

**APPENDIX A**  
**Water Levels in Inyan Kara Wells**



Monitor Well Water Level Data, Dewey-Burdock Project Area

Well ID	Easting*	Northing*	Completion Zone	Total Depth	Top of Casing Elevation	Measure Point Elevation	Water Level Elevation						Avg. W.L. Elevation	Max. W.L. Elevation	Min. W.L. Elevation	Standard Deviation
							8/30/2010	12/13/2010	1/17/2011	2/21/2011	3/21/2011	4/25/2011				
	(ft)	(ft)	-	(ft)	(ft amsl)	(ft amsl)	(ft amsl)	(ft amsl)	(ft amsl)	(ft amsl)	(ft amsl)	(ft amsl)	(ft amsl)	(ft amsl)	(ft amsl)	(ft)
12	995,377	434,379	Chilson	805	3641.14	3641.51	3653.19	3653.46	3654.06	3654.26	3654.09	3654.55	3653.94	3654.55	3653.19	0.511
14	1,002,103	434,723	Fall River	300	3669.88	3669.88	NM	3662.91	3663.07	3663.02	3663.05	3663.15	3663.04	3663.15	3662.91	0.087
38	992,727	442,290	Fall River	494	3638.75	3639.63	3644.96	3646.23	3644.76	3646.61	3646.75	3647.01	3646.05	3647.01	3644.76	0.960
49	987,331	444,023	Fall River	600	3620.86	3621.27	3648.59	3642.36	3642.34	NM	3644.64	3645.47	3644.68	3648.59	3642.34	2.587
436	989,849	454,701	Fall River	590	3739.85	3739.85	NM	3707.48	3707.56	3707.31	3707.36	3707.31	3707.40	3707.56	3707.31	0.111
607	980,219	416,378	Fall River	265	3610.55	3610.58	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
608	980,229	416,455	Chilson	?	3609.26	3609.15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
609	990,133	447,808	Chilson	1000	3700.67	3700.67	3688.50	3688.85	3686.81	3687.76	3687.75	3688.05	3687.95	3688.85	3686.81	0.707
610	989,998	447,970	Fall River	680	3704.85	3704.85	3691.75	3691.74	3691.51	3691.45	3691.33	3691.52	3691.55	3691.75	3691.33	0.166
611	990,234	453,955	Chilson	804	3737.36	3737.36	NM	3691.99	3690.77	3691.03	3691.32	3691.26	3691.27	3691.99	3690.77	0.455
612	990,153	454,129	Chilson	800	3732.34	3732.34	NM	3694.04	3692.69	3692.90	3693.17	3693.15	3693.19	3694.04	3692.69	0.514
613	990,523	453,776	Fall River	580	3736.93	3736.93	3700.03	3700.20	3700.25	3700.02	3700.00	3700.03	3700.09	3700.25	3700.00	0.108
615	990,571	453,709	Chilson	800	3741.00	3741.00	3689.31	3689.79	3688.49	3688.72	3688.99	3688.99	3689.05	3689.79	3688.49	0.457
616	990,531	453,135	Chilson	835	3751.04	3751.04	NM	3693.43	3692.16	3692.40	3692.63	3692.60	3692.64	3693.43	3692.16	0.478
617	989,425	453,583	Chilson	810	3725.55	3725.55	NM	3692.35	3691.11	3691.33	3691.58	3691.53	3691.58	3692.35	3691.11	0.469
622	991,175	454,034	Chilson	780	3754.91	3754.91	3692.85	3693.33	3692.03	3692.24	3692.50	3692.47	3692.57	3693.33	3692.03	0.463
623	991,085	454,312	Fall River	580	3753.28	3753.28	3708.51	3708.64	3708.65	3708.50	3708.53	3708.55	3708.56	3708.65	3708.50	0.066
628	990,895	449,719	Fall River	520	3731.99	3731.99	3694.78	3694.93	3694.77	3694.69	3694.42	3694.68	3694.71	3694.93	3694.42	0.169
631	1,002,576	449,310	Fall River	80	3745.37	3745.37	3716.86	3716.95	3716.92	3717.11	3717.37	3717.41	3717.10	3717.41	3716.86	0.237
