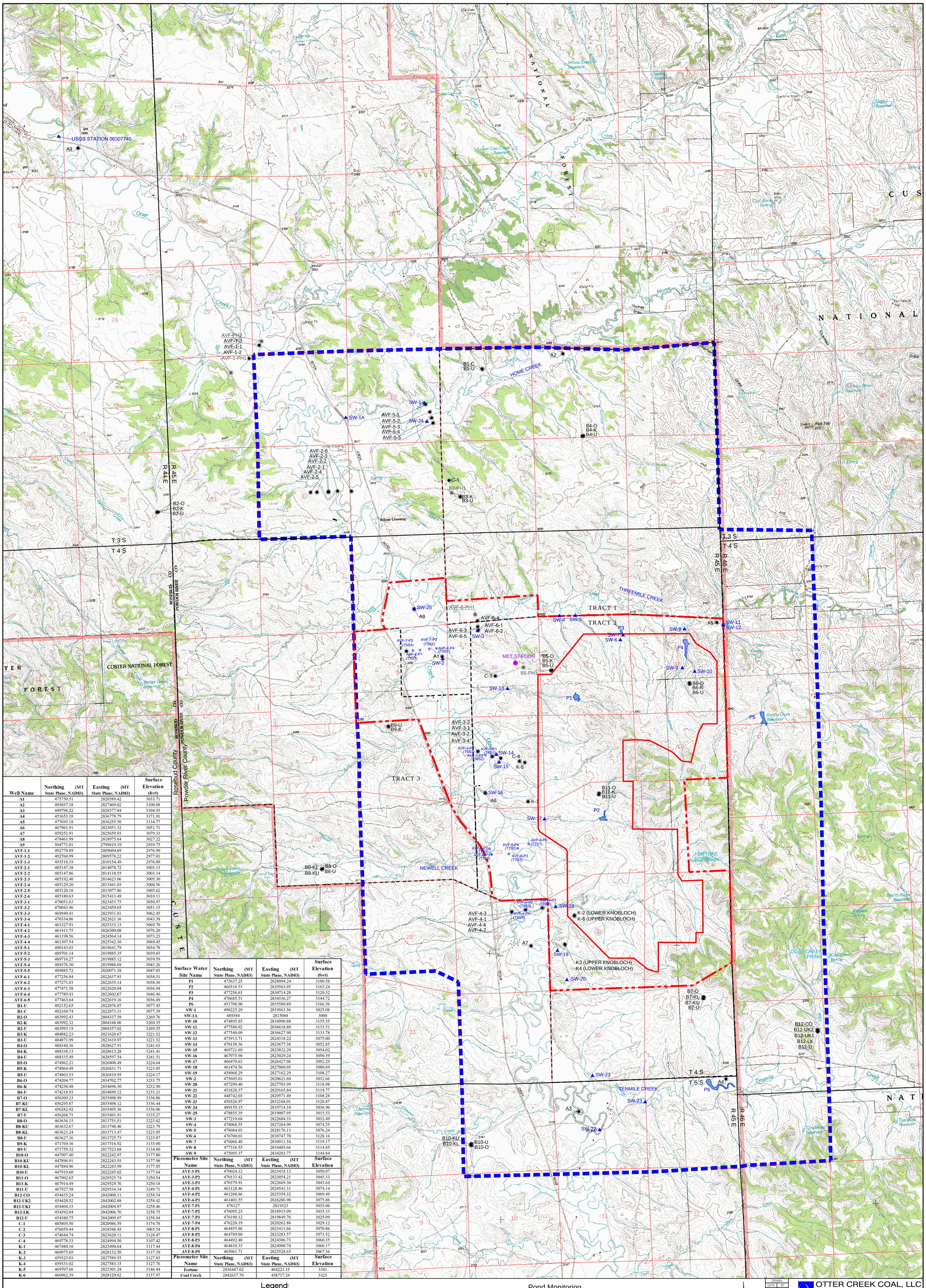

Well Name	Northing (MT State Plane, NAD83)	Easting (MT State Plane, NAD83)	Surface Elevation (feet)
A1	475750.51	2820589.42	3033.71
A2	493037.18	2827469.82	3100.88
A3	449796.22	2828377.84	3104.93
A4	451653.18	2836778.79	3171.91
A5	477695.18	2836255.50	3134.77
A6	467961.91	2823051.32	3051.71
A7	459251.91	2825659.93	3079.33
A8	478461.99	2818975.64	3027.22
A9	504771.01	2799819.19	2939.75
AVF-1-1	492770.89	2809604.69	2976.90
AVF-1-2	492760.99	2809578.22	2977.01
AVF-1-3	493518.19	2810154.49	2976.09
AVF-2-1	485147.38	2814078.72	3003.13
AVF-2-2	485147.86	2814118.55	3003.14
AVF-2-3	485192.40	2814623.06	3005.30
AVF-2-4	485129.20	2813441.03	3004.56
AVF-2-5	485120.10	2813077.86	3005.62
AVF-2-6	485180.63	2815413.49	3010.11
AVF-3-1	470051.63	2823451.75	3050.97
AVF-3-2	470043.96	2823459.65	3051.15
AVF-3-3	469949.41	2823931.81	3062.45
AVF-3-4	470334.06	2822621.16	3043.38
AVF-4-1	461327.91	2825333.13	3069.70
AVF-4-2	461411.75	2826300.08	3076.20
AVF-4-3	461198.56	2824564.14	3073.23
AVF-4-4	461307.54	2825342.30	3069.45
AVF-5-1	490143.03	2819641.79	3034.78
AVF-5-2	489701.14	2819885.35	3039.83
AVF-5-3	489716.27	2819885.12	3039.59
AVF-5-4	489376.30	2819988.69	3043.26
AVF-5-5	489085.72	2820071.38	3047.03
AVF-6-1	477256.84	2822637.93	3038.31
AVF-6-2	477271.83	2822635.14	3038.36
AVF-6-3	477471.58	2822620.04	3036.94
AVF-6-4	477789.43	2822602.67	3046.46
AVF-6-5	477463.64	2822619.16	3036.69
B1-U	492152.65	2822876.07	3077.45
B1-C	492160.74	2822873.31	3077.39
B2-O	483992.43	2804337.58	3269.76
