

APPENDIX F
XRF ANALYTICAL ANALYSES RESULTS

Appendix F – XRF Solids Analysis

Study ID	Date/Time	Aluminum Result (ppm)	Aluminum Error (ppm)	Antimony Result (ppm)	Antimony Error (ppm)	Arsenic Result (ppm)	Arsenic Error (ppm)	Barium Result (ppm)	Barium Error (ppm)	Bismuth Result (ppm)	Bismuth Error (ppm)
BR-30-SL-029	07/29/13	71,500	80.0	15.9	0.800	5.00	0.500	12,400	30.0	28.8	0.600
WP-02-SL-036	07/24/13	75,800	100	26.8	0.700	33.2	0.500	29,000	40.0	1.00	0.000
WP-03-SL-038	07/26/13	124,000	100	3.00	0.000	16.5	0.400	1,480	14.0	1.00	0.000
WP-03-SL-065	11/08/13	94,400	120	25.5	0.400	36.7	0.700	74,300	80.0	0.700	0.100
WP-04-SL-001	06/17/13	231,000	200	5.50	0.600	16.1	0.500	4,000	15.0	1.00	0.000
WP-04-SL-002	06/17/13	111,000	100	3.00	0.000	8.00	0.300	9,620	23.0	1.00	0.000
WP-04-SL-003	06/17/13	121,000	100	3.00	0.000	10.3	0.300	5,390	18.0	1.00	0.000
WP-04-SL-004	06/17/13	120,000	100	3.00	0.000	8.70	0.400	14,200	30.0	1.00	0.000
WP-04-SL-005	06/17/13	127,000	100	9.30	0.500	10.6	0.400	12,900	30.0	1.00	0.000
WP-04-SL-006	06/17/13	126,000	100	3.00	0.000	10.3	0.400	3,510	15.0	1.00	0.000
WP-04-SL-007	06/17/13	111,000	100	3.00	0.000	7.10	0.300	2,690	14.0	1.00	0.000
WP-04-SL-008	06/17/13	117,000	100	3.00	0.000	12.5	0.400	4,920	17.0	1.00	0.000
WP-04-SL-009	06/20/13	42,900	80	3.00	0.000	11.1	0.500	169,000	100	1.00	0.000
WP-04-SL-010	06/20/13	64,100	120	3.00	0.000	11.3	0.500	149,000	100	1.00	0.000
WP-04-SL-011	06/20/13	84,200	110	15.4	0.200	6.40	0.400	87,500	90.0	0.200	0.200
WP-04-SL-012	06/20/13	71,600	110	19.6	0.300	20.1	0.500	101,000	100	1.00	0.300
WP-05-SL-027	07/08/13	150,000	200	22.2	0.700	15.2	0.800	33,400	50.0	1.00	0.00
WP-05-SL-028	07/08/13	191,000	200	4.00	0.000	24.6	0.600	17,600	30.0	0.400	0.100
WP-05-SL-029	07/08/13	209,000	300	78.2	1.90	9.00	0.500	5,990	21.0	1.00	0.000
WP-05-SL-030	07/08/13	117,000	200	25.3	0.500	9.80	0.500	54,400	70.0	1.00	0.000
WP-05-SL-031	07/08/13	173,000	200	11.9	0.600	21.1	0.500	16,200	30.0	1.00	0.000
WP-05-SL-032	07/08/13	107,000	200	24.7	0.600	13.7	0.900	43,200	50.0	1.00	0.000
WP-05-SL-033	07/08/13	146,000	200	20.6	0.700	11.9	0.600	27,600	40.0	1.00	0.000
WP-05-SL-034	07/08/13	102,000	100	12.2	0.400	15.2	0.700	26,400	40.0	1.00	0.000
WP-06-SL-014	07/01/13	108,000	100	3.00	0.000	14.5	0.300	6,070	19.0	1.00	0.000
WP-06-SL-015	07/01/13	121,000	100	3.00	0.000	18.6	0.400	15,800	30.0	1.00	0.000
WP-06-SL-016	07/01/13	122,000	100	3.00	0.000	10.6	0.300	2,060	14.0	1.00	0.000
WP-06-SL-017	07/01/13	114,000	100	3.00	0.000	10.4	0.400	1,720	13.0	1.00	0.000
WP-06-SL-018	07/01/13	40,100	210	7.90	0.900	0.500	0.000	1,140	14.0	1.00	0.000
WP-06-SL-019	07/01/13	44,500	180	3.00	0.000	0.900	0.300	1,370	15.0	1.00	0.000

Appendix F – XRF Solids Analysis

Study ID	Date/Time	Aluminum Result (ppm)	Aluminum Error (ppm)	Antimony Result (ppm)	Antimony Error (ppm)	Arsenic Result (ppm)	Arsenic Error (ppm)	Barium Result (ppm)	Barium Error (ppm)	Bismuth Result (ppm)	Bismuth Error (ppm)
WP-06-SL-020	07/01/13	34,500	100	3.00	0.000	1.70	0.300	2,360	14.0	1.00	0.000
WP-06-SL-021	07/01/13	89,500	320	13.7	1.70	2.20	0.400	668	15.0	1.00	0.000
WP-06-SL-022	07/01/13	168,000	200	4.00	0.000	11.2	0.500	904	12.0	1.00	0.000
WP-06-SL-023	07/01/13	103,000	200	4.00	0.000	2.00	0.300	318	11.0	1.00	0.000
WP-06-SL-024	07/08/13	59,200	350	4.80	0.9	1.90	0.300	384	12.0	1.00	0.000
WP-06-SL-025	07/08/13	138,000	200	4.00	0.000	11.0	0.400	809	12.0	1.00	0.000
WP-06-SL-026	07/08/13	116,000	400	4.00	0.000	2.30	0.400	1,250	15.0	1.00	0.000
WP-06-SL-037	07/25/13	35,100	180	5.10	0.100	37.7	2.70	130,000	100	1.00	0.000
WP-07-SL-039	08/05/13	127,000	100	3.00	0.000	14.1	0.300	731	11.0	1.00	0.000
WP-07-SL-040	08/05/13	128,000	100	3.00	0.000	16.6	0.400	891	12.0	1.00	0.000
WP-07-SL-041	08/05/13	118,000	100	3.00	0.000	12.4	0.400	915	12.0	1.00	0.000
WP-10-SL-045	08/26/13	52,500	70.0	5.40	0.600	3.70	0.400	2,780	15.0	1.00	0.000
WP-10-SL-048	08/30/13	67,100	90.0	12.8	0.300	31.8	1.40	66,000	70.0	1.00	0.000
WP-11-SL-047	08/27/13	68,500	250	27.9	1.30	0.300	0.300	5,110	20.0	1.00	0.000
WP-11-SL-068	11/14/13	22,000	50.0	5.10	0.100	5.60	0.500	126,000	100	1.1	0.300
WP-12-SL-052	09/05/13	112,000	100	57.5	0.800	16.1	0.600	61,200	70.0	1.00	0.000
WP-12-SL-053	09/05/13	100,000	100	6.800	0.500	15.6	0.400	11,100	30.0	0.500	0.200
WP-12-SL-055	09/11/13	49,500	100	3.00	0.000	6.60	1.10	341,000	300	1.00	0.000
WP-12-SL-056	09/11/13	97,600	160	3.00	0.000	44.8	1.70	388,000	300	2.20	0.400
WP-13-SL-059	10/15/13	94,300	100	3.00	0.000	9.70	0.400	2,920	15.0	1.00	0.000
WP-13-SL-062	10/21/13	65,600	10.0	61.1	0.90	37.9	0.900	39,000	50.0	1.00	0.000
WP-14-SL-073	01/31/14	75,100	100	3.00	0.000	16.7	0.400	4,130	17.0	1.00	0.000
WP-14-SL-074	01/31/14	125,000	100	3.00	0.000	12.4	0.300	1,020	12.0	1.00	0.000
WP-14-SL-077	02/07/14	24,600	50.0	22.9	0.40	32.5	0.700	76,600	80.0	1.50	0.200
WP-14-SL-078	02/07/14	43,600	70.0	23.6	0.400	31.1	0.600	72,500	70.0	1.00	0.000
WP-14-SL-079	02/07/14	23,300	60.0	30.3	0.400	35.4	0.900	130,000	100	2.00	0.300
WP-15-SL-075	02/06/14	209,000	300	78.2	1.90	9.00	0.500	5,990	21.0	1.00	0.000

Appendix F – XRF Solids Analysis

Study ID	Bromine Result (ppm)	Bromine Error (ppm)	Cadmium Result (ppm)	Cadmium Error (ppm)	Calcium Result (ppm)	Calcium Error (ppm)	Cerium Result (ppm)	Cerium Error (ppm)	Cesium Result (ppm)	Cesium Error (ppm)	Chlorine Result (ppm)	Chlorine Error (ppm)
BR-30-SL-029	61.1	0.400	8.30	0.800	24,400	30.0	2.00	0.000	85.5	6.70	1,680	3.00
WP-02-SL-036	30.3	0.300	21.0	1.10	26,200	40.0	2.00	0.000	253	8.20	14,900	10.0
WP-03-SL-038	25.6	0.300	2.10	0.500	9,820	24.0	137	13.0	4.00	0.000	8,110	8.00
WP-03-SL-065	21.1	0.300	27.8	1.10	13,800	30.0	2.00	0.000	431	8.80	16,300	10.0
WP-04-SL-001	6.40	0.200	1.90	0.500	13,300	30.0	2.00	0.000	90.0	6.50	1,670	3.00
WP-04-SL-002	3.10	0.200	1.60	0.400	9,920	23.0	2.00	6.40	67.0	6.40	1,350	3.00
WP-04-SL-003	3.50	0.200	0.100	0.100	8,880	22.0	2.00	0.000	49.7	6.50	1,340	3.00
WP-04-SL-004	3.00	0.200	0.700	0.200	35,200	50.0	2.00	0.000	65.5	5.90	3,150	5.00
WP-04-SL-005	4.00	0.200	2.90	0.600	14,500	30.0	2.00	0.000	99.4	6.50	1,980	4.00
WP-04-SL-006	4.00	0.200	3.80	0.600	6,220	20.0	149	10.0	82.4	6.90	2,190	4.00
WP-04-SL-007	3.50	0.200	0.100	0.100	59,600	60.0	2.00	0.000	4.00	0.000	1,600	3.00
WP-04-SL-008	3.00	0.200	0.600	0.200	18,800	30.0	2.00	0.000	4.00	0.000	1,410	3.00
WP-04-SL-009	8.30	0.300	49.5	1.40	12,600	30.0	2.00	0.000	472	10.0	19,600	10.0
WP-04-SL-010	8.30	0.300	44.4	1.50	31,700	50.0	2.00	0.000	442	10.0	26,300	20.0
WP-04-SL-011	5.90	0.300	31.3	1.20	52,800	60.0	2.00	0.000	353	8.30	12,300	10.0
WP-04-SL-012	9.30	0.300	41.1	1.30	24,100	40.0	2.00	0.000	409	9.40	19,600	20.0
WP-05-SL-027	36.2	0.300	18.2	1.10	56,000	60.0	2.00	0.000	231	8.20	12,900	10.0
WP-05-SL-028	43.2	0.300	4.70	0.800	46,100	60.0	2.00	0.000	110	7.10	20,200	20.0
WP-05-SL-029	18.9	0.300	27.1	1.20	12,200	40.0	2.00	0.000	227	8.50	59,800	40.0
WP-05-SL-030	17.9	0.300	25.9	1.10	16,500	30.0	2.00	0.000	318	8.50	27,300	20.0
WP-05-SL-031	11.6	0.200	5.20	0.800	16,800	40.0	2.00	0.000	122	7.30	19,900	20.0
WP-05-SL-032	11.7	0.300	19.6	1.10	85,500	80.0	2.00	0.000	283	8.50	28,600	20.0
WP-05-SL-033	9.50	0.200	11.5	1.00	107,000	100	2.00	0.000	197	7.70	19,400	20.0
WP-05-SL-034	23.2	0.300	11.3	1.00	46,800	50.0	2.00	0.000	192	7.90	17,800	10.0
WP-06-SL-014	8.50	0.200	5.70	0.800	10,500	20.	2.00	0.000	55.1	7.10	1,560	3.00
WP-06-SL-015	8.40	0.200	9.00	0.900	8,390	21.0	2.00	0.000	4.00	0.000	2,400	4.00
WP-06-SL-016	12.8	0.200	1.30	0.300	15,100	30.0	23.2	5.30	4.00	0.000	1,320	3.00
WP-06-SL-017	11.2	0.200	6.70	0.800	19,500	30.0	40.2	7.50	4.00	0.000	1,170	3.00
WP-06-SL-018	434	1.00	2.00	0.000	98,400	100	166	16.0	4.00	0.000	149,000	100
WP-06-SL-019	559	1.20	0.10	0.100	110,000	100	2.00	0.000	4.00	0.000	98,800	60.0

Appendix F – XRF Solids Analysis

Study ID	Bromine Result (ppm)	Bromine Error (ppm)	Cadmium Result (ppm)	Cadmium Error (ppm)	Calcium Result (ppm)	Calcium Error (ppm)	Cerium Result (ppm)	Cerium Error (ppm)	Cesium Result (ppm)	Cesium Error (ppm)	Chlorine Result (ppm)	Chlorine Error (ppm)
WP-06-SL-020	622	1.20	2.50	0.500	173,000	100	87.0	10.0	4.00	0.000	27,600	20.0
WP-06-SL-021	537	1.10	0.300	0.100	73,300	100	190	20.0	94.0	11.0	91,900	60.0
WP-06-SL-022	534	1.10	2.00	0.000	159,000	100	93.0	11.0	70.3	7.80	24,300	20.0
WP-06-SL-023	165	0.600	2.00	0.000	201,000	100	2.00	0.000	37.1	6.20	23,700	20.0
WP-06-SL-024	1,220	2.00	2.00	0.000	90,900	90.0	169	14.0	105	9.10	165,000	100
WP-06-SL-025	712	1.30	2.00	0.000	194,000	100	123	12.0	75.4	8.00	27,900	20.0
WP-06-SL-026	1,530	2.00	2.00	0.000	80,600	100	2.00	0.000	4.00	0.000	153,000	100
WP-06-SL-037	45.8	0.600	45.8	1.80	48,800	60.0	2.00	0.000	350	11.0	127,000	100
WP-07-SL-039	8.30	0.200	2.00	0.000	6,620	21.0	94.0	10.0	4.00	0.000	574	1.90
WP-07-SL-040	5.40	0.200	1.00	0.300	12,400	30.0	2.00	0.000	4.00	0.000	583	1.90
WP-07-SL-041	6.10	0.200	1.60	0.400	14,200	30.0	2.00	0.000	4.00	0.000	468	1.7
WP-10-SL-045	15.1	0.300	0.100	0.100	137,000	100	96.4	9.90	71.2	7.50	1,360	2.00
WP-10-SL-048	125	0.700	28.4	1.20	50,700	50.0	2.00	0.000	241	7.90	10,700	10.0
WP-11-SL-047	143	0.600	9.20	1.10	107,000	100	2.00	0.000	137	8.50	197,000	100
WP-11-SL-068	23.1	0.400	40.7	1.40	184,000	100	2.00	0.000	467	9.70	6,920	6.00
WP-12-SL-052	178	0.700	43.9	1.50	41,200	50.0	2.00	0.000	624	11.0	21,800	20.0
WP-12-SL-053	144	0.600	2.80	0.600	14,200	30.0	2.00	0.000	124	7.50	12,100	10.0
WP-12-SL-055	13.0	0.500	101	2.70	19,500	40.0	2.00	0.000	954	19.0	9,470	9.00
WP-12-SL-056	53.8	0.800	108	3.30	52,800	80.0	2.00	0.000	822	20.0	21,100	20.0
WP-13-SL-059	9.90	0.200	6.60	0.800	62,300	60.0	2.00	0.000	4.00	0.000	1,200	2.00
WP-13-SL-062	81.8	0.500	37.4	1.20	95,500	80.0	2.00	0.000	383	8.60	9,910	10.0
WP-14-SL-073	44.6	0.300	8.10	0.900	31,300	40.0	79.0	10.0	19.8	6.20	2,280	3.00
WP-14-SL-074	17.6	0.300	3.40	0.600	16,400	30.0	138	11.0	4.00	0.000	2,820	4.00
WP-14-SL-077	128	0.600	35.8	1.30	51,300	50.0	2.00	0.000	473	9.80	3,670	4.00
WP-14-SL-078	125	0.600	32.1	1.20	26,200	30.0	2.00	0.000	412	9.20	6,090	5.00
WP-14-SL-079	144	0.700	56.9	1.40	22,700	30.0	2.00	0.000	545	11.0	3,650	4.00
WP-15-SL-075	18.9	0.300	27.1	1.20	12,200	40.0	2.00	0.000	227	8.50	59,800	40.0

