		
9-Sep-04		12.15	9.64	1021.40	1023.83		
22-Feb-05		12.02	9.44	1021.53	1024.03		
23-Feb-05		12.06	9.49	1021.49	1023.99		
24-Feb-05		12.11	9.56	1021.44	1023.92		
26-May-05		12.43	9.95	1021.12	1023.52		
14-Sep-05		12.83	10.39	1020.72	1023.09		
9-Mar-06		13.27	10.93	1020.28	1022.54		
14-Jun-06		12.86	10.40	1020.69	1023.07		
4-Oct-06		12.94	10.46	1020.62	1023.02	1027.468	
9-May-07		12.52	9.83	1021.03	1023.64	1029.295	
24-Sep-07		12.76	10.15	1020.79	1023.32	1030.295	
9-Apr-08		12.10	9.18	1021.45	1024.29	1030.300	
14-Apr-08		12.19	9.33	1021.36	1024.15	1029.930	
21-Apr-08		12.37	9.57	1021.18	1023.90	1029.625	
28-Apr-08		12.49	9.73	1021.06	1023.75	1029.250	
5-May-08		12.44	9.66	1021.11	1023.81	1029.433	
12-May-08		12.44	9.74	1021.12	1023.73	1029.362	
20-May-08		12.45	9.64	1021.11	1023.84	1029.340	
26-May-08		12.44	9.59	1021.11	1023.89	1029.276	
24-Jun-08		12.26	9.46	1021.29	1024.02	1028.638	
24-Sep-08		12.26	9.44	1021.29	1024.04	1028.504	
31-Mar-09		12.39	9.50	1021.17	1023.97	1029.596	
13-Apr-09		12.90	10.23	1020.65	1023.25	1028.164	
16-Apr-09		13.02	10.38	1020.54	1023.10	1027.744	
20-Apr-09		13.14	10.55	1020.42	1022.92	1027.716	
23-Apr-09		13.22	10.64	1020.33	1022.83	1027.487	
27-Apr-09		13.34	10.77	1020.22	1022.70	1027.273	
30-Apr-09		13.39	10.85	1020.16	1022.63	1027.159	
5-May-09		13.36	10.82	1020.19	1022.66	1027.229	
19-May-09		13.16	10.48	1020.39	1022.99	1027.831	
29-Jun-09		12.75	10.70	1020.81	1022.77	1027.668	
15-Sep-09		12.66	9.85	1020.89	1023.62	1028.360	
19-May-10		12.73	9.83	1020.82	1023.64	1029.052	
3-Jun-10		12.77	9.80	1020.78	1023.67	1029.744	
7-Sep-10		13.17	10.40	1020.39	1023.07	1030.436	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Denison Environmental Services

Table H-29: Cross Valley Dam
Piezometric Monitoring CVDT-1

CVDT-1		Location:	Cross Valley Dam Toe, black PVC adj. to X11 channel	2004 Stick-up (m):	0.27
		Coordinates:	8V580219 6914353	2004 Ground Elevation (m amsl):	1018.30
Surface Protector:	N/A	Date Installed:	1994	2004 Tip Elevation (m amsl):	1007.90

Date		Water Level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments
31-May-94		-2.07	1017.13		
15-Sep-94		-1.92	1017.28		
22-Sep-95		-1.80	1017.40		
13-Sep-96		-1.87	1017.33	1029.92	
20-Nov-97		-1.78	1017.42		
26-May-98		-1.62	1017.58	1031.20	
13-Nov-98		-1.87	1017.33	1029.80	
3-Jun-99		-0.87	1018.33	1031.40	
18-Sep-99		-1.94	1017.26	~1029.20	
8-Jun-00		-1.73	1017.47	~1030.20	
14-Aug-00		-1.84	1017.36		
31-Aug-00		-1.81	1017.39		
7-Sep-00		-1.80	1017.40		
14-Sep-00		-1.75	1017.45		
21-Sep-00		-1.81	1017.39		
28-Sep-00		-1.76	1017.44		
6-Oct-00		-1.73	1017.47		
12-Oct-00		-1.73	1017.47		
20-Oct-00		-1.71	1017.49		
27-Oct-00		-1.71	1017.49		
10-Jun-01		-1.80	1017.40		
14-Sep-01		-1.77	1017.43		
16-Oct-01		-1.81	1017.39		
18-Oct-01		-1.81	1017.39		
19-Oct-01		-1.81	1017.39		
20-Oct-01		-1.81	1017.39		
21-Oct-01		-1.81	1017.39		
22-Oct-01		-1.81	1017.39		
25-Oct-01		-1.81	1017.39		
29-Oct-01		-1.81	1017.39		
1-Nov-01		-1.81	1017.39		
5-Nov-01		-1.81	1017.39		
6-Nov-01		-0.44	1017.39		Stick up changed
8-Nov-01		-0.44	1017.39		
12-Nov-01		-0.44	1017.39		
15-Nov-01		-0.44	1017.39		
19-Nov-01		-0.44	1017.39		
21-Nov-01		-0.44	1017.39		
23-Nov-01		-0.44	1017.39		pond elev approx - 8 ft.
26-Nov-01		-0.44	1017.39		daytime temp -34 C
28-Nov-01		-0.44	1017.39		
30-Nov-01		-0.44	1017.39		
3-Dec-01		-0.44	1017.39		
5-Dec-01		-0.44	1017.39		
12-Dec-01		-0.44	1017.39		
14-Dec-01		-0.44	1017.39		
15-Dec-01		-0.44	1017.39		
16-Dec-01		-0.44	1017.39		
17-Dec-01		-0.44	1017.39		
18-Dec-01		-0.44	1017.39		
19-Dec-01		-0.44	1017.39		
26-Dec-01		-0.44	1017.39		
2-Jan-02		-0.44	1017.39		
9-Jan-02		-0.44	1017.39		
16-Jan-02		-0.44	1017.39		
23-Jan-02		-0.44	1017.39		
30-Jan-02		-0.44	1017.39		
6-Feb-02		-0.44	1017.39		
13-Feb-02		-0.44	1017.39		
20-Feb-02		-0.44	1017.39		
1-May-02		-0.44	1017.39		
12-Jun-02		-0.44	1017.40		
17-Jul-02		-0.40	1017.44		
7-Aug-02					not read
9-Sep-02		-0.37	1017.46		
4-Nov-02		-0.40	1017.44		
10-Nov-02		-0.40	1017.44		

Table H-29: Cross Valley Dam
Piezometric Monitoring CVDT-1

CVDT-1		Location:	Cross Valley Dam Toe, black PVC adj. to X11 channel	2004 Stick-up (m):	0.27
		Coordinates:	8V580219 6914353	2004 Ground Elevation (m amsl):	1018.30
Surface Protector:	N/A	Date Installed:	1994	2004 Tip Elevation (m amsl):	1007.90
Date		Water Level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments
30-Jan-03		-0.42	1017.41		
9-Feb-03		-0.42	1017.41	1058.60	start siphon
11-Feb-03		-0.42	1017.41	1058.50	
13-Feb-03		-0.42	1017.41	1058.50	
18-Feb-03		-0.42	1017.41		
21-Feb-03		-0.42	1017.41	1058.48	
23-Apr-03		-0.41	1017.43	1030.14	
7-May-03		-0.39	1017.44		
16-May-03		-0.39	1017.45		
11-Jun-03		-0.36	1017.48		
15-Jul-03		-0.31	1017.53		
4-Sep-03		-0.36	1017.47		
10-Sep-03		-0.47	1017.37	996.28	
4-Mar-04		-0.35	1018.23		2004 survey data use from here on
8-Mar-04					Pulled ice and snow
26-Apr-04		-0.32	1018.26	997.85	
19-Jul-04		-0.27	1018.30		
26-Aug-04		-0.26	1018.31		
9-Sep-04		-0.36	1018.21		
22-Feb-05		-0.37	1018.20		Frozen
24-Feb-05		-0.35	1018.22		Frozen
26-May-05		-0.29	1018.28		
14-Sep-05		-0.59	1017.99		
9-Mar-06		-0.54	1018.03		no beep
14-Jun-06		-0.60	1017.97		
2-Oct-06		-0.70	1017.87	1027.47	
9-May-07		-0.33	1018.25	1029.30	
24-Sep-07		-0.69	1017.89	1030.30	
25-Sep-07		-0.32	1018.26	1031.30	
9-Apr-08		-0.75	1017.82	1030.30	
14-Apr-08		-0.75	1017.82	1029.93	
21-Apr-08		-0.76	1017.82	1029.63	
28-Apr-08		-0.76	1017.82	1029.25	
5-May-08		-0.76	1017.82	1029.43	
12-May-08		-0.76	1017.82	1029.36	
20-May-08		-0.75	1017.82	1029.34	
26-May-08		-0.75	1017.82	1029.28	
24-Jun-08		-0.75	1017.82	1028.64	
24-Sep-08		-0.72	1017.85	1028.50	
31-Mar-09		-0.69	1017.89	1029.60	
13-Apr-09		-0.73	1017.85	1028.16	
16-Apr-09				1027.74	
20-Apr-09		-0.76	1017.81	1027.72	
23-Apr-09				1027.49	
27-Apr-09		-0.79	1017.78	1027.27	
30-Apr-09				1027.16	
5-May-09		-0.78	1017.79	1027.23	
19-May-09		-0.75	1017.83	1027.83	
29-Jun-09		-0.70	1017.87	1027.67	
15-Sep-09		-0.68	1017.89	1028.32	
19-May-10		-0.64	1017.93	1028.97	
3-Jun-10		-0.65	1017.92	1029.62	
7-Sep-10		-0.76	1017.82	1030.28	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Denison Environmental Services

Table H-30: Cross Valley Dam
Piezometric Monitoring CVDT-2

CVDT-2		Location:	Cross Valley Dam Toe black PVC adj. to W3 channel	Stick up:	1.52m/ 0.38m
		Coordinates:	N/A	Ground Elevation (m amsl):	1019.50
Surface Protector:	N/A	Date Installed:	1994	Tip Elevation (m amsl):	1006.20
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments
31-May-94		-4.86	1016.16		
15-Sep-94		-4.81	1016.21		
21-Sep-95		-4.65	1016.37		
15-Oct-96		-4.84	1016.18	1029.92	
20-Nov-97		-4.78	1016.24		
26-May-98		-4.73	1016.29	1031.20	
13-Nov-98		-4.79	1016.23	1029.80	
3-Jun-99		-4.78	1016.24	1031.40	
18-Sep-99		-4.81	1016.21	~1029.2	
8-Jun-00		-4.70	1016.32	~1030.2	
14-Aug-00		-4.65	1016.37		
24-Aug-00		-4.57	1016.45		
31-Aug-00		-4.62	1016.40		
7-Sep-00		-4.60	1016.42		
14-Sep-00		-4.61	1016.41		
21-Sep-00		-4.65	1016.37		
28-Sep-00		-4.60	1016.42		
6-Oct-00		-4.53	1016.49		
12-Oct-00		-4.59	1016.43		
20-Oct-00		-4.61	1016.41		
27-Oct-00		-4.66	1016.36		
10-Jun-01		-4.85	1016.17		
14-Sep-01		-4.71	1016.31		
16-Oct-01		-4.83	1016.19		
18-Oct-01		-4.85	1016.17		
19-Oct-01		-4.86	1016.16		
20-Oct-01		-4.86	1016.16		
21-Oct-01		-4.86	1016.16		
22-Oct-01		-4.86	1016.16		
25-Oct-01		-4.87	1016.15		
29-Oct-01		-4.87	1016.15		
1-Nov-01		-4.88	1016.15		
5-Nov-01		-4.88	1016.14		
6-Nov-01		-3.74	1016.14		New stick-up of 0.38 m
8-Nov-01		-3.74	1016.14		
12-Nov-01		-3.76	1016.12		
15-Nov-01		-3.76	1016.12		
19-Nov-01		-3.76	1016.13		
21-Nov-01		-3.75	1016.13		
23-Nov-01		-3.75	1016.13		pond elev approx - 8 ft.
26-Nov-01		-3.75	1016.13		daytime temp -34 C
28-Nov-01		-3.76	1016.12		
30-Nov-01		-3.76	1016.12		
3-Dec-01		-3.76	1016.12		
5-Dec-01		-3.78	1016.11		
12-Dec-01		-3.78	1016.11		
14-Dec-01		-3.78	1016.11		
15-Dec-01		-3.80	1016.08		
16-Dec-01		-3.79	1016.09		
17-Dec-01		-3.81	1016.07		
18-Dec-01		-3.82	1016.07		
19-Dec-01		-3.82	1016.06		
26-Dec-01		-3.84	1016.04		
2-Jan-02		-3.84	1016.04		
9-Jan-02		-3.84	1016.05		
16-Jan-02		-3.84	1016.04		
23-Jan-02		-3.83	1016.05		
30-Jan-02		-3.84	1016.04		
6-Feb-02		-3.84	1016.04		
13-Feb-02		-3.83	1016.05		
20-Feb-02		-3.84	1016.04		
1-May-02		-3.83	1016.05		
12-Jun-02		-3.64	1016.24		
17-Jul-02		-3.55	1016.34		
7-Aug-02					not read
9-Sep-02		-3.52	1016.36		
4-Nov-02		-3.67	1016.21		

Table H-30: Cross Valley Dam
Piezometric Monitoring CVDT-2

CVDT-2		Location:	Cross Valley Dam Toe black PVC adj. to W3 channel	Stick up:	1.52m/ 0.38m
		Coordinates:	N/A	Ground Elevation (m amsl):	1019.50
Surface Protector:	N/A	Date Installed:	1994	Tip Elevation (m amsl):	1006.20
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments
10-Nov-02		-3.68	1016.20		
30-Jan-03		-3.66	1016.23		
9-Feb-03		-3.66	1016.22	1058.60	start siphon
11-Feb-03		-3.67	1016.22	1058.50	
13-Feb-03		-3.68	1016.21	1058.50	
18-Feb-03		-3.69	1016.19		
21-Feb-03		-3.70	1016.19	1026.18	
23-Apr-03		-3.76	1016.12	997.84	
7-May-03		-3.78	1016.11		
16-May-03		-3.78	1016.11		
11-Jun-03		-3.64	1016.24		
15-Jul-03		-3.57	1016.31		
10-Sep-03		-3.76	1016.12		
4-Mar-04		-3.90	1015.98		No 2004 survey data available
8-Mar-04		-3.77	1016.11		
26-Apr-04		-3.75	1016.13		
19-Jul-04		-3.67	1016.22		
26-Aug-04		-3.66	1016.23		
9-Sep-04		-3.72	1016.16		
22-Feb-05		-3.74	1016.15		
24-Feb-05		-3.75	1016.14		
26-May-05		-3.71	1016.17		
14-Sep-05		-3.99	1015.89		
9-Mar-06		-4.17	1015.33		
14-Jun-06		-3.97	1015.54		
2-Oct-06		-3.99	1015.51	1027.47	
9-May-07		-3.95	1015.56	1029.30	
24-Sep-07		-3.91	1015.60	1030.30	
9-Apr-08		-3.82	1015.68	1030.30	
14-Apr-08		-3.84	1015.66	1029.93	
21-Apr-08		-3.88	1015.63	1029.63	
28-Apr-08		-3.89	1015.61	1029.25	
5-May-08		-3.87	1015.63	1029.43	
12-May-08		-3.85	1015.65	1029.36	
20-May-08		-3.88	1015.62	1029.34	
26-May-08		-3.88	1015.62	1029.28	
24-Jun-08		-3.68	1015.82	1028.64	
24-Sep-08		-3.70	1015.81	1028.50	
31-Mar-09		-3.84	1015.66	1029.60	
13-Apr-09		-3.85	1015.65	1028.16	
16-Apr-09				1027.74	
20-Apr-09		-4.01	1015.49	1027.72	
23-Apr-09				1027.49	
27-Apr-09		-4.07	1015.43	1027.27	
30-Apr-09				1027.16	
5-May-09		-4.05	1015.45	1027.23	
19-May-09		-4.03	1015.47	1027.83	
29-Jun-09		-3.81	1015.69	1027.67	
9-Aug-09		-3.88	1015.63	1028.36	
19-May-10		-3.91	1015.59	1029.05	
3-Jun-10		-3.82	1015.68	1029.74	
7-Sep-10		-3.96	1015.54	1030.44	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-31: Cross Valley Dam
Piezometric Monitoring CVDP1

CVDP-1		Location:	20m u/s of CL, Stn.0+450		
		Coordinates:	8V580128 6914135	2004 Ground Elevation (m amsl):	1016.86
Surface Protector:	yes	Date Installed:	1982	Tip Elevation (m amsl):	1014.51

Date		Reading (psi)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments
Aug-82		6.60	1019.13		
Dec-82		6.26	1018.89		
Apr-83		5.80	1018.57	1029.33	
Jun-83		4.80	1017.87	1025.88	
Aug-83		4.10	1017.38		
Dec-83		4.50	1017.66		
Mar-84		4.40	1017.59	1029.71	
Jun-84		4.50	1017.66	1026.80	
Oct-84		4.40	1017.59		
May-86		6.70	1019.20	1030.70	
Oct-86		6.90	1019.34	1030.90	
Oct-88		6.10	1018.78		
Sep-89		6.20	1018.85		
Oct-90		6.10	1018.78		
May-91		6.00	1018.71		
Sep-91		6.30	1018.92		
Sep-92		7.20	1019.55		
May-94		6.50	1019.06		
Sep-94		6.00	1018.71		
Sep-95		6.50	1019.06		
Sep-96		6.60	1019.13	1029.92	
6-May-97		5.30	1018.22		
21-Nov-97		6.50	1019.06		
27-May-98		6.70	1019.20	1031.20	
12-Nov-98					no air bubbles returned
4-Dec-98		6.00	1018.71	1029.80	
16-Dec-98				1029.80	black tube broken at connector
11-Jun-03		6.10	1018.78		new piezometer
15-Jul-03		6.20	1018.85		
10-Sep-03		5.70	1018.50		
4-Mar-04		6.20	1018.85		2004 Survey data used from here on
8-Mar-04		5.90	1018.64		
26-Apr-04		6.00	1018.71		
26-Aug-04		6.20	1018.85		
9-Sep-04		6.00	1018.71		
22-Feb-05		6.10	1018.78		
24-Feb-05		3.50			
26-May-05		5.80	1018.57		
14-Sep-05		5.20	1018.15		
9-Mar-06		4.80	1017.87		
14-Jun-06		5.10	1018.08		
2-Oct-06		5.10	1018.08	1027.47	
9-May-07		5.60	1018.43	1029.30	Good return
24-Sep-07		4.30	1017.52	1030.30	
9-Apr-08		6.00	1018.71	1030.30	
14-Apr-08		5.90	1018.64	1029.93	
21-Apr-08		5.70	1018.50	1029.63	
28-Apr-08		5.70	1018.50	1029.25	
5-May-08		5.80	1018.57	1029.43	
12-May-08		5.70	1018.50	1029.36	
20-May-08		5.60	1018.43	1029.34	
26-May-08		5.70	1018.50	1029.28	
24-Jun-08		5.70	1018.50	1028.64	
24-Sep-08		5.80	1018.57	1028.50	
31-Mar-09		5.80	1018.57	1029.60	
13-Apr-09		5.30	1018.22	1028.16	
16-Apr-09				1027.74	
20-Apr-09		5.20	1018.15	1027.72	
23-Apr-09				1027.49	
27-Apr-09		5.00	1018.01	1027.27	
30-Apr-09				1027.16	
5-May-09		5.00	1018.01	1027.23	
19-May-09		5.10	1018.08	1027.83	
29-Jun-09		5.20	1018.15	1027.67	
15-Sep-09		5.70	1018.50	1028.36	
19-May-10		5.50	1018.36	1029.05	
3-Jun-10		7.60	1019.83	1029.74	
7-Sep-10		5.00	1018.01	1030.44	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-32: Cross Valley Dam
Piezometric Monitoring CVDP-3

CVDP-3		Location:	St.0+450 7m d/s of CL.		
		Coordinates:	8V580128 6914135	2004 Ground Elevation (m amsl):	1016.86
Surface Protector:	yes	Date Installed:	1982	Tip Elevation (m amsl):	1014.71

Date		Reading (psi)	Piezometric Elevation 2004 (m amsl)	Pond Elevation (m amsl)	Comments
Aug-82		3.70	1017.30		
Dec-82		3.60	1017.23		
Apr-83		3.40	1017.09	1029.33	
Jun-83		2.80	1016.67	1025.88	
Aug-83		2.40	1016.39		
Dec-83		2.40	1016.39		
Mar-84		2.70	1016.60	1029.71	
Jun-84		2.30	1016.32	1026.80	
Oct-84		2.40	1016.39		
May-86		4.00	1017.51	1030.70	
Oct-86		4.00	1017.51	1030.90	
Oct-87		3.80	1017.37		
Oct-88		3.50	1017.16		
Sep-89		3.30	1017.02		
Oct-90		3.20	1016.95		
May-91		4.80	1018.07		
Sep-91		3.30	1017.02		
Sep-92		0.40			likely erroneous reading
May-94		3.00	1016.81		
Sep-94		3.30	1017.02		
Sep-95		3.00	1016.81		
Sep-96		3.25	1016.99	1029.92	
6-May-97		3.10	1016.88		
21-Nov-97		3.48	1017.15		
27-May-98		3.44	1017.12	1031.20	
12-Nov-98		n.r.			no air bubbles returned
4-Dec-98		n.r.			no air bubbles returned
3-Jun-99		3.22	1016.96		
18-Sep-99		3.10	1016.88	1029.20	very slow
14-Jun-00		3.31	1017.03	1030.20	
14-Aug-00		3.40	1017.09		
31-Aug-00		3.40	1017.09		
7-Sep-00		3.40	1017.09		
14-Sep-00		3.50	1017.16		
21-Sep-00		3.50	1017.16		
28-Sep-00		3.50	1017.16		
6-Oct-00		3.60	1017.23		
12-Oct-00		3.60	1017.23		
20-Oct-00		3.50	1017.16		
27-Oct-00		3.50	1017.16		
10-Jun-01		3.20	1016.95		
14-Sep-01		3.40	1017.09		
16-Oct-01		3.20	1016.95		
18-Oct-01		3.20	1016.95		
19-Oct-01		3.20	1016.95		
20-Oct-01		3.22	1016.96		
21-Oct-01		3.21	1016.96		
22-Oct-01		3.20	1016.95		
25-Oct-01		3.20	1016.95		
29-Oct-01		3.10	1016.88		
1-Nov-01		3.20	1016.95		
5-Nov-01		3.10	1016.88		
6-Nov-01		3.10	1016.88		
8-Nov-01		3.20	1016.95		
12-Nov-01		3.20	1016.95		
15-Nov-01		3.20	1016.95		
19-Nov-01		3.20	1016.95		
21-Nov-01		3.20	1016.95		
23-Nov-01		3.20	1016.95		pond elev approx - 8 ft.
26-Nov-01		3.20	1016.95		daytime temp -34 C
28-Nov-01					not read, low pressure in box
30-Nov-01					instrument broken from Nov 01 to Feb 02
1-May-02		3.20	1016.95		instrument fixed
12-Jun-02		3.30	1017.02		
17-Jul-02		3.30	1017.02		
7-Aug-02					not read
9-Sep-02		3.40	1017.09		

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Table H-32: Cross Valley Dam
Piezometric Monitoring CVDP-3

