

App E-
Sub-Area 4.1.- COC Forms

[illegible]

Page: _____ of _____ Project #: GEL Quote #: COC Number (1): PO Number:		GEL Chain of Custody and Analytical Request **See www.gel.com for GEL's Sample Acceptance SOP** GEL Work Order Number:			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						Preservative Type (6)		
Address:										Comments Note: extra sample is required for sample specific QC		
Collected by:		Send Results To:		TSC: A Regulated								
Sample ID <small>* For composites - indicate start and stop date/time</small>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hh:mm)	QC Code (3)	Field Filtered (Y)	Sample Matrix (4)	Radiation						
4.1.B.R.3.1	12/8/15											
4.1.B.R.3.2	12/8/15											
4.1.B.R.4.1	12/8/15											
4.1.B.R.4.2	12/8/15											
4.1.B.R.5.1	12/8/15											
4.1.B.R.5.2	12/8/15											
4.1.B.R.6.1	12/8/15											
4.1.B.R.6.2	12/8/15											
4.1.B.R.6.5	12/8/15											
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)			Received by (signed)			GEL PM:						
Date			Date			Method of Shipment						
Time			Time			Date Shipped:						
1			1			Airbill #:						
2			2			Airbill #						
3			3									
1.) Chain of Custody Number - Client Determined 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, ER = 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= Mucous Liquid, SO= Soil, SD= Sediment, SL= Sludge, SS= Solid Waste, O= Oil, F= Filter, P= Pulp, U= Urine, F= Food, N= Nails 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 8210B/7470A) and number of containers provided for each (i.e. 8260B - 3, 8210B/7470A - 1) 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, 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						

Page _____ of _____	<h2 style="text-align: center;">GEL Chain of Custody and Analytical Request</h2> <p style="text-align: center;">**See www.gel.com for GEL's Sample Acceptance SOP**</p>	GEL Laboratories, LLC
Project # _____		2040 Savage Road
GEL Quote # _____		Charleston, SC 29407
COC Number (1): _____		Phone: (843) 556-8171
PO Number _____	GEL Work Order Number: _____	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 _____													Preservative Type (6)				
Address: _____																					
Collected by: _____		Send Results To: _____		Radiation _____	TSC A Regulated _____	ber of _____													Comments Note: extra sample is required for sample specific QC		
Sample ID <i>* For composites - indicate start and stop date/time</i>		Date Collected (mm-dd-yy)					Time Collected (Military) (hh:mm)		QC Code (4)		Field Filtered (5)		Sample Matrix (5)								
4.1.A.R.1.1		12/9/15																			
4.1.A.R.1.2		12/9/15																			
4.1.B.R.7.1		12/9/15																			
4.1.B.R.7.2		12/9/15																			
4.1.B.R.8.1		12/9/15																			
4.1.B.R.8.2		12/9/15																			
4.1.B.R.8.5		12/9/15																			
4.1.C.R.7.1		12/9/15																			
4.1.C.R.7.2		12/9/15																			

TAT Requested: Normal: _____ Rush: _____ Specify: _____ (Subject to Sun/charge)	Fax Results: Yes / No	Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
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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
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Chain of Custody Signatures				Sample Shipping and Delivery Details			
Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	GEL PM: _____	
1			1			Method of Shipment: _____ Date Shipped: _____	
2			2			Airbill #: _____	
3			3			Airbill #: _____	

- 1) Chain of Custody Number - Client Determined
- 2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, BR = 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 a N for sample was not field filtered
- 4) Matrix Codes: DW = Drinking Water, GW = Groundwater, SW = Surface Water, WW = Waste Water, W = Water, ML = Mucous 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, 6310B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6310B/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

For Lab Receiving Use Only

Custody Seal Intact?
YES NO

Cooler Temp:
C

WHITE = LABORATORY

YELLOW = FILE

PINK = CLIENT

Page: _____ of _____ Project #: _____ GEL Quote #: _____ COC Number (6): _____ PO Number: _____		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 _____	<-- Preservative Type (6)		
Address: _____							
Collected by: _____		Send Results To: _____		Comments Note: extra sample is required for sample specific QC			
Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hh:mm)	QC Code (8)			Field Filtered (9)	Sample Matrix (4)
<small>* For composites - indicate start and stop date/time</small>							
4.IC.R.4.2	12-9-15						
4.IC.R.8.1	12-9-15						
4.IC.R.8.2	12-9-15						
4.IC.R.3.1	12-9-15						
4.IC.R.3.2	12-9-15						
4.IC.R.3.5	12-9-15						
4.IC.R.9.1	12-9-15						
4.IC.R.9.2	12-9-15						
4.IC.R.9.5	12-9-15						
4.IC.R.5.1	12-9-15						
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= Mine Liquid, SO=Soil, SD=Sediment, SL=Sledge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Not

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 = Hexane, S1 = 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

[illegible]

Page: _____ of _____ Project #: _____ GEL Quote #: _____ COC Number (1): _____ PO Number: _____		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 #: _____		GEL Work Order Number: _____					
Project/Site Name: _____ Fax #: _____		Sample Analysis Requested (5) (Fill in the number of containers for each test)					
Address: _____		Should this sample be considered _____					
Collected by: _____ Send Results To: _____						--- Preservative Type (6)	
Sample ID <small>* For composites - indicate start and stop date/time</small>	*Date Collected <small>(mm-dd-yy)</small>	*Times Collected <small>(Military) (minutes)</small>	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Rad. oiled TSC A Regulated per of	Comments Note: extra sample is required for sample specific QC
4. ID. R. 3.1	12-9-15						
4. ID. R. 3.2	12-9-15						
4. ID. R. 5.1	12-9-15						
4. ID. R. 5.2	12-9-15						
4. ID. R. 6.1	12-9-15						
4. ID. R. 6.2	12-9-15						
4. ID. R. 4.1	12-9-15						
4. ID. R. 4.2	12-9-15						
4. ID. R. 4.5	12-9-15						
4. IC. R. 4.1	12-9-15						
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 _____			GEL PM: _____			
1	1			Method of Shipment: _____		Date Shipped: _____	
2	2			Airbill #: _____			
3	3			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=Mix. Liquid, SO=Soil, SD=Sludgment, SL=Sludge, SS = Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=H 5.) Sample Analysis Requested: Analytical method requested (i.e. 816CB, 6010B/7470A) and number of containers provided for each (i.e. 816OR - 3, 6010B/7470A - 1). 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexose, 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			