Appendix F – XRF Solids Analysis

Study ID	Chromium Result (ppm)	Chromium Error (ppm)	Cobalt Result (ppm)	Cobalt Error (ppm)	Copper Result (ppm)	Copper Error (ppm)	Gallium Result (ppm)	Gallium Error (ppm)	Germanium Result (ppm)	Germanium Error (ppm)
BR-30-SL-029	62.7	1.10	9.10	1.50	467	1.90	14.2	0.50	2.00	0.300
WP-02-SL-036	69.3	1.60	36.9	4.90	120	1.20	20.0	0.60	0.20	0.200
WP-03-SL-038	81.4	1.10	33.3	3.80	32.1	0.800	26.5	0.60	1.00	0.300
WP-03-SL-065	101	2.50	40.3	6.00	91.7	1.10	27.4	0.60	1.20	0.300
WP-04-SL-001	149	1.90	23.5	3.70	44.8	1.00	26.4	0.50	1.40	0.300
WP-04-SL-002	174	1.60	27.5	3.50	39.6	0.80	24.6	0.50	1.50	0.300
WP-04-SL-003	147	1.50	31.1	3.60	36.5	0.80	26.1	0.50	1.80	0.300
WP-04-SL-004	603	2.80	31.6	3.70	44.0	0.90	23.0	0.50	0.500	0.000
WP-04-SL-005	195	1.90	27.3	3.50	37.5	0.80	25.1	0.50	2.40	0.300
WP-04-SL-006	165	1.50	29.9	3.60	35.1	0.80	28.3	0.50	2.00	0.300
WP-04-SL-007	198	1.60	32.4	3.70	35.2	0.80	24.6	0.50	1.80	0.300
WP-04-SL-008	175	1.60	28.7	3.60	51.9	0.80	27.1	0.50	2.30	0.300
WP-04-SL-009	181	3.50	23.9	4.30	49.0	1.10	18.1	0.60	0.500	0.000
WP-04-SL-010	210	4.80	14.0	4.30	50.6	1.20	18.5	0.70	0.700	0.700
WP-04-SL-011	189	3.40	28.4	3.90	59.4	1.00	22.8	0.60	0.100	0.100
WP-04-SL-012	93.2	3.50	34.4	4.90	67.7	1.10	21.4	0.60	0.700	0.300
WP-05-SL-027	117	2.50	24.9	4.00	83.6	1.20	17.9	0.50	0.700	0.300
WP-05-SL-028	161	2.70	42.3	4.70	61.3	1.10	26.7	0.50	1.20	0.300
WP-05-SL-029	139	2.10	3.90	0.000	38.2	1.00	20.2	0.50	1.70	0.300
WP-05-SL-030	106	3.10	28.8	4.00	51.4	1.10	20.1	0.50	0.800	0.300
WP-05-SL-031	134	2.10	23.9	3.60	51.0	1.00	22.0	0.50	1.10	0.300
WP-05-SL-032	120	2.90	29.7	4.20	64.8	1.10	15.7	0.50	0.900	0.300
WP-05-SL-033	176	3.40	38.1	4.50	54.8	1.10	18.1	0.50	1.20	0.300
WP-05-SL-034	118	2.20	39.5	4.80	72.5	1.00	21.9	0.60	1.50	0.300
WP-06-SL-014	94.1	1.30	21.9	3.10	37.8	0.800	23.4	0.50	1.70	0.200
WP-06-SL-015	66.2	1.20	26.3	3.40	36.3	0.800	26.3	0.500	2.20	0.300
WP-06-SL-016	110	1.30	42.8	4.40	64.9	0.800	27.1	0.500	1.50	0.200
WP-06-SL-017	107	1.20	23.2	3.40	45.6	0.800	26.4	0.500	1.70	0.200
WP-06-SL-018	7,210	1.20	3.00	0.000	9.60	0.700	5.60	0.500	0.500	0.000
WP-06-SL-019	7,210	1.30	3.00	0.000	12.9	0.800	8.50	0.500	0.700	0.300

Appendix F – XRF Solids Analysis

Study ID	Chromium Result (ppm)	Chromium Error (ppm)	Cobalt Result (ppm)	Cobalt Error (ppm)	Copper Result (ppm)	Copper Error (ppm)	Gallium Result (ppm)	Gallium Error (ppm)	Germanium Result (ppm)	Germanium Error (ppm)
WP-06-SL-020	60.9	1.10	3.00	0.000	21.8	0.800	7.90	0.500	0.500	0.000
WP-06-SL-021	25.9	0.800	3.90	0.00	16.9	0.900	7.80	0.500	0.500	0.000
WP-06-SL-022	119	1.80	17.2	3.20	46.2	1.10	19.6	0.500	0.500	0.000
WP-06-SL-023	83.3	1.50	3.90	0.000	26.3	0.800	9.10	0.400	0.100	0.100
WP-06-SL-024	41.5	1.00	3.90	0.000	14.5	0.800	9.40	0.400	0.500	0.000
WP-06-SL-025	110	1.80	23.1	3.80	46.4	1.00	17.1	0.500	0.600	0.300
WP-06-SL-026	65.8	1.40	15.0	7.00	49.4	1.30	13.2	0.600	0.500	0.000
WP-06-SL-037	61.9	3.70	3.00	0.000	42.9	1.60	1.30	0.700	0.700	0.700
WP-07-SL-039	96.9	1.20	30.0	3.50	30.2	0.800	26.8	0.500	1.80	0.300
WP-07-SL-040	90.1	1.10	30.6	3.50	24.9	0.700	25.5	0.500	1.80	0.300
WP-07-SL-041	94.7	1.10	25.7	3.20	29.1	0.800	24.1	0.500	1.00	0.300
WP-10-SL-045	96.5	1.40	15.4	2.80	33.2	0.800	17.5	0.500	0.500	0.000
WP-10-SL-048	89.4	2.80	41.6	6.50	84.1	1.30	15.1	0.900	0.700	0.700
WP-11-SL-047	20.8	1.10	3.00	0.000	23.2	0.800	7.30	0.500	0.500	0.000
WP-11-SL-068	107	3.80	3.00	0.000	3,810	1.20	14.6	0.600	0.500	0.000
WP-12-SL-052	100	3.00	16.1	3.20	79.8	1.20	24.5	0.800	1.40	0.300
WP-12-SL-053	98.0	1.40	39.8	4.20	56.7	0.900	24.4	0.500	1.30	0.300
WP-12-SL-055	281	6.50	3.00	0.000	51.4	1.70	13.0	1.00	0.500	0.000
WP-12-SL-056	440	11.0	3.00	0.000	145	2.50	38.0	1.500	1.50	1.50
WP-13-SL-059	131	1.30	30.0	3.50	34.1	0.800	23.6	0.500	1.10	0.300
WP-13-SL-062	91.7	2.60	13.9	3.80	103	1.30	16.1	0.600	0.400	0.400
WP-14-SL-073	69.4	1.00	34.6	3.60	54.6	0.80	25.1	0.500	1.80	0.300
WP-14-SL-074	101	1.30	19.1	2.80	36.0	0.80	23.1	0.500	1.90	0.200
WP-14-SL-077	121	2.40	18.5	3.80	92.2	1.10	20.3	0.600	0.400	0.400
WP-14-SL-078	93.0	1.90	24.6	4.50	94.5	1.10	20.8	0.600	0.600	0.600
WP-14-SL-079	84.5	2.20	23.5	4.80	103	1.40	16.5	0.700	0.500	0.500
WP-15-SL-075	139	2.10	3.90	0.000	38.2	1.00	20.2	0.500	1.70	0.300

Appendix F – XRF Solids Analysis

Study ID	Hafnium Result (ppm)	Hafnium Error (ppm)	Iodine Result (ppm)	Iodine Error (ppm)	Iron Result (ppm)	Iron Error (ppm)	Lanthanum Result (ppm)	Lanthanum Error (ppm)	Lead Result (ppm)	Lead Error (ppm)
BR-30-SL-029	9.60	1.00	470	2.70	47,900	40.0	105	8.2	71.8	0.700
WP-02-SL-036	5.80	0.800	3.00	0.000	36,300	30.0	254	11	55	0.900
WP-03-SL-038	8.40	0.700	3.00	0.000	52,700	40.0	2.00	0.000	26.1	0.700
WP-03-SL-065	3.10	0.500	3.00	0.000	37,000	30.0	451	11.0	108	1.20
WP-04-SL-001	7.60	0.700	3.00	0.000	72,600	60.0	201	11.0	33.2	0.700
WP-04-SL-002	9.00	0.800	3.00	0.000	48,000	40.0	2.00	0.000	24.1	0.600
WP-04-SL-003	11.2	0.800	3.00	0.000	52,100	40.0	101	9.10	25.1	0.600
WP-04-SL-004	10.8	0.900	3.00	0.000	49,500	40.0	148	8.70	23.1	0.700
WP-04-SL-005	10.1	0.800	3.00	0.000	52,000	40.0	2.00	0.000	22.2	0.700
WP-04-SL-006	8.20	0.700	3.00	0.000	54,900	40.0	184	11.0	27	0.700
WP-04-SL-007	6.30	0.700	3.00	0.000	44,800	40.0	2.00	0.000	23.6	0.600
WP-04-SL-008	7.60	0.700	3.00	0.000	49,600	40.0	2.00	0.000	27.8	0.700
WP-04-SL-009	4.70	0.700	3.00	0.000	29,400	30.0	2.00	0.000	27.4	0.800
WP-04-SL-010	6.20	0.900	3.00	0.000	29,100	30.0	2.00	0.000	28.5	0.900
WP-04-SL-011	8.10	0.900	3.00	0.000	35,000	30.0	257	7.30	30.4	0.700
WP-04-SL-012	7.10	0.900	3.00	0.000	32,800	30.0	272	8.00	27.6	0.900
WP-05-SL-027	12.0	1.00	3.00	0.000	51,500	50.0	405	13.0	116	1.00
WP-05-SL-028	4.20	0.600	3.00	0.000	62,300	50.0	2.00	0.000	41.0	0.800
WP-05-SL-029	1.80	0.700	4.30	0.200	52,000	50.0	459	15.0	24.0	0.600
WP-05-SL-030	9.70	0.900	3.00	0.000	54,200	50.0	543	13.0	32.0	0.700
WP-05-SL-031	8.80	0.800	3.00	0.000	63,300	50.0	202	11.0	33.2	0.800
WP-05-SL-032	3.20	0.500	3.00	0.000	37,600	40.0	246	9.80	181	1.10
WP-05-SL-033	6.80	0.800	3.00	0.000	42,800	40.0	2.00	0.000	49.5	0.800
WP-05-SL-034	9.90	0.900	3.00	0.000	39,200	30.0	2.00	0.000	145	1.00
WP-06-SL-014	7.50	0.700	3.00	0.000	46,100	40.0	125	11.0	27.8	0.700
WP-06-SL-015	8.70	0.80	3.00	0.000	50,600	40.0	2.00	0.000	27.7	0.800
WP-06-SL-016	7.00	0.70	3.00	0.000	41,000	30.0	2.00	0.000	27.5	0.600
WP-06-SL-017	9.00	0.80	3.00	0.000	47,000	40.0	30.2	5.80	35.8	0.700
WP-06-SL-018	2.00	0.000	4.80	0.700	8,370	16.0	2.00	0.000	10.3	0.400
WP-06-SL-019	2.00	1.20	3.00	0.000	12,000	20.0	2.00	0.000	11.4	0.500

Appendix F – XRF Solids Analysis

Study ID	Hafnium Result (ppm)	Hafnium Error (ppm)	Iodine Result (ppm)	Iodine Error (ppm)	Iron Result (ppm)	Iron Error (ppm)	Lanthanum Result (ppm)	Lanthanum Error (ppm)	Lead Result (ppm)	Lead Error (ppm)
WP-06-SL-020	1.00	0.000	3.00	0.000	16,500	20.0	2.00	0.000	17.1	0.500
WP-06-SL-021	2.00	1.00	15.6	2.10	19,500	30.0	2.00	0.000	11.7	0.500
WP-06-SL-022	5.10	0.700	5.10	0.700	51,100	50.0	129	11.0	22.4	0.700
WP-06-SL-023	3.00	0.500	3.00	0.000	25,800	30.0	2.00	0.000	9.90	0.400
WP-06-SL-024	1.70	0.000	20.5	2.00	23,700	30.0	203	15.0	12.7	0.000
WP-06-SL-025	4.10	0.600	9.50	1.10	45,400	40.0	139	12.0	20.7	0.700
WP-06-SL-026	2.60	0.500	3.00	0.000	35,200	40.0	2.00	0.000	14.9	0.500
WP-06-SL-037	1.00	0.000	3.00	0.000	18,600	30.0	2.00	0.000	1,310	4.00
WP-07-SL-039	11.4	0.800	0.700	0.200	54,700	40.0	2.00	0.000	20.5	0.700
WP-07-SL-040	7.50	0.700	3.00	0.000	50,600	40.0	2.00	0.000	29.0	0.700
WP-07-SL-041	11.8	0.800	8.10	0.900	50,900	40.0	2.00	0.000	26.5	0.700
WP-10-SL-045	4.60	0.500	3.00	0.000	34,800	30.0	136	11.0	29.0	0.600
WP-10-SL-048	7.90	1.20	3.00	0.000	33,200	40.0	187	6.80	536	2.10
WP-11-SL-047	1.00	0.000	3.00	0.000	11,000	20.0	241	14.0	16.0	0.500
WP-11-SL-068	1.00	0.000	3.00	0.000	12,900	20.0	323	8.40	44.3	0.800
WP-12-SL-052	3.30	0.600	3.00	0.000	40,200	40.0	720	17.0	65.1	1.00
WP-12-SL-053	7.60	0.800	3.00	0.000	46,900	40.0	220	12.0	24.9	0.700
WP-12-SL-055	1.00	0.000	3.00	0.000	25,600	40.0	2.00	0.000	144	1.60
WP-12-SL-056	1.00	0.000	3.00	0.000	52,600	60.0	2.00	0.000	289	2.70
WP-13-SL-059	4.40	0.500	3.00	0.000	47,500	40.0	2.00	0.000	28.7	0.700
WP-13-SL-062	2.40	0.500	3.00	0.000	37,800	40.0	423	12.0	169	1.40
WP-14-SL-073	8.00	0.800	3.00	0.000	46,200	40.0	41.5	6.40	37.1	0.70
WP-14-SL-074	7.10	0.700	3.00	0.000	49,300	40.0	2.00	0.00	17.6	0.70
WP-14-SL-077	6.50	0.900	3.00	0.000	28,400	30.0	430	12.0	98.5	1.20
WP-14-SL-078	8.00	1.00	3.00	0.000	30,000	30.0	704	14.0	98.6	1.10
WP-14-SL-079	3.40	0.700	3.00	0.000	27,500	30.0	392	9.80	142	1.40
WP-15-SL-075	1.80	0.700	4.30	0.200	52,000	50.0	459	15.0	24.0	0.600