CVDP-3		Location:	St.0+450 7m d/s of CL.		
		Coordinates:	8V580128 6914135	2004 Ground Elevation (m amsl):	1016.86
Surface Protector:	yes	Date Installed:	1982	Tip Elevation (m amsl):	1014.71
Date		**Reading (psi)**	**Piezometric Elevation 2004 (m amsl)**	**Pond Elevation (m amsl)**	**Comments**
4-Nov-02		3.30	1017.02		
10-Nov-02		3.20	1016.95		
30-Jan-03		3.30	1017.02		
9-Feb-03		3.30	1017.02		start siphon
11-Feb-03		3.30	1017.02		
13-Feb-03		3.30	1017.02		
18-Feb-03		3.20	1016.95		
21-Feb-03		3.20	1016.95	1026.18	
23-Apr-03		3.20	1016.95		
7-May-03		3.10	1016.88		
16-May-03		3.10	1016.88		
11-Jun-03		3.10	1016.88		*new piezometer readout
15-Jul-03		3.20	1016.95		
10-Sep-03		2.90	1016.74		
4-Mar-04		3.10	1016.88		2004 Survey data used from here on
8-Mar-04		3.00	1016.81		
26-Apr-04		3.00	1016.81		
19-Jul-04		3.10	1016.88		
26-Aug-04		3.10	1016.88		
9-Sep-04		3.10	1016.88		
22-Feb-05		14.00			no bubbles, keeps rising
24-Feb-05		16.00			no bubbles, keeps rising
26-May-05		2.70	1016.60		
14-Sep-05		2.30	1016.32		
9-Mar-06		2.20	1016.25		
14-Jun-06		2.30	1016.32		
2-Oct-06		2.30	1016.32	1027.47	
9-May-07		2.40	1016.39	1029.30	Good Return
24-Sep-07		2.00	1016.11	1030.30	
9-Apr-08		2.70	1016.60	1030.30	
14-Apr-08		2.70	1016.60	1029.93	
21-Apr-08		2.60	1016.53	1029.63	
28-Apr-08		2.60	1016.53	1029.25	
5-May-08		2.60	1016.53	1029.43	
12-May-08		2.70	1016.60	1029.36	
20-May-08		2.60	1016.53	1029.34	
26-May-08		2.60	1016.53	1029.28	
24-Jun-08		2.70	1016.60	1028.64	
24-Sep-08		2.80	1016.67	1028.50	
31-Mar-09		20.20		1029.60	likely erroneous reading (LNW)
13-Apr-09		20.60		1028.16	likely erroneous reading (LNW)
16-Apr-09				1027.74	
20-Apr-09		20.20		1027.72	likely erroneous reading (LNW)
23-Apr-09				1027.49	
27-Apr-09		n/r		1027.27	
30-Apr-09				1027.16	
5-May-09		2.20	1016.25	1027.23	
19-May-09		2.30	1016.32	1027.83	
29-Jun-09		2.30	1016.32	1027.67	
15-Sep-09		n/r		1028.36	no bubbles
19-May-10		2.40	1016.39	1029.05	
3-Jun-10		4.20	1017.65	1029.74	
7-Sep-10		2.40	1016.39	1030.44	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Table H-33: Cross Valley Dam
Piezometric Monitoring CVDP-5

CVDP-5		Location:	Cross Valley Dam St.0+210 9m u/s of CL.		
		Coordinates:	8V580239 6914346	2004 Ground Elevation (m amsl):	1019.18
Surface Protector:	yes	Date Installed:	1982	Tip Elevation (m amsl):	1014.28
Date		Reading (psi)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments
Aug-82		8.20	1020.02		
Dec-82		8.50	1020.23		
Apr-83		7.60	1019.60	1029.33	
Jun-83		6.50	1018.83	1025.88	
Aug-83		5.50	1018.13		
Dec-83		5.80	1018.34		
Mar-84		5.80	1018.34	1029.71	
Jun-84		5.80	1018.34	1026.80	
May-86				1030.70	
Oct-86				1030.90	
Sep-92		9.90	1021.21		
May-94		9.70	1021.07		
Sep-94		9.20	1020.72		
Sep-95		9.50	1020.93		
Sep-96		9.45	1020.90	1029.92	
6-May-97		8.10	1019.95		
21-Nov-97		9.33	1020.81		
27-May-98		9.60	1021.00		
12-Nov-98					black air tube broken at connector
10-Sep-03		8.50	1020.23		
4-Mar-04		9.20	1020.72		2004 Survey data used from here on
8-Mar-04		9.00	1020.58		
26-Apr-04		9.10	1020.65		
26-Aug-04		9.20	1020.72		
9-Sep-04		8.90	1020.51		
22-Feb-05		9.10	1020.65		
24-Feb-05		8.70	1020.37		
26-May-05		9.70	1021.07		
14-Sep-05		8.20	1020.02		
9-Mar-06		8.00	1019.88		
14-Jun-06		8.40	1020.16		
2-Oct-06		8.10	1019.95	1027.47	
9-May-07		9.20	1020.72	1029.30	Good Return
24-Sep-07		7.50	1019.53	1030.30	
9-Apr-08		9.50	1020.93	1030.30	
14-Apr-08		9.40	1020.86	1029.93	
21-Apr-08		9.30	1020.79	1029.63	
28-Apr-08		9.10	1020.65	1029.25	
5-May-08		9.20	1020.72	1029.43	
12-May-08		9.20	1020.72	1029.36	
20-May-08		9.20	1020.72	1029.34	
26-May-08		9.20	1020.72	1029.28	
24-Jun-08		9.00	1020.58	1028.64	
24-Sep-08		9.00	1020.58	1028.50	
31-Mar-09		9.50	1020.93	1029.60	
13-Apr-09		8.90	1020.51	1028.16	
16-Apr-09				1027.74	
20-Apr-09		8.30	1020.09	1027.72	
23-Apr-09				1027.49	
27-Apr-09		8.10	1019.95	1027.27	
30-Apr-09				1027.16	
5-May-09		8.10	1019.95	1027.23	
19-May-09		8.50	1020.23	1027.83	
29-Jun-09		8.40	1020.16	1027.67	
15-Sep-09		9.10	1020.65	1028.36	
19-May-10		9.60	1021.00	1029.05	
3-Jun-10		11.10	1022.05	1029.74	
7-Sep-10		8.20	1020.02	1030.44	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-34: Cross Valley Dam
Piezometric Monitoring CVDP-6

CVDP-6		Location:	Cross Valley Dam St.0+210 5m d/s of CL.		
		Coordinates:	8V580239 6914346	2004 Ground Elevation (m amsl):	1019.18
Surface Protector:	yes	Date Installed:	1982	Tip Elevation (m amsl):	1014.37
Date		Reading (psi)	Piezometric Elevation 2004 (m amsl)	Pond Elevation (m amsl)	Comments
Aug-82		5.60	1018.29		
Dec-82		5.50	1018.22		
Apr-83		5.00	1017.87	1029.33	
Jun-83		5.70	1018.36	1025.88	
Aug-83		3.90	1017.10		
Dec-83		4.10	1017.24		
Mar-84		4.20	1017.31	1029.71	
Jun-84		4.10	1017.24	1026.80	
Oct-84		4.20	1017.31		
May-86		5.80	1018.43	1030.70	
Oct-86		6.00	1018.57	1030.90	
Oct-87		5.40	1018.15		
Oct-88		4.70	1017.66		
Sep-89		5.00	1017.87		
Oct-90		5.50	1018.22		
Sep-92		6.60	1018.99		
May-94		6.10	1018.64		
Sep-94		5.20	1018.01		
Sep-95		5.50	1018.22		
Sep-96		6.25	1018.75	1029.92	
6-May-97		5.40	1018.15		
21-Nov-97		4.45	1017.49		
27-May-98		3.74	1016.99	1031.20	
12-Nov-98		4.50	1017.52	1029.80	
3-Jun-99		4.90	1017.80	1031.40	
18-Sep-99		4.50	1017.52		
14-Jun-00		4.80	1017.73	1030.20	
14-Aug-00		4.80	1017.73		
31-Aug-00		5.00	1017.87		return bubbles "sputtering"
7-Sep-00		5.00	1017.87		
14-Sep-00		5.00	1017.87		
21-Sep-00		4.70	1017.66		
28-Sep-00		4.90	1017.80		
6-Oct-00		5.00	1017.87		
12-Oct-00		4.90	1017.80		
20-Oct-00		5.20	1018.01		
27-Oct-00		5.10	1017.94		
10-Jun-01		4.90	1017.80		
14-Sep-01		4.90	1017.80		
16-Oct-01		4.80	1017.73		
18-Oct-01		4.72	1017.67		
19-Oct-01		4.70	1017.66		
20-Oct-01		4.70	1017.66		
21-Oct-01		4.70	1017.66		
22-Oct-01		4.70	1017.66		
25-Oct-01		4.70	1017.66		
29-Oct-01		4.70	1017.66		
1-Nov-01		4.70	1017.66		
5-Nov-01		4.60	1017.59		
6-Nov-01		4.60	1017.59		
8-Nov-01		4.70	1017.66		
12-Nov-01		4.70	1017.66		
15-Nov-01		4.70	1017.66		
19-Nov-01		4.80	1017.73		
21-Nov-01		4.70	1017.66		
23-Nov-01		4.70	1017.66		pond elev approx - 8 ft.
26-Nov-01		-			not read
28-Nov-01		-			not read, low pressure in box
30-Nov-01		4.90	1017.80		
3-Dec-01		4.70	1017.66		
5-Dec-01		4.70	1017.66		
12-Dec-01		4.70	1017.66		
14-Dec-01		4.80	1017.73		
15-Dec-01		4.40	1017.45		
16-Dec-01		4.80	1017.73		
17-Dec-01		4.80	1017.73		
18-Dec-01		4.50	1017.52		
19-Dec-01		4.80	1017.73		
26-Dec-01		4.60	1017.59		
2-Jan-02		4.80	1017.73		
9-Jan-02		4.60	1017.59		
16-Jan-02		4.60	1017.59		
23-Jan-02		4.80	1017.73		
30-Jan-02		4.80	1017.73		
6-Feb-02		4.80	1017.73		
13-Feb-02		4.80	1017.73		

Table H-34: Cross Valley Dam
Piezometric Monitoring CVDP-6

CVDP-6		Location:	Cross Valley Dam St.0+210 5m d/s of CL.		
		Coordinates:	8V580239 6914346	2004 Ground Elevation (m amsl):	1019.18
Surface Protector:	yes	Date Installed:	1982	Tip Elevation (m amsl):	1014.37
Date		Reading (psi)	Piezometric Elevation 2004 (m amsl)	Pond Elevation (m amsl)	Comments
20-Feb-02		4.80	1017.73		
1-May-02		5.20	1018.01		
12-Jun-02		5.00	1017.87		
17-Jul-02		4.90	1017.80		
7-Aug-02					not read
9-Sep-02		5.10	1017.94		
4-Nov-02		5.20	1018.01		
10-Nov-02		5.10	1017.94		
30-Jan-03		5.30	1018.08		
9-Feb-03		5.20	1018.01		start siphon
11-Feb-03		5.20	1018.01		
13-Feb-03		5.00	1017.87		
18-Feb-03					*Piezometer tip broken (-35 oC)
21-Feb-03				1026.18	
23-Apr-03					
7-May-03					
16-May-03		4.80	1017.73		*piezometer tip repaired
11-Jun-03		4.70	1017.66		*new piezometer readout
15-Jul-03		4.80	1017.73		
10-Sep-03		4.70	1017.66		
4-Mar-04		5.00	1017.87		2004 Survey data used from here on
8-Mar-04		4.80	1017.73		
26-Apr-04		4.80	1017.73		
19-Jul-04		4.80	1017.73		
26-Aug-04		4.90	1017.80		
9-Sep-04		4.80	1017.73		
22-Feb-05		4.80	1017.73		
24-Feb-05		4.60	1017.59		
24-Feb-05		4.60	1017.59		
26-May-05		4.80	1017.73		
14-Sep-05		4.50	1017.52		
9-Mar-06		4.50	1017.52		
14-Jun-06		4.40	1017.45		
2-Oct-06		4.30	1017.38	1027.47	
9-May-07		4.80	1017.73	1029.30	Good Return
24-Sep-07		4.30	1017.38	1030.30	
9-Apr-08		4.90	1017.80	1030.30	
14-Apr-08		5.10	1017.94	1029.93	
21-Apr-08		5.10	1017.94	1029.63	
28-Apr-08		4.90	1017.80	1029.25	
5-May-08		5.00	1017.87	1029.43	
12-May-08		5.10	1017.94	1029.36	
20-May-08		5.00	1017.87	1029.34	
26-May-08		5.00	1017.87	1029.28	
24-Jun-08		4.90	1017.80	1028.64	
24-Sep-08		5.10	1017.94	1028.50	
31-Mar-09		5.10	1017.94	1029.60	
13-Apr-09		4.80	1017.73	1028.16	
16-Apr-09				1027.74	
20-Apr-09		4.80	1017.73	1027.72	
23-Apr-09				1027.49	
27-Apr-09		4.50	1017.52	1027.27	
30-Apr-09				1027.16	
5-May-09		4.60	1017.59	1027.23	
19-May-09		4.70	1017.66	1027.83	
29-Jun-09		4.60	1017.59	1027.67	
15-Sep-09		4.90	1017.80	1028.36	
19-May-10		5.20	1018.01	1029.05	
3-Jun-10		7.40	1019.55	1029.74	
7-Sep-10		4.60	1017.59	1030.44	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-35: Cross Valley Dam
Piezometric Monitoring 94 CVDC-1

94CVDC-1		Location:	Cross Valley Dam Crest Stn. 0+215	2004 Stick-up (m):	0.64
		Coordinates:	8V580263 6914326	2004 Ground Elevation (m amsl):	1033.38
Surface Protector:	yes	Date Installed:	1994	2004 Tip Elevation (m amsl):	1020.4

Date		Water Level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments
May-94		9.90	1024.00		
Sep-94		9.57	1024.33		
Sep-95		9.32	1024.58		
Sep-96		10.04	1023.86	1029.92	
7-May-97		11.00	1022.91		
20-Nov-97		10.07	1023.83		
26-May-98		9.84	1024.06	1031.20	
13-Nov-98		10.16	1023.74	1029.80	
3-Jun-99		9.65	1024.25	1031.40	
18-Sep-99		10.69	1023.21	~1029.2	
8-Jun-00		9.84	1024.06	~1030.2	
14-Aug-00		10.10	1023.80		
31-Aug-00		10.38	1023.52		
7-Sep-00		10.38	1023.52		
14-Sep-00		10.10	1023.80		
21-Sep-00		13.61			frozen?
28-Sep-00		10.30	1023.60		
6-Oct-00		9.99	1023.91		
12-Oct-00		10.06	1023.84		
20-Oct-00		9.87	1024.03		
27-Oct-00		9.91	1023.99		
10-Jun-01		10.28	1023.62		
14-Sep-01		10.08	1023.82		
16-Oct-01		10.39	1023.51		
18-Oct-01		10.51	1023.39		
19-Oct-01		10.53	1023.37		
20-Oct-01		10.54	1023.36		
21-Oct-01		10.55	1023.35		
22-Oct-01		10.53	1023.37		
25-Oct-01		10.53	1023.37		
29-Oct-01		10.44	1023.46		
1-Nov-01		10.43	1023.48		
5-Nov-01		10.49	1023.42		
6-Nov-01		10.49	1023.42		
8-Nov-01		10.41	1023.49		
12-Nov-01		10.41	1023.49		
15-Nov-01		10.39	1023.51		
19-Nov-01		10.38	1023.52		
21-Nov-01		10.38	1023.53		
23-Nov-01		10.42	1023.48		pond elev approx - 8 ft.
26-Nov-01		10.42	1023.48		daytime temp -34 C
28-Nov-01		10.39	1023.51		
30-Nov-01		10.37	1023.53		
3-Dec-01		10.37	1023.53		
5-Dec-01		10.37	1023.54		
12-Dec-01		10.36	1023.54		
14-Dec-01		10.42	1023.48		
15-Dec-01		10.48	1023.42		
16-Dec-01		10.53	1023.37		
17-Dec-01		10.59	1023.31		
18-Dec-01		10.62	1023.28		
19-Dec-01		10.65	1023.25		
26-Dec-01		10.64	1023.26		
2-Jan-02		10.56	1023.34		
9-Jan-02		10.57	1023.33		
16-Jan-02		10.56	1023.34		
23-Jan-02		10.43	1023.47		
30-Jan-02		10.42	1023.48		
6-Feb-02		10.42	1023.48		
13-Feb-02		10.41	1023.49		
20-Feb-02		10.41	1023.49		
1-May-02		10.45	1023.45		
12-Jun-02		10.59	1023.31		
17-Jul-02		10.49	1023.42		
7-Aug-02		10.60	1023.31		
9-Sep-02		10.36	1023.54		
4-Nov-02		10.44	1023.47		

Table H-35: Cross Valley Dam
Piezometric Monitoring 94 CVDC-1

94CVDC-1		Location:	Cross Valley Dam Crest Stn. 0+215	2004 Stick-up (m):	0.64
		Coordinates:	8V580263 6914326	2004 Ground Elevation (m amsl):	1033.38
Surface Protector:	yes	Date Installed:	1994	2004 Tip Elevation (m amsl):	1020.4
Date		Water Level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond Elevation (m amsl)	Comments
10-Nov-02		10.44	1023.46		
30-Jan-03		10.18	1023.72		
9-Feb-03		10.24	1023.67		start siphon
11-Feb-03		10.24	1023.67		
13-Feb-03		10.28	1023.63		
18-Feb-03		10.31	1023.59		
21-Feb-03		10.31	1023.59	1026.18	
23-Apr-03		10.26	1023.64		
7-May-03		10.49	1023.42		
16-May-03		10.47	1023.43		
11-Jun-03		10.47	1023.44		
15-Jul-03		10.38	1023.52		
10-Sep-03		10.76	1023.15		
4-Mar-04		10.25	1023.77		2004 Survey data used from here on.
8-Mar-04		10.36	1023.67		
26-Apr-04		10.24	1023.78		
19-Jul-04		10.38	1023.64		
26-Aug-04		10.31	1023.72		
9-Sep-04		10.51	1023.51		
22-Feb-05		10.15	1023.87		
23-Feb-05		10.18	1023.85		
24-Feb-05		10.22	1023.81		
26-May-05		10.87	1023.16		dirty
14-Sep-05		11.10	1022.93		
9-Mar-06		11.29	1022.73		
14-Jun-06		11.20	1022.83		
4-Oct-06		11.11	1022.92	1027.47	
9-May-07		10.54	1023.48	1029.30	
24-Sep-07		11.03	1022.99	1030.30	
9-Apr-08		10.10	1023.92	1030.30	
14-Apr-08		10.20	1023.82	1029.93	
21-Apr-08		10.39	1023.64	1029.63	
28-Apr-08		10.47	1023.55	1029.25	
5-May-08		10.44	1023.58	1029.43	
12-May-08		10.43	1023.59	1029.36	
20-May-08		10.46	1023.56	1029.34	
26-May-08		10.48	1023.54	1029.28	
24-Jun-08		10.69	1023.34	1028.64	
24-Sep-08		10.70	1023.33	1028.50	
31-Mar-09		10.42	1023.61	1029.60	
13-Apr-09		10.89	1023.14	1028.16	
16-Apr-09		10.98	1023.05	1027.74	
20-Apr-09		11.07	1022.96	1027.72	
23-Apr-09		11.13	1022.89	1027.49	
27-Apr-09		11.23	1022.80	1027.27	
30-Apr-09		11.28	1022.75	1027.16	
5-May-09		11.25	1022.78	1027.23	
19-May-09		11.04	1022.98	1027.83	
29-Jun-09		11.11	1022.92	1027.67	
15-Sep-09		10.89	1023.14	1028.36	
19-May-10		10.74	1023.29	1029.05	
3-Jun-10		10.87	1023.15	1029.74	
7-Sep-10		11.22	1022.81	1030.44	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Table H-36: Cross Valley Dam
Piezometric Monitoring P01-11

P01-11		Location:	Cross Valley Dam Toe	2004 Stick-Up (m):	0.66
		Coordinates:	8V580208 6914301	2004 Surface Elevation (m amsl):	1017.21
Surface Protector:	yes	Date Installed:	2001	Tip Elevation (m amsl):	1006.61
				Screened Interval (m bgs):	9.15 - 10.67

Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)		Comments
11-Sep-01		0.65	1017.18		
3-Sep-02		0.45	1017.38		
23-Sep-02		0.45	1017.38		
15-Jul-03		0.00	1017.83		*whole casing filled with water
4-Sep-03		0.52	1017.31		* Rhonda noted: 'water in casing'
10-Sep-03		0.63	1017.20		
19-Jul-04		0.505	1017.37		2004 survey data used from here on
26-Aug-04		0.51	1017.36		
9-Sep-04		0.65	1017.22		Ice in tubing, sulphur smell
24-Feb-05		0.6	1017.27		Frozen
26-May-05		0.5	1017.37		
14-Sep-05		1.06	1016.81		
9-Mar-06		1.16	1016.71		
14-Jun-06		1.05	1016.82		Water in casing
2-Oct-06		1.12	1016.75		
9-May-07		1.03	1016.84		Good Return
24-Sep-07		1.035	1016.84		
9-Apr-08		0.92	1016.95		frozen
14-Apr-08		0.66	1017.21		frozen
21-Apr-08		0.91	1016.96		frozen
28-Apr-08		0.91	1016.96		frozen
5-May-08		0.91	1016.96		frozen
12-May-08		0.81	1017.06		
20-May-08		0.815	1017.06		
26-May-08		0.81	1017.06		
24-Jun-08		0.82	1017.05		
24-Sep-08		0.81	1017.06		
31-Mar-09		0.95	1016.92	1029.596	Frozen
13-Apr-09		0.955	1016.92	1028.164	Frozen
16-Apr-09				1027.744	
20-Apr-09		0.955	1016.92	1027.716	Frozen
23-Apr-09				1027.487	
27-Apr-09		0.955	1016.92	1027.273	Frozen
30-Apr-09				1027.159	
5-May-09		0.955	1016.92	1027.229	Frozen
19-May-09		1.055	1016.82	1027.831	
29-Jun-09		1.05	1016.82	1027.668	
15-Sep-09		1.081	1016.79	1028.360	
19-May-10		0.916	1016.95	1029.052	
3-Jun-10		0.912	1016.96	1029.744	
7-Sep-10		1.225	1016.65	1030.436	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Denison Environmental Services

Table H-37: Intermediate Dam
Piezometric Monitoring BH91-ID3

Faro Mine Closure

BH91-ID3		Location:	Intermediate Dam South Abutment @ Stn. 0+810	Shallow Tip Elevation (m amsl):	1036.82
		Coordinates:	8V580359 6913723	Deep Tip Elevation (m amsl):	1028.62
Surface Protector:	yes	Date Installed:	1991	2004 Surface Elevation (m amsl):	1043.82

	Reading (psi)		Piezometric Elevation (m amsl)			
Date	Shallow	Deep	Shallow	Deep	Pond El. (m amsl)	Comments
Jul-91	1.23	9.71	1037.68	1035.42	1042.2	
Aug-91	0.04	9.40	1036.85	1035.20	1042.2	
Sep-91		8.60	1036.82	1034.64	1042.2	
Feb-92						
Apr-92						
Jun-92	3.44	13.46	1039.23	1038.04	1047.7	
Sep-92	1.10	10.51	1037.59	1035.98	1047.7	
May-94	0.20	10.70	1036.96	1036.11	1047.7	
Sep-94	0.40	9.10	1037.10	1034.99	1047.7	
Sep-95	0.00	9.50	1036.82	1035.27	1047.7	
Oct-96	0.10	7.50	1036.89	1033.87	1048.1	
7-May-97	0.20	6.40	1036.96	1033.10		
17-Oct-97	0.40	8.31	1037.10	1034.44		
27-May-98	0.10	11.70	1036.89	1036.81	1048.1	
12-Nov-98	0.22	7.10	1036.97	1033.59	1047.8	
16-Dec-98	0.00	6.30	1036.82	1033.03	1047.8	
29-May-99	0.40	11.05	1037.10	1036.36	1048	
16-Sep-99	0.02	8.40	1036.83	1034.50	1047.7	
14-Jun-00	0.01	10.41	1036.83	1035.91	1047.6	
9-Sep-00	0.00	9.50	1036.82	1035.27		
10-Jun-01	0.10	10.30	1036.89	1035.83		
20-Sep-01	0.01	8.20	1036.83	1034.36		
18-Jun-02	0.00	9.10	1036.82	1034.99		
10-Sep-02	0.00	8.20	1036.82	1034.36		
4-Nov-02	0.00	7.10	1036.82	1033.59		
10-Nov-02	0.00	6.50	1036.82	1033.17		
11-Jun-03	0.20	8.70	1036.96	1034.71		*have to continue using old piezometer, tips are too big
10-Sep-03	0.00	6.30	1036.82	1033.03		* Installed new tips, now using new box
10-May-04	0.00	5.20	1036.82	1032.26		2004 survey data used from this point on
19-Jul-04	0.00	6.20	1036.82	1032.96		
9-Sep-04	0.10	5.70	1036.89	1032.61		
26-May-05	0.00	8.40	1036.82	1034.50		
14-Sep-05	0.00	4.90	1036.82	1032.05		
9-Mar-06	0.00	3.30	1036.82	1030.93		
27-Mar-06	0.10	3.40	1036.89	1031.00		
14-Jun-06	0.10	7.10	1036.89	1033.59		
2-Oct-06	0.10	4.10	1036.89	1031.49		
22-May-07	0.00	4.60	1036.82	1031.84	1046.781	Good Flow
26-Sep-07	0.10	5.70	1036.89	1032.61		
24-Sep-08	0.10	6.10	1036.89	1032.89	1046.197	
29-Jun-09	0.10	5.70	1036.89	1032.61		
30-Sep-09	0.20	5.30	1036.96	1032.33	1046.048	
15-May-10	0.20	5.20	1036.96	1032.26	1046.269	
2-Jun-10	1.00	7.90	1037.52	1034.15	1045.94	
4-Aug-10	0.10	3.40	1036.89	1031.00	1044.285	
10-Sep-10	10.10	3.10	1043.89	1030.79	1043.726	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Note: Check results