Page: _____ of _____		<h1 style="text-align: center;">GEL Chain of Custody and Analytical Request</h1> <p style="text-align: center;">* See www.gel.com for GEL's Sample Acceptance SOP**</p>										GEL Laboratories, LLC 2040 Savage Road Charleston, SC 29407 Phone: (843) 556-8171 Fax: (843) 766-1178													
Project #:		GEL Quote #:		COC Number (if):		PO Number:		GEL Work Order Number:																	
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 _____ < - Preservative Type (6)													
Address:																									
Collected by:								Send Results To:								Comments Note: extra sample is required for sample specific QC									
Sample ID:								*Date Collected (mm-dd-yy) *Time Collected (Military) (hh:mm) QC Code (M) Field Filtered (Y) Sample Matrix (M) Radiant (Y) TSC A Regulated (Y)																	
* For composites - indicate start and stop date/time																									
SNIB.25.2								12-10-15																	
SNIB.25.3								12-10-15																	
SNIB.27.1								12-10-15																	
SNIB.27.2								12-10-15																	
SNIB.27.3								12-10-15																	
[REDACTED]								12-10-15																	
[REDACTED]								12-10-15																	
[REDACTED]								12-10-15																	
[REDACTED]								12-10-15																	
[REDACTED]								12-10-15																	
[REDACTED]								12-10-15																	
[REDACTED]								12-10-15																	
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												2													
2												3													
3																									
1) Chain of Custody Number - Client Determined 2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, ED = 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 a 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 = Filler, P = Waste, D = Litter, R = Fecal, N = 5) Sample Analysis Requested: Analytical method requested (i.e. 8160B, 8010D, 7470A) and number of containers provided for each (i.e. 8290B = 3, 8010D/7470A = 1). 6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Heparin, ST = Sodium Thiosulfate. If no preservative is added - leave field blank														GEL PM: Method of Shipment: Airbill #: Airbill #:						Date Shipped: Date Shipped:					
For Lab Receiving Use Only Custody Seal Intact? YES NO Cooler Temp: C																									

[illegible]

Page: _____ of _____ Project #: GEL Quote #: COC Number (H): PO Number:		GEL Chain of Custody and Analytical Request **See www.gel.com for GEL's Sample Acceptance SOP** GEL Work Order Number:		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	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hh:mm)	QC Code (n)			Field Filtered (n)	Sample Matrix (n)
* For composites - indicate start and stop date/time							
4.1.D.R.1.1	12/10/15						
4.1.D.R.1.2	12/10/15						
4.1.D.R.1.3	12/10/15						
4.1.D.R.1.4	12/10/15						
4.1.D.R.2.1	12/10/15						
4.1.D.R.2.2	12/10/15						
4.1.D.R.2.3	12/10/15						
4.1.D.R.2.4	12/10/15						
4.1.D.R.2.5	12/10/15						
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, ED = 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, P=Filter, P=Wipe, U=Urine, F=Fecal, N=No
 5.) Sample Analysis Requested: Analytical method requested (i.e. H260B, 6016B/7470A) and number of containers provided for each (i.e. H260B - 3, 6016B/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	
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For Lab Receiving Use Only

Custody Seal Intact?	
YES	NO
Cooler Temp	
C	

4.1 A

Date Collected	Sample	Elevation				Coordinates	
		0-15 cm	15-30 cm	30-60 cm	60-100c cm		
12/7/15	4.1A R 1. 1	X				42°32'27.88"N	79° 2'47.72"W
12/7/15	4.1A R 1. 2		X				

4.1 A

Date Collected	Sample	Elevation				Coordinates	
		0-15 cm	15-30 cm	30-60 cm	60-100c cm		
12-9-15	4.1A R 1. 1	X				42°32'27.88"N 79° 2'47.72"W	
12-9-15	4.1A R 1. 2		X				

4.1B

Date Collected	Sample	Elevation				Coordinates	
		0-15 cm	15-30 cm	30-60 cm	60-100c cm		
12-10-15	4.1B R 1 . 1	X				42°32'27.53"N	79° 2'45.36"W
12-10-15	4.1B R 1 . 2		X				
12-10-15	4.1B R 1 . 3			X			
12-10-15	4.1B R 1 . 4				X		
12-10-15	4.1B R 2 . 1	X				42°32'26.66"N	79° 2'45.78"W
12-10-15	4.1B R 2 . 2		X				
12-10-15	4.1B R 2 . 3			X			
12-10-15	4.1B R 2 . 4				X		
12-10-15	4.1B R 2 . 5			X			
12-10-15	4.1B R 2 . 6				X		
12-8-15	4.1B R 3 . 1	X				42°32'25.66"N	79° 2'45.27"W
12-8-15	4.1B R 3 . 2		X				
12-8-15	4.1B R 4 . 1	X				42°32'24.89"N	79° 2'45.56"W
12-8-15	4.1B R 4 . 2		X				
12-8-15	4.1B R 5 . 1	X				42°32'24.00"N	79° 2'46.27"W
12-8-15	4.1B R 5 . 2		X				
12-8-15	4.1B R 6 . 1	X				42°32'23.70"N	79° 2'45.30"W
12-8-15	4.1B R 6 . 2		X				
12-9-15	4.1B R 7 . 1	X				42°32'23.13"N	79° 2'45.34"W
12-9-15	4.1B R 7 . 2		X				
12-9-15	4.1B R 8 . 1	X				42°32'23.19"N	79° 2'46.36"W
12-9-15	4.1B R 8 . 2		X				

4.1B

Date Collected	Sample	Elevation				Coordinates	
		0-15 cm	15-30 cm	30-60 cm	60-100c cm		
12/10/15	4.1B R 1 . 1	X				42°32'27.53"N	79° 2'45.36"W
12/10/15	4.1B R 1 . 2		X				
12/10/15	4.1B R 1 . 3			X			
12/10/15	4.1B R 1 . 4				X		
12/10/15	4.1B R 2 . 1	X				42°32'26.66"N	79° 2'45.78"W
12/10/15	4.1B R 2 . 2		X				
12/10/15	4.1B R 2 . 3			X			
12/10/15	4.1B R 2 . 4				X		
12/10/15	4.1B R 2 . 5			X			
12/10/15	4.1B R 2 . 6				X		
12/8/15	4.1B R 3 . 1	X				42°32'25.66"N	79° 2'45.27"W
12/8/15	4.1B R 3 . 2		X				
12/8/15	4.1B R 4 . 1	X				42°32'24.89"N	79° 2'45.56"W
12/3/15	4.1B R 4 . 2		X				
12/8/15	4.1B R 5 . 1	X				42°32'24.00"N	79° 2'46.27"W
12/8/15	4.1B R 5 . 2		X				
12/8/15	4.1B R 6 . 1	X				42°32'23.70"N	79° 2'45.30"W
12/8/15	4.1B R 6 . 2		X				
12/9/15	4.1B R 7 . 1	X				42°32'23.13"N	79° 2'45.34"W
12/9/15	4.1B R 7 . 2		X				
12/9/15	4.1B R 8 . 1	X				42°32'23.19"N	79° 2'46.36"W
12/7/15	4.1B R 8 . 2		X				

