

App E –
Sub-Area 3.2 - COC Forms

Field Copy

Page: <u>1</u> of <u>1</u> Project #: <u>N/A</u> GEL Quote #: <u>N/A</u> COC Number (1): <u>NYSERDA-1</u> PO Number: <u>N/A</u>		GEL Chain of Custody and Analytical Request **See www.gel.com for GEL's Sample Acceptance SOP**		GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178					
Client Name: <u>MJW Technical Services</u> Phone #: <u>(716) 372-5300</u>		Sample Analysis Requested (6): (Fill in the number of containers for each test)							
Project/Site Name: <u>NYSERDA</u> Fax #: <u>(716) 372-5307</u>		Should this sample be considered: <input type="checkbox"/>		Preservative Type (6)					
Address: <u>243 ROOT ST. SUITE 100, OLEAN NY 14600</u>									
Collected by: <u>TOPH BROWN</u> Send Results To: <u>LAVIE LOISEY</u>		Comments Note: extra sample is required for sample specific QC							
Sample ID	*Date Collected (mm-dd-yy)					*Time Collected (Military) (hh:mm)	QC Code (4)	Field Filtered (9)	Sample Matrix (9)
*For composites - indicate start and stop date/time.									
<u>3.2.2.R.1</u>	<u>10-16-15</u>								
<u>3.2.2.R.2</u>	<u>10-16-15</u>								
<u>3.2.3.R.1</u>	<u>10-16-15</u>								
<u>3.2.3.R.2</u>	<u>10-16-15</u>								
TAT Requested: Normal: <input type="checkbox"/> Rush: <input type="checkbox"/> Specify: (Subject to Surcharges)		Fax Results: Yes <input type="checkbox"/> No <input type="checkbox"/>		Circle Deliverable: CoF A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4					
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards				Sample Collection Time Zone Eastern Pacific Central Other Mountain					
Chain of Custody Signatures				Sample Shipping and Delivery Details					
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time				
1.			1						
2.			2						
3.			3						
			GEL PM: Method of Shipment: Date Shipped:						
			Airbill #:						
			Airbill #:						
1.) Chain of Custody Number - Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FB = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite 3.) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or - N - for sample was not field filtered. 4.) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Misc Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1). 6.) Preservative Type: HA = Hydrochloric Acid, NA = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added - leave field blank									
WHITE = LABORATORY			YELLOW = FILE						
PINK = CLIENT									

For Lab Receiving Use Only	
Custody Seal Intact?	
YES	NO
Cooler Temp:	
C	

[illegible]

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Page: <u>2</u> of <u>2</u> Project #: <u>N/A</u> GEL Quote #: <u>N/A</u> COC Number: <u>NYSEKDA-01</u> PO Number: <u>N/A</u>		GEL Chain of Custody and Analytical Request **See www.gel.com for GEL's Sample Acceptance SOP**		GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178	
Client Name:		Phone #:		Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)	
Project/Site Name:		Fax #:		Should this sample be considered:	
Address:					
Collected by:		Send Results To:		Comments: Note: extra sample is required for sample specific QC	
Sample ID <small>*For composites - indicate start and stop datetime</small>	Date Collected (mm-dd-yy)	*Time Collected (Military) (hh:mm)	QC Code	Field Filtered	Sample Matrix
3.2.4.R.1	10-19-15	10:00	N	N/A	N/A
3.2.4.R.2	10-19-15	10:10	N	N/A	N/A
3.2.4.R.3	10-19-15	10:35	N	N/A	N/A
3.2.4.R.4	10-19-15	14:10	N	N/A	N/A
3.2.4.R.5	10-19-15	14:10	FD	N/A	N/A
3.1.7.R.1	10-19-15	14:50	N	N/A	N/A
3.1.7.R.2	10-19-15	15:00	N	N/A	N/A
3.1.8.R.1	10-19-15	15:20	N	N/A	N/A
3.1.8.R.2	10-19-15	15:26	N	N/A	N/A
3.1.8.R.6	10-19-15	16:15	EB	N/A	N/A
TAT Requested: Normal: Rush: Specify: (Subject to Surcharge)			Fax Results: Yes / No		Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Remarks: Are there any known hazards applicable to these samples? If so, please list the hazards					Sample Collection Time Zone Eastern Pacific Central Other Mountain
Chain of Custody Signatures			Sample Shipping and Delivery Details		
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		
			GEL-PM:		
			Method of Shipment:		
			Date Shipped:		
			Airbill #:		
			Airbill #:		
1) Chain of Custody Number - Client Determined 2) QC Codes: N - Normal Sample, TB - Trip Blank, FD - Field Duplicate, EB - Equipment Blank, MS - Matrix Spike Sample, MSD - Matrix Spike Duplicate Sample, G - Grab, C - Composite 3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or - N - for sample was not field filtered 4) Matrix Codes: DW - Drinking Water, GW - Groundwater, SW - Surface Water, WW - Waste Water, W - Water, ML - Misc Liquid, SD - Sediment, SL - Sludge, SS - Solid Waste, O - Oil, F - Filter, P - Wipe, U - Urine, F - Fecal, N - 5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3; 6010B/7470A - 1). 6) Preservative Type: HA - Hydrochloric Acid, NI - Nitric Acid, SH - Sodium Hydroxide, SA - Sulfuric Acid, AA - Ascorbic Acid, HX - Hexanoic, ST - Sodium Thiosulfate. If no preservative is added - leave field blank.					For Lab Receiving Use Only Custody Seal Intact? YES NO Cooler Temp: C
WHITE = LABORATORY			YELLOW = FILE		
			PINK = CLIENT		