Table H-38: Intermediate Dam
Piezometric Monitoring BH91-ID4

BH91-ID4		Location:	Intermediate Dam Toe @St.0+567	Shallow Tip Elevation (m amsl):	1024.22
		Coordinates:	8V580517 6913926	Deep Tip Elevation (m amsl):	1017.08
Surface Protector:	yes	Date Installed:	1991	*Surface Elevation (m amsl):	1031.80

	Reading (psi)		Piezometric Elevation (m amsl)			
Date	Shallow (upper)	Deep (lower)	Shallow (upper)	Deep (lower)	Pond El. (m amsl)	Comments
Jul-91	10.34	19.06	1031.46	1030.42	1042.2	
Aug-91	10.81	19.20	1031.79	1030.52	1042.2	
Sep-91	11.10	19.30	1031.99	1030.59	1042.2	
Feb-92	12.24	19.59	1032.79	1030.79	1047.7	
Apr-92	12.44	19.64	1032.93	1030.83	1047.7	
Jun-92	14.80	20.40	1034.58	1031.36	1047.7	
Sep-92	11.86	21.10	1032.52	1031.85	1047.7	
May-94	10.00	18.70	1031.22	1030.17	1047.7	
Sep-94	8.90	17.40	1030.45	1029.26	1047.7	
Sep-95	11.00	19.00	1031.92	1030.38	1047.7	
Sep-96	10.00		1031.22		1048.1	
Oct-96	9.7	18.8	1031.01	1030.24		
7-May-97	6.3		1028.63			
17-Oct-97	11.58		1032.33			
27-May-98	11.04		1031.95		1048.1	
7-Aug-98		19.4		1030.66	1048.1	
12-Nov-98	9.22		1030.67		1047.8	
4-Dec-98	8.7	18.0	1030.31	1029.68	1047.8	
29-May-99	11.40	20.00	1032.20	1031.08	1048	
16-Sep-99	7.7	16.2	1029.61	1028.42	1047.7	
14-Jun-00	10.5	19.1	1031.57	1030.45	1047.6	
9-Sep-00	9.8	18.2	1031.08	1029.82		
10-Jun-01	9.50	18.1	1030.87	1029.75		
20-Sep-01	9.70	18.2	1031.01	1029.82		
18-Jun-02	9.70	18.80	1031.01	1030.24		
10-Sep-02	9.00	17.80	1030.52	1029.54		
4-Nov-02	9.00	17.60	1030.52	1029.40		
10-Nov-02	9.20	17.7	1030.66	1029.47		
11-Jun-03	9.00	17.7	1030.52	1029.47		*New piezometer readout used
10-Sep-03	7.60	16.4	1029.54	1028.56		
10-May-04	8.9	18.1	1030.45	1029.75		No 2004 elevation data
19-Jul-04	9.2	17.8	1030.66	1029.54		
9-Sep-04	8.6	17.2	1030.24	1029.12		
26-May-05	7.5	16	1029.47	1028.28		
14-Sep-05	6.5	15.1	1028.77	1027.65		
9-Mar-06	5.9	14.5	1028.35	1027.23		
27-Mar-06	6.3	14.9	1028.63	1027.51		
14-Jun-06	6.3	14.9	1028.63	1027.51		
2-Oct-06	6.3	14.9	1028.63	1027.51		
22-May-07	8.2	16.8	1029.96	1028.84	1046.781	Good Flow
26-Sep-07	5.8	15	1028.28	1027.58		
20-May-08	9.2	17.5	1030.66	1029.33		
11-Jun-08	8.7	16.9	1030.31	1028.91		
24-Sep-08	7.9	16.4	1029.75	1028.56	1046.197	
29-Jun-09	6.7	15.2	1028.91	1027.72		
30-Sep-09	8.7	16.9	1030.31	1028.91	1046.048	
15-May-10	8.4	16.9	1030.10	1028.91	1046.269	
2-Jun-10	16.7	13.8	1035.91	1026.74	1045.94	
10-Sep-10	6.7	14.6	1028.91	1027.30	1043.726	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Note: Check results

Denison Environmental Services

Table H-39: Intermediate Dam
Piezometric Monitoring BH91-ID6

Faro Mine Closure

BH91-ID6		Location:	Intermediate Dam Toe @St.0+630		Shallow Tip Elevation (m amsl):	1024.80
		Coordinates:	8V580475 6913866		Deep Tip Elevation (m amsl):	1016.90
Surface Protector:	yes	Date Installed:	1991		2004 Surface Elevation (m amsl):	1031.36

Date		Reading (psi)		Piezometric Elevation (m amsl)			
		Shallow (upper)	Deep (lower)	Shallow (upper)	Deep (lower)	Pond El. (m amsl)	Comments
Jul-91		7.89	20.33	1030.32	1031.13	1042.20	
Aug-91		8.06	20.91	1030.44	1031.54	1042.20	
Sep-91		8.20	20.80	1030.54	1031.46	1042.20	
Feb-92		8.20	20.70	1030.54	1031.39	1047.70	
Apr-92		9.06	23.10	1031.14	1033.07	1047.70	
Jun-92		9.91	25.80	1031.74	1034.96	1047.70	
Sep-92		8.67	21.36	1030.87	1031.85	1047.70	
May-94		7.20	20.00	1029.84	1030.90	1047.70	
Sep-94		6.20	18.90	1029.14	1030.13	1047.70	
Sep-95		7.50	20.00	1030.05	1030.90	1047.70	
Sep-96		6.60		1029.42		1048.10	
Oct-96		5.80	21.10	1028.86	1031.67		
7-May-97		2.90		1026.83			
17-Oct-97		8.41		1030.69			
27-May-98		8.56		1030.79		1048.10	
7-Aug-98			20.80		1031.46	1048.10	
12-Nov-98		6.57		1029.40		1047.80	
4-Dec-98		6.80	19.50	1029.56	1030.55	1047.80	
29-May-99		8.78	21.50	1030.95	1031.95	1048.00	
16-Sep-99		5.30	17.60	1028.51	1029.22	1047.70	
14-Jun-00		7.70	20.41	1030.19	1031.19	1047.60	
9-Sep-00		6.80	19.70	1029.56	1030.69		
10-Jun-01		6.80	19.50	1029.56	1030.55		
20-Sep-01		7.00	19.70	1029.70	1030.69		
18-Jun-02		6.80	19.60	1029.56	1030.62		
10-Sep-02		6.50	19.20	1029.35	1030.34		
4-Nov-02		6.30	19.00	1029.21	1030.20		
10-Nov-02		6.30	19.20	1029.21	1030.34		
11-Jun-03		6.40	19.00	1029.28	1030.20		*New piezometer started use here
10-Sep-03		5.10	17.60	1028.37	1029.22		
10-May-04		6.30	19.00	1029.21	1030.20		2004 survey data used from this point on
19-Jul-04		6.50	19.10	1029.35	1030.27		
9-Sep-04		5.90	18.60	1028.93	1029.92		
26-May-05		4.50	17.40	1027.95	1029.08		
14-Sep-05		3.60	16.50	1027.32	1028.45		
9-Mar-06		3.50	16.10	1027.25	1028.17		
27-Mar-06		3.40	16.40	1027.18	1028.38		3.4/3.5 won't stabilize
14-Jun-06		3.70	16.30	1027.39	1028.31		
2-Oct-06		3.50	16.30	1027.25	1028.31		
22-May-07		5.40	18.10	1028.58	1029.57	1046.78	Good flow
26-Sep-07		3.60	16.60	1027.32	1028.52		
20-May-08		6.10	18.90	1029.07	1030.13		
11-Jun-08		5.70	18.40	1028.79	1029.78		
24-Sep-08		5.20	17.90	1028.44	1029.43	1046.20	
29-Jun-09		3.90	16.60	1027.53	1028.52		
15-Sep-09		4.80	n/r	1028.16			
30-Sep-09		5.50	18.50	1028.65	1029.85	1046.05	
15-May-10		5.60	18.30	1028.72	1029.71	1046.27	
2-Jun-10		23.00	5.60	1040.90	1020.82	1045.94	
10-Sep-10		3.30	16.00	1027.11	1028.10	1043.73	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Note: Check results

Table H-40: Intermediate Dam
Piezometric Monitoring BH91-ID7

BH91-ID7		Location:	Intermediate Dam Toe @St.0+759		
		Coordinates:	8V580377 6913751	Tip Elevation (m amsl):	1025.95
Surface Protector:	yes	Date Installed:	1991	2004 Ground Elevation (amsl):	1032.42
Date		Reading (psi)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
Jul-91		8.94	1032.21	1042.20	
Aug-91		9.06	1032.29	1042.20	
Sep-91		8.90	1032.18	1042.20	
Feb-92		13.21	1035.20	1047.70	
Apr-92		10.01	1032.96	1047.70	
Jun-92		10.61	1033.38	1047.70	
Sep-92		9.21	1032.40	1047.70	
May-94		8.60	1031.97	1047.70	
Sep-94		7.40	1031.13	1047.70	
Sep-95		9.00	1032.25	1047.70	
Sep-96		8.10	1031.62	1048.10	
7-May-97		5.10	1029.52		
17-Oct-97		9.36	1032.50		
27-May-98		9.49	1032.59	1048.10	
12-Nov-98		7.56	1031.24	1047.80	
16-Dec-98		7.60	1031.27	1047.80	
29-May-99		9.60	1032.67	1048.00	
16-Sep-99		6.60	1030.57	1047.70	
14-Jun-00		8.90	1032.18	1047.60	
9-Sep-00		7.50	1031.20		
10-Jun-01		8.20	1031.69		
20-Sep-01		8.10	1031.62		
18-Jun-02		8.30	1031.76		
10-Sep-02		7.70	1031.34		
4-Nov-02		7.50	1031.20		
10-Nov-02		7.40	1031.13		
11-Jun-03		7.70	1031.34		*New piezometer started use here
10-Sep-03		6.20	1030.29		
10-May-04		7.20	1030.99		2004 survey data used from here on
19-Jul-04		7.40	1031.13		
9-Sep-04		6.90	1030.78		
26-May-05		6.10	1030.22		
14-Sep-05		5.10	1029.52		
9-Mar-06		4.60	1029.17		
27-Mar-06		4.80	1029.31		
14-Jun-06		5.40	1029.73		
2-Oct-06		4.90	1029.38		
22-May-07		6.30	1030.36	1046.78	Good Flow
26-Sep-07		5.50	1029.80		
20-May-08		7.30	1031.06		
11-Jun-08		6.90	1030.78		
24-Sep-08		6.40	1030.43	1046.20	
29-Jun-09		5.30	1029.66		
15-Sep-09		5.80	1030.01		
30-Sep-09		6.50	1030.50	1046.05	
15-May-10		6.50	1030.50	1046.27	
2-Jun-10		5.80	1030.01	1045.94	
10-Sep-10		4.30	1028.96	1043.73	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;

Table H-41: Intermediate Dam Piezometric Monitoring BH94-IDC-1

BH94-IDC-1		Location:	Intermediate Dam Crest	2004 Stick Up (m):	0.27
		Coordinates:	8V580605 6913969	2004 Surface Elevation (m amsl):	1049.21
Surface Protector:	Yes	Date Installed:	1994	Tip Elevation:	N/A
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
2-Jun-94				1047.70	dry
16-Sep-94				1047.70	dry
22-Sep-95				1047.70	dry
25-Sep-96				1048.10	dry
28-May-98				1048.10	dry
13-Nov-98		14.10	1035.48	1047.80	dry
8-Jun-99		14.10	1035.48	1047.80	dry
16-Sep-99		14.18	1035.40	1047.70	dry
14-Jun-00		14.11	1035.47	1047.60	dry
9-Sep-00		14.11	1035.47	1047.60	H2O
10-Jun-01		14.11	1035.47	1047.60	
1-Aug-01		14.11	1035.47	1047.60	dry
18-Jun-02		14.11	1035.47		dry
5-Aug-02		14.19	1035.40		dry
2-Sep-02		14.11	1035.47		dry
2-Nov-02		14.11	1035.47		dry
10-Nov-02		14.11	1035.47		dry
11-Jun-03		14.12	1035.46		dry
10-Sep-03		14.11	1035.47		dry
10-May-03		14.11	1035.47		dry
19-Jul-04		14.11	1035.37		dry
9-Sep-04		14.11	1035.37		dry
26-May-05		14.12	1035.36		bottom
14-Sep-05		14.12	1035.36		bottom
9-Mar-06		14.17	1035.31		
27-Mar-06		14.13	1035.35		no beep, ice crystals
14-Jun-06		14.13	1035.36		bottom
2-Oct-06		14.12	1035.36		
22-May-07		14.14	1035.35	1046.78	bottom and beep
26-Sep-07		14.13	1035.36		no beep
20-May-08		14.15	1035.33		no beep
11-Jun-08		14.14	1035.34		no beep
24-Sep-08		14.14	1035.34	1046.20	no beep
29-Jun-09		14.15	1035.33		no beep
30-Sep-09		14.16	1035.33	1046.05	no beep
15-May-10		14.17	1035.31	1046.27	no beep
2-Jun-10		14.15	1035.33	1045.94	no beep
10-Sep-10		14.15	1035.33	1043.73	no beep

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Table H-42: Intermediate Dam Piezometric Monitoring BH96-1

BH96-1		Location:	Intermediate Dam Crest		
		Coordinates:	8V580563 6913908	2004 Stick Up:	0.68
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation (m amsl):	1049.15
		Screened Interval (m bgs):	18.77 - 21.80	Tip Elevation (m amsl):	1027.35

Date		Water level from top of pipe (m)		Piezometric Elevation (m amsl)	Comments
8-Sep-96		20.06		1029.99	
26-Sep-96					
27-Sep-96					
13-May-97					
6-Jun-97					
11-Jul-97					
7-Oct-97		18.77		1031.28	
1-Jun-98		18.73		1031.32	
31-Oct-98		20.08		1029.97	
13-Nov-98		19.97		1030.08	
8-Jun-99		18.40		1031.65	
19-Jun-99					
3-Jul-99					
29-Oct-99		20.55		1029.50	
31-Oct-99					
31-May-00					
27-Jun-00					
25-Jul-00					
21-Sep-00		20.13		1029.92	
10-Oct-00					
6-Jun-01					
15-Jul-01					
5-Sep-01					
18-Jun-02					
5-Aug-02		20.48		1029.57	
10-Sep-02		20.02		1030.03	
4-Nov-02		20.14		1029.91	
10-Nov-02		20.06		1029.99	
11-Jun-03		20.03		1030.03	
10-Sep-03		20.96		1029.09	
12-May-04		19.93		1029.91	2004 survey data used from here on
8-Jul-04		19.70		1030.14	
19-Jul-04		19.95		1029.89	
9-Sep-04		20.33		1029.51	clear
26-May-05		21.17		1028.66	ice
14-Sep-05		21.82		1028.01	
9-Mar-06					
27-Mar-06					no read, frozen
14-Jun-06		2.27			likely a mistake
2-Oct-06		21.98		1027.85	
22-May-07					no read, frozen
26-Sep-07		21.66		1028.18	
20-May-08		1.22			no beep, frozen
11-Jun-08		1.20			no beep, frozen
24-Sep-08		20.97		1028.86	
29-Jun-09		3.08			frozen
30-Sep-09		20.59		1029.24	
15-May-10		20.59		1029.24	slush present
2-Jun-10		21.02		1028.81	
10-Sep-10		22.20		1027.63	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-43: Intermediate Dam Piezometric Monitoring 96-2

BH96-2		Location:	Intermediate Dam Crest		
		Coordinates:	8V580696 6914096	Tip Elevation (m amsl):	1028.87
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation: (m amsl)	1049.22
		Screened Interval (m bgs):	17.13 - 20.12	2004 Stick Up (m):	0.72

Date		Water level from top of pipe (m)		Piezometric Elevation (m amsl)	Comments
8-Sep-96		19.74		1030.31	
26-Sep-96					
27-Sep-96		19.94		1030.11	
13-May-97					
6-Jun-97					
11-Jul-97					
7-Oct-97		18.30		1031.75	
1-Jun-98		18.44		1031.61	
31-Oct-98		19.80		1030.25	
13-Nov-98		19.69		1030.36	
8-Jun-99		18.11		1031.94	
19-Jun-99					
3-Jul-99					
29-Oct-99		20.25		1029.80	
31-Oct-99					
31-May-00					
27-Jun-00					
25-Jul-00					
21-Sep-00		19.78		1030.27	
10-Oct-00					
6-Jun-01					
15-Jul-01					
5-Sep-01					
18-Jun-02		19.38		1030.68	
5-Aug-02		20.15		1029.90	
10-Sep-02		19.68		1030.37	
4-Nov-02		19.82		1030.24	
10-Nov-02		19.73		1030.32	
11-Jun-03		19.71		1030.34	
10-Sep-03		20.65		1029.40	
10-May-04		21.07		1028.87	Dry reading, 2004 survey data used from here on
19-Jul-04		19.62		1030.33	
9-Sep-04		20.02		1029.92	
26-May-05		19.95		1029.99	
14-Sep-05		21.04		1028.90	bottom iron mud on probe
9-Mar-06		21.15		1028.79	
27-Mar-06		21.03		1028.91	no beep, mud on probe
14-Jun-06		13.05			
2-Oct-06		21.04		1028.90	
22-May-07		20.34		1029.60	no beep, dry
26-Sep-07		21.40		1028.54	
20-May-08		19.89		1030.06	
11-Jun-08		20.19		1029.75	
24-Sep-08		20.58		1029.36	
29-Jun-09		21.50		1028.44	no beep
30-Sep-09		20.24		1029.70	
15-May-10		20.27		1029.67	
2-Jun-10		20.67		1029.27	
10-Sep-10		21.04		1028.91	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Table H-44: Intermediate Dam Piezometric Monitoring BH-96-3

BH96-3		Location:	Intermediate Dam Toe, near the North Abutment	2004 Stick Up - A (m):	0.65
		Coordinates:	8V580529 6913934	2004 Stick Up - B (m):	0.59
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation (m amsl):	1031.48
		Tip Elevation - A (m amsl):	1022.43	Screened Interval - A (m bgs):	7.44 - 8.97
		Tip Elevation - B (m amsl):	1012.23	Screened Interval - B (m bgs):	17.7 - 19.17

Date	Water level from top of pipe (m)		Piezometric Elevation (m amsl)		Comments
	A	B	96-3A (Shallow)	96-3B (Deep)	
8-Sep-96	2.37	2.25	1029.71	1029.78	
26-Sep-96	2.53	2.40	1029.55	1029.63	
27-Sep-96					
13-May-97	4.50	4.32	1027.58	1027.71	
6-Jun-97					
11-Jul-97					
7-Oct-97	1.06	0.95	1031.02	1031.08	
1-Jun-98	1.07	0.99	1031.01	1031.04	
31-Oct-98	2.44	2.34	1029.64	1029.69	
13-Nov-98					
8-Jun-99					
19-Jun-99	0.70	0.58	1031.38	1031.45	
3-Jul-99					
29-Oct-99	2.94	2.82	1029.14	1029.21	
31-Oct-99					
31-May-00					
27-Jun-00	2.41	2.26	1029.67	1029.77	
25-Jul-00					
21-Sep-00					
10-Oct-00	2.20	2.05	1029.88	1029.98	
6-Jun-01	2.38	2.24	1029.70	1029.79	
15-Jul-01	2.00	1.86	1030.08	1030.17	
5-Sep-01	1.98	1.86	1030.10	1030.17	
18-Jun-02	1.81		1030.27		
5-Aug-02					
10-Sep-02	2.57	2.42	1029.52	1029.61	
4-Nov-02					
10-Nov-02					
11-Jun-03	2.47	2.34	1029.61	1029.69	
10-Sep-03	3.43	3.28	1028.65	1028.75	
8-Jul-04	2.15	2.01	1029.98	1030.06	2004 survey data used from here on
19-Jul-04	2.40	2.23	1029.73	1029.85	
9-Sep-04	2.77	2.65	1029.36	1029.43	clear, sulphur smell
26-May-05	3.66	3.49	1028.47	1028.58	
14-Sep-05	4.37	4.18	1027.77	1027.89	
9-Mar-06	4.76	4.59	1027.37	1027.48	
27-Mar-06	4.43	4.26	1027.70	1027.81	
14-Jun-06	4.45	4.26	1027.68	1027.81	
2-Oct-06	4.42	4.30	1027.71	1027.77	
22-May-07	2.29	2.88	1029.84	1029.19	a- frozen no beep
26-Sep-07	4.06	3.94	1028.07	1028.13	
20-May-08	2.56	2.48	1029.57	1029.59	
11-Jun-08	2.91	2.81	1029.22	1029.26	
24-Sep-08	3.36	3.25	1028.77	1028.82	
29-Jun-09	4.17	4.04	1027.96	1028.03	
30-Sep-09	2.97	2.87	1029.16	1029.20	
15-May-10	2.95	2.85	1029.18	1029.22	
2-Jun-10	3.39	3.28	1028.74	1028.79	
10-Sep-10	5.51	3.77	1026.62	1028.31	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Denison Environmental Services

Table H-45: Intermediate Dam
Piezometric Monitoring BH-96-4

BH96-4		Location:	Intermediate Dam Toe, near South Abutment	2004 Stick Up - A (m):	0.95
		Coordinates:	8V580669 6914113	2004 Stick Up - B (m):	0.87
Surface Protector:	N/A	Date Installed:	1996	2004 Stick Up - C (m):	0.91
Screened Interval - A (m bgs):	5.7-6.48	Screened Interval - C (m bgs):	14.97-16.47	2004 Stick Up - D (m):	0.88
Screened Interval - B (m bgs):	9.8-11.3	Screened Interval - D (m bgs):	26.84-28.34	2004 Surface Elevation (m amsl):	1032.16

Date	Water level from top of pipe (m)				Piezometric Elevation (m amsl)				Comments
	A	B	C	D	A	B	C	D	
8-Sep-96	3.11	3.04	2.98	2.88	1029.99	1030.01	1030.02	1030.12	
26-Sep-96	3.27	3.25	3.12	3.05	1029.83	1029.80	1029.88	1029.95	
27-Sep-96									
13-May-97	5.21		4.85		1027.89		1028.15		
6-Jun-97									
11-Jul-97		3.51				1029.54			
7-Oct-97	1.45	1.87	1.82		1031.65	1031.18	1031.18		
1-Jun-98	1.84	1.84	1.83	1.62	1031.26	1031.21	1031.17	1031.38	
31-Oct-98	3.18	3.15	3.09	3.01	1029.92	1029.90	1029.91	1029.99	
13-Nov-98									
8-Jun-99									
19-Jun-99	1.43	1.38	1.36	1.25	1031.67	1031.67	1031.64	1031.75	
3-Jul-99									
29-Oct-99	3.68	3.62	3.60	3.48	1029.42	1029.43	1029.40	1029.52	
31-Oct-99									
31-May-00									
27-Jun-00	3.14	3.08	3.07	2.93	1029.96	1029.97	1029.93	1030.07	
25-Jul-00			2.84				1030.16		
21-Sep-00									
10-Oct-00	2.92	2.85	2.83	2.71	1030.18	1030.20	1030.17	1030.29	
6-Jun-01	3.13	3.04	3.06	2.94	1029.97	1030.01	1029.94	1030.06	
15-Jul-01									
5-Sep-01	2.77	2.68	2.71	2.57	1030.33	1030.37	1030.29	1030.43	
18-Jun-02	1.06	0.77			1032.04	1032.28			
5-Aug-02									
10-Sep-02	3.31	3.24	3.25	3.11	1029.80	1029.82	1029.75	1029.90	
4-Nov-02									
10-Nov-02									
11-Jun-03	3.24	3.15	3.21	3.06	1029.86	1029.90	1029.79	1029.94	
10-Sep-03	4.19	3.82	4.15	3.99	1028.91	1029.23	1028.85	1029.01	
10-May-04	3.18	3.10	3.14	3.01	1029.93	1029.94	1029.93	1030.03	2004 survey info used from here on
8-Jul-04	3.16	3.09	3.12	2.99	1029.95	1029.94	1029.96	1030.06	
19-Jul-04	3.56	3.09	3.12	2.99	1029.55	1029.94	1029.96	1030.06	
9-Sep-04	3.41	3.41	3.50	3.38	1029.70	1029.62	1029.57	1029.67	a, b and c - dirty; d - clear; a and d - sulphur smell
26-May-05	4.415	3.74		4.22	1028.70	1029.29		1028.83	coarse sand frozen
14-Sep-05	5.1	3.75	5.25	4.89	1028.01	1029.28	1027.82	1028.15	b- bottom blocked
9-Mar-06	5.50	blocked	5.33	5.31	1027.61		1027.74	1027.73	b- bottom blocked
27-Mar-06	5.19	blocked	5.12	4.99	1027.92		1027.96	1028.05	b- bottom blocked, ice crystals on probe
14-Jun-06	2.66	3.75	0.40	4.98		1028.41		1028.06	b-bottom. C-bottom fine sand
2-Oct-06	5.28	3.75	5.20	5.07	1027.83	1028.41	1027.87	1027.97	
22-May-07	3.15	3.75	1.52	3.11	1029.96	1028.41	1031.55	1029.93	a, b and d- frozen no beep
26-Sep-07	4.92	3.74	4.84	4.71	1028.20	1028.42	1028.23	1028.34	b: dry
20-May-08	3.46	3.37	3.39	2.60	1029.65	1028.79	1029.68	1030.44	
11-Jun-08	3.79	3.70	3.72	3.60	1029.32	1028.46	1029.35	1029.44	
24-Sep-08	4.23	3.75	4.15	4.01	1028.88	1028.41	1028.92	1029.03	b: dry
29-Jun-09	5.03	3.77	4.93	4.80	1028.08	1028.39	1028.14	1028.24	b: no beep
30-Sep-09	3.85	3.77	3.77	2.65	1029.26	1028.39	1029.30	1030.39	
15-May-10				3.66				1029.38	
2-Jun-10				4.08				1028.96	
10-Sep-10				5.29				1027.76	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-46: Intermediate Dam Piezometric Monitoring P01-03