4.1C

Date Collected	Sample	Elevation				Coordinates	
		0-15 cm	15-30 cm	30-60 cm	60-100c cm		
12-10-15	4.1C R 1 . 1	X				42°32'26.89"N	79° 2'43.11"W
12-10-15	4.1C R 1 . 2		X				
12-10-15	4.1C R 1 . 3			X			
12-10-15	4.1C R 1 . 4				X		
12-10-15	4.1C R 2 . 1	X				42°32'27.10"N	79° 2'41.85"W
12-10-15	4.1C R 2 . 2		X				
12-10-15	4.1C R 2 . 3			X			
12-10-15	4.1C R 2 . 4				X		
12-9-15	4.1C R 3 . 1	X				42°32'26.39"N	79° 2'40.86"W
12-9-15	4.1C R 3 . 2		X				
12-9-15	4.1C R 3 . 5		X				
12-9-15	4.1C R 4 . 1	X				42°32'25.60"N	79° 2'40.45"W
12-9-15	4.1C R 4 . 2		X				
12-9-15	4.1C R 5 . 1	X				42°32'25.21"N	79° 2'41.52"W
12-9-15	4.1C R 5 . 2		X				
12-9-15	4.1C R 6 . 1	X				42°32'25.04"N	79° 2'42.35"W
12-9-15	4.1C R 6 . 2		X				
12-9-15	4.1C R 7 . 1	X				42°32'25.71"N	79° 2'43.12"W
12-9-15	4.1C R 7 . 2		X				
12-9-15	4.1C R 8 . 1	X				42°32'26.44"N	79° 2'42.25"W
12-9-15	4.1C R 8 . 2		X				
12-9-15	4.1C R 9 . 1	X				42°32'25.68"N	79° 2'41.52"W
12-9-15	4.1C R 9 . 2		X				
12-9-15	4.1C R 9 . 5	X					

4.1C

Date Collected	Sample	Elevation				Coordinates	
		0-15 cm	15-30 cm	30-60 cm	60-100c cm		
12/10/15	4.1C R 1 . 1	X				42°32'26.89"N	79° 2'43.11"W
12/10/15	4.1C R 1 . 2		X				
12/10/15	4.1C R 1 . 3			X			
12/10/15	4.1C R 1 . 4				X		
12/10/15	4.1C R 2 . 1	X				42°32'27.10"N	79° 2'41.85"W
12/10/15	4.1C R 2 . 2		X				
12/10/15	4.1C R 2 . 3			X			
12/10/15	4.1C R 2 . 4				X		
12/9/15	4.1C R 3 . 1	X				42°32'26.39"N	79° 2'40.86"W
12-9-15	4.1C R 3 . 2		X				
12-9-15	4.1C R 3 . 5		X				
12-9-15	4.1C R 4 . 1	X				42°32'25.60"N	79° 2'40.45"W
12-9-15	4.1C R 4 . 2		X				
12-9-15	4.1C R 5 . 1	X				42°32'25.21"N	79° 2'41.52"W
12-9-15	4.1C R 5 . 2		X				
12-9-15	4.1C R 6 . 1	X				42°32'25.04"N	79° 2'42.35"W
12-9-15	4.1C R 6 . 2		X				
12/9/15	4.1C R 7 . 1	X				42°32'25.71"N	79° 2'43.12"W
12/9/15	4.1C R 7 . 2		X				
12-9-15	4.1C R 8 . 1	X				42°32'26.44"N	79° 2'42.25"W
12-9-15	4.1C R 8 . 2		X				
12-9-15	4.1C R 9 . 1	X				42°32'25.68"N	79° 2'41.52"W
12-9-15	4.1C R 9 . 2		X				
12-9-15	4.1C R 9 . 5	X					
12-9-15							

4.1D

Date Collected	Sample	Elevation				Coordinates	
		0-15 cm	15-30 cm	30-60 cm	60-100c cm		
12-10-15	4.1D R 1 . 1	X				42°32'28.69"N	79° 2'38.58"W
12-10-15	4.1D R 1 . 2		X				
12-10-15	4.1D R 1 . 3			X			
12-10-15	4.1D R 1 . 4				X		
12-10-15	4.1D R 2 . 1	X				42°32'28.31"N	79° 2'36.95"W
12-10-15	4.1D R 2 . 2		X				
12-10-15	4.1D R 2 . 3			X			
12-10-15	4.1D R 2 . 4				X		
12-10-15	4.1D R 2 . 5		X				
12-9-15	4.1D R 3 . 1	X				42°32'27.15"N	79° 2'37.19"W
12-9-15	4.1D R 3 . 2		X				
12-9-15	4.1D R 4 . 1	X				42°32'27.24"N	79° 2'38.48"W
12-9-15	4.1D R 4 . 2		X				
12-9-15	4.1D R 4 . 5	X					
12-9-15	4.1D R 5 1	X				42°32'27.73"N	79° 2'37.09"W
12-9-15	4.1D R 5 2		X				
12-9-15	4.1D R 6 1	X				42°32'28.06"N	79° 2'38.48"W
12-9-15	4.1D R 6 2		X				

4.1D

Date Collected	Sample	Elevation				Coordinates	
		0-15 cm	15-30 cm	30-60 cm	60-100c cm		
12/10/15	4.1D R 1 . 1	X				42°32'28.69"N	79° 2'38.58"W
12/10/15	4.1D R 1 . 2		X				
12/10/15	4.1D R 1 . 3			X			
12/10/15	4.1D R 1 . 4				X		
12/10/15	4.1D R 2 . 1	X				42°32'28.31"N	79° 2'36.95"W
12/10/15	4.1D R 2 . 2		X				
12/10/15	4.1D R 2 . 3			X			
12/10/15	4.1D R 2 . 4				X		
12/10/15	4.1D R 2 . 5		X				
12-9-15	4.1D R 3 . 1	X				42°32'27.15"N	79° 2'37.19"W
12-9-15	4.1D R 3 . 2		X				
12-9-15	4.1D R 4 . 1	X				42°32'27.24"N	79° 2'38.48"W
12-9-15	4.1D R 4 . 2		X				
12-9-15	4.1D R 4 . 5	X					
12-9-15	4.1D R 5 1	X				42°32'27.73"N	79° 2'37.09"W
12-9-15	4.1D R 5 2		X				
12-9-15	4.1D R 6 1	X				42°32'28.06"N	79° 2'38.48"W
12-9-15	4.1D R 6 2		X				

App E –
Sub-Area 4.1 - Instrument Field Sheets

Instrument Field Response Check Log

1. Instrument Information¹

Ratemeter: Make/Model: Ludlum 2241-2 Serial No. 206098 Cal. Due Date: 09/01/16
 Detector 1: Make/Model: Ludlum 44-15 Serial No. FR112642
 Bicron MicroRem Meter: Serial No. 1487 Cal. Due Date: 06/18/16

2. Check Source Information:

Source 1 Isotope: Th-232 Serial No.: 111 Activity: 40.1 units: MC Assay Date: 12/30/18
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 53795 net cpm -20% 35866
 Source 2 Isotope: Cs-137 Serial No.: 119E23-12 Activity: 002 units: MC Assay Date: NA
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 13273 net cpm -20% 5849

3. Technician/Worker Performing Checks:

Name: J. Edwards Title: RCT Date: 12/07/15 Time: 0855

4. Site or Location:

Site/Job: Area 4.1 Location Description: woods
 GPS Coordinates (when required): X-Coord: N 42° 32' 27.172" Y-Coord: W 78° 59' 50.352"