App E –

Sub-Area 3.2 - Instrument Field Sheets



Rev 1 10/18/15

Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: Ludlum 2241-12 Serial No. 206098 Cal. Due Date: 9/1/16
 Detector 1: Make/Model: Ludlum 44-10 Serial No. PR112642
 Bicron MicroRem Meter: Serial No. _____ Cal. Due Date: _____

2. Check Source Information:

Source 1 Isotope: Th-232 Serial No.: 111 Activity: 0.1 units: uCi Assay Date: 12/30/10
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% u net cpm + 20% 53799 net cpm -20% 35866
 Source 2 Isotope: Cs-137 Serial No.: 119E23-12 Activity: 0.02 units: uCi Assay Date: NA
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 13273 net cpm -20% 8849

3. Technician/Worker Performing Checks:

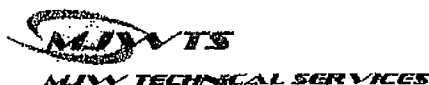
Name: J. Edwards Title: RCT Date: 10/15/15 Time: 1005

4. Site or Location:

Site/Job: Area 3.2 Location Description: Farm
 GPS Coordinates (when required): X-Coord: NA Y-Coord: NA

Instrument Field Response ²					Use Acceptance Criteria				Remarks	
Meter	Bkg Cnt Time	Bkg Counts (cpm) or uRem/hr	Source Cnt Time	Source Response (gross cpm or uRem/hr)	+/- 20% source gross cpm or uRem/hr (Y/N)	Inst. Calib. current (Y/N)	Battery Check (Y/N)	Time Of check	Ambient Temp. (°F)	Initials and Comments (add'l Info: inst. Condition, etc.)
Ratemeter	1 min	9431 cpm	1 min	44832 cpm	Y	Y	Y	1045	55.7	Th-232 JE
Ratemeter			1 min	10972 cpm	Y	Y	Y	1058	56.3	Cs-137 JE
Ratemeter										
Ratemeter										
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

- Instrument designated check source is listed on calibration sticker. Record check source response (net cpm) prior to field deployment for all check sources being used.
- Source and Background count rate should be determined from the average of three static counts at the same location. Repeat counts should be within 20%. If count rate diverges significantly, perform additional counts to evaluate instrument stability



Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: LUDLUM 3241-2 Serial No. 262737
 Detector 1: Make/Model: LUDLUM 44-10 Serial No. PR#1127
 Detector 2: Make/Model: _____ Serial No. _____