P01-03		Location:	Intermediate Dam Toe	2004 Stick-Up (m):	0.61
		Coordinates:	8V580636 6914064	2004 Surface Elevation (m amsl):	1031.52
Surface Protector:	yes	Date Installed:	1996	Tip Elevation (m amsl):	1022.35
				Screened Interval (m bgs):	7.78 - 9.30

Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
11-Sep-01		1.58	1030.63		
10-Jun-02		2.39	1029.82		
23-Sep-02		2.06	1030.15	1047.19	
11-Jun-03		1.61	1030.60		
10-Sep-03		3.08	1029.14		
10-May-04		1.70	1030.43		2004 survey info used from here on
8-Jul-04		1.82	1030.31		
19-Jul-04		2.07	1030.06		
9-Sep-04		2.46	1029.68		Dirty, strong sulphur smell
26-May-05		3.29	1028.85		ph=6.7, temp=9.0C
14-Sep-05		3.96	1028.17		ph=6.8, temp=6.4C
9-Mar-06		4.38	1027.75		
27-Mar-06		4.07	1028.06		
14-Jun-06		4.06	1028.07		
2-Oct-06		4.14	1027.99		
22-May-07		2.45	1029.69	1046.78	No Beep, frozen
26-Sep-07		4.01	1028.12	1047.78	
20-May-08		1.85	1030.28		No Beep, frozen
11-Jun-08		2.71	1029.42		
24-Sep-08		3.12	1029.02		
29-Jun-09		3.92	1028.21	1046.48	
30-Sep-09		2.76	1029.37	1046.05	
15-May-10		2.77	1029.36	1046.27	
2-Jun-10		3.19	1028.94	1045.94	
10-Sep-10		4.40	1027.74	1043.73	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-47: Intermediate Dam
Piezometric Monitoring P01-04

P01-04		Location:	Intermediate Dam Toe	2004 Stick Up - A (m):	0.45
		Coordinates:	8V580489 6913888	2004 Stick Up -B (m):	0.45
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation (m amsl):	1032.32
		Screened Interval -A (m bgs):	31.7 - 33.22	Tip Elevation - A (m amsl):	998.17
		Screened Interval - B (m bgs):	51.0 - 52.5	Tip Elevation - B (m amsl):	978.89

Date	Water level from top of pipe (m)		Piezometric Elevation (m amsl)		Comments
	A	B	A	B	
11-Sep-01	0.78	0.43	1031.12	1031.46	
10-Jun-02	1.67	1.29	1030.23	1030.60	
23-Sep-02	1.39	1.00	1030.51	1030.89	
11-Jun-03	1.45	1.03	1030.45	1030.86	
10-Sep-03	2.35	1.90	1029.55	1029.99	
10-May-04	1.25	1.17	1031.52	1031.60	2004 survey info used from this point on
8-Jul-04	1.18	0.76	1031.59	1032.02	
19-Jul-04	1.42	0.99	1031.35	1031.78	
9-Sep-04	1.83	1.40	1030.95	1031.37	
26-May-05	0.53	0.60	1032.24	1032.17	bottom, no beep
14-Sep-05	2.69	3.22	1030.08	1029.56	
9-Mar-06	1.99	3.71	1030.78	1029.06	
27-Mar-06	1.99	3.42	1030.78	1029.35	bottom
14-Jun-06	1.99	2.60	1030.79	1030.18	bottom
2-Oct-06	2.85	3.40	1029.92	1029.37	
22-May-07	0.82	2.13	1031.95	1030.64	a-beep, b-frozen no beep
26-Sep-07	2.45	3.00	1030.33	1029.77	
20-May-08	0.69	1.56	1032.09	1031.21	b-no beep, frozen
11-Jun-08	1.39	1.93	1031.38	1030.84	
24-Sep-08	1.65	2.26	1031.13	1030.51	
29-Jun-09	2.44	3.04	1030.33	1029.73	
30-Sep-09	1.37	1.85	1031.41	1030.93	
15-May-10	1.60	2.04	1031.18	1030.73	
2-Jun-10	1.78	2.05	1030.99	1030.72	
10-Sep-10	3.50	2.95	1029.27	1029.82	

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-48: Intermediate Dam
Piezometric Monitoring BKS04-06

BKS04-06		Location:	Intermediate Dam South Abutment	2004 Stick-Up (m):	1.51
		Coordinates:	N 6913803 E 580454.9	Tip Elevation (m amsl):	1036.00
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation (m amsl):	1049.1
				Screened Interval (m bgs):	12.8 - 13.1

Date	Water level from top of pipe (m)		Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
26-May-05	13.01		1037.60		
14-Sep-05	14.15		1036.46		bottom - no beep
9-Mar-06	13.87		1036.74		
27-Mar-06	13.04		1037.57		no beep
14-Jun-06	14.14		1036.47		sticky at 11.0m
2-Oct-06	14.11		1036.50		
22-May-07	13.86		1036.75	1046.78	Bottom no beep
26-Sep-07	14.15		1036.46		no beep
20-May-08	1.82				no beep
11-Jun-08	1.79				no beep
24-Sep-08	14.16		1036.45		no beep
29-Jun-09	14.17		1036.44		beeped
30-Sep-09	14.27		1036.34		no beep
15-May-10	1.94			1046.27	Stuck in slush; No beep
2-Jun-10	14.17		1036.44	1045.94	
10-Sep-10	13.88			1043.73	Stuck in slush; No beep

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-49: Intermediate Dam Piezometric Monitoring BKS 04-07

BKS04-07		Location:	Intermediate Dam South Abutment	2004 Stick-Up (m):	1.51
		Coordinates:	N 6913747 E 580407.6	Tip Elevation (m amsl):	1037.29
Surface Protector:	yes	Date Installed:	1996	2004 Surface Elevation (m amsl):	1049.2
				Screened Interval (m bgs):	11.5 - 11.81

Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
26-May-05		14.155			Impossible reading
14-Sep-05		12.99	1037.72		
9-Mar-06		13.03	1037.68		
27-Mar-06		14.16	1036.55		no beep
14-Jun-06		13.02	1037.69		sticky at 12.7 m
2-Oct-06		13.01	1037.70		
22-May-07		2.03		1046.78	no beep, frozen
26-Sep-07		13.025	1037.69	1047.78	
20-May-08		1.99			no beep
11-Jun-08		2.89			no beep
24-Sep-08		13.405	1037.31		
29-Jun-09		3.58			blocked
30-Sep-09		13.053	1037.66	1046.05	
15-May-10		13.081	1037.63	1046.27	
2-Jun-10				1045.94	Hit something solid - either ground or ice.
10-Sep-10		12.785	1037.93	1043.73	Hit something solid - probably ground; No beep.

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review; 2010 Data compiled by DES

Table H-50: Secondary Tailings Dam
Piezometric Monitoring P81-06

P81-06		Location:	Secondary Dam	2004 Stick-Up (m):	0.13
		Coordinates:	8V582791 6912684	2004 Surface Elevation (m amsl):	1060.74
Surface Protector:	N/A	Date Installed:	1981	Tip Elevation (m amsl):	1054.71
				Screened Interval (m bgs):	Unknown

Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		6.81	1054.72		
1-Aug-05		6.16	1054.71		
14-Sep-05		6.81	1054.72		
2-Oct-06		6.805	1054.73		
6-Jun-07		6.79	1054.74		no beep, bottom
26-Sep-07		6.79	1054.74		no beep, bottom
25-Jun-08		6.79	1054.74		no beep, bottom
25-Sep-08		6.805	1054.73		
30-Sep-09		6.815	1054.72		
20-May-10		6.802	1054.73		All Measurements To Top Of Well - Plastic Casing Broken
5-Jun-10		6.812	1054.72		
10-Sep-10		6.800	1054.73		

Note: Water levels should be read from top of lower section of pipe (5" stick-up), not from the 26" broken piece on top.
Note: Data until end of 2009 as compiled in BGC, 2010 data compiled by DES

Table H-51: Secondary Tailings Dam
Piezometric Monitoring P81-07

P81-07		Location:	Secondary Dam	2004 Stick-Up (m):	0.77
		Coordinates:	8V583222 6912420	2004 Surface Elevation (m amsl):	1063.31
Surface Protector:	N/A	Date Installed:	1981	Tip Elevation (m amsl):	1057.17
				Screened Interval (m bgs):	Unknown

Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		6.95	1057.13		
1-Aug-05		6.91	1057.17		
14-Sep-05		6.91	1057.17		
2-Oct-06		6.91	1057.17		
6-Jun-07		6.91	1057.17		
26-Sep-07		6.9	1057.18		Beep
25-Jun-08		6.905	1057.18		
25-Sep-08		6.91	1057.17		
30-Sep-09		6.908	1057.17		
20-May-10		6.905	1057.18		
5-Jun-10		6.909	1057.17		
10-Sep-10		6.925	1057.16		

Note: Data until end of 2009 as compiled in BGC, 2010 data compiled by DES

Figure H-52: Secondary Tailings Dam
Piezometric Monitoring P81-08

P81-08		Location:	Secondary Dam	2004 Stick-Up (m):	0.74
		Coordinates:	8V583322 6912403	2004 Surface Elevation (m amsl):	1063.26
Surface Protector:	N/A	Date Installed:	1981	Tip Elevation (m amsl):	1055.80
				Screened Interval (m bgs):	Unknown
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		8.19	1055.81		
1-Aug-05		8.2	1055.80		Dry
14-Sep-05		8.19	1055.81		
2-Oct-06		8.195	1055.81		Dry
6-Jun-07		8.2	1055.80		no beep, bottom
26-Sep-07		8.2	1055.80		no beep, bottom
25-Jun-08		8.195	1055.81		no beep, bottom
25-Sep-08		8.195	1055.81		no beep, bottom
30-Sep-09		8.192	1055.81		no beep, bottom
20-May-10		8.193	1055.81		no beep, assumed dry
5-Jun-10		8.210	1055.79		
10-Sep-10		8.210	1055.79		

Note: Data until end of 2009 as compiled in BGC, 2010 data compiled by DES

Table H-53: Secondary Tailings Dam Piezometric Monitoring P03-01

P03-01		Location:	Secondary Impoundment Tailings	2004 Stick-Up (m):	0.53
		Coordinates:		2004 Surface Elevation (masl):	1060.581
Surface Protector:	?	Date Installed:	2003	Tip Elevation (m amsl):	?
				Screened Interval (m bgs):	?
Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		6.055	1055.06		
16-Sep-05		6.395	1054.72		
2-Oct-06		6.56	1054.55		
6-Jun-07		6.455	1054.66		Gartner Lee did the wells already
26-Sep-07		6.57	1054.54		Beep
25-Jun-08		6.215	1054.90		
25-Sep-08		6.285	1054.83		
30-Sep-09		5.858	1055.25		
20-May-10		1.808	1059.30		
5-Jun-10		6.414	1054.70		
10-Sep-10		6.112	1055.00		

Table H-54: Secondary Tailings Dam Piezometric Monitoring P03-02

P03-02		Location:	Secondary Impoundment Tailings	2004 Stick-Up (m):	0.69
		Coordinates:		2004 Surface Elevation (m amsl):	1059.9
Surface Protector:	?	Date Installed:	2003	Tip Elevation (m amsl):	?
				Screened Interval (m bgs):	?

Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		5.745	1054.85		
16-Sep-05		5.77	1054.82		
2-Oct-06		5.87	1054.72		
6-Jun-07		2.24	1058.35		No beep, bottom
26-Sep-07		5.955	1054.64		Beep
25-Jun-08		5.89	1054.70		
25-Sep-08		5.755	1054.84		
30-Sep-09		6.875	1053.72		
20-May-10		6.162	1054.43		
5-Jun-10		6.025	1054.57		
10-Sep-10		5.986	1054.60		

Figure H-55: Secondary Tailings Dam Piezometric Monitoring P03-03

P03-03		Location:	Secondary Impoundment Tailings	2004 Stick-Up (m):	0.82
		Coordinates:		2004 Surface Elevation (m amsl):	1060.67
Surface Protector:	?	Date Installed:	2003	Tip Elevation (m amsl):	?
				Screened Interval (m bgs):	?

Date		Water level from top of pipe (m)	Piezometric Elevation (m amsl)	Pond El. (m amsl)	Comments
20-Jun-05		4.01	1057.48		
16-Sep-05		4.125	1057.37		
2-Oct-06		4.2	1057.29		
6-Jun-07		1.22	1060.27		
26-Sep-07		1.22	1060.27		No Beep - Bottom
25-Jun-08		6.95	1054.54		
25-Sep-08		5.475	1056.02		
30-Sep-09		6.875	1054.62		No Beep - Bottom
20-May-10		6.901	1054.59		
5-Jun-10		6.910	1054.58		
10-Sep-10		6.855	1054.64		

Table H-56: North Fork Rock Drain
NFRD + X2 Staff Gauge Readings 2010

Site	X2SG		NFRC #23		
Date	Time	Reading (m)	Time	Reading (m)	Comments
13-Apr-10			3:12 PM	0.050	
29-Apr-10	11:29 AM	0.099	11:25 AM	0.157	
1-May-10	8:32 AM	0.145			
2-May-10	8:20 AM	0.095			
2-May-10	5:50 PM	0.535			
3-May-10	4:13 PM	0.080	4:14 PM	0.468	
4-May-10	9:06 AM	0.040	9:08 AM	0.990	
5-May-10	10:51 AM	0.025	10:49 AM	0.407	
6-May-10	8:50 AM	0.599	8:30 AM	0.421	
7-May-10	7:06 AM	0.458	7:04 AM	0.620	
9-May-10	8:55 AM	0.600	8:55 AM	0.450	
10-May-10	9:11 AM	0.050	9:15 AM	0.431	
11-May-10	8:55 AM	0.600	8:56 AM	0.450	
12-May-10	8:59 AM	0.079	8:57 AM	0.470	
13-May-10	7:56 AM	0.090	7:54 AM	0.490	
14-May-10	1:31 PM	0.058	1:35 PM	0.440	
15-May-10	3:08 PM	0.080	3:09 PM	0.470	
16-May-10	3:37 PM	0.080	3:36 PM	0.500	
17-May-10		0.112		0.520	
18-May-10	9:21 AM	0.130	9:20 AM	0.580	
19-May-10	9:05 AM	0.210	9:04 AM	0.700	
20-May-10	9:02 AM	0.310	9:00 AM	0.900	
20-May-10					
21-May-10	8:04 AM	0.260	8:07 AM	0.795	
22-May-10	11:00 AM	0.230	11:10 AM	0.750	
24-May-10	7:48 AM	0.276	7:49 AM	0.810	
25-May-10	9:30 AM	0.250	9:32 AM	0.397	
26-May-10	8:59 AM	0.287	9:00 AM	0.790	
27-May-10	9:41 AM	0.370	9:40 AM	0.798	
28-May-10	10:07 AM	0.255	10:09 AM	0.796	
29-May-10	8:06 AM	0.245	8:08 AM	0.790	
30-May-10	8:10 AM	0.225	8:12 AM	0.750	
31-May-10	9:46 AM	0.220	9:49 AM	0.724	
1-Jun-10	9:34 AM	0.199	9:36 AM	0.684	
2-Jun-10	9:45 AM	0.190	9:46 AM	0.692	
3-Jun-10	9:16 AM	0.180	9:17 AM	0.668	
4-Jun-10	12:35 PM	0.197	12:31 PM	0.694	
5-Jun-10	7:15 AM	0.178	7:17 AM	0.652	
6-Jun-10	7:12 AM	0.147	7:14 AM	0.598	
7-Jun-10	9:29 AM	0.140	9:30 AM	0.588	
8-Jun-10	9:19 AM	0.165	9:18 AM	0.630	
9-Jun-10	9:01 AM	0.210	9:00 AM	0.720	
10-Jun-10	8:53 AM	0.170	8:55 AM	0.652	
11-Jun-10	8:10 AM	0.195	8:10 AM	0.700	
12-Jun-10	8:05 AM	0.155	8:10 AM	0.640	
13-Jun-10	8:35 AM	0.245	8:36 AM	0.600	
14-Jun-10	10:31 AM	0.135	10:32 AM	0.568	
16-Jun-10	9:26 AM	0.130	9:27 AM	0.548	
17-Jun-10	8:49 AM	0.120	8:51 AM	0.555	

Table H-56: North Fork Rock Drain
NFRD + X2 Staff Gauge Readings 2010

Site	X2SG		NFRC #23		
Date	Time	Reading (m)	Time	Reading (m)	Comments
18-Jun-10	8:19 AM	0.122	8:21 AM	0.553	
19-Jun-10	8:26 AM	0.125	8:29 AM	0.575	
20-Jun-10	8:09 AM	0.133	8:10 AM	0.564	
21-Jun-10	8:28 AM	0.098	8:29 AM	0.545	
22-Jun-10	10:50 AM	0.170	10:52 AM	0.622	
23-Jun-10	9:45 AM	0.140	9:47 AM	0.587	
24-Jun-10	9:29 AM	0.150	9:30 AM	0.598	
25-Jun-10	8:43 AM	0.139	8:44 AM	0.575	
26-Jun-10	9:50 AM	0.115	9.52 AM	0.560	
27-Jun-10	8:50 AM	0.102	8:52 AM	0.533	
28-Jun-10	8:45 AM	0.105	8:52 AM	0.538	
29-Jun-10	10:09 AM	0.101	10:10 AM	0.538	
30-Jun-10	1:42 PM	0.270	1:40 PM	0.665	
1-Jul-10	8:25 AM	0.150	8:26 AM	0.617	
2-Jul-10	8:46 AM	0.145	8:48 AM	0.610	
4-Jul-10	8:49 AM	0.290	8:51 AM	0.875	
5-Jul-10	10:47 AM	0.205	10:48 AM	0.710	
6-Jul-10	10:17 AM	0.172	10:19 AM	0.634	
7-Jul-10	9:40 AM	0.144	9:42 AM	0.609	
8-Jul-10	9:35 AM	0.138	9:36 AM	0.585	
9-Jul-10	8:00 AM	0.128	8:02 AM	0.574	
10-Jul-10	9:22 AM	0.111	9:20 AM	0.526	
11-Jul-10	8:11 AM	0.117	8:13 AM	0.564	
12-Jul-10	10:27 AM	0.102	10:29 AM	0.555	
13-Jul-10	9:10 AM	0.090	9:12 AM	0.530	
14-Jul-10	9:00 AM	0.090	9:01 AM	0.515	
15-Jul-10	8:56 AM	0.188	8:58 AM	0.502	
16-Jul-10	8:00 AM	0.090	8:02 AM	0.510	
17-Jul-10	7:52 AM	0.090	7:53 AM	0.518	
18-Jul-10	7:36 AM	0.085	7:37 AM	0.495	
19-Jul-10	8:54 AM	0.065	8:55 AM	0.487	
20-Jul-10	8:38 AM	0.058	8:37 AM	0.479	
21-Jul-10	8:53 AM	0.085	8:54 AM	0.509	
22-Jul-10	9:24 AM	0.111	9:25 AM	0.525	
23-Jul-10	8:28 AM	0.082	8:26 AM	0.490	X2 Datalogger downloaded 14:45
24-Jul-10	8:38 AM	0.079	8:40 AM	0.474	
25-Jul-10	8:20 AM	0.065	8:18 AM	0.466	
26-Jul-10	9:17 AM	0.062	9:18 AM	0.455	
27-Jul-10	9:32 AM	0.055	9:33 AM	0.448	
28-Jul-10	8:55 AM	0.065	8:56 AM	0.437	
29-Jul-10	8:49 AM	0.048	8:50 AM	0.428	
30-Jul-10	8:33 AM	0.045	8:34 AM	0.423	
31-Jul-10	8:28 AM	0.038	8:29 AM	0.422	
1-Aug-10	8:24 AM	0.035	8:26 AM	0.435	
2-Aug-10	9:07 AM	0.025	9:08 AM	0.416	
3-Aug-10	8:44 AM	0.025	8:45 AM	0.409	
4-Aug-10	8:52 AM	0.025	8:53 AM	0.401	
5-Aug-10	8:48 AM	0.025	8:51 AM	0.398	
6-Aug-10	8:21 AM	0.025	8:22 AM	0.396	

Table H-56: North Fork Rock Drain
NFRD + X2 Staff Gauge Readings 2010

Site	X2SG		NFRC #23		
Date	Time	Reading (m)	Time	Reading (m)	Comments
7-Aug-10	/	/	8:51 AM	0.397	*X2SG below water level
8-Aug-10	8:23 AM	0.039	8:22 AM	0.419	Rained lots yesterday and today
9-Aug-10	8:37 AM	0.094	8:35 AM	0.490	
10-Aug-10	9:31 AM	0.094	9:32 AM	0.410	
11-Aug-10	8:49 AM	0.046	8:48 AM	0.426	
12-Aug-10	8:41 AM	0.040	8:40 AM	0.428	
13-Aug-10	10:07 AM	0.045	10:09 AM	0.408	
14-Aug-10	7:22 AM	0.025	7:24 AM	0.400	
15-Aug-10	9:16 AM	0.025	9:20 AM	0.397	
16-Aug-10	8:55 AM	0.025	8:57 AM	0.389	
17-Aug-10	9:31 AM	0.001	9:30 AM	0.381	
18-Aug-10	9:12 AM	0.250	9:10 AM	0.410	
19-Aug-10	10:21 AM	0.045	10:20 AM	0.428	
20-Aug-10	8:23 AM	0.090	8:25 AM	0.549	
21-Aug-10	12:58 PM	0.065	12:56 PM	0.465	
22-Aug-10	7:53 AM	0.055	7:55 AM	0.445	
23-Aug-10	8:55 AM	0.065	9:00 AM	0.458	
24-Aug-10	10:50 AM	0.062	10:51 AM	0.472	
25-Aug-10	8:36 AM	0.600	8:38 AM	0.459	
26-Aug-10	8:44 AM	0.049	8:45 AM	0.451	
27-Aug-10	8:21 AM	0.048	8:22 AM	0.448	
28-Aug-10	8:40 AM	0.050	8:41 AM	0.450	
29-Aug-10	8:20 AM	0.050	8:21 AM	0.440	
30-Aug-10	9:07 AM	0.030	9:08 AM	0.435	
31-Aug-10	10:56 AM	0.035	10:57 AM	0.428	
1-Sep-10	8:29 AM	0.024	8:31 AM	0.430	X2 Datalogger downloaded 11:16
2-Sep-10	10:04 AM	0.050	10:05 AM	0.440	
3-Sep-10	7:16 AM	0.080	7:15 AM	0.485	
4-Sep-10	7:40 AM	0.085	7:40 AM	0.498	
5-Sep-10	9:00 AM	0.070	9:00 AM	0.470	
6-Sep-10	9:09 AM	0.065	9:09 AM	0.450	
7-Sep-10	8:52 AM	0.060	8:53 AM	0.445	
8-Sep-10	8:38 AM	0.043	8:43 AM	0.489	
9-Sep-10	8:35 AM	0.050	8:36 AM	0.440	
13-Sep-10	8:46 AM	0.048	8:47 AM	0.440	
14-Sep-10	8:32 AM	0.048	8:33 AM	0.438	
15-Sep-10	9:56 AM	0.046	9:58 AM	0.443	
16-Sep-10	9:05 AM	0.045	9:06 AM	0.429	
20-Sep-10	9:36 AM	0.022	9:37 AM	0.360	
21-Sep-10	9:38 AM	0.022	9:40 AM	0.380	
22-Sep-10	9:10 AM	0.021	9:15 AM	0.419	
23-Sep-10	11:33 AM	0.035	11:35 AM	0.413	
27-Sep-10	10:21 AM	0.390	10:19 AM	0.429	
28-Sep-10	9:28 AM	0.042	9:26 AM	0.429	
29-Sep-10	9:43 AM	0.042	9:41 AM	0.420	
30-Sep-10	9:52 AM	0.041	9:53 AM	0.431	
4-Oct-10	10:30 AM	0.038	10:32 AM	0.428	
5-Oct-10	1:49 PM	0.025	1:50 PM	0.392	
6-Oct-10	2:29 PM	0.035	2:30 PM	0.409	