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	1m.r	9196 cpm	1m.r	43110 cpm	Y	Y	Y	0857	33.5°	Th-232 PE
Ratemeter	1m.r		1m.r	11177 cpm	Y	Y	Y	0903	33.5°	Cs-137 PE
Ratemeter	1m.r	11265 cpm	1m.r	46744 cpm	Y	Y	Y	1111	39.2°	Th-232 PE
Ratemeter			1m.r	13173 cpm	Y	Y	Y	1116	39.4°	Cs-137 PE
Ratemeter		11333 cpm	1m.r	48191 cpm	Y	Y	Y	1307	44.1°	Th-232 PE
Ratemeter			1m.r	13057 cpm	Y	Y	Y	13	44.0°	Cs-137 PE
Bicron	NA	6 uRem/hr	NA	40 uRem/hr	Y	Y	Y	1107	38.2°	Th-232 PE
Bicron	NA	1 uRem/hr	NA	30 uRem/hr	Y	Y	Y	1304	44.1°	Th-232 PE
Bicron	NA		NA	QE 12/1/15						

- 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 Information²

RateMeter: Make/Model: Ludlum 224-2
Detector 1: Make/Model: Ludlum 44-10
Bicron MicroRem Meter:

Serial No. 200098
Serial No. PR112642
Serial No. 1487

Cal. Due Date: 09/01/16
Cal. Due Date: 06/18/16

2. Check Source Information:

Source 1 Isotope: Th-232 Serial No.: 111
Response Acceptance Range (+/-20%): uRem/hr +20% _____

Activity: 0.1 units: MC
uRem/hr -20% _____

Assay Date: 12/30/10
net cpm + 20% 53795 net cpm -20% 35846

Source 2 Isotope: Cs-137 Serial No.: 119623-12
Response Acceptance Range (+/-20%): uRem/hr +20% _____

Activity: 0.02 units: MC
uRem/hr -20% _____

Assay Date: NA
net cpm + 20% 15275 net cpm -20% 8849

3. Technician/Worker Performing Checks:

Name: J. Edwards

Title: RCT

Date: 12/08/15 Time: 0850

4. Site or Location:

Site/Job: Area 4.1 / SED

Location Description: woods / parking lot

GPS Coordinates (when required): X-Coord: N 42° 32' 27.172" Y-Coord: W 78° 59' 58.352"

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	1min	8629 cpm	1min	43644 cpm	Y	Y	Y	0855	38.5°	Th-232 DE
RateMeter			1min	10659 cpm	Y	Y	Y	0900	36.5°	Cs-137 DE
RateMeter	1min	11682 cpm	1min	47989 cpm	Y	Y	Y	1058	37.2°	Th-232 DE
RateMeter			1min	13124 cpm	Y	Y	Y	1103	37.3°	Cs-137 DE
RateMeter	1min	9641 cpm	1min	46245 cpm	Y	Y	Y	1514	45.7°	Th-232 DE
RateMeter			1min	11346 cpm	Y	Y	Y	1520	45.5°	Cs-137 DE
Bicron	NA	9 uRem/hr	NA	30 uRem/hr	Y	Y	Y	1107	37.3°	Th-232 DE
Bicron	NA	7 uRem/hr	NA	30 uRem/hr	Y	Y	Y	1510	45.7°	Th-232 DE
Bicron	NA		NA	12109/15						

- 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. 200098 Cal. Due Date: 07/01/16
 Detector 1: Make/Model: Ludlum 44-10 Serial No. PR12642
 Bicron MicroRem Meter: Serial No. 1487 Cal. Due Date: 06/19/15

2. Check Source Information:

Source 1 Isotope: Th-232 Serial No.: 111 Activity: CC! units: NG Assay Date: 12/30/15
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 53798 net cpm -20% 35866
 Source 2 Isotope: CS-137 Serial No.: 119E2342 Activity: 0.02 units: NG 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: 12/09/15 Time: 0850

4. Site or Location:

Site/Job: SED / Area 4.1 Location Description: Parking lot / woods
 GPS Coordinates (when required): X-Coord: N 42° 22' 27.172" Y-Coord: W 78° 59' 50.352"

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	5718 cpm	1 min	45240 cpm	Y	Y	Y	0854	44.1°	Th-232 DE
Ratemeter			1 min	10344 cpm	Y	Y	Y	0900	44.2°	CS-137 DE
Ratemeter	1 min	10071 cpm	1 min	46281 cpm	Y	Y	Y	1120	55.2°	Th-232 DE
Ratemeter			1 min	12136 cpm	Y	Y	Y	1130	55.4°	CS-137 DE
Ratemeter	1 min	10052 cpm	1 min	45769 cpm	Y	Y	Y	1502	56.7°	Th-232 DE
Ratemeter			1 min	12135 cpm	Y	Y	Y	1458	56.9°	CS-137 DE
Bicron	NA	7 uRem/hr	NA	30 cpm / 1.5 uRem/hr	Y	Y	Y	1123	52.2°	Th-232 DE
Bicron	NA	6 uRem/hr	NA	30 cpm / 1.5 uRem/hr	Y	Y	Y	1451	56.7°	Th-232 DE
Bicron	NA		NA	DE 12/09/15						

- 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 Information

Ratemeter: Make/Model: LUDLUM 2241-2 Serial No. 262737 Cal. Due Date: 9/2/16
 Detector 1: Make/Model: LUDLUM 44-10 Serial No. PR 111127
 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: <0.1 units: µCi Assay Date: 12/30/10
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 22926 net cpm -20% 15284
 Source 2 Isotope: Cs-137 Serial No.: 87E13-48 Activity: 0.02 units: µCi Assay Date: 1/20/10
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 13375 net cpm -20% 8919

3. Technician/Worker Performing Checks:

Name: STEVE KINSMAN Title: RCT Date: 10/9/15 Time: 0900

4. Site or Location: Site/Job: 4.1

Location Description: WOODS

GPS Coordinates (when required): X-Coord: N42°32'28.2" Y-Coord: W78°59'50.6"

Instrument Field Response*					Use Acceptance Criteria				Remarks	
Meter	Bkg Cnt Time (min)	Bkg Counts (cpm) or uRem/hr	Source Cnt Time (min)	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	8093	1	20300	Y	Y	Y	0900	39.8	Th232 SK
Ratemeter	1	8093	1	11502	Y	Y	Y	0900	39.8	Cs137 SK
Ratemeter	1	8076	1	20475	Y	Y	Y	1245	58.8	Th232 SK
Ratemeter	1	8076	1	11783	Y	Y	Y	1245	58.8	Cs137 SK
Ratemeter	1	8739	1	20395	Y	Y	Y	1515	57.2	Th232 SK
Ratemeter	1	8739	1	12014	Y	Y	Y	1515	57.2	Cs137 SK
Bicron	NA	6	NA	17	Y	Y	Y	0900	39.8	Th232 SK
Bicron	NA	6	NA	17	Y	Y	Y	1245	58.8	Th232 SK
Bicron	NA	5	NA	16	Y	Y	Y	1515	57.2	Th232 SK