Cal. Due Date: 9/2/16

2. Check Source Information:

Source 1 Isotope: Th 232 Serial No.: 116 Activity: 40.1 units: uci Assay Date: 12/30/10
 Instrument Response Acceptance Range (source cpm - bkg +/-20%): net cpm + 20% _____ net cpm -20% _____

Source 2 Isotope: Cs137 Serial No.: R7E13-48 Activity: .02 units: uci Assay Date: 1/20/10
 Instrument Response Acceptance Range (source cpm - bkg +/-20%): net cpm + 20% _____ net cpm -20% _____

3. Technician/Worker Performing Checks:

Name: STEVE KINSMAN Title: _____

Date: 10/16/15 Time: 1000

4. Site or Location: Site/Job: 3.2

Location Description: FARM

GPS Coordinates (when required): X-Coord: _____ Y-Coord: _____

SOURCE Instrument Field Response ²					Use Acceptance Criteria					Remarks
Det: No. (1/2)	Bkg Cnt Time	Bkg (avg of 3) (cpm)	Source Cnt Time	Source Response (cpm - bkg) Net cpm	+/- 20% of source Net cpm (Y/N)	Inst. Calib. current (Y/N)	Battery Check (Y/N)	Time Of check	Ambient Temp. (F)	Initials and Comments (add'l info: temperature, Inst. Condition, etc.)
TH232	1 MIN	7820	1 MIN.	19105		Y	Y	1000	48.2	SK
Cs137	1 MIN	7820	1 MIN.	11146		Y	Y	1005	48.2	SK

- Instrument designated check source is listed on calibration sticker. Record check source response (net cpm) prior to field deployment for all check sources being used.
- Source and Background count rate should be determined from the average of three static counts at the same location. Repeat counts should be within 20%. If count rate diverges significantly, perform additional counts to evaluate instrument stability.



Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: BICRON MICROREM Serial No. A2246
 Detector 1: Make/Model: INTERNAL Serial No. N/A
 Detector 2: Make/Model: _____ Serial No. _____

Cal. Due Date: 8/4/16

2. Check Source Information:

Source 1 Isotope: Th232 Serial No.: 116 Activity: <0.1 units: uCi Assay Date: 12/30/10
 Instrument Response Acceptance Range (source cpm - bkg +/-20%): net cpm + 20% _____ net cpm -20% _____

Source 2 Isotope: _____ Serial No.: _____ Activity: _____ units: _____ Assay Date: _____
 Instrument Response Acceptance Range (source cpm - bkg +/-20%): net cpm + 20% _____ net cpm -20% _____

3. Technician/Worker Performing Checks:

Name: STEVE KINSMAN Title: _____

Date: 10/16/15 Time: 1400

4. Site or Location: Site/Job: 3.2

Location Description: FARM

GPS Coordinates (when required): X-Coord: _____ Y-Coord: _____

Instrument Field Response ²					Use Acceptance Criteria					Remarks
Det. No. (1 / 2)	Bkg Cnt Time	Bkg (avg of 3) (cpm) uR/Hr	Source Cnt Time	Source Response (cpm - bkg) Net cpm	+/- 20% of source Net cpm (Y/N)	Inst. Calib. current (Y/N)	Battery Check (Y/N)	Time Of check	Ambient Temp. (F)	Initials and Comments (add'l info: temperature, inst. condition, etc.)
		<u>6</u>		<u>18 uR/Hr</u>		<u>Y</u>	<u>Y</u>	<u>1400</u>	<u>53.6</u>	

- Instrument designated check source is listed on calibration sticker. Record check source response (net cpm) prior to field deployment for all check sources being used.
- Source and Background count rate should be determined from the average of three static counts at the same location. Repeat counts should be within 20%. If count rate diverges significantly, perform additional counts to evaluate instrument stability



Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: LUOLUM 2241-2 Serial No. 262737
 Detector 1: Make/Model: LUOLUM 44-10 Serial No. PR111127
 Detector 2: Make/Model: _____ Serial No. _____

Cal. Due Date: 9/2/16

2. Check Source Information:

Source 1 Isotope: Th232 Serial No.: 116 Activity: 20.1 units: uCi Assay Date: 12/30/10
 Instrument Response Acceptance Range (source cpm - bkg +/-20%): _____ net cpm + 20% _____ net cpm -20% _____