Table H-56: North Fork Rock Drain
NFRD + X2 Staff Gauge Readings 2010

Site	X2SG		NFRC #23		
Date	Time	Reading (m)	Time	Reading (m)	Comments
7-Oct-10	1:25 PM	below gauge	1:28 PM	0.330	
12-Oct-10	1:11 PM	0.110	1:14 PM	0.488	
13-Oct-10	4:53 PM	0.038	4:55 PM	0.440	
14-Oct-10	4:11 PM	0.018	4:12 PM	0.395	
18-Oct-10	1:10 PM	Frozen	1:11 PM	0.390	
19-Oct-10	3:57 PM	0.012	3:59 PM	0.379	
20-Oct-10	10:17 AM	0.049	10:18 AM	0.396	
21-Oct-10	1:20 PM	0.099	1:22 PM	0.510	
25-Oct-10	10:56 AM	Frozen	10:55 AM	Frozen	
26-Oct-10	3:30 PM	Frozen	3:32 PM	Frozen	
27-Oct-10	1:39 PM	Frozen	10:38 AM	Frozen	
28-Oct-10	12:20 PM	Frozen	12:22 PM	Frozen	

Table H-57: North Fork Rock Drain
Staff Gauge NF-1 Readings 2010

Date	Elevation (masl)	Freeboard* (masl)	Comments
11-Apr-10	1091.853	2.917	Elevation shot over 200m
3-May-10	1091.871	2.899	
10-May-10	1089.898	4.872	
17-May-10	1089.811	4.959	
24-May-10	1091.192	3.578	
31-May-10	1090.511	4.259	
7-Jun-10	1090.086	4.684	
14-Jun-10	1089.886	4.884	
21-Jun-10	1089.746	5.024	
28-Jun-10	1089.781	4.989	
5-Jul-10	1090.222	4.548	
12-Jul-10	1089.771	4.999	
19-Jul-10	1089.368	5.402	
26-Jul-10	1089.326	5.444	
2-Aug-10	1089.103	5.667	
16-Aug-10	1088.968	5.802	
6-Sep-10	1089.295	5.475	
20-Sep-10	1089.107	5.663	

*Freeboard calculated based on maximum elevation of 1094.77 m asl

Table H-58: North Fork Rock Drain
Staff Gauge NF-2 Readings 2010

Date	Elevation (masl)	Freeboard* (masl)	Comments
10-May-10	1086.294	0.250	Avg Elevation: 1086.20 m asl
10-May-10	1086.265	0.279	
10-May-10	1086.434	0.110	
10-May-10	1085.792	0.752	
17-May-10	1086.207	0.337	Avg Elevation: 1086.08
17-May-10	1086.215	0.329	
17-May-10	1086.145	0.399	
17-May-10	1086.164	0.380	
17-May-10	1085.651	0.893	
24-May-10	1085.857	0.687	Avg Elevation: 1086.41
24-May-10	1086.659	-0.115	
24-May-10	1086.561	-0.017	
24-May-10	1086.570	-0.026	
31-May-10	1086.430	0.114	Avg Elevation: 1086.40
31-May-10	1086.444	0.100	
31-May-10	1086.384	0.160	
31-May-10	1086.340	0.204	
7-Jun-10	1086.602	-0.058	Avg Elevation: 1086.34
7-Jun-10	1086.270	0.274	
7-Jun-10	1086.280	0.264	
7-Jun-10	1086.282	0.262	
7-Jun-10	1086.279	0.265	
14-Jun-10	1086.082	0.462	Avg Elevation: 1086.31
14-Jun-10	1086.460	0.084	
14-Jun-10	1086.308	0.236	
14-Jun-10	1086.328	0.216	
14-Jun-10	1086.370	0.174	
21-Jun-10	1086.220	0.324	Avg Elevation: 1086.28
21-Jun-10	1086.451	0.093	
21-Jun-10	1086.297	0.247	
21-Jun-10	1086.335	0.209	
21-Jun-10	1086.098	0.446	
28-Jun-10	1085.154	1.390	Avg Elevation: 1085.55
28-Jun-10	1085.019	1.525	
28-Jun-10	1085.223	1.321	
28-Jun-10	1085.438	1.106	
28-Jun-10	1086.262	0.282	
28-Jun-10	1086.214	0.330	
5-Jul-10	1086.440	0.104	Avg Elevation: 1086.57
5-Jul-10	1086.647	-0.103	
5-Jul-10	1086.592	-0.048	
5-Jul-10	1086.598	-0.054	
5-Jul-10	1086.594	-0.050	
12-Jul-10	1085.048	1.496	Avg Elevation: 1085.52
12-Jul-10	1085.167	1.377	
12-Jul-10	1085.656	0.888	

Table H-58: North Fork Rock Drain
Staff Gauge NF-2 Readings 2010

Date	Elevation (masl)	Freeboard* (masl)	Comments
12-Jul-10	1085.450	1.094	
12-Jul-10	1086.277	0.267	
19-Jul-10	1085.919	0.625	Avg Elevation: 1085.73
19-Jul-10	1085.457	1.087	
19-Jul-10	1085.321	1.223	
19-Jul-10	1085.644	0.900	
19-Jul-10	1086.132	0.412	
19-Jul-10	1085.924	0.620	
26-Jul-10	1086.234	0.310	Avg Elevation: 1086.13
26-Jul-10	1086.113	0.431	
26-Jul-10	1086.154	0.390	
26-Jul-10	1085.968	0.576	
26-Jul-10	1086.193	0.351	
2-Aug-10	1085.751	0.793	Avg Elevation: 1086.07
2-Aug-10	1086.143	0.401	
2-Aug-10	1086.192	0.352	
2-Aug-10	1085.989	0.555	
2-Aug-10	1086.264	0.280	
16-Aug-10	1085.593	0.951	Avg Elevation: 1086.04
16-Aug-10	1086.202	0.342	
16-Aug-10	1086.098	0.446	
16-Aug-10	1086.166	0.378	
16-Aug-10	1086.125	0.419	
6-Sep-10	1085.972	0.572	Avg Elevation: 1086.18
6-Sep-10	1086.334	0.210	
6-Sep-10	1086.185	0.359	
6-Sep-10	1086.209	0.335	
20-Sep-10	1085.764	0.780	Avg Elevation: 1086.12
20-Sep-10	1086.263	0.281	
20-Sep-10	1086.175	0.369	
20-Sep-10	1086.264	0.280	

* Max elevation measured at several locations across rock drain on date - average usec

**Freeboard calculated based on maximum elevation of 1086.544 m asl

Table H-59: Faro Creek Diversion Channel Staff Gauge FCD-1

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
24-May-07	19:50:00	0.480	1022	newly installed
25-May-07	09:40:00	0.412	984.0	
13-Jun-07	15:20:00	0.300	662	
26-Jun-07	15:10:00	0.215	395	
27-Jun-07	09:30:00	0.218	302.5	tail end of thundershower
11-Jul-07	13:30:00	0.175	179	
18-Jul-07	14:00:00	0.200	236	
18-Jul-07	12:40:00	0.200	249.0	
24-Jul-07		0.153	107.2	
1-Aug-07	11:50:00	0.170	198	
8-Aug-07	15:20:00	0.172	151.9	LES survey, conclude gauge zero is 97.677 (average of 4 trials)
4-Sep-07	15:40:00		155.0	
6-Sep-07		0.220	277.0	
26-Jun-08	08:00:00	0.240	342	
4-Jul-08	10:40:00	0.220	289	
7-Jul-08	11:40:00	0.250	371	
14-Jul-08	11:00:00	0.265	415	
15-Jul-08	10:40:00	0.630	2213	Heavy Rain - Last 24hrs
6-Aug-08	11:00:00	0.185	207	
25-Aug-08	12:55:00	0.440	1105	
13-Sep-08	08:15:00	0.250	371	
5-May-09		0.400	919	
14-May-09	8:20 AM	0.195	229	
22-May-09	6:35 AM	0.300	527	
24-May-09	7:00 AM	0.450	1155	
29-May-09	8:40 AM	0.380	833	
31-May-09	7:00 AM	0.350	710	
4-Jun-09	1:45 PM	0.370	791	
5-Jun-09	6:30 AM	0.410	964	
6-Jun-09	7:55 AM	0.390	876	
9-Jun-09	6:48 AM	0.310	562	
10-Jun-09	6:48 AM	0.310	562	
10-Jun-09	2:30 PM	0.250	371	
13-Jun-09	8:55 AM	0.250	371	
17-Jun-09	5:15 PM	0.255	385	
25-Jun-09	3:10 PM	0.200	241	
2-Jul-09	12:53 PM	0.185	207	
7-Jul-09	5:40 PM	0.155	147	
15-Jul-09	10:30 AM	0.145	129	
30-Jul-09	3:05 PM	0.110	76	
2-Aug-09	8:05 AM	0.115	83	
7-Aug-09	9:00 AM	0.110	76	
17-Aug-09	8:20 AM	0.135	113	
21-Aug-09	10:25 AM	0.140	121	

Table H-59: Faro Creek Diversion Channel Staff Gauge FCD-1

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
29-Aug-09	12:32 PM	0.150	138	
4-Sep-09	9:57 AM	0.155	147	
11-Sep-09	8:05 AM	0.150	138	
19-Sep-09	4:24 PM	0.165	166	
20-Sep-09	12:14 PM	0.170	176	
21-Sep-09	4:22 PM	0.190	218	
4-Oct-09	5:35 PM	0.175	186	
30-Apr-10				Frozen
3-May-10	12:08 PM			Frozen
4-May-10	8:17 AM			Frozen
5-May-10	9:37 AM			Frozen
17-May-10	11:52 AM	0.245	356	
2-Jun-10	11:50 AM	0.270	430	
14-Jun-10	12:06 PM	0.199	238	Instream flow Measurement gave 216.39
3-Jul-10	3:10 PM	0.225	302	
12-Jul-10	1:15 PM	0.165	166	Instream flow Measurement gave 62.85
3-Aug-10	3:15 PM	0.113	80	Instream flow Measurement gave 79.848
15-Aug-10	2:24 PM	0.105	69	Instream flow Measurement gave 105.67
2-Sep-10	5:10 PM	0.139	119	Instream flow Measurement gave 164.575
23-Sep-10	5:32 PM	0.110	76	
4-Oct-10	1:19 PM	0.113	80	Instream flow Measurement gave 80.695
18-Oct-10	4:46 PM			Iced

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-60: Faro Creek Diversion Channel Staff Gauge FCD-2

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
24-May-07	18:30:00	0.460	1133	lots of shore ice rapidly melting: gain is invalid
25-May-07	11:40:00	0.475	1069	newly installed gauge. Gain is invlaid due to heavy melting on banks
13-Jun-07	16:05:00	0.340	525	Avil Lab checked survey = OK
26-Jun-07	15:30:00	0.255	326	
27-Jun-07	12:30:00	0.247	308.3	tail end of thundershower, invalid
11-Jul-07	14:30:00	0.195	130	
18-Jul-07	14:20:00	0.210	158	
18-Jul-07	11:30:00	0.210	165.0	Good check Anvil Lab vs LES flows
24-Jul-07	17:00:00	0.185	87.9	rainfall affected
1-Aug-07	12:25:00	0.195	133	
8-Aug-07	14:40:00	0.200	106.3	
4-Sep-07	15:10:00	0.202	112.1	
6-Sep-07	PM	0.241	235.0	affected by construction
7-Sep-07				
26-Jun-08	08:00:00	0.325	470	
4-Jul-08	10:40:00	0.280	320	
7-Jul-08	11:40:00	0.355	591	
14-Jul-08	11:00:00	0.390	753	
15-Jul-08	10:40:00	0.880	6178	Heavy Rain - Last 24hrs
6-Aug-08	11:00:00	0.195	126	
25-Aug-08	12:55:00	0.590	2197	
13-Sep-08	08:15:00	0.395	779	
14-Sep-08				
5-May-09		0.690	3294	
14-May-09	8:20 AM	0.380	705	
22-May-09	6:35 AM	0.570	2010	
24-May-09	7:00 AM	0.730	3811	
29-May-09	8:40 AM	0.590	2197	
31-May-09	7:00 AM	0.650	2823	
4-Jun-09	1:45 PM	0.650	2823	
5-Jun-09	6:30 AM	0.625	2550	
6-Jun-09	7:55 AM	0.570	2010	
9-Jun-09	6:48 AM	0.470	1221	
10-Jun-09	6:48 AM	0.470	1221	
10-Jun-09	2:30 PM	0.390	753	
13-Jun-09	8:55 AM	0.378	695	
17-Jun-09	5:15 PM	0.400	804	
25-Jun-09	3:10 PM	0.280	320	
2-Jul-09	12:53 PM	0.220	171	
7-Jul-09	5:40 PM	0.115	32	
15-Jul-09	10:30 AM	0.110	29	
30-Jul-09	3:05 PM	0.092	18	
2-Aug-09	8:05 AM	0.085	15	

Table H-60: Faro Creek Diversion Channel Staff Gauge FCD-2

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
7-Aug-09	9:00 AM	0.090	17	
17-Aug-09	8:20 AM	0.100	22	
21-Aug-09	10:25 AM	0.110	29	
29-Aug-09	12:32 PM	0.115	32	
4-Sep-09	9:57 AM	0.120	36	
11-Sep-09	8:05 AM	0.110	29	
19-Sep-09	4:24 PM	0.120	36	
20-Sep-09	12:14 PM	0.125	40	
21-Sep-09	4:22 PM	0.140	53	
4-Oct-09	5:35 PM	0.125	40	
30-Apr-10				Frozen
3-May-10	12:07 PM			Frozen
4-May-10	8:15 AM			Frozen
5-May-10	9:36 AM			Frozen
17-May-10	11:55 AM	0.219	169	
2-Jun-10	11:52 AM	0.260	264	
14-Jun-10	12:04 PM	0.143	56	Instream flow Measurement gave 181.67
3-Jul-10	3:08 PM	0.165	81	
12-Jul-10	1:45 PM	0.100	22	Instream flow Measurement gave106.33
3-Aug-10	3:25 PM	0.071	9	Instream flow Measurement gave 68.407
15-Aug-10	2:45 PM	0.064	7	Instream flow Measurement gave 70.118
2-Sep-10	5:06 PM	0.088	16	Instream flow Measurement gave 80.135
23-Sep-10	5:28 PM			Iced
4-Oct-10	1:39 PM			Iced
18-Oct-10	4:43 PM			Iced

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-61: Faro Creek Diversion Channel
Staff Gauge FCD-3

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
26-Jun-08	08:00:00	0.250		Previously called FD-1A
4-Jul-08	10:40:00	0.230		
7-Jul-08	11:40:00	0.270		
14-Jul-08	11:00:00	0.285		
15-Jul-08	10:40:00	0.640		Heavy Rain - Last 24hrs
6-Aug-08	11:00:00	0.190		
25-Aug-08	12:55:00	0.400		
13-Sep-08	08:15:00	0.290		
5-May-09		0.980		
14-May-09	8:20 AM	0.300		
22-May-09	6:35 AM	0.350		
24-May-09	7:00 AM	0.480		
29-May-09	8:40 AM	0.400		
31-May-09	7:00 AM	0.390		
4-Jun-09	1:45 PM	0.390		
5-Jun-09	6:30 AM	0.400		
6-Jun-09	7:55 AM	0.390		
9-Jun-09	6:48 AM	0.300		
10-Jun-09	6:48 AM	0.300		
10-Jun-09	2:30 PM	0.270		
13-Jun-09	8:55 AM	0.265		
17-Jun-09	5:15 PM	0.275		
25-Jun-09	3:10 PM	0.210		
2-Jul-09	12:53 PM	0.185		
7-Jul-09	5:40 PM	0.150		
15-Jul-09	10:30 AM	0.141		
30-Jul-09	3:05 PM	0.105		
2-Aug-09	8:05 AM	-		
7-Aug-09	9:00 AM	0.100		
17-Aug-09	8:20 AM	0.125		
21-Aug-09	10:25 AM	0.135		
29-Aug-09	12:32 PM	0.160		
4-Sep-09	9:57 AM	0.160		
11-Sep-09	8:05 AM	0.155		
19-Sep-09	4:24 PM	0.150		
20-Sep-09	12:14 PM	0.170		
21-Sep-09	4:22 PM	0.190		
4-Oct-09	5:35 PM	0.175		
9-Oct-09	11:03 AM			Frozen
30-Apr-10	10:00 AM	0.370		
3-May-10	12:06 PM			Frozen
4-May-10	8:14 AM	0.197		
5-May-10	9:35 AM			Frozen
17-May-10	11:57 AM			Frozen

Table H-61: Faro Creek Diversion Channel Staff Gauge FCD-3

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
2-Jun-10	11:54 AM	0.210		
14-Jun-10	12:02 PM	0.196	129.01	
3-Jul-10	3:07 PM	0.220		
12-Jul-10	2:32 PM	0.150	106.97	Discharge method: In stream flow rate
3-Aug-10	3:40 PM	0.106	47.08	
15-Aug-10	2:56 PM	0.100	59.44	Discharge method: In stream flow rate
2-Sep-10	4:48 PM	0.132	76.98	Discharge method: In stream flow rate
23-Sep-10	5:08 PM			Iced
4-Oct-10	1:38 PM			Iced
18-Oct-10	4:40 PM			Iced

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-62: Faro Creek Diversion Channel
Staff Gauge FCD-4

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
26-Jun-08	08:00:00	0.250		Previously called FD-1B
4-Jul-08	10:40:00	0.270		
7-Jul-08	11:40:00	0.270		
14-Jul-08	11:00:00	0.290		
15-Jul-08	10:40:00	0.540		Heavy Rain - Last 24hrs
6-Aug-08	11:00:00	0.195		
25-Aug-08	12:55:00	0.405		
13-Sep-08	08:15:00	0.285		
5-May-09		0.820		
14-May-09	8:20 AM			
22-May-09	6:35 AM	0.320		
24-May-09	7:00 AM	0.450		
29-May-09	8:40 AM	0.400		
31-May-09	7:00 AM	0.360		
4-Jun-09	1:45 PM	0.385		
5-Jun-09	6:30 AM	0.420		
6-Jun-09	7:55 AM	0.400		
9-Jun-09	6:48 AM	0.300		
10-Jun-09	6:48 AM	0.300		
10-Jun-09	2:30 PM	0.260		
13-Jun-09	8:55 AM	0.250		
17-Jun-09	5:15 PM	0.270		
25-Jun-09	3:10 PM	0.240		
2-Jul-09	12:53 PM	0.215		
7-Jul-09	5:40 PM	0.190		
15-Jul-09	10:30 AM	<0.15		
30-Jul-09	3:05 PM	>0.15		
2-Aug-09	8:05 AM	-		
7-Aug-09	9:00 AM	-		
17-Aug-09	8:20 AM	0.160		
21-Aug-09	10:25 AM	0.170		
29-Aug-09	12:32 PM	0.195		
4-Sep-09	9:57 AM	0.190		
11-Sep-09	8:05 AM	0.180		
19-Sep-09	4:24 PM	0.199		
20-Sep-09	12:14 PM	0.200		
21-Sep-09	4:22 PM	0.220		
4-Oct-09	5:35 PM	0.205		
9-Oct-09	11:03 AM			Frozen
30-Apr-10	10:05 AM	0.410		
3-May-10	12:05 PM	0.239		
4-May-10	8:12 AM	0.238		
5-May-10	9:33 AM			Frozen
17-May-10	12:00 PM	0.200		

Table H-62: Faro Creek Diversion Channel Staff Gauge FCD-4

Date	Time (PST)	Reading (m)	Discharge (L/s)	Comment
2-Jun-10	11:56 AM	0.240		
14-Jun-10	12:00 PM	0.245	150.37	
3-Jul-10	3:05 PM	0.250		
12-Jul-10	2:50 PM	0.200	150.61	
3-Aug-10	3:55 PM	0.158	48.94	
15-Aug-10	3:10 PM	0.154	47.06	
2-Sep-10	4:36 PM	0.175	48.20	
23-Sep-10	4:52 PM			Iced
4-Oct-10	1:19 PM			Iced
18-Oct-10	4:37 PM			Iced

Note: Data until end of 2009 as compiled in BGC 2009 Annual Geotechnical Evaluation and Instrumentation Review;
2010 Data compiled by DES

Table H-63: Grum Pit - Grum Pins Slope Stability
Grum Pins - Set South of Transformer Station 2010

Table H-63a: Distance Between Pins

Date	GP-S1 (m)	GP-S2 (m)	GP-S3 (m)	GP-S4 (m)	Comments
24-Jun-10	4	5.562	7.814		Fourth pin to be installed
29-Jul-10	4	5.562	7.814	15.63	Fourth pin installed
4-Aug-10	4	5.65	7.810	15.619	
12-Aug-10	4	5.565	7.812	15.635	
19-Aug-10	4	5.565	7.810	15.626	
26-Aug-10	4	5.564	7.810	15.631	*1st measurements using steel tape
2-Sep-10	4	5.56	7.812	15.632	
9-Sep-10	4	5.563	7.807	15.623	
16-Sep-10	4	5.564	7.811	15.625	
23-Sep-10	4	5.558	7.808	15.623	
30-Sep-10	4	5.56	7.805	15.622	
7-Oct-10	4	5.562	7.806	15.632	
10-Nov-10	4	5.561	7.809	15.623	Start of monthly monitoring frequency
7-Dec-10	4	5.561	7.811	15.627	

Table H-63b: Velocity of Pins Movement

Date	GP-S1 (m)	GP-S2 (m)	GP-S3 (m)	GP-S4 (m)
24-Jun-10	0	0	0	0
29-Jul-10	0.114	0.273	0.496	0.943
4-Aug-10	0.667	1.608	2.910	5.513
12-Aug-10	0.500	1.196	2.172	4.127
19-Aug-10	0.571	1.366	2.482	4.714
26-Aug-10	0.571	1.366	2.482	4.715
2-Sep-10	0.571	1.366	2.482	4.715
9-Sep-10	0.571	1.366	2.481	4.713
16-Sep-10	0.571	1.366	2.482	4.714
23-Sep-10	0.571	1.365	2.481	4.713
30-Sep-10	0.571	1.366	2.481	4.712
7-Oct-10	0.571	1.366	2.481	4.714
10-Nov-10	0.118	0.281	0.511	0.970
7-Dec-10	0.148	0.354	0.643	1.222

Table H-64: Grum Pit Slope Stability
Grum Pins-Set North of Transformer Station - 2010

Table H-64a: Distance Between Pins

Date	GP-N1 (m)	GP-N2 (m)	GP-N3 (m)	GP-N4 (m)	GP-N5 (m)	GP-N6 (m)	Comments
24-Jun-10	4	5.382	5.226	6.126	6.264	5.74	
29-Jul-10	4	5.381	5.329	6.124	6.270	5.743	
4-Aug-10	4	5.381	5.228	6.123	6.217	5.74	
12-Aug-10	4	5.385	5.230	6.123	6.271	5.748	
19-Aug-10	4	5.383	5.230	6.126	6.270	5.74	
26-Aug-10	4	5.381	5.230	6.126	6.270	5.742	*1st measurements using steel tape
2-Sep-10	4	5.383	5.230	6.127	6.273	5.734	
9-Sep-10	4	5.380	5.250	6.124	6.265	5.737	
16-Sep-10	4	5.383	5.229	6.127	6.270	5.739	
23-Sep-10	4	5.378	5.231	6.122	6.266	5.735	
30-Sep-10	4	5.379	5.225	6.122	6.265	5.732	
7-Oct-10	4	5.380	5.229	6.125	6.267	5.736	
10-Nov-10	4	5.390	5.230	6.123	6.268	5.738	Start of monthly monitoring frequency
7-Dec-10	4	5.388	5.324	6.12	6.272	5.739	