1. 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.
2. 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. 206098 Cal. Due Date: 09/01/16
 Detector 1: Make/Model: Ludlum 44-18 Serial No. FR112692
 Bicron MicroRem Meter: Serial No. 1457 Cal. Due Date: 04/15/16

2. Check Source Information:

Source 1 Isotope: Th-232 Serial No.: 111 Activity: 20.1 units: uCi Assay Date: 12/30/10
 Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 53798 net cpm -20% 35866
 Source 2 Isotope: Cs-137 Serial No.: 119E2312 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: 12/10/15 Time: 0855

4. Site or Location:

Site/Job: SED / Area 4.1 Location Description: parking lot / Waco TX
 GPS Coordinates (when required): X-Coord: N 42° 32' 27.17" Y-Coord: W 78° 59' 50.352"

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	8875 cpm	1 min	43599 cpm	Y	Y	Y	0903	43.5°	Th-232 GE
Ratemeter			1 min	10497 cpm	Y	Y	Y	0908	43.7°	Cs-137 GE
Ratemeter	1 min	4015 cpm	1 min	46020 cpm	Y	Y	Y	1213	52.0°	Th-232 SE
Ratemeter			1 min	11113 cpm	Y	Y	Y	1220	52.3°	Cs-137 SE
Ratemeter	1 min	9031 cpm	1 min	43789 cpm	Y	Y	Y	1503	53.7°	Th-232 GE
Ratemeter			1 min	11539 cpm	Y	Y	Y	1507	53.7°	Cs-137 GE
Bicron	NA	6 uRem/hr	NA	30 uRem/hr	Y	Y	Y	0910	43.7°	Th-232 GE
Bicron	NA	8 uRem/hr	NA	40 uRem/hr	Y	Y	Y	1216	52.0°	Th-232 SE
Bicron	NA	7 uRem/hr	NA	38 uRem/hr	Y	Y	Y	1509	53.6°	Th-232 GE

- 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 Cal. Due Date: 9/2/16
 Detector 1: Make/Model: LUDLUM 44-10 Serial No. PR 111127
 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: <0.1 units: µCi Assay Date: 12/30/10
 Response Acceptance Range (+/-20%): uRem/hr +20% uRem/hr -20% net cpm + 20% 22926 net cpm -20% 15284
 Source 2 Isotope: Cs-137 Serial No.: 87F13-48 Activity: 0.02 units: µCi Assay Date: 1/20/10
 Response Acceptance Range (+/-20%): uRem/hr +20% uRem/hr -20% net cpm + 20% 13375 net cpm -20% 8919

3. Technician/Worker Performing Checks:

Name: STEVE KUSMAN Title: RET Date: 12/10/15 Time: 0900

4. Site or Location: Site/Job: 4.1

Location Description: WOODS

GPS Coordinates (when required): X-Coord: N 42° 32' 28.3" Y-Coord: W 78° 59' 50.9"

Instrument Field Response ²					Use Acceptance Criteria				Remarks	
Meter	Bkg Cnt Time (m)	Bkg Counts (cpm) or uRem/hr	Source Cnt Time (m)	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	7913	1	25185	Y	Y	Y	0700	42.3	Th 232 SK
Ratemeter	1	7913	1	11559	Y	Y	Y	0700	42.3	Cs 137 SK
Ratemeter	1	8236	1	20445	Y	Y	Y	1230	54.5	Th 232 SK
Ratemeter	1	8236	1	20445/1879	Y	Y	Y	1230	54.5	Cs 137 SK
Ratemeter	1	8509	1	21117	Y	Y	Y	1500	52.8	Th 232 SK
Ratemeter	1	8509	1	12123	Y	Y	Y	1500	52.8	Cs 137 SK
Bicron	NA	6	NA	17	Y	Y	Y	0900	42.3	Th 232 SK
Bicron	NA	6	NA	17	Y	Y	Y	1230	54.5	Th 232 SK
Bicron	NA	6	NA	17	Y	Y	Y	1500	52.8	Th 232 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.

App E-
Sub-Area 4.1- Sample Location Sheets

SAMPLE LOCATION DATA SHEET

Date: 12/2/15 Project: NY SERDA Name: J. Brown

Weather: Sunny, upper 50s

1. Sample Area (SA):

SA Designation: 4.1.A Description: wooded lot
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.A.R.1 Matrix: Soil

Location Coord: 42° 32' 27.88" N 79° 2' 47.72" W

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: flat ground, some trees, edge of cornfield, dry leaves (cleared)

Canopy Type: partially open Land Use: hiking, etc. Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	10,362	7654	8	7	Bicron Microbeam #1487 cal due 6/18/16
1	10,313	9717			Ludlum 2241-2 # 206078
					with probe 44-10 # PR 112612 cal due 7/1/16

4. Sample Information:

Sample Area ID: 4.1.A.R.1.1-2

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	topsoil	brown	4.1.A.R.1.1	few roots
15-30	topsoil	brown	4.1.A.R.1.2	more roots

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

SAMPLE LOCATION DATA SHEET

Date: 12/01/15 Project: NY SERGA Name: J. Brown
 Weather: cloudy upper 40s / low 50s

1. Sample Area (SA):

SA Designation: 4.1.B Description: Wooded lot
 SA Origin Location: _____ Coord. System: _____
 SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.B.R.1 Matrix: Soil
 Location Coord: 42° 32' 27.53" N 79° 2' 45.36" W

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: flat ground, some trees, dead leaves and sticks (clear)

Canopy Type: partially open Land Use: hiking, etc Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	10,015	9474	7	6	Bicron MicroRem #1487 cal due 6/18/16
1	10,118	9281			Ludlum 2241-Z #206098
					with probe 44-10 #PR112642 cal due 9/1/14

4. Sample Information:

Sample Area ID: 4.1.B.R.1.1-4

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	topsoil	brown	4.1.B.R.1.1	
15-30	topsoil	brown	4.1.B.R.1.2	Few roots
30-60	topsoil/clay	brown	4.1.B.R.1.3	Few roots
60-100	topsoil/clay	brown	4.1.B.R.1.4	Few roots, rock, more moisture

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

SAMPLE LOCATION DATA SHEET

Date: 12-10-15 Project: NYSEDA Name: Tori Brown

Weather: calm, cloudy, 40-50°

1. Sample Area (SA):

SA Designation: 4.1B.2 Description: Woods
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1B.R.2 Matrix: Soil

Location Coord: N 42° 32' 26.6" W 79° 02' 45.78"

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: Woods, vines, leaves

Canopy Type: Open Land Use: Hiking 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	8811	8395	8	6	Bicron - LUDLUM 2241-2 Serial # 262737 cal due 9/2/16
1	8889	8352			2x2 - LUDLUM 44-10 Serial # PRM127 #A2240 cal due 8/4/16

4. Sample Information:

Sample Area ID: 4.1B.R.2.1-6

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	4.1B.R.2.1	Small roots
15-30	soil	Brown	4.1B.R.2.2	N/A
30-60	soil	Brown	4.1B.R.2.3	N/A
60-100	soil/sand	Brown	4.1B.R.2.4	roots
30-60	soil	Brown	4.1B.R.2.5	N/A
60-100	soil/sand	Brown	4.1B.R.2.6	roots