Source 2 Isotope: Cs137 Serial No.: 87E13-48 Activity: 0.02 units: uCi Assay Date: 1/20/10
 Instrument Response Acceptance Range (source cpm - bkg +/-20%): _____ net cpm + 20% _____ net cpm -20% _____

3. Technician/Worker Performing Checks:

Name: STEVE KINSMAN Title: _____

Date: 12/16/15 Time: 1410

4. Site or Location: Site/Job: 3.2

Location Description: _____

GPS Coordinates (when required): X-Coord: _____ Y-Coord: _____

SOURCE Instrument Field Response ² <small>GROSS CTS</small>					Use Acceptance Criteria					Remarks
Det. No. (1/2)	Bkg Cnt Time	Bkg (avg of 3) (cpm)	Source Cnt Time	Source Response (cpm - bkg) Net cpm	+/- 20% of source Net cpm (Y/N)	Inst. Calib. current (Y/N)	Battery Check (Y/N)	Time Of check	Ambient Temp. (F)	Initials and Comments (add'l info: temperature, inst. Condition, etc.)
Th232	1min	7621	1min	19835		Y	Y	1410	53.6	SK
Cs137	1min	7621	1min	11161		Y	Y	1415	53.6	SK

- Instrument designated check source is listed on calibration sticker. Record check source response (net cpm) prior to field deployment for all check sources being used.
- Source and Background count rate should be determined from the average of three static counts at the same location. Repeat counts should be within 20%. If count rate diverges significantly, perform additional counts to evaluate instrument stability



Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: LUDLUM 2241-2 Serial No. 262737
 Detector 1: Make/Model: LUDLUM 44-10 Serial No. PR111127
 Detector 2: Make/Model: _____ Serial No. _____

Cal. Due Date: 9/2/16

2. Check Source Information:

Source 1 Isotope: Th 232 Serial No.: 116 Activity: 40.1 units: uci Assay Date: 12/30/10
 Instrument Response Acceptance Range (source cpm - bkg +/-20%): net cpm + 20% _____ net cpm -20% _____

Source 2 Isotope: Cs 137 Serial No.: 87E13-48 Activity: .02 units: uci Assay Date: 1/26/10
 Instrument Response Acceptance Range (source cpm - bkg +/-20%): net cpm + 20% _____ net cpm -20% _____

3. Technician/Worker Performing Checks:

Name: STEVE KINSMAN Title: _____

Date: 10/16/15 Time: 1515

4. Site or Location:

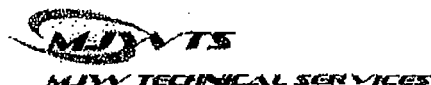
Site/Job: _____

Location Description: _____

GPS Coordinates (when required): X-Coord: _____ Y-Coord: _____

SOURCE Instrument Field Response ² <small>GROSS CTS</small>					Use Acceptance Criteria					Remarks
Det. No. (1/2)	Bkg Cnt Time	Bkg (avg of 3) (cpm)	Source Cnt Time	Source Response (cpm - bkg) Net-cpm	+/- 20% of source Net cpm (Y/N)	Inst. Calib. current (Y/N)	Battery Check (Y/N)	Time Of check	Ambient Temp. (F)	Initials and Comments (add'l Info: temperature, inst. Condition, etc.)
Th 232		7496		19694		Y	Y	1515	53.6	
Cs 137		7496		16845		Y	Y	1520	53.6	

- Instrument designated check source is listed on calibration sticker. Record check source response (net cpm) prior to field deployment for all check sources being used.
- Source and Background count rate should be determined from the average of three static counts at the same location. Repeat counts should be within 20%. If count rate diverges significantly, perform additional counts to evaluate instrument stability



Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: BICRON MICROREM Serial No. A2244
 Detector 1: Make/Model: INTERMAC Serial No. _____
 Detector 2: Make/Model: _____ Serial No. _____