Table H-64b: Velocity of Pins Movement

Date	GP-N1	GP-N2	GP-N3	GP-N4	GP-N5	GP-N6
24-Jun-10	0	0	0	0	0	0
29-Jul-10	0.114	0.268	0.420	0.595	0.774	0.938
4-Aug-10	0.667	1.564	2.435	3.455	4.492	5.448
12-Aug-10	0.500	1.173	1.827	2.592	3.376	4.095
19-Aug-10	0.571	1.340	2.088	2.963	3.858	4.678
26-Aug-10	0.571	1.340	2.087	2.962	3.858	4.678
2-Sep-10	0.571	1.340	2.088	2.963	3.859	4.678
9-Sep-10	0.571	1.340	2.090	2.965	3.860	4.679
16-Sep-10	0.571	1.340	2.087	2.963	3.858	4.678
23-Sep-10	0.571	1.340	2.087	2.962	3.857	4.676
30-Sep-10	0.571	1.340	2.086	2.961	3.856	4.675
7-Oct-10	0.571	1.340	2.087	2.962	3.857	4.677
10-Nov-10	0.118	0.276	0.430	0.610	0.794	0.963
7-Dec-10	0.148	0.348	0.545	0.772	1.004	1.216

Denison Environmental Services

Table H-65: Little Creek Dam
Thermistor BH94 LCD-4

BH94 LCD-4		Location:	Little Creek Dam Crest			Elevation (m amsl):	1114.5m	Coordinates:	3015N	13465E
		Thermistor String #26	Date Installed:	8-Jun-94	Thermistor Type:	SINCA RTD's	Ice-Bath Calibration:	applied	Surface Protector:	yes
Depth Correction:	0.0									

Depth on String (m)	Actual Depth (m)	Resistivity (kOhms) 15-Jun-94	Resistivity (kOhms) 16-Sep-94	Resistivity (kOhms) 22-Sep-95	Resistivity (kOhms) 25-Sep-96	Resistivity (kOhms) 8-May-97	Resistivity (kOhms) 17-Oct-97	Resistivity (kOhms) 28-May-98	Resistivity (kOhms) 17-Sep-98	Resistivity (kOhms) 4-Jun-99	Resistivity (kOhms) 12-Sep-99	Resistivity (kOhms) 6-Jun-00	Resistivity (kOhms) 8-Sep-00	Resistivity (kOhms) 9-May-02	Resistivity (kOhms) 4-Sep-02	Resistivity (kOhms) 10-May-03	Resistivity (kOhms) 9-Sep-03	Resistivity (kOhms) 8-Sep-04	Resistivity (kOhms) 19-May-05	Resistivity (kOhms) 9-Sep-05	Resistivity (kOhms) 16-May-06	Resistivity (kOhms) 11-Sep-06	Resistivity (kOhms) 10-May-07	Resistivity (kOhms) 27-Aug-07	Resistivity (kOhms) Mar. 27/08 (1)	Resistivity (kOhms) Mar. 27/08 (2)
1.0	-1.0	1893	1908	1909	1896	1847	1872	1872	1909	1867	1914	1873	1900	1842	1912	1851	1921	1921	1862	1921	1849	1915	1849	1937	1843	1839
1.5	-1.5	1869	1913	1906	1898	1845	1881	1854	1911	1853	1913	1854	1902	1841	1909	1850	1919	1925	1852	1980	1848	1915	1847	1929	1906	1857
2.0	-2.0	1852	1911	1900	1894	1840	1884	1849	1908	1848	1906	1849	1898	1838	1900	1846	1913	1921	1848	1915	1845	1910	1842	1917	1837	1835
2.5	-2.5	1851	1909	1898	1892	1841	1888	1850	1906	1848	1902	1850	1897	1841	1896	1848	1909	1918	1849	1912	1847	1909	1845	1910	1896	1857
14.5	-14.5	1873	1871	1872	1874	1874	1873	1873	1872	1874	1873	1874	1873	1876	1874	1876	1875	1875	1878	1877	1878	1878	1879	1878	2012	1880
15.0	-15.0	1872	1870	1871	1872	1872	1871	1871	1871	1873	1872	1873	1872	1874	1873	1874	1873	1874	1876	1876	1877	1876	1877	1876	1884	1877
15.5	-15.5	1874	1873	1875	1876	1876	1875	1875	1875	1877	1876	1876	1876	1878	1877	1878	1877	1878	1880	1880	1880	1880	1881	1881	1992	1901
16.0	-16.0	1870	1868	1870	1871	1871	1870	1870	1870	1871	1871	1871	1871	1873	1872	1873	1872	1873	1875	1875	1875	1875	1876	1876	1887	1878
16.5	-16.5	1870	1869	1869	1871	1871	1871	1870	1871	1872	1871	1871	1871	1873	1872	1873	1873	1873	1875	1875	1875	1875	1876	1876	1877	1875
17.0	-17.0	1870	1870	1871	1872	1872	1872	1872	1871	1873	1872	1873	1872	1874	1873	1874	1874	1874	1876	1876	1876	1877	1879	1900	1929	1877

Depth on String (m)	Actual Depth (m)	Temperature (°C) 15-Jun-94	Temperature (°C) 16-Sep-94	Temperature (°C) 22-Sep-95	Temperature (°C) 25-Sep-96	Temperature (°C) 8-May-97	Temperature (°C) 17-Oct-97	Temperature (°C) 28-May-98	Temperature (°C) 17-Sep-98	Temperature (°C) 4-Jun-99	Temperature (°C) 12-Sep-99	Temperature (°C) 6-Jun-00	Temperature (°C) 8-Sep-00	Temperature (°C) 9-May-02	Temperature (°C) 4-Sep-02	Temperature (°C) 10-May-03	Temperature (°C) 9-Sep-03	Temperature (°C) 8-Sep-04	Temperature (°C) 19-May-05	Temperature (°C) 9-Sep-05	Temperature (°C) 16-May-06	Temperature (°C) 11-Sep-06	Temperature (°C) 10-May-07	Temperature (°C) 27-Aug-07	Temperature (°C) Mar. 27/08 (1)	Temperature (°C) Mar. 27/08 (2)
1.0	-1.0	5.4	7.5	7.7	5.9	-1.0	2.5	2.5	7.7	1.8	8.3	2.7	6.4	-1.7	8.1	-0.4	9.3	9.3	1.1	9.3	-0.7	8.5	-0.7	11.5	-1.5	-2.1
1.5	-1.5	2.1	8.2	7.2	6.1	-1.3	3.8	0.0	7.9	-0.1	8.2	0.0	6.7	-1.8	7.7	-0.6	9.0	9.8	-0.3	17.3	-0.8	8.5	-1.0	10.4	7.2	0.4
2.0	-2.0	-0.3	7.9	6.4	5.6	-2.0	4.2	-0.7	7.5	-0.8	7.2	-0.7	6.1	-2.3	6.4	-1.1	8.2	9.3	-0.8	8.5	-1.3	7.8	-1.7	8.8	-2.4	-2.7
2.5	-2.5	-0.4	7.7	6.1	5.3	-1.8	4.7	-0.6	7.2	-0.8	6.7	-0.6	6.0	-1.8	5.9	-0.8	7.7	8.9	-0.7	8.1	-1.0	7.7	-1.3	7.8	5.9	0.4
14.5	-14.5	2.7	2.4	2.5	2.8	2.8	2.7	2.7	2.5	2.8	2.7	2.8	2.7	3.1	2.8	3.1	2.9	2.9	3.4	3.2	3.4	3.4	3.5	3.4	21.6	3.6
15.0	-15.0	2.5	2.2	2.4	2.5	2.5	2.4	2.4	2.4	2.7	2.5	2.7	2.5	2.8	2.7	2.8	2.7	2.8	3.1	3.1	3.2	3.1	3.2	3.1	4.2	3.2
15.5	-15.5	2.8	2.7	2.9	3.1	3.1	2.9	2.9	2.9	3.2	3.1	3.1	3.1	3.4	3.2	3.4	3.2	3.4	3.6	3.6	3.6	3.6	3.8	3.8	18.9	6.5
16.0	-16.0	2.2	2.0	2.2	2.4	2.4	2.2	2.2	2.2	2.4	2.4	2.4	2.4	2.7	2.5	2.7	2.5	2.7	2.9	2.9	2.9	2.9	3.1	3.1	4.6	3.4
16.5	-16.5	2.2	2.1	2.1	2.4	2.4	2.4	2.2	2.4	2.5	2.4	2.4	2.4	2.7	2.5	2.7	2.7	2.7	2.9	2.9	2.9	2.9	3.1	3.1	3.2	2.9
17.0	-17.0	2.2	2.2	2.4	2.5	2.5	2.5	2.5	2.4	2.7	2.5	2.7	2.5	2.8	2.7	2.8	2.8	2.8	3.1	3.1	3.1	3.2	3.5	6.4	10.4	3.2

Depth on String (m)	Actual Depth (m)	Resistivity (kOhms) Apr. 03/08	Resistivity (kOhms) Apr. 10/08	Resistivity (kOhms) Apr. 21/08	Resistivity (kOhms) Apr. 28/08	Resistivity (kOhms) May 05/08	Resistivity (kOhms) May 12/08	Resistivity (kOhms) May 15/08	Resistivity (kOhms) May 20/08	Resistivity (kOhms) May 26/08	Resistivity (kOhms) June 2/09	Resistivity (kOhms) Jun. 11/08	Resistivity (kOhms) Jun. 17/08	Resistivity (kOhms) Jun. 24/08	Resistivity (kOhms) Jul. 02/08	Resistivity (kOhms) Jul. 07/08	Resistivity (kOhms) Jul. 15/08	Resistivity (kOhms) July 22/08	Resistivity (kOhms) July 29/08	Resistivity (kOhms) Aug. 04/08	Resistivity (kOhms) Aug 11/08	Resistivity (kOhms) Aug. 21/08	Resistivity (kOhms) Sept. 18/08	Resistivity (kOhms) Jun. 26/09	Resistivity (kOhms) Sept. 09/09	Resistivity (kOhms) 15-May-10	Resistivity (kOhms) 10-Sep-10
1.0	-1.0	1837	1835	1839	1843	1848	1849	1867	1852	1885	1875	1884	1891	1903	1909	1915	1914	1915	1913	1916	1924	1922	1903	1904	1960	1855	2120
1.5	-1.5	1870	1837	1842	1843	1846	1850	1850	1850	1852	1856	1867	1874	1885	1897	1906	1902	1904	1904	1906	1913	1915	1904	1886	1970	1852	2190
2.0	-2.0	1836	1837	1840	1841	1843	1845	1845	1847	1848	1851	1851	1853	1862	1876	1879	1884	1889	1892	1894	1899	1904	1899	1865	1960	1848	2370
2.5	-2.5	1845	1842	1844	1844	1845	1847	1847	1848	1849	1851	1851	1852	1853	1858	1864	1873	1879	1884	1884	1891	1897	1898	1852	1960	1849	2340
14.5	-14.5	1885	1879	1879	1879	1878	1879	1879	1879	1879	1880	1878	1878	1878	1879	1881	1879	1877	1877	1877	1877	1877	1877	1877	1930	1877	2100
15.0	-15.0	1886	1877	1877	1877	1877	1878	1880	1877	1877	1878	1877	1876	1877	1878	1879	1876	1876	1876	1876	1876	1876	1875	1876	1930	1876	2090
15.5	-15.5	1885	1881	1881	1881	1882	1882	1881	1880	1881	1882	1881	1880	1881	1881	1882	1896	1880	1880	1880	1880	1880	1879	1880	1930	1880	2090
16.0	-16.0	1875	1876	1876	1875	1875	1882	1876	1876	1876	1877	1879	1875	1879	1876	1875	1895	1875	1875	1875	1875	1875	1874	1875	1930	1875	2090
16.5	-16.5	1876	1876	1876	1876	1876	1900	1876	1876	1876	1877	1876	1876	1876	1878	1878	1880	1875	1875	1875	1875	1875	1875	1875	1930	1875	2090
17.0	-17.0	1877	1878	1896	1877	1878	1877	1877	1877	1879	1879	1879	1877	1878	1879	1879	1892	1877	1877	1877	1876	1877	1876	1877	1930	0	2050

Depth on String (m)	Actual Depth (m)	Temperature (°C) Apr. 03/08	Temperature (°C) Apr. 10/08	Temperature (°C) Apr. 21/08	Temperature (°C) Apr. 28/08	Temperature (°C) May 05/08	Temperature (°C) May 12/08	Temperature (°C) May 15/08	Temperature (°C) May 20/08	Temperature (°C) May 26/08	Temperature (°C) June 2/09	Temperature (°C) Jun. 11/08	Temperature (°C) Jun. 17/08	Temperature (°C) Jun. 24/08	Temperature (°C) Jul. 02/08	Temperature (°C) Jul. 07/08	Temperature (°C) Jul. 15/08	Temperature (°C) July 22/08	Temperature (°C) July 29/08	Temperature (°C) Aug. 04/08	Temperature (°C) Aug 11/08	Temperature (°C) Aug. 21/08	Temperature (°C) Sept. 18/08	Temperature (°C) Jun. 26/09	Temperature (°C) Sept. 09/09	Temperature (°C) 15-May-10	Temperature (°C) 10-Sep-10
1.0	-1.0	-2.4	-2.7	-2.1	-1.5	-0.8	-0.7	1.8	-0.3	4.3	2.9	4.2	5.2	6.8	7.7	8.5	8.3	8.5	8.2	8.6	9.7	9.4	6.8	7.0	14.6	0.1	35.7
1.5	-1.5	2.2	-2.4	-1.7	-1.5	-1.1	-0.6	-0.6	-0.6	-0.3	0.3	1.8	2.8	4.3	6.0	7.2	6.7	7.0	7.0	7.2	8.2	8.5	7.0	4.5	16.0	-0.3	44.6
2.0	-2.0	-2.5	-2.4	-2.0	-1.8	-1.5	-1.3	-1.3	-1.0	-0.8	-0.4	-0.4	-0.1	1.1	3.1	3.5	4.2	4.9	5.3	5.6	6.3	7.0	6.3	1.5	14.6	-0.8	66.7
2.5	-2.5	-1.3	-1.7	-1.4	-1.4	-1.3	-1.0	-1.0	-0.8	-0.7	-0.4	-0.4	-0.3	-0.1	0.6	1.4	2.7	3.5	4.2	4.2	5.2	6.0	6.1	-0.3	14.6	-0.7	63.1
14.5	-14.5	4.3	3.5	3.5	3.5	3.4	3.5	3.5	3.5	3.5	3.6	3.4	3.4	3.4	3.5	3.8	3.5	3.2	3.2	3.2	3.2	3.2	3.2	3.2	10.5	3.2	33.1
15.0	-15.0	4.5	3.2	3.2	3.2	3.2	3.4	3.6	3.2	3.2	3.4	3.2	3.1	3.2	3.4	3.5	3.1	3.1	3.1	3.1	3.1	3.1	2.9	3.1	10.5	3.1	31.8
15.5	-15.5	4.3	3.8	3.8	3.8	3.9	3.9	3.8	3.6	3.8	3.9	3.8	3.6	3.8	3.8	3.9	5.9	3.6	3.6	3.6	3.6	3.6	3.5	3.6	10.5	3.6	31.8
16.0	-16.0	2.9	3.1	3.1	2.9	2.9	3.9	3.1	3.1	3.1	3.2	3.5	2.9	3.5	3.1	2.9	5.7	2.9	2.9	2.9	2.9	2.9	2.8	2.9	10.5	2.9	31.8
16.5	-16.5	3.1	3.1	3.1	3.1	3.1	6.4	3.1	3.1	3.1	3.2	3.1	3.1	3.1	3.4	3.4	3.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9	10.5	2.9	31.8
17.0	-17.0	3.2	3.4	5.9	3.2	3.4	3.2	3.2	3.2	3.5	3.5	3.5	3.2	3.4	3.5	3.5	5.3	3.2	3.2	3.2	3.1	3.2	3.1	3.2	10.5		26.6

Denison Environmental Services

Table H-66: Little Creek Dam
Thermistor BH94 LCD-5

BH94 LCD-5		Location:	Little Creek Dam Crest			Elevation (m amsl):	1114.5m	Coordinates:	3090N	13500E
			Date Installed:	8-Jun-94	Thermistor Type:	SINCA RTD's	Ice-Bath Calibration:	applied	Surface Protector:	yes
Depth Correction:	0.0						Ro (Ohms)=	1854		

Depth on String (m)	Actual Depth (m)	Resistivity (kOhms) 15-Jun-94	Resistivity (kOhms) 16-Sep-94	Resistivity (kOhms) 22-Sep-95	Resistivity (kOhms) 25-Sep-96	Resistivity (kOhms) 8-May-97	Resistivity (kOhms) 17-Oct-97	Resistivity (kOhms) 28-May-98	Resistivity (kOhms) 17-Sep-98	Resistivity (kOhms) 4-Jun-99	Resistivity (kOhms) 12-Sep-99	Resistivity (kOhms) 6-Jun-00	Resistivity (kOhms) 8-Sep-00	Resistivity (kOhms) 9-May-02	Resistivity (kOhms) 4-Sep-02	Resistivity (kOhms) 10-May-03	Resistivity (kOhms) 9-Sep-03	Resistivity (kOhms) 8-Sep-04	Resistivity (kOhms) 19-May-05	Resistivity (kOhms) 9-Sep-05	Resistivity (kOhms) 16-May-06	Resistivity (kOhms) 11-Sep-06	Resistivity (kOhms) 10-May-07	Resistivity (kOhms) 27-Aug-07	Resistivity (kOhms) Mar. 27/08 (1)	Resistivity (kOhms) Mar. 27/08 (2)
1.0	-1.0	1903	1908	1906	1887	1847	1863	1882	1900	1873	1907	1882	1893	1842	1910	1852	1917	1916	1877	1919	1849	1909	1849	1937	1827	1837
1.5	-1.5	1880	1909	1902	1890	1843	1873	1854	1904	1854	1906	1856	1895	1841	1907	1849	1917	1923	1854	1919	1848	1911	1849	1928	1836	1860
2.0	-2.0	1864	1910	1899	1890	1842	1879	1851	1903	1851	1903	1852	1894	1842	1902	1849	1913	1922	1852	1917	1848	1909	1845	1918	1839	1840
2.5	-2.5	1855	1907	1896	1888	1842	1882	1851	1900	1850	1897	1852	1892	1844	1897	1851	1909	1918	1853	1914	1849	1907	1847	1910	1852	1851
14.5	-14.5	1879	1872	1871	1873	1872	1872	1871	1870	1872	1871	1871	1870	1873	1872	1873	1872	1873	1875	1875	1876	1875	1876	1876	1968	1879
15.0	-15.0	1879	1873	1873	1876	1874	1874	1873	1872	1874	1873	1873	1872	1875	1874	1875	1874	1875	1877	1877	1878	1877	1878	1877	1877	1879
15.5	-15.5	1880	1875	1874	1876	1875	1875	1874	1873	1874	1874	1874	1873	1875	1875	1876	1875	1876	1878	1877	1878	1878	1879	1879	1896	1909
16.0	-16.0	1878	1876	1877	1879	1877	1877	1876	1875	1877	1876	1876	1875	1877	1877	1878	1877	1878	1879	1879	1880	1880	1880	1883	1885	1904
16.5	-16.5	1868	1868	1868	1870	1869	1869	1867	1867	1868	1868	1868	1867	1869	1868	1869	1869	1870	1871	1871	1871	1871	1872	1873	1871	1871
17.0	-17.0	1873	1873	1874	1876	1874	1874	1873	1872	1873	1873	1873	1872	1874	1874	1874	1874	1875	1876	1876	1877	1877	1877	1884	1881	1884

Depth on String (m)	Actual Depth (m)	Temperature (°C) 15-Jun-94	Temperature (°C) 16-Sep-94	Temperature (°C) 22-Sep-95	Temperature (°C) 25-Sep-96	Temperature (°C) 8-May-97	Temperature (°C) 17-Oct-97	Temperature (°C) 28-May-98	Temperature (°C) 17-Sep-98	Temperature (°C) 4-Jun-99	Temperature (°C) 12-Sep-99	Temperature (°C) 6-Jun-00	Temperature (°C) 8-Sep-00	Temperature (°C) 9-May-02	Temperature (°C) 4-Sep-02	Temperature (°C) 10-May-03	Temperature (°C) 9-Sep-03	Temperature (°C) 8-Sep-04	Temperature (°C) 19-May-05	Temperature (°C) 9-Sep-05	Temperature (°C) 16-May-06	Temperature (°C) 11-Sep-06	Temperature (°C) 10-May-07	Temperature (°C) 27-Aug-07	Temperature (°C) Mar. 27/08 (1)	Temperature (°C) Mar. 27/08 (2)
1.0	-1.0	6.8	7.5	7.2	4.6	-1.0	1.3	3.9	6.4	2.7	7.4	3.9	5.4	-1.7	7.8	-0.3	8.8	8.6	3.2	9.0	-0.7	7.7	-0.7	11.5	-3.8	-2.4
1.5	-1.5	3.6	7.7	6.7	5.0	-1.5	2.7	0.0	7.0	0.0	7.2	0.3	5.7	-1.8	7.4	-0.7	8.8	9.6	0.0	9.0	-0.8	7.9	-0.7	10.3	-2.5	0.8
2.0	-2.0	1.4	7.8	6.3	5.0	-1.7	3.5	-0.4	6.8	-0.4	6.8	-0.3	5.6	-1.7	6.7	-0.7	8.2	9.4	-0.3	8.8	-0.8	7.7	-1.3	8.9	-2.1	-2.0
2.5	-2.5	0.1	7.4	5.9	4.7	-1.7	3.9	-0.4	6.4	-0.6	6.0	-0.3	5.3	-1.4	6.0	-0.4	7.7	8.9	-0.1	8.3	-0.7	7.4	-1.0	7.8	-0.3	-0.4
14.5	-14.5	3.5	2.5	2.4	2.7	2.5	2.5	2.4	2.2	2.5	2.4	2.4	2.2	2.7	2.5	2.7	2.5	2.7	2.9	2.9	3.1	2.9	3.1	3.1	15.7	3.5
15.0	-15.0	3.5	2.7	2.7	3.1	2.8	2.8	2.7	2.5	2.8	2.7	2.7	2.5	2.9	2.8	2.9	2.8	2.9	3.2	3.2	3.4	3.2	3.4	3.2	3.2	3.5
15.5	-15.5	3.6	2.9	2.8	3.1	2.9	2.9	2.8	2.7	2.8	2.8	2.8	2.7	2.9	2.9	3.1	2.9	3.1	3.4	3.2	3.4	3.4	3.5	3.5	5.9	7.7
16.0	-16.0	3.4	3.1	3.2	3.5	3.2	3.2	3.1	2.9	3.2	3.1	3.1	2.9	3.2	3.2	3.4	3.2	3.4	3.5	3.5	3.6	3.6	3.6	4.1	4.3	7.0
16.5	-16.5	2.0	2.0	2.0	2.2	2.1	2.1	1.8	1.8	2.0	2.0	2.0	1.8	2.1	2.0	2.1	2.1	2.2	2.4	2.4	2.4	2.4	2.5	2.7	2.4	2.4
17.0	-17.0	2.7	2.7	2.8	3.1	2.8	2.8	2.7	2.5	2.7	2.7	2.7	2.5	2.8	2.8	2.8	2.8	2.9	3.1	3.1	3.2	3.2	3.2	4.2	3.8	4.2