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



MNV TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12/8/15 Project: MYSERDA Name: J. BrownWeather: Sunny, cool, upper 30's

1. Sample Area (SA):

SA Designation: 4.1.B Description: Wooded lot
 SA Origin Location: _____ Coord. System: _____
 SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.B.R.3 Matrix: SoilLocation Coord: 42°32'25.66"N 79°2'45.27"W

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: flat, some trees and prickles, dead leaves (clear)Canopy Type: partially open Land Use: hiking, etc. Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	11,214	9670	7	7	Bicron Microgram #1487 cal due 6/18/16
1	11,361	9632			Ludlum 2241-2 # 206098
					with probe 44-10 # 112642 cal due 7/1/16

4. Sample Information:

Sample Area ID: 4.1.B.R.3.1.2

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	top soil	brown	4.1.B.R.3.1	few roots
15-30	top soil	brown	4.1.B.R.3.2	more roots

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

SAMPLE LOCATION DATA SHEET

Date: 12/8/15 Project: NYSERDA Name: J. Brown

Weather: Sunny cool upper 30s

1. Sample Area (SA):

SA Designation: 4.1.B Description: wooded lot
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.B.R.4 Matrix: Soil

Location Coord: 42° 32' 24.89" N 79° 2' 45.56" W

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: flat ground some trees, dead logs (cleared)

Canopy Type: partial open Land Use: hiking, etc. Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	10,057	9562	6	5	Bicron Microrem #1487 cal due 6/1/16
1	10,087	9490			Ludlum 2241-2# 206078
					with probe 44-10# 112642 cal due 7/1/16

4. Sample Information:

Sample Area ID: 4.1.B.R.4.1-2

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	topsoil	brown	4.1.B.R.4.1	few rocks
15-30	topsoil	brown	4.1.B.R.4.2	few rocks

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

SAMPLE LOCATION DATA SHEET

Date: 12/8/15 Project: NYSEERDA Name: J. Brown

Weather: Sunny (60° upper 30's)

1. Sample Area (SA):

SA Designation: 4.1.B Description: Wooded lot
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.B.R.5 Matrix: Soil

Location Coord: 42° 32' 24.00" N 79° 2' 46.27" W

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: flat heavy rocks, dead leaves (clear)

Canopy Type: open Land Use: hiking, etc. Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	10,661	9644	7	6	Bicron MicroRem #1487 cal due 4/18/16
1	10,730	9576			Ludlum 2241-Z #266098
					with probe 44-10 #112642 cal due 7/1/16

4. Sample Information:

Sample Area ID: 4.1.B.R.5.1-2

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	top soil	dark brown	4.1.B.R.5.1	few roots
15-30	top soil	brown	4.1.B.R.5.2	more roots

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

SAMPLE LOCATION DATA SHEET

Date: 12/8/15 Project: MSERDA Name: J. Brown

Weather: Sunny, cool, upper 30's

1. Sample Area (SA):

SA Designation: 4.1.B Description: wooded lot
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.B.6 Matrix: Soil
Location Coord: 42° 32' 23.70" N 79° 2' 45.30" W

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: Clear ground, some trees and ground brush - dead leaves (cleared)

Canopy Type: partially open Land Use: hiking, etc. Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	9527	9248	7	6	Bicron Micro Rem # 1487 cal die 6/10/16
1	9579	9080			Ludlum 2241-2 # 206098
					with probe 94-10 # 112642 cal die 9/1/16

4. Sample Information:

Sample Area ID: 4.1.B.6.1-2

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	topsoil	dark brown	4.1.B.6.1	Few roots
15-30	topsoil	brown	4.1.B.6.2	more roots

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

SAMPLE LOCATION DATA SHEET

Date: 12/9/15 Project: MY SERDA Name: J. Brown

Weather: Sunny, upper 50s

1. Sample Area (SA):

SA Designation: 4.1.B Description: Wooded lot
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.B.R.7 Matrix: Soil

Location Coord: 42° 32' 23.13" N 79° 2' 45.34" W

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: flat some trees and prickles, dead leaves (clear)

Canopy Type: partially open Land Use: hiking, etc. 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	10,444	9501	8	7	Bicron MicroRem# 1487 caldine 4/15/16
1	10,412	9600			Ludlum 2241-2# 206078
					with probe 44-10# PR24042 caldine 7/1/16

4. Sample Information:

Sample Area ID: 4.1.B.R.7.1-2

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	forest	dark brown	4.1.B.R.7.1	few roots
15-30	forest	brown	4.1.B.R.7.2	few roots

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

SAMPLE LOCATION DATA SHEET

Date: 12/9/15 Project: NYSERDA Name: J. Brown

Weather: Sunny, upper 50's

1. Sample Area (SA):

SA Designation: 4.1.B Description: wooded lot
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.B.R.8 Matrix: Soil
Location Coord: 42°32'23.19" N 79°2'46.36" W

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: flat ground, thin trees, ground brush and prickly dead leaves (cleared)

Canopy Type: mostly open Land Use: hiking, etc. Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	9606	9302	7	7	Bicron Microlog # 1487 cal'd 6/15/16
1	9663	9159			Luciani 2241-2 # 200008
					with probe 44-10 # PR112612 cal'd 6/15/16

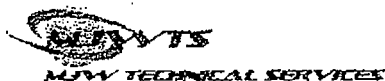
4. Sample Information:

Sample Area ID: 4.1.B.R.8.1-2 9/6/16

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	topsoil	dark brown	4.1.B.R.8.1	few roots
15-30	topsoil	brown	4.1.B.R.8.2	more roots

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



SAMPLE LOCATION DATA SHEET

Date: 12/10/15 Project: N4SERDA Name: J. Brown

Weather: Sunny upper 40's

1. Sample Area (SA):

SA Designation: 4.1.C Description: wooded lot
 SA Origin Location: _____ Coord. System: _____
 SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.C.R.1 Matrix: Soil
 Location Coord: 42° 32' 26.89" N 79° 2' 43.11" W

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: flat, some trees and ground brush, dead leaves (cleared)

Canopy Type: mostly open Land Use: hiking etc Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	10,423	9703	6	5	Bicron MicroRad # 1487 cal due 6/15/16 Ludlum 2241-Z # 266078 with probe 44-10 # PR 112642 cal due 9/1/11
1	10,437	9950			

4. Sample Information:

Sample Area ID: 4.1.C.R.1.1-4

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	topsoil	brown	4.1.C.R.1.1	
15-30	topsoil	brown	4.1.C.R.1.2	few roots
30-60	topsoil/clay	brown	4.1.C.R.1.3	more roots
60-100	topsoil/clay	brown	4.1.C.R.1.4	more roots

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



NJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12/10/15 Project: NYSERDA Name: J. BrownWeather: Sunny, upper 40's

1. Sample Area (SA):

SA Designation: 4.1.C Description: wooded lot
 SA Origin Location: _____ Coord. System: _____
 SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.C.R.2 Matrix: SoilLocation Coord: 42°32'27.10"N 79°2'41.85"W