Cal. Due Date: 8/4/16

2. Check Source Information:

Source 1 Isotope: Th232 Serial No.: 116 Activity: 40.1 units: uCi Assay Date: 12/30/10
 Instrument Response Acceptance Range (source cpm - bkg +/-20%): net cpm + 20% _____ net cpm -20% _____

Source 2 Isotope: _____ Serial No.: _____ Activity: _____ units: _____ Assay Date: _____
 Instrument Response Acceptance Range (source cpm - bkg +/-20%): net cpm + 20% _____ net cpm -20% _____

3. Technician/Worker Performing Checks:

Name: STEVE KINSMAN Title: _____

Date: 10/16/15 Time: 1515

4. Site or Location: Site/Job: 3-2

Location Description: FARM

GPS Coordinates (when required): X-Coord: _____ Y-Coord: _____

Instrument Field Response ²					Use Acceptance Criteria					Remarks
Det. No. (1 / 2)	Bkg Cnt Time	Bkg (avg of 3) (cpm)	Source Cnt Time	Source Response (cpm - bkg) Net cpm	+/- 20% of source Net cpm (Y/N)	Inst. Calib. current (Y/N)	Battery Check (Y/N)	Time Of check	Ambient Temp. (F)	Initials and Comments (add'l info: temperature, inst. Condition, etc.)
		<u>MR/Hr</u> <u>7</u>	<u>MR/Hr</u>	<u>17</u>		<u>Y</u>	<u>Y</u>	<u>1515</u>	<u>56.3</u>	

- Instrument designated check source is listed on calibration sticker. Record check source response (net cpm) prior to field deployment for all check sources being used.
- Source and Background count rate should be determined from the average of three static counts at the same location. Repeat counts should be within 20%. If count rate diverges significantly, perform additional counts to evaluate instrument stability



Rev 1 10/18/15

Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: LUDLUM 2241-2 Serial No. 262737 Cal. Due Date: 9/2/16
 Detector 1: Make/Model: LUDLUM 44-10 Serial No. PR111127
 Bicron MicroRem Meter: Serial No. A224u Cal. Due Date: 8/4/16

2. Check Source Information:

Source 1 Isotope: Th 232 Serial No.: 116 Activity: 40.1 units: uCi Assay Date: 12/30/10
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% _____ net cpm -20% _____
 Source 2 Isotope: Cs 137 Serial No.: 87E13-48 Activity: .02 units: uCi Assay Date: 1/20/10
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% _____ net cpm -20% _____

3. Technician/Worker Performing Checks:

Name: STEVE KENSMAN Title: _____ Date: 10/19/15 Time: 0930

4. Site or Location: Site/Job: 3.2

Location Description: FARM
 GPS Coordinates (when required): X-Coord: 78.67417° Y-Coord: 42.48070°

Instrument Field Response ²					Use Acceptance Criteria					Remarks
Meter	Bkg Cnt Time	Bkg Counts (cpm) or uRem/hr	Source Cnt Time	Source Response (gross cpm or uRem/hr)	+/- 20% source gross cpm or uRem/hr (Y/N)	Inst. Calib. current (Y/N)	Battery Check (Y/N)	Time Of check	Ambient Temp. (°F)	Initials and Comments (add'l info: inst. Condition, etc.)
Ratemeter	1 MIN	7893	1 MIN	19674 cpm		Y	Y	0935	33.4	Th 232
Ratemeter	1 MIN	7893	1 MIN	11228 cpm		Y	Y	0940	33.4	Cs 137
Ratemeter	1 MIN	7552	1 MIN	19351 cpm		Y	Y	1325	54.5	Th 232
Ratemeter	1 MIN	7552	1 MIN	10692 cpm		Y	Y	1325	54.5	Cs 137
Bicron	NA	5 uR/hr	NA	18 uR/hr		Y	Y	0930	33.4	
Bicron	NA	6 uR/hr	NA	17 uR/hr		Y	Y	1320	54.5	
Bicron	NA	6 uR/hr	NA	16 uR/hr		Y	Y		58.6	
Bicron	NA		NA							

- Instrument designated check source is listed on calibration sticker. Record check source response (net cpm) prior to field deployment for all check sources being used.
- Source and Background count rate should be determined from the average of three static counts at the same location. Repeat counts should be within 20%. If count rate diverges significantly, perform additional counts to evaluate instrument stability.



