Appendix E –

Project Data Quality Parameter Crosswalk

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Field Data Quality Parameters							
Data Quality Indicator (PARCC Parameter)	**Field Activity - Check**	**Equipment**	**Calibration**	**Operability Check**	**Acceptance Criteria**	**Criteria Identified**	**Criteria Met Y/N**
Precision	Soil Samples	Duplicate Sample	Not applicable	Not applicable	10% Relative Difference (RPD) between duplicates, 1/10 samples and 2 duplicates per sub-area	Quality Assurance Project Plan - A.6.1, B.5.2.1	Y
Precision	No Soil Sample Cross-Contamination	Equipment Rinsate Blanks	Not applicable	Not applicable	Less than Minimum Detectable Concentration (MDC) on equipment rinsate blanks	Quality Assurance Project Plan - A.6.1, B.4.1, B.5.2.2	Y
Precision	No Sample Equipment Cross-Contamination	Deionized Water Blank	Not applicable	Not applicable	Less than Detection Limits in DI water blanks	Quality Assurance Project Plan - A.6.1, B.4.1, B.5.2.2	Y
Accuracy	Course Grid Walkover	Ludlum 2241-2 Scaler/Ratemeter coupled with 2"X2" NaI Gamma Detector and GPS Instrument	Annual calibration. Daily source checks.	Daily (3 times/day)	Within annual calibration, +/-20% source gross cpm	Quality Assurance Project Plan - A.6.1, B.6.1, B.7.1	Y
Accuracy	Location Specific Static Survey	Bicron Microrem Meter	Annual calibration. Daily source checks.	Daily (3 times/day)	Within annual calibration, +/- 20% source uRem/hr	Quality Assurance Project Plan - A.6.1, B.6.1, B.7.1	Y

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Accuracy	Location Specific Static Survey	Ludlum 2241-2 Scaler/Ratemeter coupled with 2"X2" Nal Gamma Detector	Annual calibration. Daily source checks.	Daily (3 times/day)	Within annual calibration, +/-20% source Gross cpm	Quality Assurance Project Plan - A.6.1, B.6.1, B.7.1	Y
Representativeness	Walkover Area Location	Global Positioning System (GPS)	Not applicable. Commercial GPS.	Daily.	At designated walkover location. Verified with multiple GPS' and landmarks.	Quality Assurance Project Plan - A.6.1	Y
Representativeness	Sample Area Location	GPS	Not applicable. Commercial GPS.	Daily.	At designated sample location. Verified with multiple GPS' and landmarks.	Quality Assurance Project Plan - A.6.1	Y
Representativeness	Soil Depth Determination	Standard Tape Measure/Ruler	Not applicable. Standard measuring device.	Not applicable.	Samples collected at designated depths, verified by second technician.	Quality Assurance Project Plan - A.6.1	Y
Completeness	Sampling	Not applicable	Not applicable	Not applicable	95% of samples targeted for Collection	Quality Assurance Project Plan - A.6.1	Y
Completeness	Data Usability	Not applicable	Not applicable	Not applicable	90% data usability	Quality Assurance Project Plan - A.6.1	Y

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Laboratory Data Quality Parameters				
Data Quality Indicator (PARCC Parameter)	**Parameter**	**Acceptance Criteria**	**Criteria Identified**	**Criteria Met Y/N**
Precision	Relative Percent Difference (RPD)	10%	Quality Assurance Project Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	Y
Precision	Relative Error Ratio (RER)	< 1.96	Quality Assurance Project Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	Y
Precision	Background Data	Initial startup calibration	Quality Assurance Project Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	Y
Precision	Count Time	Per GEL analytical method	Quality Assurance Project Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	Y
Accuracy	Matrix Spike (MS) or MS/Matrix Spike Duplicate (MSD)	GEL QAP	Quality Assurance Project Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	Y
Accuracy	Tracer Percent Recovery (R)	GEL QAP	Quality Assurance Project Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	Y
Accuracy	Sample & Standards Prep	10%	Quality Assurance Project	Y

	Batch Calculations		Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	
Accuracy/Precision	Instrument Calibration (Initial & Continuing)	1 per 24 hrs (ICV) 1 per 12 hrs (CCV)	Quality Assurance Project Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	Y
Accuracy/Precision	Frequency of Calibration	1 per 24 hrs (ICV) 1 per 12 hrs (CCV)	Quality Assurance Project Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	
Accuracy/Completeness	10% Sample and Standards Traceability	NIST traceable standards	Quality Assurance Project Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	Y
Representativeness	Field and Method Blanks	< MDC and 2s counting uncertainty	Quality Assurance Project Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	Y
Completeness	Chain-of-Custody (COC) Review	Completeness	Quality Assurance Project Plan A.6.1, B.4, B.5.3, analytical methods, GEL Quality Assurance Plan, es/er/ms-5	Y