Appendix F – XRF Solids Analysis

Study ID	Magnesium Result (ppm)	Magnesium Error (ppm)	Manganese Result (ppm)	Manganese Error (ppm)	Mercury Result (ppm)	Mercury Error (ppm)	Molybdenum Result (ppm)	Molybdenum Error (ppm)	Nickel Result (ppm)	Nickel Error (ppm)
BR-30-SL-029	14,400	120	630	2.10	#N/A	#N/A	#N/A	#N/A	53.6	0.900
WP-02-SL-036	22,900	170	176	1.70	5.90	0.300	169	1.50	206	1.50
WP-03-SL-038	24,100	170	399	1.80	1.90	0.300	5.7	0.600	74.9	1.00
WP-03-SL-065	16,500	150	217	2.60	2.20	0.400	125	1.60	248	1.90
WP-04-SL-001	26,100	250	846	30.0	0.600	0.200	2.50	0.500	70.2	1.20
WP-04-SL-002	20,400	140	592	2.30	1.60	0.300	2.20	0.500	67.6	0.900
WP-04-SL-003	21,100	140	600	2.20	0.200	0.000	1.90	0.400	66.3	1.00
WP-04-SL-004	21,800	160	603	2.80	2.50	0.300	2.70	0.500	58.3	1.00
WP-04-SL-005	21,900	160	616	2.50	0.300	0.300	1.00	0.000	61.7	1.00
WP-04-SL-006	20,600	140	627	2.20	0.400	0.200	3.20	0.500	63.3	1.00
WP-04-SL-007	22,200	140	569	2.30	0.700	0.200	3.40	0.500	71.0	1.00
WP-04-SL-008	21,100	140	491	2.10	1.00	0.000	12.7	0.700	81.4	1.00
WP-04-SL-009	11,900	140	1.00	0.000	2.50	0.400	42.3	1.50	151	1.60
WP-04-SL-010	20,300	230	1.00	0.000	2.50	0.500	44.9	1.60	116	1.60
WP-04-SL-011	18,700	150	337	3.50	4.60	0.400	17.8	1.00	70.7	1.20
WP-04-SL-012	16,400	180	183	3.60	2.10	0.400	76.7	1.50	113	1.40
WP-05-SL-027	32,600	260	374	2.70	2.50	0.300	22.0	0.900	91.5	1.30
WP-05-SL-028	36,300	290	606	3.10	2.00	0.300	3.90	0.600	60.9	1.20
WP-05-SL-029	48,500	540	596	2.90	1.00	0.000	5.20	0.600	45.8	1.10
WP-05-SL-030	26,100	270	490	3.30	2.20	0.300	3.40	0.700	56.0	1.10
WP-05-SL-031	29,700	270	607	2.70	0.700	0.200	4.00	0.600	61.1	1.10
WP-05-SL-032	29,600	300	485	3.20	1.70	0.300	5.60	0.700	58.0	1.10
WP-05-SL-033	31,300	290	586	3.70	1.70	0.300	4.50	0.600	44.7	1.00
WP-05-SL-034	25,200	190	371	2.60	0.900	0.300	23.1	0.900	122	1.30
WP-06-SL-014	19,700	140	370	1.80	0.600	0.200	16.1	0.700	61.2	0.900
WP-06-SL-015	21,800	150	244	1.60	1.00	0.000	6.40	0.600	54.9	0.900
WP-06-SL-016	21,500	150	302	1.60	1.00	0.300	12.8	0.600	112	1.10
WP-06-SL-017	22,400	140	463	1.90	1.00	0.300	11.6	0.600	87.4	1.10
WP-06-SL-018	128,000	800	64.8	1.20	1.00	0.000	3.00	0.400	25.2	0.800
WP-06-SL-019	138,000	700	107	1.50	1.00	0.000	5.30	0.600	32.8	0.900

Appendix F – XRF Solids Analysis

Study ID	Magnesium Result (ppm)	Magnesium Error (ppm)	Manganese Result (ppm)	Manganese Error (ppm)	Mercury Result (ppm)	Mercury Error (ppm)	Molybdenum Result (ppm)	Molybdenum Error (ppm)	Nickel Result (ppm)	Nickel Error (ppm)
WP-06-SL-020	76,100	310	160	1.50	1.10	0.200	8.20	0.500	73.0	1.100
WP-06-SL-021	109,000	900	447	2.60	0.800	0.200	2.60	0.400	95.0	1.400
WP-06-SL-022	41,600	300	539	2.70	2.00	0.300	8.00	0.600	65.5	1.20
WP-06-SL-023	40,200	270	328	2.10	1.00	0.000	2.90	0.400	37.3	0.900
WP-06-SL-024	128,000	1,100	150	1.50	1.00	0.000	7.00	0.600	24.3	0.900
WP-06-SL-025	39,800	300	418	2.40	0.800	0.20	10.6	0.600	62.1	1.20
WP-06-SL-026	140,000	1,200	278	2.30	2.20	0.40	7.10	0.700	126	1.70
WP-06-SL-037	40,600	540	266	4.20	9.70	0.90	7.90	1.20	38.7	1.50
WP-07-SL-039	22,100	150	605	2.20	0.800	0.30	3.60	0.600	54.1	0.900
WP-07-SL-040	21,100	150	574	2.10	1.00	0.000	1.00	0.000	47.0	0.900
WP-07-SL-041	20,400	140	612	2.20	1.00	0.000	1.00	0.000	51.4	0.900
WP-10-SL-045	104,000	200	453	2.20	1.50	0.300	8.40	0.600	72.2	1.10
WP-10-SL-048	21,600	160	399	3.20	6.60	0.500	55.2	1.30	105	1.50
WP-11-SL-047	129,000	800	174	1.90	0.700	0.200	1.90	0.400	32.9	0.90
WP-11-SL-068	13,800	110	315	4.20	2.20	0.300	4.60	0.900	87.0	1.50
WP-12-SL-052	45,900	230	825	4.00	1.40	0.300	5.00	0.900	115	1.50
WP-12-SL-053	19,100	150	585	2.30	2.30	0.400	2.80	0.600	62.7	1.00
WP-12-SL-055	15,200	190	1.00	0.000	2.20	0.600	7.20	1.70	359	3.30
WP-12-SL-056	21,900	260	1.00	0.000	5.70	1.10	84.5	3.40	221	3.30
WP-13-SL-059	17,400	130	499	2.00	1.70	0.300	8.40	0.600	58.4	0.900
WP-13-SL-062	27,000	230	447	3.30	2.00	0.400	107	1.50	292	2.10
WP-14-SL-073	11,900	130	597	2.10	0.900	0.300	3.00	0.500	53.8	0.900
WP-14-SL-074	22,200	160	748	2.50	0.400	0.200	1.00	0.000	52.1	0.900
WP-14-SL-077	5,170	80.0	253	2.60	2.80	0.400	88.3	1.40	200	1.40
WP-14-SL-078	9,300	120	151	1.90	3.70	0.400	86.9	1.30	137	1.40
WP-14-SL-079	6,060	90.0	187	2.40	5.30	0.600	79.5	1.60	110	1.60
WP-15-SL-075	48,500	540	596	2.90	1.00	0.000	5.20	0.600	45.8	1.10

Appendix F – XRF Solids Analysis

Study ID	Niobium Result (ppm)	Niobium Error (ppm)	Phosphorus Result (ppm)	Phosphorus Error (ppm)	Potassium Result (ppm)	Potassium Error (ppm)	Rubidium Result (ppm)	Rubidium Error (ppm)	Selenium Result (ppm)	Selenium Error (ppm)
BR-30-SL-029	6.80	0.500	15,900	20.0	11,900	20.0	#N/A	#N/A	#N/A	#N/A
WP-02-SL-036	7.80	0.700	131	9.10	24,400	40.0	124	0.400	11.3	0.300
WP-03-SL-038	17.9	0.600	178	8.10	32,200	50.0	194	0.500	0.500	0.000
WP-03-SL-065	8.70	0.900	3.00	0.000	29,100	50.0	154	0.500	6.40	0.300
WP-04-SL-001	25.3	0.900	723	17.0	39,400	60.0	175	0.500	0.500	0.000
WP-04-SL-002	15.8	0.600	436	7.10	28,800	40.0	144	0.400	0.300	0.300
WP-04-SL-003	15.8	0.600	452	7.10	29,700	50.0	25.1	0.600	0.500	0.000
WP-04-SL-004	14.3	0.700	460	8.60	27,700	50.0	128	0.400	0.400	0.400
WP-04-SL-005	17.1	0.700	395	8.00	30,000	50.0	154	0.500	0.200	0.200
WP-04-SL-006	17.1	0.600	263	7.40	33,000	50.0	174	0.500	0.100	0.100
WP-04-SL-007	14.2	0.600	194	7.00	28,000	40.0	160	0.400	0.400	0.400
WP-04-SL-008	14.7	0.600	373	7.80	31,100	50.0	170	0.500	1.50	0.200
WP-04-SL-009	4.90	1.20	3.00	0.000	9,530	26.0	86.1	0.400	3.60	0.300
WP-04-SL-010	5.70	1.20	3.00	0.000	13,000	40.0	85.7	0.400	4.50	0.300
WP-04-SL-011	8.00	0.900	3.00	0.000	20,800	40.0	120	0.500	2.30	0.300
WP-04-SL-012	9.40	1.00	3.00	0.000	18,000	40.0	118	0.500	6.30	0.300
WP-05-SL-027	16.6	1.00	6.90	0.000	26,600	50.0	147	0.500	1.90	0.200
WP-05-SL-028	22.7	1.00	400	22.0	33,800	60.0	174	0.500	0.700	0.200
WP-05-SL-029	21.5	0.900	6.90	0.000	32,400	60.0	137	0.500	0.500	0.00
WP-05-SL-030	20.1	1.200	6.90	0.000	19,900	40.0	123	0.400	0.500	0.00
WP-05-SL-031	20.6	0.900	132	18.0	31,400	50.0	172	0.500	0.100	0.100
WP-05-SL-032	10.7	1.00	6.90	0.000	18,800	40.0	116	0.400	1.10	0.200
WP-05-SL-033	14.8	1.00	517	23.0	21,300	40.0	95.1	0.400	0.800	0.200
WP-05-SL-034	12.2	0.700	67.0	11.0	29,100	50.0	150	0.500	2.20	0.200
WP-06-SL-014	17.8	0.600	93.3	7.00	29,100	40.0	160	0.400	0.300	0.300
WP-06-SL-015	15.6	0.700	70.1	7.60	23,800	40.0	183	0.500	0.300	0.300
WP-06-SL-016	12.7	0.600	190	7.30	38,300	50.0	170	0.400	2.20	0.200
WP-06-SL-017	14.7	0.600	160	6.50	32,800	50.0	169	0.400	0.500	0.200
WP-06-SL-018	1.00	0.000	3.00	0.000	7,980	34.0	14.9	0.400	0.300	0.300
WP-06-SL-019	3.00	0.600	3.00	0.000	12,400	40.0	30.7	0.500	0.500	0.000

Appendix F – XRF Solids Analysis

Study ID	Niobium Result (ppm)	Niobium Error (ppm)	Phosphorus Result (ppm)	Phosphorus Error (ppm)	Potassium Result (ppm)	Potassium Error (ppm)	Rubidium Result (ppm)	Rubidium Error (ppm)	Selenium Result (ppm)	Selenium Error (ppm)
WP-06-SL-020	2.90	0.500	3.00	0.000	12,200	30.0	46.6	0.500	0.900	0.200
WP-06-SL-021	2.30	0.800	6.90	0.000	11,900	40.0	20.9	0.500	0.700	0.200
WP-06-SL-022	14.7	0.800	6.90	0.000	33,600	60.0	136	0.600	0.700	0.200
WP-06-SL-023	3.60	0.600	6.90	0.000	18,100	40.0	42.0	0.300	0.200	0.200
WP-06-SL-024	10.1	0.700	6.90	0.000	17,300	40.0	58.8	0.600	0.500	0.000
WP-06-SL-025	13.5	0.800	6.90	0.000	28,800	50.0	123	0.600	0.700	0.200
WP-06-SL-026	10.6	0.900	6.90	0.000	25,000	60.0	81.4	0.800	0.400	0.400
WP-06-SL-037	1.00	0.000	3.00	0.000	7,710	32.0	52.5	0.600	6.40	0.500
WP-07-SL-039	16.5	0.600	541	7.50	33,100	50.0	159	0.500	0.500	0.000
WP-07-SL-040	17.6	0.600	366	7.10	32,700	50.0	168	0.500	0.500	0.000
WP-07-SL-041	16.9	0.600	501	7.00	30,500	50.0	152	0.400	0.500	0.000
WP-10-SL-045	10.5	0.600	346	4.40	14,700	30.0	110	0.400	0.500	0.000
WP-10-SL-048	3.20	0.900	149	9.30	17,300	40.0	106	0.600	7.30	0.300
WP-11-SL-047	1.00	0.000	3.00	0.000	19,300	50.0	24.1	0.300	0.500	0.000
WP-11-SL-068	0.300	0.300	312	5.50	5,750	22.0	32.5	0.300	2.50	0.300
WP-12-SL-052	15.2	1.00	188	11.0	26,900	50.0	115	0.500	1.10	0.300
WP-12-SL-053	17.0	0.700	334	8.00	25,900	40.0	141	0.500	0.500	0.200
WP-12-SL-055	3.00	3.00	3.00	0.000	9,940	36.0	58.7	0.500	1.70	0.500
WP-12-SL-056	5.70	2.80	3.00	0.000	21,100	20.0	171	1.00	11.3	0.700
WP-13-SL-059	17.6	0.600	267	5.70	23,500	40.0	141	0.400	0.500	0.200
WP-13-SL-062	4.20	0.800	529	12.0	13,000	40.0	61.9	0.400	8.90	0.300
WP-14-SL-073	16.7	0.600	132	5.00	21,400	40.0	135	0.400	0.400	0.20
WP-14-SL-074	15.8	0.600	485	7.70	32,500	50.0	148	0.400	0.500	0.000
WP-14-SL-077	6.00	0.800	3.00	0.000	14,500	30.0	103	0.500	9.10	0.300
WP-14-SL-078	6.30	0.800	3.00	0.000	11,700	30.0	113	0.500	8.40	0.300
WP-14-SL-079	5.50	1.00	3.00	0.000	7,290	23.0	88.3	0.500	9.70	0.300
WP-15-SL-075	21.5	0.900	6.90	0.000	32,400	60.0	137	0.500	0.500	0.000

Appendix F – XRF Solids Analysis

Study ID	Silicon Result (ppm)	Silicon Error (ppm)	Silver Result (ppm)	Silver Error (ppm)	Sodium Result (ppm)	Sodium Error (ppm)	Strontium Result (ppm)	Strontium Error (ppm)	Sulfur Result (ppm)	Sulfur Error (ppm)	Tantulum Result (ppm)	Tantulum Error (ppm)
BR-30-SL-029	154,000	100	#N/A	#N/A	0.000	0.000	#N/A	#N/A	6,560	8.00	33.7	3.80
WP-02-SL-036	250,000	200	17.7	1.40	0.000	0.000	384	0.600	17,200	20.0	77.2	2.70
WP-03-SL-038	297,000	200	3.40	1.50	0.000	0.000	184	0.500	9,080	12.0	1.60	0.200
WP-03-SL-065	259,000	200	26.7	1.40	0.000	0.000	615	0.900	22,200	20.0	16.8	2.00
WP-04-SL-001	681,000	500	2.00	0.000	0.000	0.000	457	0.800	20.0	14,300	38.2	1.90
WP-04-SL-002	318,000	200	3.3	1.30	0.000	0.000	204	0.500	5,300	8.0	25.1	1.50
WP-04-SL-003	323,000	200	4.00	1.30	0.000	0.000	178	0.400	4,080	7.0	27.4	1.50
WP-04-SL-004	343,000	200	2.2	2.20	0.000	0.000	312	0.600	3,140	11.0	33.0	1.70
WP-04-SL-005	351,000	200	5.2	1.40	0.000	0.000	259	0.600	5,350	9.00	34.1	1.60
WP-04-SL-006	316,000	200	3.2	1.30	0.000	0.000	187	0.500	4,280	8.00	28.0	1.50
WP-04-SL-007	296,000	200	2.00	0.000	0.000	0.000	197	0.500	5,490	8.00	30.2	1.50
WP-04-SL-008	327,000	200	2.00	0.000	0.000	0.000	178	0.400	9,150	12.0	26.2	1.60
WP-04-SL-009	116,000	100	43.6	1.60	0.000	0.000	566	1.00	14,500	10.0	31.9	2.10
WP-04-SL-010	187,000	200	43.0	1.70	0.000	0.000	668	1.10	37,300	30.0	38.8	2.30
WP-04-SL-011	226,000	200	35.3	1.40	0.000	0.000	537	0.900	19,200	20.0	27.7	1.90
WP-04-SL-012	214,000	200	42.2	1.50	0.000	0.000	505	0.900	31,000	30.0	40.2	2.30
WP-05-SL-027	466,000	300	13.6	1.40	0.000	0.000	655	1.00	25,300	30.0	44.7	2.30
WP-05-SL-028	575,000	400	4.90	1.40	0.000	0.000	379	0.700	23,800	30.0	28.3	2.00
WP-05-SL-029	579,000	500	41.4	1.60	0.000	0.000	185	0.500	8,340	30.0	33.3	1.80
WP-05-SL-030	362,000	300	26.9	1.40	0.000	0.000	463	0.800	19,600	30.0	37.4	2.00
WP-05-SL-031	507,000	400	8.70	1.40	0.000	0.000	283	0.600	14,800	20.0	46.8	2.00
WP-05-SL-032	323,000	300	19.9	1.40	0.000	0.000	865	1.10	19,700	30.0	35.6	2.10
WP-05-SL-033	549,000	400	2.00	0.000	0.000	0.000	496	0.800	33,900	40.0	28.7	2.00
WP-05-SL-034	294,000	200	10.0	1.50	0.000	0.000	552	0.800	18,200	20.0	35.5	2.10
WP-06-SL-014	292,000	200	4.90	1.30	0.000	0.000	173	0.400	9,520	11.0	30.3	1.50
WP-06-SL-015	297,000	200	2.00	0.000	0.000	0.000	201	0.500	11,600	10.0	28.5	1.50
WP-06-SL-016	317,000	200	3.10	1.30	0.000	0.000	172	0.400	8,140	11.0	22.7	1.70
WP-06-SL-017	300,000	200	2.00	0.000	0.000	0.000	171	0.400	6,070	9.00	27.0	1.60
WP-06-SL-018	90,600	150	3.50	3.40	0.000	0.000	650	0.900	33,600	40.0	27.5	1.30
WP-06-SL-019	111,000	100	7.10	2.00	0.000	0.000	924	1.10	33,000	30.0	38	1.50