Rev 1 10/18/15

Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: _____ Serial No. _____ Cal. Due Date: _____
 Detector 1: Make/Model: _____ Serial No. _____
 Bicron MicroRem Meter: _____ Serial No. _____ Cal. Due Date: _____

2. Check Source Information:

Source 1 Isotope: _____ Serial No.: _____ Activity: _____ units: _____ Assay Date: _____
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% _____ net cpm -20% _____

 Source 2 Isotope: _____ Serial No.: _____ Activity: _____ units: _____ Assay Date: _____
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% _____ net cpm -20% _____

3. Technician/Worker Performing Checks:

Name: _____ Title: _____ Date: 10/19/15 Time: _____

4. Site or Location: Site/Job: _____

Location Description: _____

GPS Coordinates (when required): X-Coord: _____ Y-Coord: _____

Instrument Field Response ²					Use Acceptance Criteria					Remarks
Meter	Bkg Cnt Time	Bkg Counts (cpm) or uRem/hr	Source Cnt Time	Source Response (gross cpm or uRem/hr)	+/- 20% source gross cpm or uRem/hr (Y/N)	Inst. Calib. current (Y/N)	Battery Check (Y/N)	Time Of check	Ambient Temp. (°F)	Initials and Comments (add'l Info: Inst. Condition, etc.)
Ratemeter	1 MIN	8854 cpm	1 MIN	19517 cpm		Y	Y	1540	58.6	Th232
Ratemeter	1 MIN	8854 cpm	1 MIN	12422 cpm		Y	Y	1545	58.6	Cs137
Ratemeter										
Ratemeter										
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

- Instrument designated check source is listed on calibration sticker. Record check source response (net cpm) prior to field deployment for all check sources being used.
- Source and Background count rate should be determined from the average of three static counts at the same location. Repeat counts should be within 20%. If count rate diverges significantly, perform additional counts to evaluate instrument stability

App E –
Sub-Area 3.2 - Sample Data Sheets

SAMPLE LOCATION DATA SHEET

Date: 10-16-15 Project: NYSEPOA Name: Tori Brown

Weather: cloudy, cool

1. Sample Area (SA):

SA Designation: 3.2 Description: Farmland
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: Thomson corner Rd Coord: N/A N/A
alongside

2. Sample Location Data:

Sample Area ID: 3.2.1 Matrix: Soil

Location Coord: N 42.48094 W 78.67410

Alternate Location Measurements (distance from SA origin and Local Coord.)

X Dist. from Origin (0,0) N/A Y Dist. from Origin: N/A

Site Sketch Attached (Yes) (NO)

Sample Location Description: Farmland, along driveway 12ft to center driveway

Canopy Type: Open Land Use: Farm Soil Moisture (Wet, dry, etc): dry

3. Location Radiation Readings:

2x2 NaI (cpm)			B:ron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
	8086		7	5	Bill
	8258	7619	6	5	
1	8397	7720			

4. Sample Information:

Sample Area ID: 3.2.1. R-1, 2, 5 TB 10/16

Description by Depth:

Depth Interval (cm)	Soil Type (Org; clay; sand, etc)	Soil Color	Sample ID	Sampling Description (Surface litter type/depth, sample depth retention, refusal, stone or rock, topography, erosion features)
0-15	Soil	brown	3.2.1. R-1	N/A
15-30	Soil	brown	3.2.1. R-2	N/A
0-15	Soil	brown	3.2.1. R-5	N/A

Sample Recorded on Laboratory COC form and Container Labeled: (Y) (N)

SAMPLE LOCATION DATA SHEET

Date: 10-16-15 Project: NYSERPA Name: Toni Brown

Weather: Overcast, cool

1. Sample Area (SA):

SA Designation: 3.2.2 Description: Farmland
SA Origin Location: 78.674289 42.481001 TR 2/16 Coord. System: LAT LONG TR 2/16
SA Land Mark Description: Farmland N/A Coord: N/A N/A
10/16