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: flat ground, some trees and ground brush, dead leaves and sticks (cleared)Canopy Type: partially open Land Use: hiking, etc. Soil Moisture (Wet, dry, etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	10,555	9826	7	6	Buran MicroRem #1487 cal due 6/18/16
1	10,856	10002			lidlum 2241-2 #206098
					with probe 44-10 #PR 112642 cal due

9/1/16

4. Sample Information:

Sample Area ID: 4.1.C.R.2.1-4

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	top soil	light brown	4.1.C.R.2.1	few roots
15-30	top soil	light brown	4.1.C.R.2.2	few roots
30-60	top soil	light brown	4.1.C.R.2.3	few roots
60-100	top soil	light brown	4.1.C.R.2.4	few roots

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

10/20/15



MVT TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12-9-15 Project: NYSE RDA Name: Tori BrownWeather: calm, sunny, 40-50°F

1. Sample Area (SA):

SA Designation: 4.1C Description: Woods
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1C.R.3 Matrix: SoilLocation Coord: N 42° 32' 26.39" W 77° 02' 40.86"

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

X Dist. from Origin (0,0) N/A Y Dist. from Origin: N/ASite Sketch Attached (Yes) (NO)Sample Location Description: brush, dead trees, green vegetationCanopy Type: Open Land Use: Hiking 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	9382	8215	7	6	Bicron WDWL 2241-2 Serial # 252737 cal due 9/2/16
1	9324	8584			2x2 WDWL 74-10 Serial # PR11127 #A2240 cal due 8/4/16

4. Sample Information:

Sample Area ID: 4.1C.R.3.1-2,5

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	Brown	4.1C.R.3.1	N/A
15-30	Soil	Brown	4.1C.R.3.2	N/A
15-30	Soil	Brown	4.1C.R.3.5	N/A

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

10/20/15

SAMPLE LOCATION DATA SHEET

Date: 12-4-15 Project: NYSCROA Name: Teri Brown

Weather: calm, sunny, 40-50°

1. Sample Area (SA):

SA Designation: 4.1C Description: Woods
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1C.R.4 Matrix: Soil

Location Coord: N 42° 32' 25.60" W 79° 02' 40.45"

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: Woods, young trees, vines, leaves

Canopy Type: Open Land Use: Hiking 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	8582	8510	5	4	Bicron - WDLUM 2241-2 Serial # 262737 cal due 9/2/16
1	8800	8232			2x2 - WDLUM 44-10 Serial # PR11127 #A2240 cal due 8/4/16

4. Sample Information:

Sample Area ID: 4.1C.R.4.1-2

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	4.1C.R.4.1	small roots
15-30	soil	Brown	4.1C.R.4.2	N/A

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



MTS TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12-9-15 Project: NYSEDA Name: Tom Brown

Weather: _____

1. Sample Area (SA):

SA Designation: 4.1C Description: Large depression in woods, (dug out area)
 SA Origin Location: _____ Coord. System: _____
 SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1C.R.5 Matrix: SoilLocation Coord: N 42° 32' 25.2" W 79° 02' 41.52"

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

X Dist. from Origin (0,0) N/A Y Dist. from Origin: N/ASite Sketch Attached (Yes) (NO)Sample Location Description: depression in woods, ^{kid} hay, dead trees, leaves, green veg.Canopy Type: Open Land Use: Hiking Soil Moisture (Wet, dry, etc.): Moist

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	8349	8435	6	7	Bicron- WDLUM 2241-2 serial # 262737 cal due 9/2/16
1	8491	8328			2x2- WDLUM 44-10 serial # A211127 #A2240 cal due 8/4/16

4. Sample Information:

Sample Area ID: 4.1C.R.5.1-2

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/clay	Brown	4.1C.R.5.1	rust color through out, dead vegetation
15-30	Clay	gray/red	4.1C.R.5.2	wet clay, rust color

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

10/20/15



NYS TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12-9-15 Project: NYSERDA Name: Toni Brown

Weather: _____

1. Sample Area (SA):

SA Designation: 4.1C Description: Woods
 SA Origin Location: _____ Coord. System: _____
 SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1C.R.6 Matrix: SoilLocation Coord: N 42° 32' 25.04" W 79° 02' 42.35"

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

X Dist. from Origin (0.0) N/A Y Dist. from Origin: N/ASite Sketch Attached (Yes) ☒ (NO)Sample Location Description: heavy brush, prickles, above depression, leaves, green vegCanopy Type: Open Land Use: Hiking 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	9064	8397	7	5	Bicron- LUDLUM 2241-2 serial # 202737 cal due 9/2/14
1	8869	8306			2x2- LUDLUM 44-10 serial # PR11127 #A2240 cal due 8/4/14

4. Sample Information:

Sample Area ID: 4.1C.R.6.1-2

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	4.1C.R.6.1	N/A
15-30	Soil	Brown	4.1C.R.6.2	N/A

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

SAMPLE LOCATION DATA SHEET

Date: 12/9/15 Project: AMSERDA Name: J. Brown

Weather: windy, heavy low 50's

1. Sample Area (SA):

SA Designation: 4.1.C Description: wooded lot
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.C.R.7 Matrix: Soil
Location Coord: 42° 32' 25.71" N 77° 2' 43.12" W

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: slight incline on bank of basin area, dead leaves and sticks (cleared)

Canopy Type: open Land Use: hiking, etc Soil Moisture (Wet, dry, etc.): _____

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	10,190	7608	7	6	Bicron Micro2mm # 1487 cal date 6/1/11
1	10,145	7416			Ludlum 2241-2 # 200698
					with probe 44-10 # PR112642 cal date 9/1/12

4. Sample Information:

Sample Area ID: 4.1.C.R.7.1-2

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	topsoil	brown	4.1.C.R.7.1	
15-30	topsoil	brown	4.1.C.R.7.2	few roots

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

SAMPLE LOCATION DATA SHEET

Date: 12-9-15 Project: NYSERDA Name: Ton Brown

Weather: calm, sunny, 40-50°F

1. Sample Area (SA):

SA Designation: 4.1C Description: Woods
 SA Origin Location: _____ Coord. System: _____
 SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1C-R.8 Matrix: Soil

Location Coord: N 42° 32' 26.44" W 7° 02' 42.25"

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: dead trees, vines, leaves

Canopy Type: Open Land Use: Hiking 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	8196	7923	5	4	Bicron- Ludlum 2241-2 Serial # 262737 Cal due 9/2/16
1	8178	7818			2x2- Ludlum 44-10 Serial # PR111127 #A224U Cal due 8/4/16

4. Sample Information:

Sample Area ID: 4.1C-R.8-1-2

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	4.1C-R.8.1	rocks
15-30	soil/rocks	Brown	4.1C-R.8.2	Large rocks

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



MVT TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12-9-15Project: NYSDAName: Tom Brown

Weather: _____

1. Sample Area (SA):

SA Designation: 4.1CDescription: Woods

SA Origin Location: _____

Coord. System: _____

SA Land Mark Description: _____

Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1C.R.9 Matrix: SoilLocation Coord: N 42° 32' 26.68" W 79° 02' 41.52"