Appendix F – XRF Solids Analysis

Study ID	Silicon Result (ppm)	Silicon Error (ppm)	Silver Result (ppm)	Silver Error (ppm)	Sodium Result (ppm)	Sodium Error (ppm)	Strontium Result (ppm)	Strontium Error (ppm)	Sulfur Result (ppm)	Sulfur Error (ppm)	Tantulum Result (ppm)	Tantulum Error (ppm)
WP-06-SL-020	84,400	90.0	2.00	0.000	0.000	0.000	2,170	2.00	57,800	40.0	32.2	1.60
WP-06-SL-021	262,000	300	2.00	0.000	0.000	0.000	844	1.10	42,100	60.0	31.1	1.70
WP-06-SL-022	488,000	400	2.1	2.10	0.000	0.000	956	1.20	12,500	20.0	46.1	2.10
WP-06-SL-023	368,000	300	2.00	1.90	0.000	0.000	427	0.700	19,900	30.0	33.6	1.60
WP-06-SL-024	209,000	300	2.00	0.000	0.000	0.000	1,600	2.00	11,000	50.0	45.3	1.60
WP-06-SL-025	406,000	300	2.70	2.60	0.000	0.000	1,180	1.00	12,000	20.0	41.3	2.00
WP-06-SL-026	408,000	500	9.50	2.10	0.000	0.000	2,220	2.00	12,700	60.0	50.1	2.50
WP-06-SL-037	129,000	200	50.5	2.00	0.000	0.000	13,300	10.0	25,100	30.0	77.7	3.40
WP-07-SL-039	354,000	200	6.30	1.50	0.000	0.000	141	0.400	3,910	7.00	1.30	0.200
WP-07-SL-040	320,000	200	2.00	0.000	0.000	0.000	149	0.400	6,370	9.00	29.8	1.10
WP-07-SL-041	343,000	200	2.00	0.000	0.000	0.000	141	0.400	2,830	6.00	31.4	1.40
WP-10-SL-045	136,000	100	1.20	1.20	0.000	0.000	489	0.700	2,580	5.00	34.4	1.60
WP-10-SL-048	198,000	100	30.1	1.50	0.000	0.000	7,360	5.00	26,800	20.0	58.7	2.90
WP-11-SL-047	176,000	200	17.2	1.70	0.000	0.000	230	0.500	46,300	60.0	30.7	1.60
WP-11-SL-068	69,700	60.0	40.0	1.60	0.000	0.000	2,890	3.00	12,500	10.0	22.1	2.10
WP-12-SL-052	300,000	200	40.6	1.70	0.000	0.000	1,100	1.00	14,900	20.0	28.3	2.30
WP-12-SL-053	295,000	200	4.00	1.40	0.000	0.000	707	0.900	3,560	8.00	24.9	1.70
WP-12-SL-055	145,000	100	68.9	2.90	0.000	0.000	1,980	2.00	32,600	30.	49.9	3.40
WP-12-SL-056	264,000	200	90.2	3.50	0.000	0.000	4,050	4.00	68,400	50.0	65.0	5.10
WP-13-SL-059	250,000	200	2.00	0.000	0.000	0.000	284	0.60	3,840	6.00	20.4	1.40
WP-13-SL-062	244,000	200	45.8	1.50	0.000	0.000	2,150	2.00	40,300	30.0	16.6	2.20
WP-14-SL-073	201,000	100	2.0	0.000	0.000	0.000	285	0.50	2,010	5.00	19.2	1.50
WP-14-SL-074	349,000	200	2.0	0.000	0.000	0.000	148	0.40	1,930	6.00	26.4	1.50
WP-14-SL-077	60,700	50.0	24.7	1.4	0.000	0.000	2,910	2.00	6,720	7.00	4.90	0.300
WP-14-SL-078	105,000	100	21.5	1.4	0.000	0.000	2,780	2.00	12,300	10.0	34.6	2.40
WP-14-SL-079	59,100	50.0	45.3	1.5	0.000	0.000	5,680	4.00	9,300	9.00	39.0	2.90
WP-15-SL-075	579,000	500	41.4	1.6	0.000	0.000	185	0.500	8,340	30.0	33.3	0.800

Appendix F – XRF Solids Analysis

Study ID	Tellurium Result (ppm)	Tellurium Error (ppm)	Thallium Result (ppm)	Thallium Error (ppm)	Thorium Result (ppm)	Thorium Error (ppm)	Tin Result (ppm)	Tin Error (ppm)	Titanium Result (ppm)	Titanium Error (ppm)
BR-30-SL-029	22.1	1.00	1.50	0.200	3.60	0.500	85.6	1.30	3,680	14.0
WP-02-SL-036	52.3	1.40	5.90	0.300	12.2	0.400	42.4	0.800	2,710	17.0
WP-03-SL-038	3.00	0.000	1.60	0.200	20.1	0.400	6.50	0.700	5,830	12.0
WP-03-SL-065	101	1.40	5.50	0.300	11.8	0.400	74.1	0.700	4,030	27.0
WP-04-SL-001	7.40	0.600	1.60	0.300	17.9	0.400	11.9	0.800	11,000	20.0
WP-04-SL-002	0.500	0.100	1.40	0.200	16.4	0.400	2.40	0.100	6,390	16.0
WP-04-SL-003	3.00	0.000	1.20	0.200	17.5	0.400	6.00	0.400	6,250	14.0
WP-04-SL-004	1.30	0.100	1.70	0.300	15.5	0.400	15.0	0.500	6,410	23.0
WP-04-SL-005	14.7	0.700	1.50	0.300	16	0.400	14.8	0.500	6,630	19.0
WP-04-SL-006	10.9	0.700	1.50	0.200	18.3	0.400	11.8	0.700	6,710	14.0
WP-04-SL-007	3.00	0.000	1.60	0.300	14.5	0.400	6.60	0.500	5,530	13.0
WP-04-SL-008	3.00	0.000	1.70	0.300	16.8	0.400	1.10	0.100	6,330	14.0
WP-04-SL-009	138	1.50	2.80	0.300	12	0.500	109	0.800	2,870	32.0
WP-04-SL-010	124	1.40	3.20	0.400	10.8	0.500	108	0.800	5,450	50.0
WP-04-SL-011	105	1.40	2.60	0.300	12.5	0.400	77.6	0.700	4,150	35.0
WP-04-SL-012	111	1.40	40.2	2.30	12.4	0.400	89.7	0.800	5,280	41.0
WP-05-SL-027	55.9	1.40	3.50	0.300	16.2	0.400	56.8	1.00	6,240	33.0
WP-05-SL-028	16.3	0.800	1.60	0.200	17.4	0.400	22.6	0.700	9,000	36.0
WP-05-SL-029	77.0	1.80	1.30	1.20	15.5	0.400	74.9	1.700	8,410	26.0
WP-05-SL-030	89.0	1.50	2.10	0.300	14.5	0.400	81.7	0.900	7,310	40.0
WP-05-SL-031	21.1	0.900	1.90	0.200	16.5	0.400	30.9	0.900	8,530	27.0
WP-05-SL-032	62.1	1.30	2.30	0.200	11.1	0.400	61.7	0.900	4,260	38.0
WP-05-SL-033	40.7	1.20	1.30	0.200	11.2	0.400	44.6	0.900	6,580	46.0
WP-05-SL-034	37.9	1.20	3.10	0.300	16.4	0.500	32.0	0.700	5,620	25.0
WP-06-SL-014	3.00	0.000	1.80	0.200	16.5	0.400	11.7	0.700	5,500	14.0
WP-06-SL-015	3.00	0.000	1.60	0.200	17.8	0.400	24.0	0.700	4,280	14.0
WP-06-SL-016	3.00	0.000	2.00	0.200	15.2	0.400	9.00	0.700	5,470	12.0
WP-06-SL-017	3.00	0.000	1.90	0.200	16.3	0.400	11.5	0.800	5,750	12.0
WP-06-SL-018	3.00	0.000	2.30	0.300	6.50	0.400	3.20	0.400	705	7.20
WP-06-SL-019	3.00	0.000	2.50	0.300	8.60	0.400	1.70	0.200	1,080	10.0

Appendix F – XRF Solids Analysis

Study ID	Tellurium Result (ppm)	Tellurium Error (ppm)	Thallium Result (ppm)	Thallium Error (ppm)	Thorium Result (ppm)	Thorium Error (ppm)	Tin Result (ppm)	Tin Error (ppm)	Titanium Result (ppm)	Titanium Error (ppm)
WP-06-SL-020	3.00	0.000	3.50	0.300	10.9	0.400	8.50	0.700	1,490	9.00
WP-06-SL-021	4.20	0.500	31.1	1.70	8.50	0.400	10.7	1.20	2,260	13.0
WP-06-SL-022	3.00	0.000	2.70	0.300	15.6	0.400	9.50	0.900	6,740	19.0
WP-06-SL-023	3.00	0.000	1.20	0.200	6.30	0.300	11.5	1.100	3,880	14.0
WP-06-SL-024	3.00	0.000	1.00	0.000	11.5	0.400	3.90	0.000	2,370	11.0
WP-06-SL-025	3.00	0.000	2.60	0.300	16.0	0.400	0.900	0.100	5,750	18.0
WP-06-SL-026	3.00	0.000	14.9	0.600	17.7	0.500	6.90	0.800	3,410	16.0
WP-06-SL-037	108	1.50	10.4	0.500	17.4	1.30	102	0.900	2,990	48.0
WP-07-SL-039	3.00	0.000	1.30	0.200	17.3	0.400	3.80	0.500	6,780	13.0
WP-07-SL-040	3.00	0.000	1.20	0.200	17.8	0.400	11.8	1.00	6,190	12.0
WP-07-SL-041	3.00	0.000	1.30	0.200	17.7	0.400	12.0	0.900	6,760	13.0
WP-10-SL-045	3.00	0.000	1.10	0.300	11.8	0.400	5.20	0.500	3,460	12.0
WP-10-SL-048	71.9	1.20	7.40	0.400	13.8	0.800	59.6	0.700	3,500	33.0
WP-11-SL-047	37.2	1.50	2.50	0.300	7.00	0.400	26.6	1.10	2,350	15.0
WP-11-SL-068	119	1.40	3.10	0.400	7.70	0.500	91.3	0.700	675	43.0
WP-12-SL-052	160	2.10	2.60	0.300	17.7	0.500	98.5	1.00	6,620	35.0
WP-12-SL-053	12.0	0.700	2.10	0.200	17.9	0.400	17.7	0.700	6,070	16.0
WP-12-SL-055	219	2.30	2.20	0.500	13.0	0.800	182	1.20	4,020	67.0
WP-12-SL-056	234	2.50	9.50	0.800	20.3	1.20	211	1.40	8,470	110
WP-13-SL-059	3.00	0.000	1.40	0.300	16.2	0.400	8.20	0.600	4,980	12.0
WP-13-SL-062	112	1.60	4.40	0.300	9.40	0.500	87.8	1.00	2,470	31.0
WP-14-SL-073	3.00	0.000	1.50	0.200	17.1	0.400	15.7	0.900	4,600	11.0
WP-14-SL-074	3.00	0.000	1.40	0.200	17.3	0.400	11.8	0.900	6,450	13.0
WP-14-SL-077	103	1.60	4.90	0.300	11.0	0.500	74.3	0.800	1,890	26.0
WP-14-SL-078	90.4	1.50	4.40	0.300	13.3	0.500	73.7	0.800	1,520	20.0
WP-14-SL-079	156	1.70	6.40	0.400	11.7	0.700	108	0.800	901	24.0
WP-15-SL-075	77	1.80	1.30	1.20	15.5	0.400	74.9	1.70	8,410	26.0

Appendix F – XRF Solids Analysis

Study ID	Tungsten Result (ppm)	Tungsten Error (ppm)	Uranium Result (ppm)	Uranium Error (ppm)	Vanadium Result (ppm)	Vanadium Error (ppm)	Yttrium Result (ppm)	Yttrium Error (ppm)	Zinc Result (ppm)	Zinc Error (ppm)
BR-30-SL-029	11.8	1.20	6.20	0.400	17.6	1.70	16.8	0.300	1,260	3.00
WP-02-SL-036	4.20	0.700	28.6	0.500	160	4.30	36.7	0.300	158	1.00
WP-03-SL-038	4.50	0.600	2.90	0.200	174	5.00	36.9	0.300	108	0.80
WP-03-SL-065	3.60	0.600	20.1	0.600	74.0	2.60	28.7	0.400	127	1.00
WP-04-SL-001	0.700	6.10	5.30	0.300	264	9.10	37.0	0.300	138	1.10
WP-04-SL-002	6.70	0.600	3.00	0.200	139	5.20	35.8	0.300	107	0.800
WP-04-SL-003	6.00	0.600	4.00	0.300	113	5.00	34.9	0.300	106	0.800
WP-04-SL-004	5.70	0.600	3.60	0.200	58.5	4.40	34.5	0.300	114	0.900
WP-04-SL-005	6.50	0.600	2.60	0.200	141	5.60	37.9	0.300	119	0.900
WP-04-SL-006	5.70	0.600	4.20	0.300	180	5.30	36.9	0.300	111	0.800
WP-04-SL-007	4.90	0.600	3.00	0.200	198	5.30	29.7	0.300	107	0.800
WP-04-SL-008	6.90	0.700	5.30	0.300	234	5.50	33.6	0.300	146	0.900
WP-04-SL-009	1.90	1.20	8.70	0.400	97.9	2.90	22.6	0.300	146	1.20
WP-04-SL-010	3.70	0.600	9.90	0.400	293	8.60	24.5	0.400	163	1.30
WP-04-SL-011	4.30	0.600	5.90	0.300	1.00	0.000	24.3	0.300	193	1.20
WP-04-SL-012	6.90	0.800	14.6	0.500	203	6.90	29.5	0.400	181	1.20
WP-05-SL-027	5.10	0.800	9.70	0.400	1.80	0.000	25.6	0.300	362	1.70
WP-05-SL-028	6.50	0.700	4.50	0.300	95.3	6.50	31.7	0.300	134	1.10
WP-05-SL-029	1.60	0.300	3.70	0.200	175	8.70	29.4	0.300	89.6	0.900
WP-05-SL-030	6.60	0.800	3.50	0.200	18.6	0.900	29.9	0.300	114	1.00
WP-05-SL-031	8.10	0.800	2.60	0.200	104	5.70	30.9	0.300	138	1.00
WP-05-SL-032	4.50	0.600	5.20	0.300	1.80	0.000	23.5	0.300	71.8	0.800
WP-05-SL-033	5.20	0.700	2.30	0.200	1.80	0.000	20.9	0.300	129	1.10
WP-05-SL-034	6.00	0.700	6.60	0.400	95.4	5.00	25.8	0.300	245	1.30
WP-06-SL-014	5.20	0.600	6.40	0.300	90.4	4.40	33.8	0.300	143	0.900
WP-06-SL-015	5.50	0.600	3.80	0.300	59.8	2.80	34.3	0.300	129	0.900
WP-06-SL-016	4.80	0.600	7.10	0.300	272	5.30	32.2	0.300	124	0.800
WP-06-SL-017	5.20	0.600	6.10	0.300	171	4.70	31.9	0.300	97.3	0.800
WP-06-SL-018	1.50	0.600	3.00	0.200	11.7	1.30	2.70	0.200	15.6	0.500
WP-06-SL-019	2.50	0.400	2.80	0.200	35.4	2.80	8.30	0.300	22.9	0.600