B2-K	483992.32	2804348.00	3269.35
B2-U	483993.19	2804357.02	3269.55
B3-K	484882.23	2821620.67	3221.52
B3-U	484871.99	2821619.97	3221.32
B4-O	488340.36	2828627.91	3241.63
B4-K	488338.13	2828613.28	3241.41
B4-U	488335.49	2828597.54	3241.51
B5-O	474962.21	2826808.49	3224.64
B5-K	474964.49	2826831.71	3223.85
B5-U	474963.53	2826819.95	3224.17
B6-O	474204.77	2834702.77	3233.75
B6-K	474230.48	2834696.30	3232.90
B6-U	474218.93	2834699.12	3233.21
B7-O	456309.23	2835498.99	3336.86
B7-KU	456295.87	2835498.12	3336.44
B7-KL	456282.92	2835495.36	3336.06
B7-U	456268.71	2835491.91	3335.27
B8-O	463636.15	2813751.51	3223.82
B8-KU	463632.67	2813740.46	3223.79
B8-KL	463623.24	2813713.47	3223.85
B8-U	463627.36	2813725.73	3223.87
B9-K	471769.36	2817516.92	3135.00
B9-U	471759.32	2817523.68	3134.60
B10-O	447907.40	2822242.97	3177.80
B10-KU	447896.91	2822243.93	3177.98
B10-KL	447884.96	2822243.99	3177.85
B10-U	447919.60	2822245.02	3177.64
B11-O	467902.65	2829525.74	3250.54
B11-K	467914.49	2829529.76	3250.18
B11-U	467927.58	2829534.34	3249.71
B12-CO	454435.24	2842000.11	3258.54
B12-UK2	454420.52	2842002.88	3258.42
B12-UK1	454404.33	2842004.87	3258.46
B12-LK	454392.04	2842006.76	3258.75
B12-U	454380.75	2842009.07	3258.84
C-1	485805.50	2820986.59	3174.78
C-2	476059.44	2818546.45	3065.54
C-3	474644.74	2823620.11	3128.47
C-4	469778.33	2824994.50	3107.42
K-1	467480.10	2825490.64	3117.44
K-2	460975.69	2828132.50	3137.39
K-3	459323.03	2827589.55	3127.83
K-4	459331.02	2827583.15	3127.76
K-5	469707.66	2825301.24	3146.44
K-6	460962.39	2828129.62	3137.97

