App E - Sub-Area 3.1 - COC Forms

Field Copy

Page: 2 of 2
Project #: N/A
GEL Quote #: N/A
COC Number (1): NYSERDA 81
PO Number: N/A

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 #:

Project/Site Name: Fax #:

Address:

Collected by: Send Results To:

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Number of containers										<-- Preservative Type (6)	Comments
3.2.4.R.1	10-19-15	10:00	N	N/A	N/A	N	N	1											Note: extra sample is required for sample specific QC
3.2.4.R.2	10-19-15	10:10	N	N/A	N/A	N	N	1											
3.2.4.R.3	10-19-15	10:35	N	N/A	N/A	N	N	1											
3.2.4.R.4	10-19-15	11:10	N	N/A	N/A	N	N	1											
3.2.4.R.5	10-19-15	14:10	FD	N/A	N/A	N	N	1											
3.1.7.R.1	10-19-15	14:50	N	N/A	N/A	N	N	1											
3.1.7.R.2	10-19-15	15:00	N	N/A	N/A	N	N	1											
3.1.8.R.1	10/19/15	15:20	N	N/A	N/A	N	N	1											
3.1.8.R.2	10-19-15	15:25	N	N/A	N/A	N	N	1											
3.1.8.R.6	10-19-15	16:15	~~FB~~ EB	N/A	N/A	N	N	1											

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

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

Sample Shipping and Delivery Details

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, 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, 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

Field copy

Page: _____ of _____
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Client Name: Phone #:

Project/Site Name: Fax #:

Address:

Collected by: Send Results To:

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (1)	Field Filtered (2)	Sample Matrix (4)	Should this sample be considered Radioactive	Should this sample be considered TSCA Regulated	Number of containers										<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
3.1.3.E.1	10-20-15	13:40	N	N/A	N/A	N	N	1											
3.1.3.E.2	10-20-15	13:50	N	N/A	N/A	N	N	1											
3.1.3.E.3	10-20-15	14:00	N	N/A	N/A	N	N	1											
3.1.3.E.4	10-20-15	14:25	N	N/A	N/A	N	N	1											
3.1.9.E.1	10-20-15	14:45	N	N/A	N/A	N	N	1											
3.1.9.E.2	10-20-15	14:55	N	N/A	N/A	N	N	1											
3.1.9.E.6	10-20-15	16:00	EB	N/A	N/A	N	N	1											

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

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

Sample Shipping and Delivery Details

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, 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, 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

entered in CCC

Field Copy

Page. ____ of ____
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Project/Site Name: Fax #:

Address:

Collected by: Send Results To:

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (1)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Number of containers (5)	Preservative Type (6)	Comments
3.1.2.E.1	10-20-15	11:45	N	N/A	N/A	N	N	1		
3.1.2.E.2	10-20-15	11:00	N	N/A	N/A	N	N	1		
3.1.2.E.3	10-20-15	11:15	N	N/A	N/A	N	N	1		
3.1.2.E.4	10-20-15	11:30	N	N/A	N/A	N	N	1		

Note: extra sample is required for sample specific QC

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

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM:

Method of Shipment: Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

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, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, F=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 = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

entered to COC

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GEL Quote #:
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Project/Site Name: Fax #:

Address:

Collected by: Send Results To:

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Number of	<-- Preservative Type (6)	Comments
3.1-20.R.1	10-20-15	1000	N	N/A	N/A	N	N	1		Note: extra sample is required for sample specific QC
3.1.20.R.2	10-20-15	1020	N	N/A	N/A	N	N	1		
3.1.17.R.1	10-20-15	10:40	N	N/A	N/A	N	N	1		
3.1.17.R.2	10.20.15	10:50	N	N/A	N/A	N	N	1		
3.1.17.R.5	10-20-15	10:45	~~FD~~	~~N/A~~	N/A	N	N	1		
3.1.17.R.6	10-20-15	10:55	FD	N/A	N/A	N	N	1		
3.1.18.R.1	10-20-15	11:20	N	N/A	N/A	N	N	1		
3.1.18.R.2	10-20-15	11:30	N	N/A	N/A	N	N	1		
3.1.19.R.1	10-20-15	13:40	N	N/A	N/A	N	N	1		
3.1.19.R.2	10-20-15	13:45	N	N/A	N/A	N	N	1		

TAT Requested: Normal / Rush: Specify: (Subject to Surcharge) Fax Results: Yes / No

Circle Deliverable: COA / 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

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM:

Method of Shipment: Date Shipped:

Airbill #:

Airbill #:

For Lab Receiving Use Only

Custody Seal Intact? YES NO

Cooler Temp: C

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 = Miscellaneous Liquid, SO = Soil, SD = Sediment, SL = Sludge, SS = Solid Waste, O = Oil, F = Filter, P = Wipe, U = Urine, F = Fecal, N = Saliva

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, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

✓

Entered to COC

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GEL Chain of Custody and Analytical Request

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Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Number of	<-- Preservative Type (6)	Comments
3.1.21.R1	10-20-15	1445	N	N/A	N/A	N	N	1		Note: extra sample is required for sample specific QC
3.1.21.R2	10-20-15	14:30	N	N/A	N/A	N	N	1		
3.1.22.R1	10-20-15	14:45	N	N/A	N/A	N	N	1		
3.1.22.R2	10-20-15	1450	N	N/A	N/A	N	N	1		
3.1.23.R1	10-20-15	16:10	N	N/A	N/A	N	N	1		
3.1.23.R2	10-20-15	15:15	N	N/A	N/A	N	N	1		
3.1.24.R1	10-20-15	15:35	N	N/A	N/A	N	N	1		
3.1.24.R2	10-20-15	15:40	N	N/A	N/A	N	N	1		
3.1.24.RB	10-20-15	16:00	EB	N/A	N/A	N	N	1		

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

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

Sample Shipping and Delivery Details

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, 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 = Misc. Liquid, SO = Soil, SD = Sediments, 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 = 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

Entered to COC

✓

Field Copy

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Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Number of containers	<-- Preservative Type (6)	Comments
✓3.1.10.E.1	10-21-15	10:00	N							Note: extra sample is required for sample specific QC
✓3.1.10 E 2	10-21-15	10:05	N							
✓3.1.12E1	10-21-15	10:25	N							
✓3.1.12E2	10.21.15	10:30	N							
✓3.1.13R.1	10.21.15	10:55	N							
✓3.1.13R.2	10.21.15	11:00	N							
✓3.1.14 R1	10-21-15	10:20	N							
✓3.1.14 R2	10-21-15	10:25	N							

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

Relinquished By (Signed)	Date	Time	Received by (Signed)	Date	Time
1			1		
2			2		
3			3		

Sample Shipping and Delivery Details

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 - Miscellaneous Liquid, SO - Soil, SD - Sediment, SL - Sludge, SS - Solid Waste, O - Oil, F - Filter, P - Wipe, C - Charcoal, F - Fecal, N - Nasal
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, 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

✓ 41

Entered to COC 10-21

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GEL Chain of Custody and Analytical Request

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Collected by: Send Results To:

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Number of containers	<-- Preservative Type (6)	Comments
✓ 3.1.1.E.1	10-21-15	13:10	N							Note: extra sample is required for sample specific QC
✓ 3.1.1.E.2	10-21-15	13:25	N							
✓ 3.1.1.E.3	10-21-15	13:35	N							
✓ 3.1.1.E.4	10-21-15	13:45	N							
✓ 3.1.1.E.5	10-21-15	13:15	FD							
✓ 3.1.1.E.6	10-21-15	13:30	FD							
✓ 3.1.1.E.7	10-21-15	13:40	FD							
✓ 3.1.1.E.8	10-21-15	13:50	FD							

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

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM:
Method of Shipment: Date Shipped:
Airbill #:
Airbill #:

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

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, 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, 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

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

✓

Entered COC

Field Copy

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Address:

Collected by: Send Results To:

Sample Analysis Requested [5] (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code [2]	Field Filtered [3]	Sample Matrix [4]	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Number of containers	Preservative Type (6)	Comments
3.1.11.E1	10/21/15	13:35	N							Note: extra sample is required for sample specific QC
3.1.11.E2	10/21/15	13:40	N							
3.1.15.R1	10/21/15	14:40	N							
3.1.15.R2	10/21/15	14:45	N							
3.1.16.R1	10/21/15	14:10	N							
3.1.16.R2	10/21/15	14:15	N							
~~3.1.16.R6~~ 3.1.16.R6	10/21/15	16:00	EB							

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

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

Sample Shipping and Delivery Details

GEL PM:
Method of Shipment: Date Shipped:
Airbill #:
Airbill #:

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

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 - Miscellaneous Liquid, SO - Soil, SD - Sediment, SL - Sludge, SS - Solid Waste, O - Oil, F - Filter, P - Wipe, U - Urine, F - Fecal, N - Nasal
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, ST - Sodium Thiosulfate. If no preservative is added - leave field blank