Appendix F – XRF Solids Analysis

Study ID	Tungsten Result (ppm)	Tungsten Error (ppm)	Uranium Result (ppm)	Uranium Error (ppm)	Vanadium Result (ppm)	Vanadium Error (ppm)	Yttrium Result (ppm)	Yttrium Error (ppm)	Zinc Result (ppm)	Zinc Error (ppm)
WP-06-SL-020	3.00	0.500	13.40	0.500	54.5	2.90	11	0.200	34.7	0.600
WP-06-SL-021	1.00	0.600	4.40	0.200	10.6	1.80	5.80	0.200	35.7	0.700
WP-06-SL-022	4.90	0.700	5.80	0.300	235	8.20	21.9	0.300	104	1.00
WP-06-SL-023	2.70	0.400	1.50	0.100	129	6.00	9.70	0.200	39.8	0.600
WP-06-SL-024	2.50	0.400	4.80	0.300	53.0	4.00	12.8	0.300	27.7	0.600
WP-06-SL-025	8.00	0.800	5.40	0.300	197	7.50	20.8	0.300	99.3	1.00
WP-06-SL-026	4.20	0.700	8.80	0.500	65.8	1.40	19.3	0.300	56.3	0.900
WP-06-SL-037	3.40	1.80	80.8	1.30	1.00	0.000	32.8	0.600	116	1.40
WP-07-SL-039	5.70	0.600	2.50	0.200	176	5.10	36.5	0.300	97.4	0.800
WP-07-SL-040	5.10	0.600	1.50	0.100	153	4.80	26.0	0.300	108	0.800
WP-07-SL-041	6.30	0.600	2.30	0.200	155	5.00	37.0	0.300	128	0.900
WP-10-SL-045	6.60	0.700	3.00	0.200	110	4.30	21.9	0.300	83.0	0.800
WP-10-SL-048	58.7	2.90	49.4	1.00	51.6	2.60	33.6	0.400	221	1.40
WP-11-SL-047	1.70	0.300	2.40	0.100	37.6	3.10	5.10	0.200	18.4	0.500
WP-11-SL-068	1.00	0.000	17.6	0.500	1.00	0.000	15.3	0.300	44.3	0.900
WP-12-SL-052	1.80	1.20	12.4	0.500	1.00	0.000	35.4	0.400	121	1.10
WP-12-SL-053	24.9	1.70	6.30	0.300	73.1	4.00	35.7	0.300	112	0.800
WP-12-SL-055	1.00	0.000	11.3	0.500	1.00	0.000	18.8	0.400	205	1.90
WP-12-SL-056	1.00	0.000	36.6	1.20	1.00	0.000	44.5	0.800	384	2.90
WP-13-SL-059	7.2	0.700	2.00	0.200	129	4.40	31.2	0.300	101	0.800
WP-13-SL-062	1.00	0.000	33.1	0.600	61.2	3.40	36.0	0.300	155	1.20
WP-14-SL-073	8.60	0.700	3.10	0.200	98.7	3.80	345	0.300	112	0.600
WP-14-SL-074	2.30	0.400	3.20	0.200	153	5.10	35.5	0.300	99.1	0.800
WP-14-SL-077	5.40	0.800	31.4	0.700	22.5	1.00	34.1	0.300	215	1.30
WP-14-SL-078	4.80	0.700	33.8	0.700	1.00	0.000	31.3	0.300	124	1.00
WP-14-SL-079	3.00	0.700	49.4	0.900	1.00	0.000	34.4	0.400	220	1.50
WP-15-SL-075	1.60	0.300	3.70	0.200	175	8.70	29.4	0.300	89.6	0.900

Appendix F – XRF Solids Analysis

Study ID	Zirconium Result (ppm)	Zirconium Error (ppm)
BR-30-SL-029	238	3.00
WP-02-SL-036	103	1.90
WP-03-SL-038	237	2.00
WP-03-SL-065	122	2.60
WP-04-SL-001	353	3.10
WP-04-SL-002	260	2.00
WP-04-SL-003	250	2.00
WP-04-SL-004	252	2.30
WP-04-SL-005	248	2.20
WP-04-SL-006	230	1.90
WP-04-SL-007	164	1.80
WP-04-SL-008	197	1.80
WP-04-SL-009	101	3.00
WP-04-SL-010	89.5	3.20
WP-04-SL-011	103	2.50
WP-04-SL-012	111	2.60
WP-05-SL-027	227	3.20
WP-05-SL-028	314	3.10
WP-05-SL-029	304	2.90
WP-05-SL-030	328	3.50
WP-05-SL-031	308	2.80
WP-05-SL-032	162	3.30
WP-05-SL-033	252	3.10
WP-05-SL-034	174	2.40
WP-06-SL-014	228	1.90
WP-06-SL-015	195	1.90
WP-06-SL-016	191	1.70
WP-06-SL-017	196	1.80
WP-06-SL-018	13.4	2.00
WP-06-SL-019	42.7	2.50

Appendix F – XRF Solids Analysis

Study ID	Zirconium Result (ppm)	Zirconium Error (ppm)
WP-06-SL-020	28.2	3.00
WP-06-SL-021	39.2	2.90
WP-06-SL-022	177	3.20
WP-06-SL-023	52.1	1.90
WP-06-SL-024	180	3.80
WP-06-SL-025	158	3.30
WP-06-SL-026	209	5.20
WP-06-SL-037	1.00	0.00
WP-07-SL-039	288	2.20
WP-07-SL-040	251	2.00
WP-07-SL-041	309	2.20
WP-10-SL-045	154	2.10
WP-10-SL-048	1.00	0.00
WP-11-SL-047	32.4	1.50
WP-11-SL-068	29.2	4.90
WP-12-SL-052	311	3.90
WP-12-SL-053	334	2.70
WP-12-SL-055	76.3	6.70
WP-12-SL-056	128	9.70
WP-13-SL-059	233	2.10
WP-13-SL-062	58.6	3.80
WP-14-SL-073	309	2.20
WP-14-SL-074	319	2.20
WP-14-SL-077	74.6	3.80
WP-14-SL-078	81.0	3.80
WP-14-SL-079	47.2	5.80
WP-15-SL-075	304	2.90

Appendix F – XRF Liquids Analysis

Study ID	Date/Time	Aluminum Result (ppm)	Aluminum Error (ppm)	Antimony Result (ppm)	Antimony Error (ppm)	Arsenic Result (ppm)	Arsenic Error (ppm)	Barium Result (ppm)	Barium Error (ppm)	Bismuth Result (ppm)	Bismuth Error (ppm)
WT-04-LQ-204	10/07/13	20.0	0.000	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WT-05-LQ-206	10/07/13	93.0	14.0	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WT-13-LQ-212	10/08/13	17.0	0.400	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WT-14-LQ-214	10/08/13	20.0	0.000	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WT-17-LQ-220	10/09/13	20.0	0.000	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WT-11-LQ-222	10/09/13	20.0	0.000	3.00	0.000	0.500	0.000	980	12.0	1.00	0.000
WT-15-LQ-226	10/09/13	20.0	0.000	3.00	0.000	0.500	0.000	65.1	3.80	1.00	0.000
WT-09-LQ-228	10/09/13	20.0	0.000	3.00	0.000	0.500	0.000	99.2	4.80	1.00	0.000
WT-19-LW-232	10/10/13	3,550	16.0	3.00	0.000	0.500	0.000	1,250	12.0	1.00	0.000
WT-25-LQ-234	10/10/13	20.0	0.000	3.00	0.000	0.500	0.000	4,850	18.0	1.00	0.000
WT-06-LQ-248	10/15/13	20.0	0.000	3.00	0.000	0.500	0.000	4,890	18.0	1.00	0.000
WT-08-LQ-240	10/14/13	20.0	0.000	3.00	0.000	0.500	0.000	3,810	17.0	1.00	0.000
WT-16-LQ-244	10/15/13	30.3	0.700	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WT-20-LQ-250	10/16/13	1,900	53.0	3.00	0.000	0.500	0.000	18,600	30.0	1.00	0.000
WP-04-LQ-014	10/16/13	20.0	0.000	3.00	0.000	0.500	0.000	23,300	40.0	1.00	0.000
WT-23-LQ-256	10/24/13	16.6	1.00	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WT-21-LQ-264	11/06/13	1,130	38.0	3.00	0.000	0.500	0.000	3,620	17.0	1.00	0.000
WT-24-LQ-268	11/07/13	20.0	0.000	3.00	0.000	0.500	0.000	301	8.60	1.00	0.000
WT-22-LQ-272	11/07/13	12.8	0.800	3.00	0.000	0.500	0.000	225	7.70	1.00	0.000
WP-10-LQ-015	11/11/13	20.0	0.000	3.00	0.000	0.500	0.000	5,040	18.0	1.00	0.000
WT-01-LQ-284	11/21/13	20.0	0.000	3.00	0.000	0.500	0.000	951	12.0	1.00	0.000
WT-02-LQ-278	11/20/13	20.0	0.000	3.00	0.000	0.500	0.000	837	12.0	1.00	0.000
WT-07-LQ-276	11/20/13	20.0	0.000	3.00	0.000	0.500	0.000	573	10.0	1.00	0.000
WT-03-LQ-286	11/21/13	87.9	2.10	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WP-06-LQ-016	11/22/13	16.7	0.400	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WT-10-LQ-290	12/16/13	134	2.20	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WT-12-LQ-294	12/16/13	3.60	0.000	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WP-06-LQ-017	12/16/13	20.0	0.000	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WP-09-LQ-018	12/17/13	20.0	0.000	3.00	0.000	0.500	0.000	133	5.80	1.00	0.000
WP-08-LQ-021	12/17/13	20.0	0.000	3.00	0.000	0.500	0.000	152	6.10	1.00	0.000

Appendix F – XRF Liquids Analysis

Study ID	Date/Time	Aluminum Result (ppm)	Aluminum Error (ppm)	Antimony Result (ppm)	Antimony Error (ppm)	Arsenic Result (ppm)	Arsenic Error (ppm)	Barium Result (ppm)	Barium Error (ppm)	Bismuth Result (ppm)	Bismuth Error (ppm)
WP-12-LQ-022	12/18/13	20.0	0.000	3.00	0.000	0.500	0.000	9,120	23.0	1.00	0.000
WP-18-LQ-024	02/06/14	20.0	0.000	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WP-19-LQ-029	02/17/14	141	7.00	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WP-20-LQ-031	02/17/14	20.0	0.000	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WP-21-LQ-033	02/17/14	20.0	0.000	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WP-11-LQ-035	02/18/14	468	17.0	3.00	0.000	0.500	0.000	948	12.0	1.00	0.000
WP-05-LQ-037	02/26/14	20.0	0.000	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WP-04-LQ-039	02/27/14	20.0	0.000	3.00	0.000	0.500	0.000	12,700	30.0	1.00	0.000
WP-12-LQ-041	02/27/14	20.0	0.000	3.00	0.000	0.500	0.000	15,400	30.0	0.600	0.100
WP-11-LQ-043	03/17/14	20.0	0.000	3.00	0.000	0.500	0.000	804	11.0	1.00	0.000
WP-10-LQ-045	03/18/14	20.0	0.000	3.00	0.000	0.500	0.000	10,400	20.0	1.00	0.000
WP-14-LQ-046	04/23/14	20.0	0.000	3.00	0.000	0.500	0.000	2.00	0.000	1.00	0.000
WP-01-LQ-048	04/24/14	20.0	0.000	3.00	0.000	0.500	0.000	5,230	18.0	1.00	0.000
WP-10-LQ-050	04/24/14	20.0	0.000	3.00	0.000	0.500	0.000	11,500	20.0	1.00	0.000
WP-14-LQ-052	06/11/14	20.0	0.000	3.00	0.000	0.500	0.000	3,940	17.0	1.00	0.000

Appendix F – XRF Liquids Analysis

Study ID	Bromine Result (ppm)	Bromine Error (ppm)	Cadmium Result (ppm)	Cadmium Error (ppm)	Calcium Result (ppm)	Calcium Error (ppm)	Cerium Result (ppm)	Cerium Error (ppm)	Cesium Result (ppm)	Cesium Error (ppm)	Chlorine Result (ppm)	Chlorine Error (ppm)
WT-04-LQ-204	475	0.500	2.00	0.000	5,670	8.00	52.0	17.0	4.00	0.000	46,500	30.0
WT-05-LQ-206	509	0.600	2.00	0.000	7,220	10.0	2.00	0.000	4.00	0.000	50,100	300
WT-13-LQ-212	0.800	0.100	0.400	0.100	34.7	0.500	47.0	16.0	4.00	0.000	2.00	0.000
WT-14-LQ-214	8.50	0.100	2.00	0.000	158	1.10	2.00	0.000	4.00	0.000	806	0.80
WT-17-LQ-220	12.4	0.100	3.20	0.400	165	1.00	70.0	20.0	4.00	0.000	1,050	1.00
WT-11-LQ-222	897	0.900	2.00	0.000	13,400	20.0	2.00	0.000	4.00	0.000	105,000	100
WT-15-LQ-226	236	0.300	2.00	0.000	2,790	5.00	2.00	0.000	4.00	0.000	24,700	20.0
WT-09-LQ-228	776	0.800	1.50	0.200	12,800	20.0	2.00	0.000	4.00	0.000	95,400	60.0
WT-19-LW-232	84.1	0.200	2.00	0.000	1,650	4.00	2.00	0.000	4.00	0.000	11,100	10.0
WT-25-LQ-234	181	0.300	1.60	0.200	1,450	3.00	2.00	0.000	4.00	0.000	17,500	10.0
WT-06-LQ-248	217	0.300	0.400	0.100	1,680	3.00	2.00	0.000	4.00	0.000	18,600	10.0
WT-08-LQ-240	301	0.500	2.00	0.000	3,620	6.00	2.00	0.000	4.00	0.000	36,700	20.0
WT-16-LQ-244	0.400	0.100	0.100	0.100	58.6	0.70	2.00	0.000	10.2	3.50	116	0.200
WT-20-LQ-250	655	0.900	2.00	0.000	11,200	10.0	2.00	0.000	4.00	0.000	75,700	50.0
WP-04-LQ-014	922	1.20	2.00	0.000	16,500	20.0	2.00	0.000	4.00	0.000	109,000	100
WT-23-LQ-256	79.4	0.200	2.00	0.000	949	2.80	2.00	0.000	4.00	0.000	7,490	5.0
WT-21-LQ-264	534	0.700	2.00	0.000	7,430	11.0	2.00	0.000	3,620	17.0	55,200	30.0
WT-24-LQ-268	420	0.500	2.00	0.000	6,240	8.00	2.00	0.000	4.00	0.000	46,500	30.0
WT-22-LQ-272	54.7	0.100	0.900	0.200	378	1.50	2.00	0.000	4.00	0.000	4,150	3.00
WP-10-LQ-015	301	0.500	2.00	0.000	4,460	9.00	2.00	0.000	4.00	0.000	50,100	30.0
WT-01-LQ-284	834	0.900	1.40	0.200	12,400	20.0	2.00	0.000	4.00	0.000	87,500	50.0
WT-02-LQ-278	809	0.900	2.00	0.000	11,700	20.0	2.00	0.000	4.00	0.000	77,100	50.0
WT-07-LQ-276	97.5	0.200	2.00	0.000	1,570	4.00	2.00	0.000	4.00	0.000	12,000	10.0
WT-03-LQ-286	0.500	0.100	2.00	0.000	218	1.20	2.00	0.000	4.00	0.000	2.00	0.000
WP-06-LQ-016	0.100	0.100	1.80	0.300	33.9	0.600	2.00	0.000	4.00	0.000	2.00	0.000
WT-10-LQ-290	0.500	0.100	0.300	0.100	212	1.20	2.00	0.000	4.00	0.000	443	0.60
WT-12-LQ-294	0.600	0.100	2.00	0.000	266	1.50	69	19.0	4.00	0.000	461	0.60
WP-06-LQ-017	648	0.700	2.00	0.000	10,300	10.0	2.00	0.000	4.00	0.000	69,300	40.0
WP-09-LQ-018	1,150	1.00	2.00	0.000	18,800	20.0	2.00	0.000	4.00	0.000	116,000	100
WP-08-LQ-021	1,200	1.00	2.00	0.000	21,900	30.0	2.00	0.000	4.00	0.000	136,000	100