Depth on String (m)	Actual Depth (m)	Resistivity (kOhms) Apr. 03/08	Resistivity (kOhms) Apr. 10/08	Resistivity (kOhms) Apr. 21/08	Resistivity (kOhms) Apr. 28/08	Resistivity (kOhms) May 05/08	Resistivity (kOhms) May 12/08	Resistivity (kOhms) May 15/08	Resistivity (kOhms) May 20/08	Resistivity (kOhms) May 26/08	Resistivity (kOhms) June 2/09	Resistivity (kOhms) Jun.11/08	Resistivity (kOhms) Jun. 17/08	Resistivity (kOhms) Jun. 24/08	Resistivity (kOhms) Jul. 02/08	Resistivity (kOhms) Jul. 07/08	Resistivity (kOhms) Jul. 15/08	Resistivity (kOhms) July 22/2008	Resistivity (kOhms) July 29/08	Resistivity (kOhms) Aug. 04/08	Resistivity (kOhms) Aug 11/08	Resistivity (kOhms) Aug. 21/08	Resistivity (kOhms) Sept. 18/08	Resistivity (kOhms) Jun. 26/09	Resistivity (kOhms) Sept. 09/09	Resistivity (kOhms) 15-May-10	Resistivity (kOhms) 10-Sep-10
1.0	-1.0	1846	1834	1838	1842	1845	1849	1852	1853	1866	1882	1889	1895	1908	1910	1915	1914	1914	1913	1916	1924	1920	1899	1909	2034	1859	2390
1.5	-1.5	1840	1837	1841	1843	1845	1847	1848	1850	1851	1857	1873	1878	1887	1895	1897	1908	1903	1904	1906	1913	1914	1901	1893	1930	1851	2390
2.0	-2.0	1856	1840	1843	1844	1846	1847	1848	1849	1850	1853	1857	1863	1872	1881	1882	1889	1892	1892	1894	1899	1906	1899	1876	1910	1849	2390
2.5	-2.5	1845	1844	1846	1847	1848	1849	1850	1850	1851	1853	1853	1855	1858	1867	1870	1878	1881	1884	1884	1891	1898	1897	1861	1910	1850	2380
14.5	-14.5	1877	1876	1876	1876	1876	1876	1875	1875	1876	1876	1875	1875	1876	1877	1877	1877	1875	1877	1877	1877	1874	1874	1875	1890	1874	2340
15.0	-15.0	1877	1877	1877	1877	1877	1890	1877	1877	1877	1878	1877	1877	1878	1878	1879	1877	1876	1876	1876	1876	1876	1876	1877	1880	1876	2350
15.5	-15.5	1879	1878	1878	1878	1878	1879	1878	1878	1878	1879	1878	1878	1878	1878	1878	1888	1877	1880	1880	1880	1877	1877	1877	1880	1877	2350
16.0	-16.0	1879	1879	1879	1879	1880	1910	1880	1879	1890	1880	1881	1879	1880	1881	1882	1899	1879	1875	1875	1875	1879	1879	1879	1880	1878	2350
16.5	-16.5	1884	1871	1871	1871	1874	1879	1872	1874	1872	1872	1871	1871	1874	1874	1873	1882	1871	1875	1875	1875	1871	1871	1871	1880	1870	2340
17.0	-17.0	1876	1876	1876	1877	1877	1895	1877	1877	1876	1876	1877	1877	1877	1877	1878	1878	1876	1877	1877	1876	1876	1876	1876	1880	1875	2350

Depth on String (m)	Actual Depth (m)	Temperature (°C) Apr. 03/08	Temperature (°C) Apr. 10/08	Temperature (°C) Apr. 21/08	Temperature (°C) Apr. 28/08	Temperature (°C) May 05/08	Temperature (°C) May 12/08	Temperature (°C) May 15/08	Temperature (°C) May 20/08	Temperature (°C) May 26/08	Temperature (°C) June 2/09	Temperature (°C) Jun.11/08	Temperature (°C) Jun. 17/08	Temperature (°C) Jun. 24/08	Temperature (°C) Jul. 02/08	Temperature (°C) Jul. 07/08	Temperature (°C) Jul. 15/08	Temperature (°C) July 22/08	Temperature (°C) July 29/08	Temperature (°C) Aug. 04/08	Temperature (°C) Aug 11/08	Temperature (°C) Aug. 21/08	Temperature (°C) Sept. 18/08	Temperature (°C) Jun. 26/09	Temperature (°C) Sept. 09/09	Temperature (°C) 15-May-10	Temperature (°C) 10-Sep-10
1.0	-1.0	-1.1	-2.8	-2.3	-1.7	-1.3	-0.7	-0.3	-0.1	1.7	3.9	4.9	5.7	7.5	7.8	8.5	8.3	8.3	8.2	8.6	9.7	9.2	6.3	7.7	24.5	0.7	69.1
1.5	-1.5	-2.0	-2.4	-1.8	-1.5	-1.3	-1.0	-0.8	-0.6	-0.4	0.4	2.7	3.4	4.6	5.7	6.0	7.5	6.8	7.0	7.2	8.2	8.3	6.5	5.4	10.5	-0.4	69.1
2.0	-2.0	0.3	-2.0	-1.5	-1.4	-1.1	-1.0	-0.8	-0.7	-0.6	-0.1	0.4	1.3	2.5	3.8	3.9	4.9	5.3	5.3	5.6	6.3	7.2	6.3	3.1	7.8	-0.7	69.1
2.5	-2.5	-1.3	-1.4	-1.1	-1.0	-0.8	-0.7	-0.6	-0.6	-0.4	-0.1	-0.1	0.1	0.6	1.8	2.2	3.4	3.8	4.2	4.2	5.2	6.1	6.0	1.0	7.8	-0.6	67.9
14.5	-14.5	3.2	3.1	3.1	3.1	3.1	3.1	2.9	2.9	3.1	3.1	2.9	2.9	3.1	3.2	3.2	3.2	2.9	3.2	3.2	3.2	2.8	2.8	2.9	5.0	2.8	63.1
15.0	-15.0	3.2	3.2	3.2	3.2	3.2	5.0	3.2	3.2	3.2	3.4	3.2	3.2	3.4	3.4	3.5	3.2	3.1	3.1	3.1	3.1	3.1	3.1	3.2	3.6	3.1	64.3
15.5	-15.5	3.5	3.4	3.4	3.4	3.4	3.5	3.4	3.4	3.4	3.5	3.4	3.4	3.4	3.4	3.4	4.7	3.2	3.6	3.6	3.6	3.2	3.2	3.2	3.6	3.2	64.3
16.0	-16.0	3.5	3.5	3.5	3.5	3.6	7.8	3.6	3.5	5.0	3.6	3.8	3.5	3.6	3.8	3.9	6.3	3.5	2.9	2.9	2.9	3.5	3.5	3.5	3.6	3.4	64.3
16.5	-16.5	4.2	2.4	2.4	2.4	2.8	3.5	2.5	2.8	2.5	2.5	2.4	2.4	2.8	2.8	2.7	3.9	2.4	2.9	2.9	2.9	2.4	2.4	2.4	3.6	2.2	63.1
17.0	-17.0	3.1	3.1	3.1	3.2	3.2	5.7	3.2	3.2	3.1	3.1	3.2	3.2	3.2	3.2	3.4	3.4	3.1	3.2	3.2	3.1	3.1	3.1	3.1	3.6	2.9	64.3

Shaded cells suspect; not graphed
* The 3 metre depth tip is suspect
The node is malfunctioning. Numbers are not included in the graphs.

Historic Source Data: As compiled by SRK in 2009 Annual Geotechnical Inspection; Revised as of 2010 by Denison Environmental Services (DES).

Denison Environmental Services

Table H-67: Little Creek Dam
Thermistor BH94 LCD-6

BH94 LCD-6		**Location:**	Little Creek Dam Crest			**Elevation (m amsl):**	1114.5m	**Coordinates:**	3125N	13535E
			Date Installed:	8-Jun-94	**Thermistor Type:**	SINCA RTD's	**Ice-Bath Calibration:**	not applied	**Surface Protector:**	yes
Depth Correction:	0.4						Ro (Ohms)=	1854		

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	15-Jun-94	16-Sep-94	22-Sep-95	25-Sep-96	8-May-97	17-Oct-97	28-May-98	17-Sep-98	4-Jun-99	12-Sep-99	6-Jun-00	8-Sep-00	9-May-02	4-Sep-02	10-May-03	9-Sep-03	8-Sep-04	19-May-05	9-Sep-05	16-May-06	11-Sep-06	10-May-07	27-Aug-07	Mar. 27/08 (1)	Mar. 27/08 (2)
1.0	-1.4	1881	1915	1913	1909	1853	1875	1866	1909	1864	1912	1868	1903	1850	1913	1857	1920	1923	1860	1921	1855	1915	1853	1949	1841	1852
1.5	-1.9	1858	1909	1902	1903	1841	1877	1849	1901	1849	1899	1850	1894	1841	1899	1848	1908	1916	1850	1912	1847	1906	1844	1913	1842	1847
2.0	-2.4	1857	1910	1901	1903	1843	1882	1850	1901	1850	1896	1852	1895	1845	1896	1851	1906	1915	1852	1910	1849	1904	1846	1904	1850	1848
2.5	-2.9	1858	1907	1899	1901	1843	1883	1850	1897	1849	1891	1851	1891	1846	1891	1852	1901	1910	1853	1906	1850	1900	1847	1904	1856	1872
10.0	-10.4	1896	1884	1884	1894	1883	1881	1882	1881	1883	1880	1883	1881	1886	1883	1886	1884	1884	1888	1886	1889	1886	1888	1907	1922	1903
10.5	-10.9	1877	1875	1875	1887	1875	1873	1875	1873	1876	1873	1874	1873	1877	1875	1878	1876	1876	1880	1878	1881	1878	1880	1913	1894	1909
11.0	-11.4	1880	1877	1877	1889	1878	1874	1876	1875	1878	1875	1876	1875	1880	1877	1881	1878	1879	1882	1880	1883	1880	1882	1892	1894	1894
11.5	-11.9	1877	1875	1875	1886	1875	1872	1874	1872	1875	1872	1874	1873	1877	1875	1878	1875	1876	1880	1877	1880	1878	1879	1892	1893	1880
12.0	-12.4	1880	1875	1875	1885	1874	1871	1873	1872	1874	1871	1874	1872	1877	1874	1877	1874	1875	1879	1877	1880	1877	1878	1895	1893	1879
12.5	-12.9	1876	1875	1875	1886	1875	1872	1873	1872	1875	1872	1874	1872	1876	1874	1877	1874	1875	1879	1877	1879	1877	1879	1878	1880	1880

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	15-Jun-94	16-Sep-94	22-Sep-95	25-Sep-96	8-May-97	17-Oct-97	28-May-98	17-Sep-98	4-Jun-99	12-Sep-99	6-Jun-00	8-Sep-00	9-May-02	4-Sep-02	10-May-03	9-Sep-03	8-Sep-04	19-May-05	9-Sep-05	16-May-06	11-Sep-06	10-May-07	27-Aug-07	Mar. 27/08 (1)	Mar. 27/08 (2)
1.0	-1.4	3.8	8.5	8.2	7.7	-0.1	2.9	1.7	7.7	1.4	8.1	2.0	6.8	-0.6	8.2	0.4	9.2	9.6	0.8	9.3	0.1	8.5	-0.1	13.1	-1.8	-0.3
1.5	-1.9	0.6	7.7	6.7	6.8	-1.8	3.2	-0.7	6.5	-0.7	6.3	-0.6	5.6	-1.8	6.3	-0.8	7.5	8.6	-0.6	8.1	-1.0	7.2	-1.4	8.2	-1.7	-1.0
2.0	-2.4	0.4	7.8	6.5	6.8	-1.5	3.9	-0.6	6.5	-0.6	5.9	-0.3	5.7	-1.3	5.9	-0.4	7.2	8.5	-0.3	7.8	-0.7	7.0	-1.1	7.0	-0.6	-0.8
2.5	-2.9	0.6	7.4	6.3	6.5	-1.5	4.1	-0.6	6.0	-0.7	5.2	-0.4	5.2	-1.1	5.2	-0.3	6.5	7.8	-0.1	7.2	-0.6	6.4	-1.0	7.0	0.3	2.5
10.0	-10.4	5.9	4.2	4.2	5.6	4.1	3.8	3.9	3.8	4.1	3.6	4.1	3.8	4.5	4.1	4.5	4.2	4.2	4.7	4.5	4.9	4.5	4.7	7.4	9.4	6.8
10.5	-10.9	3.2	2.9	2.9	4.6	2.9	2.7	2.9	2.7	3.1	2.7	2.8	2.7	3.2	2.9	3.4	3.1	3.1	3.6	3.4	3.8	3.4	3.6	8.2	5.6	7.7
11.0	-11.4	3.6	3.2	3.2	4.9	3.4	2.8	3.1	2.9	3.4	2.9	3.1	2.9	3.6	3.2	3.8	3.4	3.5	3.9	3.6	4.1	3.6	3.9	5.3	5.6	5.6
11.5	-11.9	3.2	2.9	2.9	4.5	2.9	2.5	2.8	2.5	2.9	2.5	2.8	2.7	3.2	2.9	3.4	2.9	3.1	3.6	3.2	3.6	3.4	3.5	5.3	5.4	3.6
12.0	-12.4	3.6	2.9	2.9	4.3	2.8	2.4	2.7	2.5	2.8	2.4	2.8	2.5	3.2	2.8	3.2	2.8	2.9	3.5	3.2	3.6	3.2	3.4	5.7	5.4	3.5
12.5	-12.9	3.1	2.9	2.9	4.5	2.9	2.5	2.7	2.5	2.9	2.5	2.8	2.5	3.1	2.8	3.2	2.8	2.9	3.5	3.2	3.5	3.2	3.5	3.4	3.6	3.6

Depth on String	Actual Depth	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)	Resistivity (kOhms)
(m)	(m)	Apr. 03/08	Apr. 10/08	Apr. 21/08	Apr. 28/08	May 05/08	May 12/08	May 15/08	May 20/08	May 26/08	June 2/09	Jun.11/08	Jun. 17/08	Jun. 24/08	Jul. 02/08	Jul. 07/08	Jul. 15/08	July 22/08	July 29/08	Aug. 04/08	Aug 11/08	Aug. 21/08	Sept. 18/08	Jun. 26/09	Sept. 09/09	15-May-10	10-Sep-10
1.0	-1.4	1840	1845	1849	1851	1853	1855	1861	1853	1859	1865	1879	1884	1900	1899	1904	1919	1910	1909	1912	1920	1920	1905	1897	1950	1857	1930
1.5	-1.9	1842	1841	1844	1845	1847	1848	1848	1850	1849	1852	1853	1855	1870	1874	1877	1897	1890	1891	1894	1899	1903	1897	1869	1970	1849	2240
2.0	-2.4	1847	1847	1848	1849	1850	1850	1851	1849	1852	1854	1853	1854	1855	1862	1867	1886	1882	1885	1888	1892	1897	1897	1855	2010	1851	1940
2.5	-2.9	1851	1850	1850	1851	1851	1851	1852	1850	1852	1854	1853	1853	1853	1854	1855	1868	1874	1878	1881	1885	1890	1894	1852	1900	1851	1940
10.0	-10.4	1890	1888	1888	1888	1887	1888	1888	1875	1886	1888	1886	1886	1886	1887	1889	1887	1885	1884	1884	1884	1884	1884	1884	1890	1886	1940
10.5	-10.9	1880	1880	1880	1880	1879	1882	1881	1877	1879	1880	1879	1879	1882	1878	1877	1878	1878	1877	1877	1877	1877	1877	1877	1880	1878	1940
11.0	-11.4	1883	1882	1882	1882	1882	1882	1884	1878	1881	1882	1881	1880	1880	1882	1881	1893	1879	1879	1879	1879	1879	1878	1879	1880	1880	1920
11.5	-11.9	1881	1879	1879	1880	1879	1880	1879	1879	1882	1880	1878	1878	1882	1878	1877	1885	1877	1877	1877	1876	1876	1876	1877	1880	1878	1910
12.0	-12.4	1879	1879	1879	1879	1879	1884	1878	1874	1878	1879	1878	1877	1876	1877	1876	1880	1875	1875	1875	1875	1875	1875	1875	1880	1877	1960
12.5	-12.9	1879	1878	1878	1879	1881	1878	1881	1877	1879	1879	1878	1878	1883	1881	1879	1878	1876	1876	1876	1876	1876	1875	1876	1880	1877	2000

Depth on String	Actual Depth	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)	Temperature (°C)
(m)	(m)	Apr. 03/08	Apr. 10/08	Apr. 21/08	Apr. 28/08	May 05/08	May 12/08	May 15/08	May 20/08	May 26/08	June 2/09	Jun.11/08	Jun. 17/08	Jun. 24/08	Jul. 02/08	Jul. 07/08	Jul. 15/08	July 22/08	July 29/08	Aug. 04/08	Aug 11/08	Aug. 21/08	Sept. 18/08	Jun. 26/09	Sept. 09/09	15-May-10	10-Sep-10
1.0	-1.4	-2.0	-1.3	-0.7	-0.4	-0.1	0.1	1.0	-0.1	0.7	1.5	3.5	4.2	6.4	6.3	7.0	9.0	7.8	7.7	8.1	9.2	9.2	7.1	6.0	13.3	0.4	10.5
1.5	-1.9	-1.7	-1.8	-1.4	-1.3	-1.0	-0.8	-0.8	-0.6	-0.7	-0.3	-0.1	0.1	2.2	2.8	3.2	6.0	5.0	5.2	5.6	6.3	6.8	6.0	2.1	16.0	-0.7	50.9
2.0	-2.4	-1.0	-1.0	-0.8	-0.7	-0.6	-0.6	-0.4	-0.7	-0.3	0.0	-0.1	0.0	0.1	1.1	1.8	4.5	3.9	4.3	4.7	5.3	6.0	6.0	0.1	21.3	-0.4	11.9
2.5	-2.9	-0.4	-0.6	-0.6	-0.4	-0.4	-0.4	-0.3	-0.6	-0.3	0.0	-0.1	-0.1	-0.1	0.0	0.1	2.0	2.8	3.4	3.8	4.3	5.0	5.6	-0.3	6.4	-0.4	11.9
10.0	-10.4	5.0	4.7	4.7	4.7	4.6	4.7	4.7	2.9	4.5	4.7	4.5	4.5	4.5	4.6	4.9	4.6	4.3	4.2	4.2	4.2	4.2	4.2	4.2	5.0	4.5	11.9
10.5	-10.9	3.6	3.6	3.6	3.6	3.5	3.9	3.8	3.2	3.5	3.6	3.5	3.5	3.9	3.4	3.2	3.4	3.4	3.2	3.2	3.2	3.2	3.2	3.2	3.6	3.4	11.9
11.0	-11.4	4.1	3.9	3.9	3.9	3.9	3.9	4.2	3.4	3.8	3.9	3.8	3.6	3.6	3.9	3.8	5.4	3.5	3.5	3.5	3.5	3.5	3.4	3.5	3.6	3.6	9.2
11.5	-11.9	3.8	3.5	3.5	3.6	3.5	3.6	3.5	3.5	3.9	3.6	3.4	3.4	3.9	3.4	3.2	4.3	3.2	3.2	3.2	3.1	3.1	3.1	3.2	3.6	3.4	7.8
12.0	-12.4	3.5	3.5	3.5	3.5	3.5	4.2	3.4	2.8	3.4	3.5	3.4	3.2	3.1	3.2	3.1	3.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.6	3.2	14.6
12.5	-12.9	3.5	3.4	3.4	3.5	3.8	3.4	3.8	3.2	3.5	3.5	3.4	3.4	4.1	3.8	3.5	3.4	3.1	3.1	3.1	3.1	3.1	2.9	3.1	3.6	3.2	20.0

Shaded cells suspect; not graphed
* The 3 metre depth tip is suspect
* Sept 10/10 data suspect, removed from figures
The node is malfunctioning. Numbers are not included in the graphs.

Historic Source Data: As compiled by BGC in 2009 Annual Geotechnical Inspection; Revised as of 2010 by Denison Environmental Services (DES).

Table H-68: Little Creek Dam
Pneumatic Piezometer BH94-LCD1

BH94 LCD1	Date Installed:	June '94	Shallow Tip Elevation:	Deep Tip Elevation:	Little Creek Dam Crest Elev.	
	Surface Protector	yes	1103.6	1097.0	1114.5	
Date	Reading (psi)		Piezometric Elevation (m asl)		Pond Elevation (m asl)	Comment
	Shallow	Deep	Shallow	Deep		
May-94	2.9	12.1	1105.63	1105.47		
Sep-94	2.0	11.6	1105.00	1105.12		
Sep-95	2.5	11.0	1105.35	1104.70		
Sep-96	3.1	12.1	1105.77	1105.47		
May-97	2.3	11.4	1105.21	1104.98		
Oct-97	3.02	12.36	1105.71	1105.65		
May-98	2.79	12.46	1105.55	1105.72		
Sep-98	2.85	11.33	1105.60	1104.93	~1109.5	
May-99	1.85	10.95	1104.90	1104.67		
Sep-99	1.71	9.70	1104.80	1103.79	~1105	
Jun-00	1.30	11.40	1104.51	1104.98		
Aug-00	1.60	10.60	1104.72	1104.42		
Sep-00	1.80	11.00	1104.86	1104.70		
5-Jun-01	2.40	12.60	1105.28	1105.82	1109.33	
30-Aug-01	2.60	11.20	1105.42	1104.84	1108.55	
9-May-02	2.20	11.40	1105.14	1104.98	1109.78	
10-May-03	2.00	11.40	1105.00	1104.98	1110.54	
9-Sep-03	2.10	10.30	1105.07	1104.21	1108.13	
8-May-04	1.40	10.60	1104.58	1104.42	1110.01	
19-May-05	2.30	11.30	1105.21	1104.91	1110.27	
9-Sep-05	1.90	10.70	1104.93	1104.49	1108.57	
16-May-06	1.50	10.90	1104.65	1104.63	1109.99	
11-Sep-06	1.80	10.60	1104.86	1104.42	1108.40	
10-May-07	1.50	10.50	1104.65	1104.35	1110.18	
27-Aug-07	1.60	10.70	1104.72	1104.49	1108.69	
27-Mar-08	1.7	10.3	1104.79	1104.21	1108.91	
4-Apr-08	1.70	10.30	1104.79	1104.21	1108.90	
10-Apr-08	1.80	10.30	1104.86	1104.21	1108.90	
21-Apr-08	1.50	10.20	1104.65	1104.14	1108.94	
28-Apr-08	1.70	10.30	1104.79	1104.21	1109.225	
5-May-08	1.60	10.70	1104.72	1104.49	1110.191	
12-May-08	1.80	11.30	1104.86	1104.91	1111.696	
15-May-08	1.70	11.30	1104.79	1104.91	1110.697	
20-May-08	1.60	11.30	1104.72	1104.91	1110.311	
26-May-08	1.60	11.30	1104.72	1104.91	1109.919	
2-Jun-08	1.80	11.20	1104.86	1104.84	1109.116	
11-Jun-08	1.60	11.30	1104.72	1104.91	1109.176	
18-Jun-08	1.60	11.40	1104.72	1104.98	1109.213	
24-Jun-08	1.70	11.50	1104.79	1105.05	1109.272	
2-Jul-08	1.60	11.50	1104.72	1105.05	1109.295	
7-Jul-08	1.60	11.60	1104.72	1105.12	1109.323	
15-Jul-08	1.60	11.80	1104.72	1105.26	1109.732	
22-Jul-08	1.70	12.20	1104.79	1105.54	1109.903	
29-Jul-08	1.80	12.30	1104.86	1105.61	1109.948	
4-Aug-08	1.60	12.20	1104.72	1105.54	1109.968	
11-Aug-08	1.70	11.90	1104.79	1105.33	1109.181	
21-Aug-08	1.90	11.20	1104.93	1104.84	1108.010	
18-Sep-08	1.90	11.80	1104.93	1105.26	1108.909	
26-Jun-09	1.90	12.00	1104.93	1105.40	1110.237	
9-Sep-09	2.20	11.00	1105.14	1104.70	1108.731	
15-May-10	1.50	10.60	1104.65	1104.42	1107.545	
10-Sep-10	1.20	09.80	1104.44	1103.86	1107.715	

Note: Data to the end of 2009 as reported by SRK Consulting Engineers and Geoscientists; 2010 data reported Denison Environmental Services

