

11/18/15

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3. STATIC RADIATION MEASUREMENTS and SOIL SAMPLING (Initial as Performed)

Conduct Tailgate Safety Review.....	TB 11/15	_____	_____	_____
	(date)	(date)	(date)	(date)
Review sampling parameters	TB 11/14	_____	_____	_____
	(date)	(date)	(date)	(date)
Verify all required tools, supplies, and equipment available	TB 11/15	_____	_____	_____
	(date)	(date)	(date)	(date)
Prepare radiological instruments for use and perform operability checks.....	TB 11/14	_____	_____	_____
	(date)	(date)	(date)	(date)
Collect Digital image(s) including location sign.....	TB 11/15	_____	_____	_____
	(date)	(date)	(date)	(date)
Collect static radiation readings in accordance with procedure.....	TB 11/15	_____	_____	_____
	(date)	(date)	(date)	(date)
Document relevant terrain, location, and other relevant physical features.....	TB 11/14	_____	_____	_____

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(date) (date) (date) (date)

Collect samples in accordance with procedure and sampling parameters TB 11/19

(date) (date) (date) (date)

Document relevant sample features such as clay, sandy, different colors etc. TB 11/19

(date) (date) (date) (date)

Verify all required samples have been collected and documentation is complete TB 11/19

(date) (date) (date) (date)

Pack samples and equipment for transport back to vehicle(s)..... TB 11/19

(date) (date) (date) (date)

Transport samples and equipment to Bulk Storage Warehouse..... TB 11/19

(date) (date) (date) (date)

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Collect rinsate sample after final cleaning of the tools..... TB 11/19 _____
(date) (date) (date) (date)

6. COMMUNICATION PLAN

It is anticipated that there will be cellular service in the survey areas, and since these areas are not remote, no special communication requirements apply other than periodic accountability checks.

7. RELEVANT PROCEDURES AND DOCUMENTS

- RCP-02 Rev. 2, 6/1/2014 Instrument Operating Procedure Bicon MicroRem Meter
- RCP-01 Instrument Operating Procedure Ludlum 2241-2 Ratemeter/Scaler Coupled With the Ludlum 44-9 Geiger-Mueller (GM) and 44-10 2x2 NaI Detectors
- Project Quality Assurance Project Plan (QAPP)
 - NYSERDA Environmental Survey Project Procedure 1 : Soil Sample Collection and Radiological Survey Procedure
- Project Health and Safety Plan (HASP)

Attachments and other Documents:

- Maps
- Sampling Specifications Sheets
- Sample collection forms
- Chain of Custody Forms
- Logbooks

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3. STEP ONE - GPS SURVEY OPERATIONS (Initial as Performed)

Conduct Tailgate Safety Review.....	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Review survey parameters.....	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Verify all required tools, supplies, and equipment available.....	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Establish and Mark Boundaries of the GPS Survey Area Polygon.....	<u>TB 11/18</u>	TB <u>11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Assemble and test GPS survey equipment.....	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)

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Perform Operability Checks.....	TB 4/18	TB 4/19	_____	_____
	(date)	(date)	(date)	(date)
Evaluate terrain and field conditions and select orientation of survey lines.....	TB 4/18	N/A	_____	_____
	(date)	(date)	(date)	(date)
Establish survey lines with nominal 30 meter spacing.....	TB 4/18	N/A	_____	_____
	(date)	(date)	(date)	(date)
Conduct Survey operations using best available technology (See Note 1 Below).....	TB 4/18	TB 4/19	_____	_____
	(date)	(date)	(date)	(date)
Verify all documentation complete.....	TB 4/18	TB 4/19	_____	_____
	(date)	(date)	(date)	(date)
Debrief.....	TB 4/18	TB 4/19	_____	_____
	(date)	(date)	(date)	(date)

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Note 1:

- If possible use automated GPS data acquisition. Walk the designated lines at the ordinary pace
- If satellite signal for the Trimble GPS unit is inadequate, use the Garmin GPS unit or Cell Tower positioning to manually record GPS position and Count rates, at 5 meter intervals, along the designated lines (in accordance with established grid system).
- If all GPS location methods are inadequate, manually log readings using measured lines at five meter intervals along the designated lines.

4. STEP TWO- STATIC RADIATION MEASUREMENTS and SOIL SAMPLING (Initial as Performed)

Conduct Tailgate Safety Review.....	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Review sampling parameters	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Verify all required tools, supplies, and equipment available	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Prepare radiological instruments for use and perform operability checks.....	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)

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Collect Digital image(s) including location sign.....	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Collect static radiation readings in accordance with procedure.....	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Document relevant terrain, location, and other relevant physical features.....	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Collect samples in accordance with procedure and sampling parameters	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Document relevant sample features such as clay, sandy, different colors etc.	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Verify all required samples have been collected and documentation is complete	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Pack samples and equipment for transport back to vehicle(s).....	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)

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Transport samples and equipment to Bulk Storage Warehouse.....	<u>TB 11/18</u>	<u>TB 11/19</u>	_____	_____
	(date)	(date)	(date)	(date)
Collect rinsate sample after final cleaning of the tools.....	<u>TB 11/14</u>	<u>TB 11/17</u>	_____	_____
	(date)	(date)	(date)	(date)

6. COMMUNICATION PLAN

It is anticipated that there will be cellular service in the survey areas, and since these areas are not remote, no special communication requirements apply other than periodic accountability checks.

7. RELEVANT PROCEDURES AND DOCUMENTS

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- NYSERDA Environmental Survey Project Procedure 1 : Soil Sample Collection and Radiological Survey Procedure
- Project Health and Safety Plan (HASP)
 - RCP-03 Rev 3. 9/15/15 Performing a GPS Enhanced Overland Gamma Radiation Survey Including the Preparation and Assessment of Radiological and Geographical Data