Appendix F – XRF Liquids Analysis

Study ID	Bromine Result (ppm)	Bromine Error (ppm)	Cadmium Result (ppm)	Cadmium Error (ppm)	Calcium Result (ppm)	Calcium Error (ppm)	Cerium Result (ppm)	Cerium Error (ppm)	Cesium Result (ppm)	Cesium Error (ppm)	Chlorine Result (ppm)	Chlorine Error (ppm)
WP-12-LQ-022	365	0.500	2.00	0.000	4,920	8.00	2.00	0.000	4.00	0.000	40,300	30.0
WP-18-LQ-024	624	0.700	1.30	0.200	8,190	11.0	2.00	0.000	4.00	0.000	62,600	40.0
WP-19-LQ-029	177	0.300	2.00	0.000	1,710	4.00	2.00	0.000	4.00	0.000	14,500	10.0
WP-20-LQ-031	475	0.500	2.00	0.000	5,840	9.00	2.00	0.000	4.00	0.000	47,100	30.0
WP-21-LQ-033	601	0.600	2.00	0.000	8,610	12.0	2.00	0.000	4.00	0.000	69,800	40.0
WP-11-LQ-035	401	0.500	1.40	0.0000	2,360	4.00	2.00	0.000	4.00	0.000	26,600	20.0
WP-05-LQ-037	907	1.00	2.00	0.000	21,400	30.0	2.00	0.000	4.00	0.000	132,000	100
WP-04-LQ-039	828	1.10	2.00	0.000	20,500	30.0	2.00	0.000	4.00	0.000	146,000	100
WP-12-LQ-041	785	1.10	2.00	0.000	14,800	20.0	2.00	0.000	4.00	0.000	100,000	100
WP-11-LQ-043	429	0.600	2.00	0.000	2,970	6.00	2.00	0.000	4.00	0.000	34,700	20.0
WP-10-LQ-045	367	0.500	2.00	0.000	4,420	8.00	2.00	0.000	4.00	0.000	45,000	30.0
WP-14-LQ-046	318	0.400	0.900	0.100	4,340	7.00	68.0	19.0	4.00	0.000	31,200	20.0
WP-01-LQ-048	192	0.300	0.200	0.100	1,480	3.00	2.00	0.000	4.00	0.000	19,100	10.0
WP-10-LQ-050	279	0.400	2.00	0.000	1,770	4.00	2.00	0.000	4.00	0.000	25,600	20.0
WP-14-LQ-052	679	0.900	2.00	0.000	14,600	20.0	2.00	0.000	4.00	0.000	93,500	60.0

Appendix F – XRF Liquids Analysis

Study ID	Chromium Result (ppm)	Chromium Error (ppm)	Cobalt Result (ppm)	Cobalt Error (ppm)	Copper Result (ppm)	Copper Error (ppm)	Gallium Result (ppm)	Gallium Error (ppm)	Germanium Result (ppm)	Germanium Error (ppm)
WT-04-LQ-204	40.7	0.300	3.00	0.000	0.600	0.200	0.100	0.000	0.500	0.000
WT-05-LQ-206	32.6	0.300	3.00	0.000	0.900	0.200	0.300	0.100	0.500	0.000
WT-13-LQ-212	25.1	0.200	3.00	0.000	0.900	0.100	0.100	0.100	0.500	0.000
WT-14-LQ-214	23.0	0.200	3.00	0.000	1.00	0.100	0.100	0.100	0.500	0.000
WT-17-LQ-220	19.8	0.100	3.00	0.000	0.70	0.100	0.500	0.000	0.500	0.000
WT-11-LQ-222	3,450	4.00	3.00	0.000	1.00	0.400	0.500	0.200	0.500	0.000
WT-15-LQ-226	36.7	0.200	2.20	1.00	1.10	0.100	0.300	0.100	0.500	0.000
WT-09-LQ-228	233	1.00	3.00	0.000	2.40	0.300	1.00	0.200	0.200	0.200
WT-19-LW-232	1,270	2.00	3.00	0.000	1.70	0.200	0.700	0.100	0.500	0.000
WT-25-LQ-234	24.8	0.200	3.00	0.000	1.20	0.200	0.400	0.100	0.500	0.000
WT-06-LQ-248	29.2	0.300	3.00	0.000	0.500	0.200	0.200	0.200	0.500	0.000
WT-08-LQ-240	42.3	0.400	3.00	0.000	1.70	0.200	0.700	0.100	0.500	0.000
WT-16-LQ-244	23.4	0.200	3.00	0.000	0.600	0.100	0.500	0.000	0.500	0.000
WT-20-LQ-250	118	1.10	3.00	0.000	3.50	0.500	1.60	0.300	0.500	0.000
WP-04-LQ-014	115	1.10	3.00	0.000	0.500	0.000	0.300	0.300	0.500	0.000
WT-23-LQ-256	26.0	0.200	3.00	0.000	0.800	0.100	0.500	0.000	0.500	0.000
WT-21-LQ-264	72.1	0.600	3.00	0.000	3.20	0.400	1.50	0.200	0.500	0.000
WT-24-LQ-268	67.1	0.400	3.00	0.000	3.00	0.300	0.10	0.100	0.500	0.000
WT-22-LQ-272	29.8	0.200	3.00	0.000	0.300	0.100	0.500	0.000	0.500	0.000
WP-10-LQ-015	79.5	0.700	3.00	0.000	1.00	0.300	0.600	0.200	0.500	0.000
WT-01-LQ-284	118	0.700	3.00	0.000	1.20	0.400	0.500	0.000	0.500	0.000
WT-02-LQ-278	145	0.800	3.00	0.000	3.80	0.300	1.70	0.200	0.500	0.000
WT-07-LQ-276	32.5	0.200	3.00	0.000	0.700	0.200	0.200	0.100	0.500	0.000
WT-03-LQ-286	45.9	0.200	3.00	0.000	0.900	0.100	0.500	0.000	0.500	0.000
WP-06-LQ-016	44.2	0.200	3.00	0.000	0.800	0.100	0.500	0.000	0.100	0.100
WT-10-LQ-290	26.4	0.200	3.00	0.000	12.1	0.200	0.500	0.000	0.500	0.000
WT-12-LQ-294	83.5	0.300	3.00	0.000	0.600	0.100	0.500	0.000	0.500	0.000
WP-06-LQ-017	93.1	0.600	3.00	0.000	0.400	0.300	0.500	0.000	0.500	0.000
WP-09-LQ-018	179	0.900	3.00	0.000	0.100	0.100	0.400	0.400	0.500	0.000
WP-08-LQ-021	198	1.00	3.00	0.000	2.40	0.500	2.00	0.300	0.500	0.000

Appendix F – XRF Liquids Analysis

Study ID	Chromium Result (ppm)	Chromium Error (ppm)	Cobalt Result (ppm)	Cobalt Error (ppm)	Copper Result (ppm)	Copper Error (ppm)	Gallium Result (ppm)	Gallium Error (ppm)	Germanium Result (ppm)	Germanium Error (ppm)
WP-12-LQ-022	119	0.700	3.00	0.000	0.100	0.100	0.500	0.000	0.500	0.000
WP-18-LQ-024	40.7	0.300	3.00	0.000	2.40	0.200	1.10	0.100	0.500	0.000
WP-19-LQ-029	20.3	0.200	3.00	0.000	1.20	0.100	0.500	0.000	0.500	0.000
WP-20-LQ-031	33.9	0.300	3.00	0.000	1.40	0.200	0.600	0.100	0.500	0.000
WP-21-LQ-033	71.0	0.500	3.00	0.000	1.10	0.300	0.800	0.200	0.500	0.000
WP-11-LQ-035	30.2	0.200	3.00	0.000	0.600	0.200	0.500	0.000	0.500	0.000
WP-05-LQ-037	78.9	0.700	3.00	0.000	1.80	0.500	0.800	0.300	0.500	0.000
WP-04-LQ-039	86.7	1.20	3.00	0.000	3.70	0.600	1.30	0.400	0.500	0.000
WP-12-LQ-041	87.5	0.900	3.00	0.000	2.80	0.600	1.60	0.400	0.500	0.000
WP-11-LQ-043	47.8	0.400	3.00	0.000	0.500	0.500	0.500	0.000	0.200	0.100
WP-10-LQ-045	50.0	0.500	3.00	0.000	2.30	0.300	0.700	0.200	0.500	0.000
WP-14-LQ-046	28.7	0.200	3.00	0.000	0.700	0.200	0.200	0.200	0.500	0.000
WP-01-LQ-048	91.1	0.400	3.00	0.000	0.700	0.200	0.500	0.000	0.500	0.000
WP-10-LQ-050	1,360	2.00	3.00	0.000	0.800	0.200	0.400	0.100	0.500	0.000
WP-14-LQ-052	267	1.10	3.00	0.000	1.30	0.500	0.500	0.000	0.500	0.000

Appendix F – XRF Liquids Analysis

Study ID	Hafnium Result (ppm)	Hafnium Error (ppm)	Iodine Result (ppm)	Iodine Error (ppm)	Iron Result (ppm)	Iron Error (ppm)	Lanthanum Result (ppm)	Lanthanum Error (ppm)	Lead Result (ppm)	Lead Error (ppm)
WT-04-LQ-204	2.10	0.400	3.00	0.000	90.5	0.800	2.00	0.000	1.50	0.100
WT-05-LQ-206	1.30	0.400	3.00	0.000	127	1.00	2.00	0.000	1.60	0.100
WT-13-LQ-212	1.00	0.200	3.00	0.000	102	0.700	2.00	0.000	0.400	0.100
WT-14-LQ-214	0.90	0.200	3.00	0.000	29.5	0.400	2.00	0.000	0.100	0.100
WT-17-LQ-220	1.00	0.000	3.00	0.000	35.3	0.400	2.00	0.000	0.400	0.100
WT-11-LQ-222	1.70	0.600	24.3	4.30	179	1.90	2.00	0.000	3.10	0.100
WT-15-LQ-226	1.20	0.300	3.00	0.000	184	0.900	2.00	0.000	1.00	0.100
WT-09-LQ-228	1.00	1.00	35.8	4.30	332	2.00	2.00	0.000	2.20	0.100
WT-19-LW-232	2.00	0.300	3.00	0.000	1,110	2.00	2.00	0.000	2.00	0.100
WT-25-LQ-234	1.00	0.000	3.00	0.000	35	0.500	2.00	0.000	1.40	0.100
WT-06-LQ-248	0.80	0.300	3.00	0.000	113	0.800	2.00	0.000	1.50	0.100
WT-08-LQ-240	1.00	0.000	3.00	0.000	112	1.00	2.00	0.000	2.10	0.100
WT-16-LQ-244	1.20	0.200	3.00	0.000	36.8	0.40	2.00	0.000	0.300	0.100
WT-20-LQ-250	0.700	0.700	3.00	0.000	1,710	5.00	2.00	0.000	18.7	0.300
WP-04-LQ-014	3.80	1.10	3.00	0.000	209	2.30	2.00	0.000	6.500	0.300
WT-23-LQ-256	1.30	0.300	3.00	0.000	35.4	0.500	2.00	0.000	1.40	0.100
WT-21-LQ-264	0.100	0.100	3.00	0.000	988	3.60	2.00	0.000	12.2	0.300
WT-24-LQ-268	1.70	0.400	24.0	4.40	2,520	4.00	2.00	0.000	2.00	0.100
WT-22-LQ-272	1.30	0.200	3.00	0.000	1,460	2.00	2.00	0.000	0.900	0.1000
WP-10-LQ-015	3.00	0.600	8.40	8.30	880	3.10	2.00	0.000	3.20	0.200
WT-01-LQ-284	1.00	0.00	35.0	4.40	388	2.20	2.00	0.000	2.70	0.100
WT-02-LQ-278	1.70	0.600	45.2	4.40	910	3.20	2.00	0.000	5.20	0.200
WT-07-LQ-276	1.00	0.300	3.00	0.000	36.9	0.500	2.00	0.000	1.10	0.100
WT-03-LQ-286	1.00	0.000	3.00	0.000	821	1.80	2.00	0.000	0.500	0.100
WP-06-LQ-016	1.20	0.200	3.00	0.000	39.3	0.500	2.00	0.000	0.500	0.100
WT-10-LQ-290	1.20	0.300	16.6	4.30	128	0.700	2.00	0.000	0.300	0.100
WT-12-LQ-294	1.70	0.300	8.20	8.10	48.5	0.500	2.00	0.000	0.500	0.100
WP-06-LQ-017	2.70	0.600	3.00	0.000	129	1.30	2.00	0.000	2.00	0.100
WP-09-LQ-018	2.60	0.800	36.8	4.40	238	2.10	2.00	0.000	3.80	0.200
WP-08-LQ-021	1.20	1.20	15.5	4.30	252	2.20	2.00	0.000	3.70	0.200

Appendix F – XRF Liquids Analysis

Study ID	Hafnium Result (ppm)	Hafnium Error (ppm)	Iodine Result (ppm)	Iodine Error (ppm)	Iron Result (ppm)	Iron Error (ppm)	Lanthanum Result (ppm)	Lanthanum Error (ppm)	Lead Result (ppm)	Lead Error (ppm)
WP-12-LQ-022	2.70	0.600	3.00	0.00	122	1.20	2.00	0.000	3.10	0.200
WP-18-LQ-024	0.500	0.500	34.5	4.50	198	1.30	2.00	0.000	1.40	0.100
WP-19-LQ-029	0.900	0.000	12.1	4.40	116	0.700	2.00	0.000	0.800	0.100
WP-20-LQ-031	1.30	0.400	32.5	4.30	303	1.40	2.00	0.000	1.40	0.100
WP-21-LQ-033	2.00	0.500	26.2	4.10	375	1.80	2.00	0.000	1.60	0.100
WP-11-LQ-035	1.10	0.400	19.4	4.50	143	1.00	2.00	0.000	1.90	0.100
WP-05-LQ-037	2.80	0.800	3.00	0.00	437	2.70	2.00	0.000	4.00	0.200
WP-04-LQ-039	0.500	0.500	2.90	2.80	525	3.50	2.00	0.000	5.90	0.300
WP-12-LQ-041	0.900	0.900	5.90	5.90	486	3.30	2.00	0.000	5.60	0.300
WP-11-LQ-043	2.10	0.500	3.00	0.00	245	1.50	2.00	0.000	2.80	0.100
WP-10-LQ-045	2.10	0.500	26.4	4.60	95.5	1.10	2.00	0.000	2.70	0.100
WP-14-LQ-046	1.30	0.300	10.3	4.30	42.2	0.600	2.00	0.000	1.20	0.100
WP-01-LQ-048	1.20	0.300	3.00	0.00	144	0.900	2.00	0.000	1.70	0.100
WP-10-LQ-050	1.00	0.400	3.00	0.00	110	1.00	2.00	0.000	1.90	0.100
WP-14-LQ-052	1.00	0.00	3.00	0.00	304	2.40	2.00	0.000	4.50	0.200