Table H-69: Little Creek Dam
Pneumatic Piezometer BH94 LCD-2

BH94 LCD2	Date Installed:	June '94	Shallow Tip Elevation:	Deep Tip Elevation:	Little Creek Dam Crest Elev.	
	Surface Protector	yes	1100.5	1094.9	1114.5	
	Reading (psi)		Piezometric Elevation (m asl)		Pond Elevation (m asl)	Comment
Date	Shallow	Deep	Shallow	Deep		
May-94	0.4	6.4	1100.78	1099.38		
Sep-94	0.2	6.3	1100.64	1099.31		
Sep-95	0.0	06.0	1100.50	1099.10		
Sep-96	1.0	7.0	1101.17	1099.80		
May-97	0.8	7.2	1101.06	1099.94		
Oct-97	1.00	7.34	1101.20	1100.04		
May-98	1.25	7.78	1101.38	1100.35		
Sep-98	0.98	7.00	1101.19	1099.80	~1109.5	
May-99	1.10	7.05	1101.27	1099.84		
Sep-99	0.91	6.00	1101.14	1099.10	~1105	
Jun-00	0.90	07.00	1101.13	1099.80		
Aug-00	0.90	06.40	1101.13	1099.38		
Sep-00	0.90	06.70	1101.13	1099.59		
5-Jun-01	1.00	07.60	1101.20	1100.22	1109.33	
30-Aug-01	1.20	06.90	1101.34	1099.73	1108.55	
9-May-02	1.10	05.20	1101.27	1098.54	1109.78	
10-May-03	1.00	07.30	1101.20	1100.01	1110.54	
9-Sep-03	1.00	06.40	1101.20	1099.38	1108.13	
8-May-04	0.90	06.80	1101.13	1099.66	1109.32	
8-Sep-04	0.80	06.90	1101.06	1099.73		
19-May-05	1.30	06.80	1101.41	1099.66		
9-Sep-05	0.90	06.40	1101.13	1099.38		
16-May-06	1.00	06.90	1101.20	1099.73	1110.29	
11-Sep-06	1.80	10.60	1101.76	1102.32	1108.40	
10-May-07	1.50	10.50	1101.55	1102.25		
27-Aug-07	1.6	10.7	1101.62	1102.39		
27-Mar-08	1.00	06.30	1101.20	1099.31	1108.91	
4-Apr-08	1.10	06.40	1101.27	1099.38	1108.90	
10-Apr-08	1.20	06.50	1101.34	1099.45	1108.90	
21-Apr-08	0.90	06.40	1101.13	1099.38	1108.943	
28-Apr-08	1.10	06.50	1101.27	1099.45	1109.225	
5-May-08	1.10	06.70	1101.27	1099.59	1110.191	
12-May-08	1.20	07.00	1101.34	1099.80	1111.696	
15-May-08	1.10	06.90	1101.27	1099.73	1110.697	
20-May-08	1.00	06.90	1101.20	1099.73	1110.311	
26-May-08	1.00	06.80	1101.20	1099.66	1109.919	
2-Jun-08	1.20	06.80	1101.34	1099.66	1109.116	
11-Jun-08	1.00	06.70	1101.20	1099.59	1109.176	
18-Jun-08	1.00	06.70	1101.20	1099.59	1109.213	
24-Jun-08	1.10	06.70	1101.27	1099.59	1109.272	
2-Jul-08	1.00	06.70	1101.20	1099.59	1109.295	
7-Jul-08	1.10	06.70	1101.27	1099.59	1109.323	
15-Jul-08	1.00	06.80	1101.20	1099.66	1109.732	
22-Jul-08	1.10	07.00	1101.27	1099.80	1109.903	
29-Jul-08	1.20	07.10	1101.34	1099.87	1109.948	
4-Aug-08	1.00	07.00	1101.20	1099.80	1109.968	
11-Aug-08	1.00	06.80	1101.20	1099.66	1109.181	
21-Aug-08	1.20	06.60	1101.34	1099.52	1108.010	
18-Sep-08	1.20	06.80	1101.34	1099.66	1108.909	
26-Jun-09	1.20	06.90	1101.34	1099.73	1110.237	
9-Sep-09	1.30	06.40	1101.41	1099.38	1108.731	
15-May-10	1.00	06.30	1101.20	1099.31	1107.545	
40431	0.9	5.7	1101.13	1098.89	1107.715	

Note: Data to the end of 2009 as reported by SRK Consulting Engineers and Geoscientists; 2010 data reported Denison Environmental Services

Table H-70: Little Creek Dam
Pneumatic Piezometer BH94 LCD-3

BH94 LCD3	Date Installed:	June '94	Shallow Tip Elevation:	Deep Tip Elevation:	Little Creek Dam Crest Elev.	
	Surface Protector	yes	1105.5	1101.2	1114.5	
	Reading (psi)		Piezometric Elevation (m asl)		Pond Elevation (m asl)	Comment
Date	Shallow	Deep	Shallow	Deep		
May-94	0.8	4.3	1106.06	1104.21		
Sep-94	0.2	3.7	1105.64	1103.79		
Sep-95	0.0	03.5	1105.50	1103.65		
Sep-96	0.2	4.0	1105.61	1104.00		
May-97	0.2	3.8	1105.64	1103.86		
Oct-97	0.14	4.54	1105.60	1104.38		
May-98	0.54	4.58	1105.88	1104.41		
Sep-98	0.17	3.62	1105.62	1103.73	~1109.5	
May-99	0.40	3.50	1105.78	1103.65		
Sep-99	0.30	2.42	1105.71	1102.89	~1105	
Jun-00	0.10	03.40	1105.57	1103.58		
Aug-00	0.00	03.10	1105.50	1103.37		
Sep-00	0.01	03.40	1105.51	1103.58		
5-Jun-01	0.00	04.80	1105.50	1104.56	1109.33	
30-Aug-01	0.01	03.49	1105.51	1103.64	1108.55	
9-May-02	0.01	03.50	1105.51	1103.65	1109.78	
10-May-03	0.00	03.60	1105.50	1103.72	1110.54	
9-Sep-03	0.00	02.70	1105.50	1103.09	1108.13	
8-May-04	0.00	02.80	1105.50	1103.16	1109.32	
8-Sep-04	0.10	03.30	1105.57	1103.51		
19-May-05	0.01	04.00	1105.51	1104.00		
9-Sep-05	0.00	02.80	1105.50	1103.16		
16-May-06	0.00	03.30	1105.50	1103.51	1110.29	
11-Sep-06	1.80	10.60	1106.76	1108.62	1108.40	
10-May-07	1.50	10.50	1106.55	1108.55		
27-Aug-07	1.6	10.7	1106.62	1108.69		
27-Mar-08	0.80	02.80	1106.06	1103.16	1108.91	
4-Apr-08	0.90	02.90	1106.13	1103.23	1108.90	
10-Apr-08	0.90	02.90	1106.13	1103.23	1108.90	
21-Apr-08	0.70	02.90	1105.99	1103.23	1108.943	
28-Apr-08	1.00	03.00	1106.20	1103.30	1109.225	
5-May-08	0.80	03.20	1106.06	1103.44	1110.191	
12-May-08	0.90	03.60	1106.13	1103.72	1111.696	
15-May-08	1.00	03.70	1106.20	1103.79	1110.697	
20-May-08	0.90	03.80	1106.13	1103.86	1110.311	
26-May-08	0.90	03.80	1106.13	1103.86	1109.919	
2-Jun-08	1.00	03.80	1106.20	1103.86	1109.116	
11-Jun-08	0.90	03.60	1106.13	1103.72	1109.176	
18-Jun-08	0.90	03.50	1106.13	1103.65	1109.213	
25-Jun-08	1.00	03.60	1106.20	1103.72	1109.272	
2-Jul-08	0.80	03.50	1106.06	1103.65	1109.295	
7-Jul-08	0.90	03.60	1106.13	1103.72	1109.323	
15-Jul-08	0.90	03.80	1106.13	1103.86	1109.732	
22-Jul-08	1.20	04.20	1106.34	1104.14	1109.903	
29-Jul-08	1.00	04.20	1106.20	1104.14	1109.948	
4-Aug-08	0.80	04.10	1106.06	1104.07	1109.968	
11-Aug-08	0.90	04.10	1106.13	1104.07	1109.181	
21-Aug-08	1.10	04.30	1106.27	1104.21	1108.010	
18-Sep-08	1.10	04.10	1106.27	1104.07	1108.909	
26-Jun-09	1.20	04.10	1106.34	1104.07	1110.237	
9-Sep-09	1.40	03.30	1106.48	1103.51	1108.731	
15-May-10	0.10	03.30	1105.57	1103.51	1108.731	
10-Sep-10	0	2.5	1105.5	1102.95	1108.731	

Note: Data to the end of 2009 as reported by SRK Consulting Engineers and Geoscientists; 2010 data reported Denison Environmental Services

Table H-71: Vangorda Waste Rock Dump Piezometers - Static Water Levels and Piezometric Elevations

Measured Static Water Level (meters)

underlined readings (begin in 1998) indicate that no water was identified (hole was dry or frozen).
readings post Sep/98 given as metres below top of plastic piezometer pipe.
readings prior to Nov/98 could be metres below to top of piezo. pipe or steel casing.

Date	V34	V35	V36	V37	V38	V39	V40	V41	V42	V43	V44	V45	V46	V47				DH1	DH2	DH3	DH4	DH5
	GW-94-01	GW-94-02	GW-94-03	GW-94-04	GW-94-05*	P-94-01A	P-94-01B	P-94-02A	P-94-02B	P-94-02C	P-94-03A	P-94-03B	P-94-04A	P-94-04B	P2001-02A	P2001-02B	P2001-03	PW-10-01	PW-10-02	PW-10-03	PW-10-04	PW-10-05
3-May-94	8.28	14.33	11.28	14.33	11.56	12.37	6.05	10.57	6.12	13.08	14.10	9.80	12.17	8.99								
21-Jun-94	7.45	8.65	9.15	9.65		NR	NR	NR	NR	NR	NR	NR	NR	NR								
30-Jun-95						7.79	5.62	8.02	6.11	9.02	13.91	9.80	11.35	8.99								
13-Jul-95						7.80	5.59	NR	NR	NR	NR	NR	NR	NR								
30-Jul-95						7.86	5.48	7.99	6.12	8.81	13.68	9.80	11.83	8.99								
26-Aug-95	6.89	8.47		9.05		NR	NR	NR	NR	NR	NR	NR	NR	NR								
31-Aug-95	7.36					7.93	4.85	7.97	6.06	8.66	13.62	NR	12.60	NR								
17-Oct-95	7.14	8.26		9.37		7.90	4.23	8.70	5.76	8.54	13.41	NR	11.88	NR								
20-Nov-95	7.10	8.18		9.19		NR	NR	NR	NR	NR	NR	NR	NR	NR								
13-Mar-96	7.44	9.23		9.39		NR	NR	NR	NR	NR	NR	NR	NR	NR								
28-May-96	7.50	9.34	10.00	10.25		8.34	5.38	9.94	6.12	9.37	14.12	NR	12.77	NR								
24-Sep-96	7.50	7.43	7.95	9.17		10.40	5.30	8.30	6.12	8.66	13.68	9.88	12.80	8.99								
13-May-97	6.84	9.42	9.96	9.53		9.17	5.67	7.74	6.40	9.51	12.78	9.96	12.78	9.62								
11-Jul-97						9.80	5.90	7.92	6.12	8.97	14.10	9.80	9.97	9.00								
11-Aug-97	6.75	8.38	8.41	8.81	1.99	9.59	5.25	8.10	6.25	8.77	12.84	9.96	12.62	9.21								
14-Oct-97	6.76	8.58	9.15	8.99		9.51	4.96	7.99	6.23	8.94	12.96	9.96	12.73	9.21								
23-Dec-97	6.70	9.05	9.53	9.13		9.25	4.76	7.68	6.07	8.95	12.70	9.81	12.66	9.02								
31-May-98	6.72	8.60	9.73	9.59	1.86	9.52	5.25	8.05	6.24	9.20	12.87	9.95	12.77	9.20								
25-Jul-98						10.20	5.22	8.04	6.20	9.11	12.58	9.92	12.79	9.18								
15-Sep-98	6.67	8.85	9.52	9.10	2.40	10.02	5.22	7.98	6.20	9.22	12.54	9.92	12.83	9.19								
16-Nov-98						10.32	5.11	7.93	6.11	9.06	12.45	9.78	12.70	8.99								
31-Dec-98	6.70	9.06	9.91	9.23		NR	NR	NR	NR	NR	NR	NR	NR	NR								
18-Jun-99	6.88	9.24	10.24	10.18		9.96	5.09	8.35	6.11	9.48	12.48	9.77	12.70	8.99								
12-Oct-99	6.61	7.58	8.81	8.79		10.01	5.10	8.16	5.73	8.82	12.49	9.78	12.71	8.97								
31-May-00	5.75	8.68	8.26	9.33	1.84	10.20	5.10	7.85	5.93	8.97	12.48	9.78	12.66	8.88								
5-Sep-00	6.66					NR	NR	NR	NR	NR	NR	NR	NR	NR								
9-Oct-00	4.98	3.96	6.90	8.35	0.93	NR	NR	NR	NR	NR	NR	NR	NR	NR								
9-Jul-01						10.42	4.84	8.86	7.72	5.46	12.84	9.78	10.84	8.88								
11-Jun-02															4.72	4.76	30.00					
4-Sep-02						10.75	5.30	7.99	6.02	9.33	13.53	9.78	NR	8.91								
27-May-03						10.57	5.06	7.82	5.87	9.20	14.08	9.78	NR	8.93								
5-Jun-03															4.66	4.65						
9-Sep-03						10.65	5.04	7.84	5.87	9.15	13.86	9.78	NR	8.93								
8-May-04						10.61	5.26	8.03	5.94	9.21	14.08	9.78	NR	8.98								
8-Jun-04															4.64	4.62						
8-Sep-04						10.72	5.20	7.79	5.77	9.44	14.08	9.78	NR	8.99								
22-Sep-04															4.78	5.05						
3-May-05															5.10							
19-May-05						10.27	5.08	7.48	5.62	8.88	12.85	9.78	NR	8.99								
8-Sep-05															4.76							
9-Sep-05						10.37	4.88	7.44	5.45	8.91	13.28	9.78	NR	8.99								
16-May-06						10.70	5.39	8.09	6.11	9.35	14.08	9.78	NR	NR								
7-Jun-06															4.74	4.83						
11-Sep-06						11.04	5.54	7.99	5.84	9.17	13.89	9.78	NR	NR								
19-Sep-06															4.87	4.96						
10-May-07						10.62	5.89	7.95	6.12	9.57	14.07	9.77	NR	8.99								
29-May-07	6.52	9.16	9.989												5.11	5.14	38.36					
3-Jun-07				9.275																		
27-Aug-07						10.94	6.04	8.21	6.12	8.88	14.04	9.78	NR	8.99								
11-Oct-07	6.21	6.2	9.06	8.82											4.94	4.99						
4-Jun-08	6.037	7.44	7.802	8.754											3.52	3.55	30.50					
18-Sep-08	5.079	5.1	8.352	8.303		6.86	4.41	7.32	5.01	8.60	12.47	9.82	NR	8.89	3.78	3.78						
30-May-09		7.606	8.152																			
31-May-09	5.717			8.77																		
12-Sep-09	5.536	7.521	9	8.658											4.33	4.46	37.12					
3-Feb-10						10.31	5.11	7.62	5.94	NR	10.87	9.78	NR	8.89								
15-May-10	6.508	9.3	8.767	9.335		10.679	5.565	7.839	6.082	8.517	11.637	9.776	3.108	8.886								
12-Jun-10															4.590	4.340	37.000					
27-Jun-10						11.069	5.719	7.931	6.125	8.863	13.575	9.776	3.990	8.890								
13-Jul-10						11.706	5.832	8.145	6.117	5.707	13.635	9.780	3.130	8.899								
4-Aug-10						11.703	5.848	8.172	6.123	8.732	13.684	9.788	3.133	8.898								
3-Sep-10	5.902	5.275	9.404			11.738	5.813	8.189	6.181	9.023	13.666	9.778	3.129	8.889								
15-Sep-10															4.567	4.866	37.810					
20-Sep-10																						
14-Oct-10						11.478	5.854	8.045	6.113	8.574	13.723	9.827	3.130	8.990								
18-Oct-10																		23.4	14.51	14.5		42.535
3-Nov-10						11.446	5.856	8.263	6.115	8.764	13.776	9.779	3.114	8.895								
15-Nov-10				8.901																		
24-Jan-11						11.294	5.882	8.248	6.117	9.743	14.005	9.785	3.124	8.897				23.785	14.732	14.252	9.269	42.518
26-Jan-11																						
3-Feb-11	5.997	8.974	9.766	9.056											4.832	4.832	37.935					
					NR	Not recorded																
					*: depth to bottom of hole GW-94-05 (V38) checked as 14.7m on Sep 15/98.																	
Note: Sept. 3, 2010 V37 water level (btoc) of 5.815m at V37 was removed from dataset as was likely erroneous, based on water level DES quality control check completed Nov 15, 2010;																						

Table H-71: Vangorda Waste Rock Dump Piezometers - Static Water Levels and Piezometric Elevations

Top of Pipe Elevations (masl)																						
	V34	V35	V36	V37	V38	V39	V40	V41	V42	V43	V44	V45	V46	V47				DH1	DH2	DH3	DH4	DH5
	GW-94-01	GW-94-02	GW-94-03	GW-94-04	GW-94-05	P-94-01A	P-94-01B	P-94-02A	P-94-02B	P-94-02C	P-94-03A	P-94-03B	P-94-04A	P-94-04B	P2001-02A	P2001-02B	P2001-03	PW-10-01	PW-10-02	PW-10-03	PW-10-04	PW-10-05
	1117.445	1117.405	1118.431	1116.165	1101.673	1136.555	1136.493	1138.41	1138.332	1129.84	1134.373	1134.459	1134.609	1134.327	1122.78	1122.77	1120	1149.08	1139.30	1137.72	1141.69	1180.39
Piezometric Elevation (masl)																						
Date	V34	V35	V36	V37	V38	V39	V40	V41	V42	V43	V44	V45	V46	V47				DH1	DH2	DH3	DH4	DH5
	GW-94-01	GW-94-02	GW-94-03	GW-94-04	GW-94-05	P-94-01A	P-94-01B	P-94-02A	P-94-02B	P-94-02C	P-94-03A	P-94-03B	P-94-04A	P-94-04B	P2001-02A	P2001-02B	P2001-03	PW-10-01	PW-10-02	PW-10-03	PW-10-04	PW-10-05
3-May-94	1109.165	1103.075	1107.151	1101.835	1090.113	1124.185	1130.443	1127.840	1132.212	1116.760	1120.273	1124.659	1122.439	1125.337								
21-Jun-94	1109.995	1108.755	1109.281	1106.515																		
30-Jun-95						1128.765	1130.873	1130.390	1132.222	1120.820	1120.463	1124.659	1123.259	1125.337								
13-Jul-95						1128.755	1130.903															
30-Jul-95						1128.695	1131.013	1130.420	1132.212	1121.030	1120.693	1124.659	1122.779	1125.337								
26-Aug-95	1110.555	1108.935		1107.115																		
31-Aug-95	1110.085					1128.625	1131.643	1130.440	1132.272	1121.180	1120.753		1122.009									
17-Oct-95	1110.305	1109.145		1106.795		1128.655	1132.263	1129.710	1132.572	1121.300	1120.963		1122.729									
20-Nov-95	1110.345	1109.225		1106.975																		
13-Mar-96	1110.005	1108.175		1106.775																		
28-May-96	1109.945	1108.065	1108.431	1105.915		1128.215	1131.113	1128.470	1132.212	1120.470	1120.253		1121.839									
24-Sep-96	1109.945	1109.975	1110.481	1106.995		1126.155	1131.193	1130.110	1132.212	1121.180	1120.693	1124.579	1121.809	1125.337								
13-May-97	1110.605	1107.990	1108.476	1106.635		1127.385	1130.823	1130.670	1131.932	1120.330	1121.593	1124.499	1121.829	1124.707								
11-Jul-97						1126.755	1130.593	1130.490	1132.212	1120.870	1120.273	1124.659	1124.639	1125.327								
11-Aug-97	1110.695	1109.025	1110.021	1107.355	1099.683	1126.965	1131.243	1130.310	1132.082	1121.070	1121.533	1124.499	1121.989	1125.117								
14-Oct-97	1110.685	1108.825	1109.281	1107.175		1127.045	1131.533	1130.420	1132.102	1120.900	1121.413	1124.499	1121.879	1125.117								
23-Dec-97	1110.745	1108.355	1108.901	1107.035		1127.305	1131.733	1130.730	1132.262	1120.890	1121.673	1124.649	1121.949	1125.307								
31-May-98	1110.725	1108.805	1108.701	1106.575	1099.813	1127.035		1130.360		1120.640		1124.509	1121.839	1125.127								
25-Jul-98						1126.355		1130.370		1120.730			1121.819									
15-Sep-98	1110.775	1108.555	1108.911	1107.065	1099.273	1126.535		1130.430		1120.620			1121.779									
16-Nov-98						1126.235		1130.480		1120.780												
31-Dec-98	1110.745	1108.345	1108.521	1106.935																		
18-Jun-99	1110.565	1108.165	1108.191	1105.985		1126.595		1130.060		1120.360												
12-Oct-99	1110.835	1109.825	1109.621	1107.375		1126.545		1130.250		1121.020												
31-May-00	1111.695	1108.725	1110.171	1106.835	1099.833	1126.355		1130.560	1132.402	1120.870			1121.949	1125.447								
5-Sep-00	1110.785																					
9-Oct-00	1112.465	1113.445	1111.531	1107.815	1100.743																	
9-Jul-01						1126.135	1131.653	1129.550	1130.612	1124.380	1121.533	1124.679	1123.769	1125.447								
11-Jun-02															1118.060	1118.010	1090.000					
4-Sep-02						1125.805	1131.193	1130.420	1132.312	1120.515	1120.848	1124.679		1125.417								
27-May-03						1125.985	1131.433	1130.590	1132.462	1120.640	1120.298	1124.679		1125.397								
5-Jun-03															1118.120	1118.120						
9-Sep-03						1125.910	1131.453	1130.570	1132.462	1120.690	1120.513	1124.679		1125.397								
8-May-04						1125.945	1131.233	1130.380	1132.397	1120.635	1120.298	1124.679		1125.352								
8-Jun-04															1118.140	1118.150						
8-Sep-04						1125.835	1131.293	1130.620	1132.562	1120.400	1120.293	1124.679		1125.337								
22-Sep-04															1118.000	1117.720						
3-May-05															1117.680							
19-May-05						1126.290	1131.412	1130.930	1132.712	1120.959	1121.528	1124.679		1125.337								
8-Sep-05															1118.020							
9-Sep-05						1126.185	1131.609	1130.970	1132.887	1120.930	1121.098	1124.679		1125.337								
16-May-06						1125.855	1131.103	1130.320	1132.222	1120.490	1120.293	1124.679										
7-Jun-06															1118.040	1117.940						
11-Sep-06						1125.515	1130.953	1130.420	1132.492	1120.670	1120.483	1124.679										
19-Sep-06															1117.910	1117.810						
10-May-07						1125.940	1130.603	1130.465	1132.212	1120.270	1120.303	1124.689		1125.337								
29-May-07	1110.925	1108.245	1108.442												1117.670	1117.630	1081.640					
3-Jun-07				1106.890																		
27-Aug-07						1125.615	1130.458	1130.200	1132.212	1120.960	1120.333	1124.679		1125.337								
11-Oct-07	1111.235	1111.205		1107.345											1117.840	1117.785						
4-Jun-08	1111.408	1109.965	1110.629	1107.411											1119.262	1119.225	1089.500					
18-Sep-08	1112.366	1112.305	1110.079	1107.862		1129.700	1132.088	1131.095	1133.322	1121.240	1121.908	1124.639		1125.442	1118.998	1118.986						
30-May-09		1109.799	1110.279																			
31-May-09	1111.728			1107.395																		
12-Sep-09	1111.909	1109.884	1109.431	1107.507											1118.454	1118.310	1082.879					
3-Feb-10						1126.241	1131.383	1130.793	1132.392		1123.503	1124.679		1125.442								
15-May-10						1125.876	1130.928	1130.571	1132.250	1121.323	1122.736	1124.683		1125.441								
12-Jun-10															1118.190	1118.430	1083.000					
27-Jun-10						1125.486	1130.774	1130.479	1132.207	1120.977	1120.798	1124.683		1125.437								
13-Jul-10						1124.849	1130.661	1130.265	1132.215	1124.133	1120.738	1124.679		1125.428								
4-Aug-10						1124.852	1130.645	1130.238	1132.209	1121.108	1120.689	1124.671		1125.429								
3-Sep-10	1111.543	1112.130	1109.027			1124.817	1130.680	1130.221	1132.151	1120.817	1120.707	1124.681		1125.438								
15-Sep-10															1118.213	1117.904	1082.190					
20-Sep-10																						
14-Oct-10						1125.077	1130.639	1130.365	1132.219	1121.266	1120.650	1124.632		1125.337								
18-Oct-10																		1125.68	1124.79	1123.22		1137.86
3-Nov-10						1125.109	1130.637	1130.147	1132.217	1121.076	1120.597	1124.680		1125.432								
15-Nov-10				1107.264																		
24-Jan-11						1125.261	1130.611	1130.162	1132.215	1120.097	1120.368	1124.674		1125.430				1125.30	1124.57	1123.47	1132.42	1137.87
26-Jan-11																						
3-Feb-11	1111.448	1108.431	1108.665	1107.109											1117.948	1117.938	1082.065					