657	989,882	454,730	Chilson	800	3747.58	3747.58	NM	3693.34	3692.06	3692.28	3692.48	3692.53	3692.54	3693.34	3692.06	0.485
680	1,003,477	429,969	Chilson	436	3701.94	3701.94	3661.02	3660.69	3661.06	3661.09	3661.07	3661.45	3661.06	3661.45	3660.69	0.241
681	988,728	443,725	Fall River	600	3626.99	3630.31	3649.22	3643.89	3644.21	NM	3646.05	3646.63	3646.00	3649.22	3643.89	2.146
682	1,003,538	431,258	Chilson	460	3718.24	3718.24	3665.40	3665.14	3665.49	3665.54	3665.45	3665.75	3665.46	3665.75	3665.14	0.199
683	988,611	446,105	Fall River	650	3663.66	3666.64	3662.67	3659.52	3658.88	NM	3660.21	3660.57	3660.37	3662.67	3658.88	1.440
684	1,003,590	429,744	Chilson	423	3689.04	3689.04	NM	3661.57	3661.96	3661.96	3661.95	3662.34	3661.96	3662.34	3661.57	0.272
685	989,088	443,410	Fall River	595	3627.85	3630.35	<b>3666.83</b>	3642.12	3642.58	NM	3645.51	3646.14	3644.09	3666.83	3642.12	10.322
686	1,003,369	429,750	Chilson	428	3692.06	3692.06	NM	3661.23	3661.52	3661.56	3661.48	3661.96	3661.55	3661.96	3661.23	0.263
687	988,480	443,725	Fall River	608	3623.84	3624.79	NM	3641.48	3641.58	NM	3643.99	3644.39	3642.86	3644.39	3641.48	1.545
688	1,003,426	429,974	Fall River	255	3701.26	3701.26	3663.36	3662.81	3663.09	3663.08	3663.06	3663.37	3663.13	3663.37	3662.81	0.211
689	988,715	443,789	Chilson	730	3627.27	3629.69	3684.72	3684.10	3678.86	NM	3684.23	3683.99	3683.18	3684.72	3678.86	2.431
691	988,763	443,698	Fall River	505	3628.88	3630.29	3646.65	3643.51	3643.58	NM	NM	3646.12	3644.97	3646.65	3643.51	1.654
692	1,003,474	430,014	Chilson	335	3704.98	3704.98	NM	3663.21	3663.54	3663.57	3663.54	3663.83	3663.54	3663.83	3663.21	0.220
694	997,116	426,836	Fall River	392	3598.29	3600.69	<b>3650.25</b>	3640.12	3641.29	3641.20	3641.28	3641.64	3641.11	3650.25	3640.12	3.768
695	990,783	439,313	Fall River	508	3597.80	3599.12	<b>3638.98</b>	3634.18	3633.64	3634.95	3634.42	3634.95	3634.43	3638.98	3633.64	1.923
696	996,937	427,142	Chilson	587	3597.96	3599.91	<b>3641.09</b>	3649.16	3649.78	3649.60	3649.58	3650.74	3649.77	3650.74	3641.09	3.583
697	990,748	439,347	Chilson	682	3597.69	3600.30	3679.68	3675.76	3670.51	3678.16	3672.58	3672.69	3674.90	3679.68	3670.51	3.571
698	1,004,308	435,651	Fall River	205	3714.25	3714.25	3679.28	3679.45	3679.38	3679.22	3679.21	3679.35	3679.32	3679.45	3679.21	0.095
705	997,023	453,315	Chilson	460	3826.42	3826.42	NM	3709.77	3709.62	3709.41	3709.53	3709.64	3709.59	3709.77	3709.41	0.134
706	996,988	453,276	Fall River	316	3824.32	3824.32	NM	3725.19	3725.32	3725.10	3725.29	3725.15	3725.21	3725.32	3725.10	0.093
3026	1,012,037	432,833	Chilson	196	3820.48	3820.48	3680.30	3680.89	3680.78	3680.38	3680.46	3680.58	3680.57	3680.89	3680.30	0.231

ft - feet

ft amsl - feet above mean sea level

NM- Not measured

\*Coordinates are South Dakota State Plane South, North American Datum 1983

Values in red and italicized not used to calculate average