Appendix F – XRF Liquids Analysis

Study ID	Magnesium Result (ppm)	Magnesium Error (ppm)	Manganese Result (ppm)	Manganese Error (ppm)	Mercury Result (ppm)	Mercury Error (ppm)	Molybdenum Result (ppm)	Molybdenum Error (ppm)	Nickel Result (ppm)	Nickel Error (ppm)
WT-04-LQ-204	4,480	80.0	17.0	0.200	0.300	0.000	1.00	0.000	0.500	0.100
WT-05-LQ-206	4,810	84.0	14.4	0.200	1.00	0.000	1.40	0.300	0.500	0.100
WT-13-LQ-212	150	6.20	3.50	0.100	1.00	0.000	1.30	0.300	2.30	0.100
WT-14-LQ-214	247	8.50	3.10	0.100	1.00	0.000	1.20	0.300	0.60	0.100
WT-17-LQ-220	179	7.60	2.70	0.100	0.400	0.100	1.40	0.300	1.00	0.100
WT-11-LQ-222	10,900	140	330	1.80	1.00	0.000	1.10	0.300	1.00	0.100
WT-15-LQ-226	3,870	49.0	13.6	0.100	1.00	0.000	1.00	0.000	34.4	0.300
WT-09-LQ-228	9,610	140	31.1	0.500	1.00	0.000	1.00	0.300	7.90	0.300
WT-19-LW-232	1,480	26.0	125	0.600	0.200	0.100	0.600	0.300	1.70	0.100
WT-25-LQ-234	1,760	35.0	7.90	0.100	0.300	0.100	1.00	0.000	1.40	0.100
WT-06-LQ-248	2,080	38.0	9.00	0.200	0.300	0.100	1.00	0.000	17.4	0.300
WT-08-LQ-240	3,430	63.0	12.3	0.200	1.00	0.000	1.00	0.000	5.00	0.200
WT-16-LQ-244	105	5.40	3.00	0.100	1.00	0.000	1.40	0.300	5.60	0.100
WT-20-LQ-250	8,790	120	31.3	0.800	1.20	0.200	1.00	0.000	19.3	0.500
WP-04-LQ-014	7,810	140	20.3	0.800	1.20	0.200	0.100	0.100	0.900	0.100
WT-23-LQ-256	827	19.0	2.50	0.100	1.00	0.000	1.00	0.000	14.8	0.200
WT-21-LQ-264	5,190	86.0	21.8	0.400	0.400	0.100	1.00	0.000	30.8	0.500
WT-24-LQ-268	4,580	81.0	29.0	0.300	0.300	0.200	0.600	0.600	1.00	0.100
WT-22-LQ-272	497	14.0	6.30	0.100	0.100	0.100	0.800	0.300	1.40	0.100
WP-10-LQ-015	4,150	79.0	18.7	0.400	0.400	0.100	1.00	0.000	2.60	0.200
WT-01-LQ-284	9,620	130	48.9	0.500	1.00	0.000	1.00	0.300	17.3	0.400
WT-02-LQ-278	6,600	120	79.1	0.600	1.00	0.000	1.10	0.300	181	1.00
WT-07-LQ-276	1,390	26.0	7.30	0.100	1.00	0.000	0.300	0.00	0.700	0.100
WT-03-LQ-286	426	12.0	25.1	0.200	1.00	0.000	1.20	0.300	2.10	0.100
WP-06-LQ-016	184	6.90	7.40	0.100	1.00	0.000	1.00	0.000	0.800	0.100
WT-10-LQ-290	99.2	5.30	3.50	0.100	1.00	0.000	1.40	0.3	1.10	0.100
WT-12-LQ-294	176	7.60	9.40	0.200	1.00	0.000	1.10	0.3	1.40	0.100
WP-06-LQ-017	5,570	110	35.2	0.400	0.500	0.1	1.00	0.000	1.00	0.100
WP-09-LQ-018	9,020	150	40.6	0.500	0.700	0.100	1.00	0.000	0.900	0.100
WP-08-LQ-021	14,100	180	46.4	0.600	0.600	0.100	1.00	0.000	1.30	0.100

Appendix F – XRF Liquids Analysis

Study ID	Magnesium Result (ppm)	Magnesium Error (ppm)	Manganese Result (ppm)	Manganese Error (ppm)	Mercury Result (ppm)	Mercury Error (ppm)	Molybdenum Result (ppm)	Molybdenum Error (ppm)	Nickel Result (ppm)	Nickel Error (ppm)
WP-12-LQ-022	3,500	67.0	20.4	0.400	1.00	0.200	1.00	0.000	1.20	0.100
WP-18-LQ-024	7,750	98.0	21.7	0.200	1.00	0.000	0.800	0.300	5.50	0.200
WP-19-LQ-029	1,690	31.0	6.50	0.100	1.00	0.000	1.00	0.300	3.10	0.100
WP-20-LQ-031	4,930	83.0	14.0	0.200	1.00	0.000	0.600	0.300	3.20	0.100
WP-21-LQ-033	6,320	100	25.3	0.300	1.00	0.000	1.10	0.300	5.50	0.200
WP-11-LQ-035	4,950	54.0	12.7	0.100	0.400	0.100	1.00	0.000	3.80	0.200
WP-05-LQ-037	10,400	190	26.4	0.400	0.700	0.100	0.900	0.400	11.9	0.400
WP-04-LQ-039	10,600	180	18.7	0.700	1.70	0.300	1.00	0.000	11.1	0.500
WP-12-LQ-041	7,400	140	19.8	0.600	1.60	0.300	0.100	0.100	8.60	0.500
WP-11-LQ-043	2,980	56.0	12.4	0.200	1.00	0.000	1.00	0.000	4.00	0.200
WP-10-LQ-045	3,880	71.0	13.2	0.400	0.700	0.100	1.00	0.000	0.800	0.100
WP-14-LQ-046	4,220	59.0	7.80	0.100	0.300	0.000	1.30	0.300	0.300	0.100
WP-01-LQ-048	2,650	38.0	15.1	0.200	0.300	0.100	12.9	0.400	3.00	0.100
WP-10-LQ-050	2,210	47.0	147	0.800	0.400	0.300	13.3	0.400	1.00	0.100
WP-14-LQ-052	7,050	130	39.2	0.600	0.500	0.100	1.00	0.000	6.30	0.300

Appendix F – XRF Liquids Analysis

Study ID	Niobium Result (ppm)	Niobium Error (ppm)	Phosphorus Result (ppm)	Phosphorus Error (ppm)	Potassium Result (ppm)	Potassium Error (ppm)	Rubidium Result (ppm)	Rubidium Error (ppm)	Selenium Result (ppm)	Selenium Error (ppm)
WT-04-LQ-204	1.00	0.000	3.00	0.000	222	2.40	0.500	0.000	0.500	0.000
WT-05-LQ-206	1.00	0.000	3.00	0.000	363	3.10	0.500	0.000	0.500	0.000
WT-13-LQ-212	1.00	0.000	17.0	0.500	25.0	0.600	0.100	0.100	0.500	0.000
WT-14-LQ-214	1.00	0.000	0.400	0.400	20.3	0.600	0.500	0.000	0.500	0.000
WT-17-LQ-220	0.700	0.300	9.400	0.600	16.0	0.600	0.500	0.000	0.500	0.000
WT-11-LQ-222	1.00	0.000	3.00	0.000	194	3.60	0.500	0.000	0.500	0.000
WT-15-LQ-226	1.00	0.000	3.00	0.000	44.1	1.10	0.500	0.000	0.500	0.000
WT-09-LQ-228	1.00	0.000	3.00	0.000	120	3.00	0.500	0.000	0.500	0.000
WT-19-LW-232	1.00	0.000	3.00	0.000	1,180	4.00	2.30	0.100	0.500	0.000
WT-25-LQ-234	1.00	0.000	3.00	0.000	66.6	1.10	0.500	0.100	0.500	0.000
WT-06-LQ-248	1.00	0.000	3.00	0.000	74.6	1.10	0.600	0.200	0.200	0.100
WT-08-LQ-240	1.00	0.000	3.00	0.000	81.2	1.60	0.300	0.300	0.400	0.100
WT-16-LQ-244	1.00	0.000	8.70	0.500	13.5	0.500	0.100	0.100	0.500	0.000
WT-20-LQ-250	1.00	0.000	3.00	0.000	959	5.60	0.600	0.600	0.500	0.000
WP-04-LQ-014	1.00	0.000	3.00	0.000	150	3.80	0.500	0.000	1.90	0.200
WT-23-LQ-256	1.00	0.000	3.00	0.000	68.8	1.00	0.500	0.100	0.500	0.000
WT-21-LQ-264	1.00	0.000	3.00	0.000	407	3.60	0.100	0.100	0.300	0.100
WT-24-LQ-268	1.00	0.000	3.00	0.000	295	2.60	0.500	0.000	0.500	0.000
WT-22-LQ-272	1.00	0.000	3.00	0.000	45.8	0.800	0.200	0.100	0.500	0.000
WP-10-LQ-015	1.00	0.000	3.00	0.000	161	2.60	0.100	0.100	0.500	0.000
WT-01-LQ-284	1.00	0.000	3.00	0.000	328	3.80	0.500	0.000	0.500	0.000
WT-02-LQ-278	0.500	0.500	3.00	0.000	298	3.60	0.500	0.000	0.500	0.000
WT-07-LQ-276	1.00	0.000	3.00	0.000	101	1.30	1.50	0.100	0.500	0.000
WT-03-LQ-286	0.400	0.400	3.00	0.000	19.8	0.600	0.200	0.100	0.500	0.000
WP-06-LQ-016	1.10	0.300	17.3	0.500	29.4	0.700	0.100	0.100	0.500	0.000
WT-10-LQ-290	0.700	0.300	10.4	0.500	27	0.700	0.500	0.000	0.500	0.000
WT-12-LQ-294	0.300	0.300	15.7	0.600	54.1	0.900	0.200	0.100	0.500	0.000
WP-06-LQ-017	1.00	0.000	3.00	0.000	294	3.50	0.500	0.000	0.500	0.000
WP-09-LQ-018	1.00	0.000	3.00	0.000	314	4.40	0.500	0.000	0.500	0.000
WP-08-LQ-021	1.00	0.000	3.00	0.000	296	4.80	0.500	0.000	5.00	0.00

Appendix F – XRF Liquids Analysis

Study ID	Niobium Result (ppm)	Niobium Error (ppm)	Phosphorus Result (ppm)	Phosphorus Error (ppm)	Potassium Result (ppm)	Potassium Error (ppm)	Rubidium Result (ppm)	Rubidium Error (ppm)	Selenium Result (ppm)	Selenium Error (ppm)
WP-12-LQ-022	1.00	0.000	3.00	0.000	88.2	1.90	0.300	0.000	0.600	0.100
WP-18-LQ-024	1.00	0.000	3.00	0.000	90.1	2.20	0.500	0.000	0.500	0.000
WP-19-LQ-029	1.00	0.000	3.00	0.000	40.7	0.900	0.500	0.000	0.500	0.000
WP-20-LQ-031	1.00	0.000	3.00	0.000	68	1.70	0.500	0.000	5.00	0.000
WP-21-LQ-033	0.200	0.200	3.00	0.000	70	2.20	0.500	0.000	0.500	0.000
WP-11-LQ-035	1.00	0.000	3.00	0.000	389	2.20	2.00	0.300	0.500	0.000
WP-05-LQ-037	1.00	0.000	3.00	0.000	382	5.30	0.500	0.000	0.500	0.000
WP-04-LQ-039	1.00	0.000	3.00	0.000	202	4.80	0.500	0.000	1.60	0.200
WP-12-LQ-041	1.00	0.000	3.00	0.000	156	3.50	0.500	0.000	1.90	0.200
WP-11-LQ-043	1.00	0.000	3.00	0.000	484	3.10	1.30	0.300	0.600	0.100
WP-10-LQ-045	1.00	0.000	3.00	0.000	106	2.00	0.500	0.000	0.700	0.100
WP-14-LQ-046	1.00	0.000	3.00	0.000	219	2.10	0.500	0.000	0.500	0.000
WP-01-LQ-048	1.00	0.000	3.00	0.000	43.7	1.00	0.200	0.200	0.500	0.000
WP-10-LQ-050	1.00	0.000	3.00	0.000	75.1	1.30	2.00	0.200	0.500	0.000
WP-14-LQ-052	1.00	0.000	3.00	0.000	301	3.90	0.500	0.000	0.700	0.200

Appendix F – XRF Liquids Analysis

Study ID	Silicon Result (ppm)	Silicon Error (ppm)	Silver Result (ppm)	Silver Error (ppm)	Sodium Result (ppm)	Sodium Error (ppm)	Strontium Result (ppm)	Strontium Error (ppm)	Sulfur Result (ppm)	Sulfur Error (ppm)	Tantalum Result (ppm)	Tantalum Error (ppm)
WT-04-LQ-204	79.4	5.90	2.00	0.000	9,600	97.0	294	0.400	2.00	0.000	14.8	0.400
WT-05-LQ-206	853	11.0	2.00	0.000	9,840	100	206	0.300	131	2.90	14.9	0.500
WT-13-LQ-212	280	1.50	2.00	0.000	1,010	736	0.200	0.100	75.5	0.400	8.60	0.300
WT-14-LQ-214	25.4	0.600	2.00	0.000	1,010	843	11.5	0.100	58.4	0.400	7.60	0.300
WT-17-LQ-220	92.1	1.10	2.00	0.000	1,010	845	17.8	0.100	30.2	0.400	9.10	0.300
WT-11-LQ-222	5.10	0.000	2.00	0.000	19,600	170	1,160	1.00	48.3	2.60	22.2	0.700
WT-15-LQ-226	5.10	0.000	2.00	0.000	7,370	59.0	185	0.300	48.7	1.30	9.30	0.300
WT-09-LQ-228	5.10	0.000	2.00	0.000	17,200	170	876	0.800	2.00	0.000	16.9	0.700
WT-19-LW-232	8,710	11.0	2.00	0.000	2,920	34.0	448	0.500	155	1.10	11.1	0.400
WT-25-LQ-234	5.10	0.000	2.00	0.000	4,210	43.0	982	0.800	2.00	0.000	10.7	0.400
WT-06-LQ-248	5.10	0.000	2.00	0.000	4,350	45.0	1,160	1.00	2.00	0.000	11.2	0.400
WT-08-LQ-240	5.10	0.000	2.00	0.000	7,690	76.0	1,670	1.00	2.00	0.000	12.1	0.500
WT-16-LQ-244	10.4	0.200	2.00	0.000	1,010	740	0.400	0.100	39.1	0.30	9.40	0.300
WT-20-LQ-250	5,320	23.0	2.00	0.000	12,800	130	4,380	3.00	889	6.00	27.0	1.00
WP-04-LQ-014	5.10	0.000	2.00	0.000	16,800	160	6,080	4.00	2.00	0.000	40.9	1.30
WT-23-LQ-256	215	2.40	2.00	0.000	1,910	28.0	425	0.40	15.5	0.600	10.7	0.300
WT-21-LQ-264	2,160	14.0	2.00	0.000	10,900	110	2,500	2.00	159	3.20	18.6	0.800
WT-24-LQ-268	0.100	0.000	2.00	0.000	9,450	95.0	733	0.700	2.00	0.000	16.2	0.500
WT-22-LQ-272	122	1.70	2.00	0.000	1,410	21.0	223	0.300	67.1	0.600	10.8	0.300
WP-10-LQ-015	5.10	0.000	2.00	0.000	8,780	100	1,800	1.00	2.00	0.000	23.0	0.700
WT-01-LQ-284	1,310	18.0	2.00	0.000	15,800	160	1,160	1.00	759	6.60	2.80	0.700
WT-02-LQ-278	209	11.0	2.00	0.000	14,600	140	872	0.800	192	4.30	13.7	0.700
WT-07-LQ-276	236	3.10	2.00	0.000	2,900	35.0	848	0.700	2.00	0.000	11.2	0.300
WT-03-LQ-286	136	1.30	2.00	0.000	994	17.0	1.90	0.100	1,420	1.00	9.10	0.300
WP-06-LQ-016	112	1.00	2.00	0.000	1,010	720	0.500	0.000	21.4	0.300	9.50	0.300
WT-10-LQ-290	343	1.70	2.00	0.000	1,010	846	0.800	0.100	77.4	0.400	7.00	0.300
WT-12-LQ-294	134	1.20	2.00	0.000	1,140	18.0	1.10	0.100	43.9	0.400	10.6	0.300
WP-06-LQ-017	5.10	0.000	2.00	0.000	12,800	140	1,090	1.00	2.00	0.000	25.2	0.700
WP-09-LQ-018	5.10	0.000	2.00	0.000	18,400	180	3,350	2.00	2.00	0.000	30.1	0.900
WP-08-LQ-021	5.10	0.000	2.00	0.000	21,600	210	3,380	2.00	2.00	0.000	24.3	1.00