Surface Water Site Name	Northing (MT State Plane, NAD83)	Easting (MT State Plane, NAD83)	Surface Elevation (feet)
P1	473637.25	2828094.24	3180.58
P2	466518.53	2829563.05	3165.24
P3	477256.63	2830714.28	3120.32
P4	476685.51	2834336.27	3144.72
P6	451708.90	2835580.89	3166.56
SW-1	490225.29	2819563.56	3025.08
SW-1A	489384	2815088	3000
SW-10	474895.85	2834990.88	3155.55
SW-11	477580.92	2836618.80	3133.51
SW-12	477540.09	2836627.90	3133.78
SW-13	473913.71	2824318.22	3075.00
SW-14	470158.36	2823677.38	3052.85
SW-15	469721.69	2823832.20	3054.02
SW-16	467975.90	2823029.24	3050.39
SW-17	466470.63	2826427.06	3092.29
SW-18	461474.56	2827060.05	3080.69
SW-19	458968.29	2827162.29	3108.27
SW-2	475605.01	2820621.60	3032.66
SW-20	457299.40	2827703.99	3118.98
SW-21	451828.37	2829165.84	3114.77
SW-22	448742.03	2829571.49	3108.28
SW-23	450326.97	2832168.01	3128.87
SW-24	489159.15	2819714.10	3036.90
SW-25	478855.39	2819007.95	3015.53
SW-3	477219.68	2822604.33	3032.49
SW-4	478068.55	2827264.90	3074.55
SW-5	478084.03	2828176.13	3076.24
SW-6	476700.01	2830747.70	3128.16
SW-7	476966.40	2830911.54	3119.17
SW-8	477316.55	2834405.66	3114.85
SW-9	475095.37	2834283.77	3144.84

Piezometer Site Name	Northing (MT State Plane, NAD83)	Easting (MT State Plane, NAD83)	Surface Elevation
AVF-3-P1	470024.12	2823418.12	3050.07
AVF-3-P2	470133.42	2823054.21	3045.33
AVF-3-P3	470379.91	2822669.30	3043.64
AVF-4-P1	461128.46	2824541.31	3074.14
AVF-4-P2	461288.86	2825354.32	3069.49
AVF-4-P3	461403.55	2826286.90	3075.86
AVF-7-P1	476127	2819323	3035.06
AVF-7-P2	476095.23	2818915.09	3035.33
AVF-7-P3	476190.12	2819849.76	3029.09
AVF-7-P4	476220.19	2820262.86	3029.12
AVF-8-P1	464455.86	2823411.66	3070.86
AVF-8-P2	464789.80	2823283.57	3073.52
AVF-8-P3	464492.40	2824386.73	3060.35
AVF-8-P4	464810.33	2824900.74	3060.17
AVF-8-P5	465061.71	2825528.65	3067.36

Piezometer Site Name	Northing (MT State Plane, NAD83)	Easting (MT State Plane, NAD83)	Surface Elevation
Fortune	2836447.02	464221.15	3341
Coal Creek	2842637.70	458717.24	3325

Legend:

- Mining Area
- Mine Permit Boundary
- Tract Boundary
- Township Lines
- Section Lines
- Tract 2 Primary Study Area
- Suface Water Monitoring Station — SW-21
- Piezometer — AVF-8-P5 (T7S1)
- Pond Monitoring Location — P3
- Monitoring Well Location — K-3
- Spring Location — FORTUNE SPRING
- Borehole — B5-PH1

Hydrometrics, Inc.
Consulting Scientists and Engineers

USGS QUADS: Willow Crossing, Coleman Draw, King Mountain, & Yager Butte

SCALE 0 – 1,500 feet 1"=1,500'
Montana State Plane NAD83 US Feet

DRAWN	
DATE	BY
5/31/12	jas
REVISED	
DATE	BY
APPROVED	
DATE	BY

OTTER CREEK COAL, LLC
P.O. BOX 7152 Billings, Mt. 59103

Otter Creek Mine
Permit ID: C2012018

Environmental Monitoring Locations

FILE NAME: MAP10_ENVIRONMENTAL_MONITORING_LOCATIONS_R1_2014.DWG
LAYOUT: MAP 10
Path: I:\LAND PROJECTS\OTRCR\DWG\MINE PERMIT