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

X Dist. from Origin (0,0) N/AY Dist. from Origin: N/ASite Sketch Attached (Yes) ☒ (No) ☐Sample Location Description: Woods, light brush, leavesCanopy Type: Open Land Use: Hiking 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	8907	8094	8	6	Bicron - Ludlum 2241-L Serial # 262137 Cal due 9/2/16
1	8974	8066			2x2 - Ludlum 44-10 Serial # PR11127 #A224U cal due 8/4/16

4. Sample Information:

Sample Area ID: 4.1C.R.9.1-2, 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	Brown	4.1C.R.9.1	N/A
15-30	soil	Brown	4.1C.R.9.2	small root
0-15	soil	Brown	4.1C.R.9.5	N/A

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

10/20/15

SAMPLE LOCATION DATA SHEET

Date: 12/10/15 Project: NY SEROA Name: J. Brown

Weather: Sunny, upper 40's

1. Sample Area (SA):

SA Designation: 4.1.D. Description: Wooded lot
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.D.R.1 Matrix: Soil

Location Coord: 42°32'28.69" N 79°2'38.58" W

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: flat ground, edge of homeowners field, dead leaves (cleared)

Canopy Type: partially open Land Use: hiking, etc. Soil Moisture (Wet, dry, etc.): _____

3. Location Radiation Readings:

2x2 NaI (cpm)			Bieron (uRem/hr)		Notes
Count time (min)	1 cm	1 m	1 cm	1 m	
1	10,503	9869	7	7	Bieron MicroRem # 1487 cal disc 6/15/16
1	10,777	9821			Ludlum 2241-2 # 206098
					with probe 44-10 # PR 112142 cal disc 9/1/16

4. Sample Information:

Sample Area ID: 4.1.D.R.1.1-2, 3, 4

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	top soil	brown	4.1.D.R.1.1	few roots
15-30	top soil	brown	4.1.D.R.1.2	few roots
30-60	top soil	brown	4.1.D.R.1.3	more roots
60-100	top soil/clay	brown	4.1.D.R.1.4	more roots

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

SAMPLE LOCATION DATA SHEET

Date: 12/10/15 Project: NYSEERDA Name: J. Brown

Weather: SUNNY upper 40's

1. Sample Area (SA):

SA Designation: 4.1.D Description: Wooded lot
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1.D.R.2 Matrix: Soil

Location Coord: 42° 32' 28.31" N 79° 2' 36.95" W

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: flat ground, next to ATV trail, some trees and ground brush, dead
leaves (cleared)

Canopy Type: partially open Land Use: hiking, etc Soil Moisture (Wet, dry,
etc.): damp

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	10,654	10,437	7	7	Bicron MicroRena #1487 cal due 6/18/16
1	10,677	10,160			Ludlum 2241-2+ 206098
					with probe 44-10 # PR 112642 cal due 9/1/16

4. Sample Information:

Sample Area ID: 4.1.D.R.2.1-4, 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	topsoil	brown	4.1.D.R.2.1	few roots
15-30	topsoil	brown	4.1.D.R.2.2	few roots
30-60	topsoil	brown	4.1.D.R.2.3	more roots
60-100	topsoil, clay	light brown	4.1.D.R.2.4	more roots
15-30	topsoil	brown	4.1.D.R.2.5	few roots

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

SAMPLE LOCATION DATA SHEET

Date: 12-9-15 Project: NYSERDA Name: Tan Brown

Weather: Sunny, clear, 40-50°F

1. Sample Area (SA):

SA Designation: 41D Description: Woods
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1D.R.3 Matrix: Soil

Location Coord: N 42° 32' 27.5" W 79° 02' 27.16"

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: young trees, moss and grass, 20 ft off trail

Canopy Type: Open Land Use: Hiking 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	8492	8143	6	5	Bicron: LUDLOW 2241-2 Serial # 242737 Cal due 8/2/16
1	8763	8295			2x2: LUDLOW 44-10 Serial # PR11127 #A2240 Cal due 8/4/16

4. Sample Information:

Sample Area ID: 4.1D.R.3.1-2

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	4.1D.R.3.1	N/A
15-30	soil	Brown	4.1D.R.3.2	N/A

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



MVT TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12-9-15 Project: NYSEDPA Name: Ton BrownWeather: calm, sunny, 40-50°F

1. Sample Area (SA):

SA Designation: 4.1D Description: Woods

SA Origin Location: _____ Coord. System: _____

SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1D.2.4 Matrix: SoilLocation Coord: N 42° 33' 27.24" W 79° 02' 38.48"

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

X Dist. from Origin (0,0) N/A Y Dist. from Origin: N/ASite Sketch Attached (Yes) (NO)Sample Location Description: Woods, dead trees, light brush, leaves, grass, 30ft off trailCanopy Type: Open Land Use: Hiking 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	8247	8302	7	6	Bicron: WDLUM 2241-2 Serial # 262737 Cal due 9/2/16
1	8279	8164			2x2 WDLUM 44-10 Serial # PR11127 #A 224U Cal due 8/4/16

4. Sample Information:

Sample Area ID: 4.1D.2.4.1-2,5

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	Brown	4.1D.2.4.1	very small roots
15-30	Soil	Brown	4.1D.2.4.2	roots
0-15	Soil	Brown	4.1D.2.4.5	very small roots

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

10/20/15

SAMPLE LOCATION DATA SHEET

Date: 12-9-15 Project: NYSCRDA Name: Teri Brown

Weather: calm, sunny, 40-50°F

1. Sample Area (SA):

SA Designation: 4.1D Description: Woods
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1D.R.5 Matrix: Soil

Location Coord: N 42° 32' 27.73" W 79° 02' 37.09"

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: young trees, moss and grass, 15 FE off trail

Canopy Type: Open Land Use: Hiking 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	9088	8732	7	6	Bicron - WDLUM 2241-2 Serial # 202731 cal due 9/2/16
1	9189	8398			2x2 - WDLUM H4-1D Serial # PR11127 #A2240 cal due 8/4/16

4. Sample Information:

Sample Area ID: 4.1D.R.5.1-2

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	4.1D.R.5.1	small roots
15-30	Soil	Brown	4.1D.R.5.2	small roots

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

SAMPLE LOCATION DATA SHEET

Date: 12-9-15 Project: NYSEDA Name: Tori Brown

Weather: _____

1. Sample Area (SA):

SA Designation: 4.1D Description: Woods
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 4.1D.R.6 Matrix: Soil

Location Coord: N 42° 32' 28.06" W 79° 02' 38.48"

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: WOODS, vines, dead trees, leaves

Canopy Type: Open Land Use: Hiking 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	8425	8610	6	5	Bicron Ludlum 2241-2 Serial # 262737 Cal due 8/2/16
1	9038	8553			2x2 Ludlum 44-10 Serial # PR11127 #A2240 Cal due 8/4/16

4. Sample Information:

Sample Area ID: 4.1D.R.6.1-2

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	4.1D.R.6.1	N/A
15-30	Soil	Brown	4.1D.R.6.2	N/A

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

10/20/15