2. Sample Location Data:

Sample Area ID: 3.2.2 Matrix: Soil

Location Coord: W78.674289 N42.481001

Alternate Location Measurements (distance from SA origin and Local Coord.) - 6 ft from fence along
X Dist. from Origin (0,0) N/A Y Dist. from Origin: N/A NW line

Site Sketch Attached (Yes) ☒ (NO)

Sample Location Description: Farm land

Canopy Type: Open Land Use: Farm Soil Moisture (Wet, dry, etc): Dry

3. Location Radiation Readings:

2x2 NaI (cpm)			Boron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	8080	7617	7	5	
1	8245	7486			

4. Sample Information:

Sample Area ID: 3.2.2.R.1-2

Description by Depth:

Depth Interval (cm)	Soil Type (Org; clay; sand, etc)	Soil Color	Sample ID	Sampling Description (Surface litter type/depth, sample depth retention, refusal, stone or rock, topography, erosion features)
0-15	Soil	Brown	3.2.2.R.1	N/A
15-30	Soil	Brown	3.2.2.R.2	N/A

Sample Recorded on Laboratory COC form and Container Labeled: ☒ (Y) (N)



MDV TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10-16-15 Project: NYSEZDA Name: Tom BrownWeather: Sunny

1. Sample Area (SA):

SA Designation: 3.2.3 TB 10/16 Description: Farm land
 SA Origin Location: 78.1274107 Coord. System: _____
 SA Land Mark Description: N/A Coord: N/A N/A

2. Sample Location Data:

Sample Area ID: 3.2.3. Matrix: SoilLocation Coord: W 78.1274107 N 42.48088

Alternate Location Measurements (distance from SA origin and Local Coord.) ~10 ft from driveway
 X Dist. from Origin (0,0) N/A Y Dist. from Origin: N/A

Site Sketch Attached (Yes) ☒ (NO)Sample Location Description: Farm, covered by wood pileCanopy Type: Open Land Use: Farm Soil Moisture (Wet, dry, etc): Dry

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	71651	70167	60	60	
1	7709	7081			

4. Sample Information:

Sample Area ID: 3.2.3. 2.1-2

Description by Depth:

Depth Interval (cm)	Soil Type (Org; clay; sand, etc)	Soil Color	Sample ID	Sampling Description (Surface litter type/depth, sample depth retention, refusal, stone or rock, topography, erosion features)
0-15	Soil	Brown	3.2.3.2.1	Some wood in dig/excluded in sample
15-30	Soil	Brown	3.2.3.2.2	N/A

Sample Recorded on Laboratory COC form and Container Labeled: (Y) (N)



MJV TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10-19-15 Project: NYSERDA Name: Tori BrownWeather: Cold, sunny
morning frost, warmer in afternoon

1. Sample Area (SA):

SA Designation: 3.2 Description: Farm land
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: Thomson corner Rd Coord: _____

2. Sample Location Data:

Sample Area ID: 3.2.4 Matrix: SoilLocation Coord: N 78.674198 N 42.48095

Alternate Location Measurements (distance from SA origin and Local Coord.)

X Dist. from Origin (0,0) _____ Y Dist. from Origin: _____

Site Sketch Attached (Yes) (NO)Sample Location Description: Farm land by wood pileCanopy Type: OPEN Land Use: FARM Soil Moisture (Wet, dry, etc): Dry

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	7777	7443	5	3	
1	7794	7429			

4. Sample Information:

Sample Area ID: 3.2.4.R.1-5

Description by Depth:

Depth Interval (cm)	Soil Type (Org; clay; sand, etc)	Soil Color	Sample ID	Sampling Description (Surface litter type/depth, sample depth retention, refusal, stone or rock, topography, erosion features)
0-15	Soil/wood chips	brown	3.2.4.R.1	Some wood chips
15-30	soil	brown	3.2.4.R.2	N/A
30-60	soil	brown	3.2.4.R.3	N/A
60-100	soil/rock	brown	3.2.4.R.4	refusal @ 70 cm (rock)
60-100	gravel	" "	3.2.4.R.5	Gravel fill

Sample Recorded on Laboratory COC form and Container Labeled: (Y) (N)