Appendix F – XRF Liquids Analysis

Study ID	Silicon Result (ppm)	Silicon Error (ppm)	Silver Result (ppm)	Silver Error (ppm)	Sodium Result (ppm)	Sodium Error (ppm)	Strontium Result (ppm)	Strontium Error (ppm)	Sulfur Result (ppm)	Sulfur Error (ppm)	Tantalum Result (ppm)	Tantalum Error (ppm)
WP-12-LQ-022	5.10	0.000	2.00	0.000	7,970	80.0	2,270	2.00	2.00	0.000	22.5	0.700
WP-18-LQ-024	5.10	0.000	2.00	0.000	12,200	120	162	0.300	2.00	0.000	11.2	0.500
WP-19-LQ-029	469	4.20	2.00	0.000	3,360	38.0	31.3	0.100	399	1.40	9.40	0.300
WP-20-LQ-031	5.10	0.000	2.00	0.000	9,890	98.0	64.3	0.200	2.00	0.000	12.1	0.400
WP-21-LQ-033	5.10	0.000	2.00	0.000	13,900	130	118	0.200	2.00	0.000	15.4	0.500
WP-11-LQ-035	5,110	12.0	2.00	0.000	8,030	58.0	1,980	1.00	2.00	0.000	1.10	0.100
WP-05-LQ-037	5.10	0.000	2.00	0.000	22,100	220	2,570	2.00	2.00	0.000	28.7	0.900
WP-04-LQ-039	5.10	0.000	2.00	0.000	23,800	220	6,030	4.00	2.00	0.000	31.4	1.20
WP-12-LQ-041	5.10	0.000	2.00	0.000	15,700	160	6,180	4.00	2.00	0.000	29.2	1.20
WP-11-LQ-043	5.10	0.000	2.00	0.000	7,550	77.0	2,190	2.00	2.00	0.000	19.2	0.600
WP-10-LQ-045	5.10	0.000	2.00	0.000	8,980	89.0	1,900	1.00	2.00	0.000	16.8	0.600
WP-14-LQ-046	5.10	0.000	2.00	0.000	6,530	70.0	862	0.700	2.00	0.000	13.2	0.400
WP-01-LQ-048	682	6.60	2.00	0.000	4,570	46.0	1,240	1.00	2.00	0.000	12.8	0.400
WP-10-LQ-050	5.10	0.000	2.00	0.000	5,520	56.0	1,450	1.00	2.00	0.000	14.2	0.500
WP-14-LQ-052	5.10	0.000	2.00	0.000	14,700	160	3,780	3.00	2.00	0.000	28.3	1.00

Appendix F – XRF Liquids Analysis

Study ID	Tellurium Result (ppm)	Tellurium Error (ppm)	Thallium Result (ppm)	Thallium Error (ppm)	Thorium Result (ppm)	Thorium Error (ppm)	Tin Result (ppm)	Tin Error (ppm)	Titanium Result (ppm)	Titanium Error (ppm)
WT-04-LQ-204	3.00	0.000	1.10	0.100	0.700	0.100	3.00	0.000	33.0	0.500
WT-05-LQ-206	3.00	0.000	0.900	0.100	0.600	0.100	3.00	0.000	62.0	0.700
WT-13-LQ-212	3.00	0.000	0.100	0.100	0.100	0.100	3.00	0.000	14.2	0.200
WT-14-LQ-214	3.00	0.000	1.00	0.000	0.300	0.100	3.00	0.000	3.40	0.100
WT-17-LQ-220	3.00	0.000	0.300	0.100	0.200	0.100	3.00	0.000	6.80	0.200
WT-11-LQ-222	3.00	0.000	0.700	0.400	1.00	0.000	3.00	0.000	21.0	2.10
WT-15-LQ-226	3.00	0.000	0.70	0.100	0.60	0.100	3.00	0.000	5.00	0.500
WT-09-LQ-228	3.00	0.000	0.400	0.200	1.00	0.000	3.00	0.000	6.10	1.00
WT-19-LW-232	3.00	0.000	0.600	0.100	0.30	0.100	3.00	0.000	146	1.70
WT-25-LQ-234	3.00	0.000	0.700	0.100	1.00	0.000	3.00	0.000	36.0	1.70
WT-06-LQ-248	3.00	0.000	1.00	0.100	1.00	0.000	3.00	0.000	34.8	1.60
WT-08-LQ-240	3.00	0.000	1.00	0.100	1.00	0.000	3.00	0.000	46.8	2.10
WT-16-LQ-244	3.00	0.000	1.00	0.000	1.00	0.000	3.00	0.000	2.70	0.100
WT-20-LQ-250	3.00	0.000	1.90	0.300	1.00	0.000	4.20	0.100	277	8.10
WP-04-LQ-014	3.00	0.000	4.50	0.300	1.00	0.000	7.30	0.200	78.3	8.20
WT-23-LQ-256	3.00	0.000	0.600	0.100	0.20	0.200	3.00	0.000	9.70	0.200
WT-21-LQ-264	3.00	0.000	1.200	0.200	1.00	0.000	3.00	0.000	113	3.20
WT-24-LQ-268	3.00	0.000	0.800	0.100	0.30	0.200	3.00	0.000	14.9	1.00
WT-22-LQ-272	3.00	0.000	0.200	0.100	0.20	0.200	3.00	0.000	2.90	0.400
WP-10-LQ-015	3.00	0.000	2.10	0.200	1.00	0.000	3.00	0.000	101	4.00
WT-01-LQ-284	3.00	0.000	0.400	0.100	1.00	0.000	3.00	0.000	59.6	2.00
WT-02-LQ-278	3.00	0.000	0.500	0.100	1.00	0.000	3.00	0.000	67.2	1.70
WT-07-LQ-276	3.00	0.000	1.10	0.100	1.00	0.000	3.00	0.000	6.50	0.800
WT-03-LQ-286	3.00	0.000	1.00	0.00	0.40	0.100	3.00	0.000	3.50	0.100
WP-06-LQ-016	3.00	0.000	0.300	0.100	0.40	0.100	3.00	0.000	3.00	0.100
WT-10-LQ-290	3.00	0.000	0.500	0.100	1.00	0.000	3.00	0.000	363	1.00
WT-12-LQ-294	3.00	0.000	0.200	0.200	0.200	0.100	3.00	0.000	3.80	0.200
WP-06-LQ-017	3.00	0.000	0.800	0.100	1.00	0.000	3.00	0.000	19.1	0.500
WP-09-LQ-018	3.00	0.000	0.700	0.100	1.00	0.000	3.00	0.000	5.50	1.00
WP-08-LQ-021	3.00	0.000	1.70	0.200	1.00	0.000	3.00	0.000	5.90	1.20

Appendix F – XRF Liquids Analysis

Study ID	Tellurium Result (ppm)	Tellurium Error (ppm)	Thallium Result (ppm)	Thallium Error (ppm)	Thorium Result (ppm)	Thorium Error (ppm)	Tin Result (ppm)	Tin Error (ppm)	Titanium Result (ppm)	Titanium Error (ppm)
WP-12-LQ-022	3.00	0.000	1.20	0.200	1.00	0.000	3.00	0.000	95.6	3.20
WP-18-LQ-024	3.00	0.000	1.00	0.000	0.400	0.100	3.00	0.000	5.70	0.200
WP-19-LQ-029	3.00	0.000	0.200	0.200	0.500	0.100	3.00	0.000	4.60	0.100
WP-20-LQ-031	3.00	0.000	0.500	0.100	0.900	0.100	3.00	0.000	7.40	0.200
WP-21-LQ-033	3.00	0.000	0.300	0.100	0.800	0.100	3.00	0.000	13.1	0.400
WP-11-LQ-035	3.00	0.000	1.10	0.100	1.00	0.000	3.00	0.000	11.9	0.700
WP-05-LQ-037	3.00	0.000	1.40	0.200	1.00	0.000	3.00	0.000	25.3	0.700
WP-04-LQ-039	3.00	0.000	2.70	0.300	1.00	0.000	3.00	0.000	262	8.10
WP-12-LQ-041	3.00	0.000	2.50	0.300	1.00	0.000	3.00	0.000	55.9	6.60
WP-11-LQ-043	3.00	0.000	1.20	0.100	1.00	0.000	3.00	0.000	10.2	1.30
WP-10-LQ-045	3.00	0.000	1.30	0.200	1.00	0.000	3.00	0.000	40.4	4.10
WP-14-LQ-046	3.00	0.000	0.900	0.100	1.00	0.000	3.00	0.000	7.00	0.200
WP-01-LQ-048	3.00	0.000	0.500	0.100	1.00	0.000	3.00	0.000	24.6	1.90
WP-10-LQ-050	3.00	0.000	0.900	0.100	1.00	0.000	3.00	0.000	97.2	2.80
WP-14-LQ-052	3.00	0.000	2.00	0.200	1.00	0.000	3.00	0.000	102	3.50

Appendix F – XRF Liquids Analysis

Study ID	Tungsten Result (ppm)	Tungsten Error (ppm)	Uranium Result (ppm)	Uranium Error (ppm)	Vanadium Result (ppm)	Vanadium Error (ppm)	Yttrium Result (ppm)	Yttrium Error (ppm)	Zinc Result (ppm)	Zinc Error (ppm)
WT-04-LQ-204	0.500	0.100	1.00	0.000	2.30	0.200	0.600	0.100	1.30	0.100
WT-05-LQ-206	0.500	0.200	1.00	0.000	7.80	0.300	0.600	0.100	2.10	0.100
WT-13-LQ-212	1.00	0.000	0.100	0.100	1.10	0.100	0.300	0.100	0.600	0.100
WT-14-LQ-214	0.300	0.200	0.400	0.100	1.00	0.100	0.400	0.100	1.20	0.100
WT-17-LQ-220	0.000	1.00	1.00	0.000	1.00	0.000	0.400	0.100	1.20	0.100
WT-11-LQ-222	1.00	0.000	1.50	0.100	19.4	0.900	0.900	0.100	2.10	0.200
WT-15-LQ-226	1.00	0.000	0.600	0.100	1.40	0.200	0.300	0.100	0.700	0.100
WT-09-LQ-228	0.400	0.100	0.400	0.100	2.6	0.300	0.900	0.100	1.80	0.200
WT-19-LW-232	0.600	0.100	5.20	0.100	13.2	0.700	0.600	0.100	2.80	0.100
WT-25-LQ-234	0.400	0.200	9.10	0.200	6.50	0.600	1.20	0.100	0.500	0.100
WT-06-LQ-248	1.00	0.000	10.7	0.200	6.80	0.600	1.50	0.100	1.10	0.100
WT-08-LQ-240	1.00	0.000	14.0	0.300	8.60	0.800	1.90	0.100	1.40	0.100
WT-16-LQ-244	1.00	0.000	1.00	0.000	0.900	0.100	0.300	0.100	1.20	0.100
WT-20-LQ-250	1.20	0.00	25.1	0.500	22.4	3.00	5.40	0.200	11.2	0.300
WP-04-LQ-014	1.50	0.400	21.7	0.600	12.6	2.90	8.30	0.200	6.80	0.400
WT-23-LQ-256	1.00	0.000	4.90	0.100	2.10	0.100	0.400	0.100	1.20	0.100
WT-21-LQ-264	1.00	0.000	17.3	0.300	13.6	1.20	2.70	0.100	14.7	0.300
WT-24-LQ-268	0.500	0.000	4.00	0.100	3.80	0.300	0.900	0.100	1.50	0.100
WT-22-LQ-272	1.00	0.000	2.80	0.100	0.800	0.100	0.300	0.100	0.800	0.100
WP-10-LQ-015	1.10	0.200	17.8	0.300	14.4	1.40	2.30	0.100	2.00	0.200
WT-01-LQ-284	1.00	0.000	2.30	0.100	9.40	0.700	0.800	0.100	2.40	0.200
WT-02-LQ-278	1.00	0.000	0.700	0.100	31.9	0.800	0.800	0.100	4.10	0.200
WT-07-LQ-276	0.400	0.100	9.40	0.200	1.90	0.300	0.900	0.100	0.800	0.100
WT-03-LQ-286	1.00	0.000	0.300	0.100	1.30	0.100	0.500	0.100	2.90	0.100
WP-06-LQ-016	1.00	0.000	0.400	0.100	1.70	0.100	0.400	0.100	0.400	0.100
WT-10-LQ-290	0.600	0.100	1.00	0.000	0.500	0.200	0.400	0.100	2.20	0.100
WT-12-LQ-294	0.300	0.100	0.300	0.100	0.500	0.100	0.400	0.100	0.800	0.100
WP-06-LQ-017	0.600	0.200	5.60	0.200	5.10	0.300	1.00	0.100	1.80	0.200
WP-09-LQ-018	1.00	0.000	10.4	0.300	2.90	0.300	3.30	0.100	1.80	0.300
WP-08-LQ-021	0.90	0.300	9.30	0.300	3.00	0.400	3.40	0.100	1.80	0.300

Appendix F – XRF Liquids Analysis

Study ID	Tungsten Result (ppm)	Tungsten Error (ppm)	Uranium Result (ppm)	Uranium Error (ppm)	Vanadium Result (ppm)	Vanadium Error (ppm)	Yttrium Result (ppm)	Yttrium Error (ppm)	Zinc Result (ppm)	Zinc Error (ppm)
WP-12-LQ-022	1.00	0.000	18.0	0.300	15.1	1.20	2.70	0.100	1.90	0.200
WP-18-LQ-024	0.500	0.200	1.00	0.000	2.30	0.100	0.600	0.100	2.40	0.100
WP-19-LQ-029	0.300	0.200	1.00	0.000	1.60	0.100	0.300	0.100	1.60	0.100
WP-20-LQ-031	1.00	0.000	1.00	0.000	2.00	0.100	0.400	0.100	1.40	0.100
WP-21-LQ-033	0.600	0.300	1.00	0.000	4.20	0.200	0.600	0.100	2.90	0.100
WP-11-LQ-035	1.00	0.000	17.1	0.300	2.80	0.300	3.20	0.100	0.800	0.100
WP-05-LQ-037	0.600	0.200	11.2	0.300	5.40	0.300	2.70	0.100	2.30	0.300
WP-04-LQ-039	1.40	0.600	30.7	0.600	29.5	2.90	7.60	0.200	1.70	0.300
WP-12-LQ-041	1.40	0.500	24.3	0.600	9.40	2.20	7.50	0.200	2.10	0.300
WP-11-LQ-043	0.100	0.400	19.7	0.300	4.00	0.400	2.60	0.100	1.20	0.200
WP-10-LQ-045	0.600	0.200	15.1	0.300	9.90	1.50	2.00	0.100	1.30	0.200
WP-14-LQ-046	1.00	0.000	6.30	0.100	0.900	0.100	0.80	0.100	0.700	0.100
WP-01-LQ-048	0.4	0.000	12.0	0.200	6.10	0.700	1.80	0.100	1.20	0.100
WP-10-LQ-050	1.00	0.000	11.9	0.200	25.8	1.20	1.80	0.100	0.800	0.100
WP-14-LQ-052	1.1	0.400	21.1	0.400	18.7	1.30	3.70	0.100	1.40	0.200

Appendix F – XRF Liquids Analysis

Study ID	Zirconium Result (ppm)	Zirconium Error (ppm)
WT-04-LQ-204	1.00	0.000
WT-05-LQ-206	1.00	0.000
WT-13-LQ-212	0.400	0.400
WT-14-LQ-214	1.00	0.000
WT-17-LQ-220	1.00	0.000
WT-11-LQ-222	1.00	0.000
WT-15-LQ-226	1.00	0.000
WT-09-LQ-228	1.00	0.000
WT-19-LW-232	1.00	0.000
WT-25-LQ-234	1.00	0.000
WT-06-LQ-248	1.00	0.000
WT-08-LQ-240	1.00	0.000
WT-16-LQ-244	0.600	0.200
WT-20-LQ-250	1.00	0.000
WP-04-LQ-014	1.00	0.000
WT-23-LQ-256	1.00	0.000
WT-21-LQ-264	1.00	0.000
WT-24-LQ-268	1.00	0.000
WT-22-LQ-272	1.00	0.000
WP-10-LQ-015	1.00	0.000
WT-01-LQ-284	1.00	0.000
WT-02-LQ-278	1.00	0.000
WT-07-LQ-276	1.00	0.000
WT-03-LQ-286	1.00	0.000
WP-06-LQ-016	0.500	0.200
WT-10-LQ-290	1.00	0.000
WT-12-LQ-294	1.00	0.000
WP-06-LQ-017	1.00	0.000
WP-09-LQ-018	1.00	0.000
WP-08-LQ-021	1.00	0.000

Appendix F – XRF Liquids Analysis

Study ID	Zirconium Result (ppm)	Zirconium Error (ppm)
WP-12-LQ-022	1.00	0.000
WP-18-LQ-024	1.00	0.000
WP-19-LQ-029	1.00	0.000
WP-20-LQ-031	1.00	0.000
WP-21-LQ-033	1.00	0.000
WP-11-LQ-035	1.00	0.000
WP-05-LQ-037	1.00	0.000
WP-04-LQ-039	1.00	0.000
WP-12-LQ-041	1.00	0.000
WP-11-LQ-043	1.00	0.000
WP-10-LQ-045	1.00	0.000
WP-14-LQ-046	1.00	0.000
WP-01-LQ-048	1.00	0.000
WP-10-LQ-050	1.00	0.000
WP-14-LQ-052	1.00	0.000