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

Field Copy

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 #:

Project/Site Name: Fax #:

Address:

Collected by: Send Results To:

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID (* For composites - indicate start and stop date/time)	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	# per cont.	<-- Preservative Type (6)	Comments
✓ 3.1.6.R.1	10-21-15	14:15	N							Note: extra sample is required for sample specific QC
✓ 3.1.6.R.2	10-21-15	14:25	N							
✓ 3.1.6.R.3	10-21-15	14:35	N							
✓ 3.1.6.R.4	10-21-15	14:20	N							
✓ 3.1.5.R.1	10-21-15	15:00	N							
✓ 3.1.5.R.2	10-21-15	1505	N							
✓ 3.1.5.R.3	10-21-15	1520	N							
✓ 3.1.5.R.4	10-21-15	15:40	N							
✓ 3.1.5.R.6	10-21-15	1600	EB							

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

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

Sample Shipping and Delivery Details

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, 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=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feces, 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 = 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

✓

Entered COC

Field Copy

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 #:

Project/Site Name: Fax #:

Address:

Collected by: Send Results To:

Sample Analysis Requested (5) (Fill in the number of containers for each test)

Sample ID * For composites - indicate start and stop date/time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Should this sample be considered: Radioactive	Should this sample be considered: TSCA Regulated	Number of containers	<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
1.3.C.1	10-21-15	9:35	N							
1.3.C.2	10-21-15	9:50	N							
1.3.C.3	10-21-15	10:00	N							
1.3.C.5	10-21-15	9:40	FD							
1.3.C.6	10-21-15	9:55	FD							
3.1.4.R.1	10-21-15	10:55	N							
3.1.4.R.2	10-21-15	11:05	N							
3.1.4.R.3	10-21-15	11:15	N							
3.1.4.R.4	10-21-15	11:20	N							

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

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
1			1		
2			2		
3			3		

Sample Shipping and Delivery Details

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, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=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 = 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**

entered to COC 10-21

App E-

Sub-Area 3.1- Instrument Field Sheets

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 2241-2 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: ~~<0.01~~ JE 10/15/15 <0.1 units: µCi Assay Date: 12/20/10
   Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 58798 net cpm -20% 35866

   Source 2 Isotope: Cs-137 Serial No.: 119E33-12 Activity: 0.02 units: µCi 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: 1354

4. **Site or Location:** Site/Job: Area 3.1 Location Description: Cornfield
   GPS Coordinates (when required): X-Coord: N 42°28'54.9" Y-Coord: W 078°40'39.7"

	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	9993 cpm	1 min	11597 cpm	Y	Y	Y	1400	64.4	Cs-137 JE
Ratemeter			1 min	47539 cpm	Y	Y	Y	1408	64.1	Th-232 JE
Ratemeter										
Ratemeter										
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 2241-2 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: Cs-137 Serial No.: 119E23-12 Activity: 0.02 units: μCi Assay Date: NA
   Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 53273 net cpm -20% 8849

   Source 2 Isotope: Th-232 Serial No.: 111 Activity: <0.1 units: μCi Assay Date: 12/30/10
   Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 53798 net cpm -20% 35866

3. **Technician/Worker Performing Checks:**
   Name: J. Edwards Title: RCT Date: 10/15/15 Time: 1640

4. **Site or Location:** Site/Job: Area 3.1 Location Description: Cornfield
   GPS Coordinates (when required): X-Coord: N42°28'54.9" Y-Coord: W078°40'39.7"

	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	9761 cpm	1 min	11888 cpm	Y	Y	Y	1645	56.3	Cs-137 JE
Ratemeter			1 min	47819 cpm	Y	Y	Y	1650	55.9	Th-232 JE
Ratemeter										
Ratemeter										
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 2241-2 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% _____ net cpm + 20% 53798 net cpm -20% 35865
   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: 10/16/15 Time: 1000

4. **Site or Location:** Site/Job: Area 3.1 Location Description: cornfield
   GPS Coordinates (when required): X-Coord: N 42°29'54.9" Y-Coord: W078°40'39.7"

	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	9563 cpm	1 min	46044 cpm	Y	Y	Y	1005	51.0	Th-232 JE
Ratemeter			1 min	11526	Y	Y	Y	1010	51.2	Cs-137 JE
Ratemeter										
Ratemeter										
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 2241-2 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: µCi 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.: 119E23-12 Activity: 0.02 units: µCi 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: 10/16/15 Time: 1304

4. **Site or Location:** Site/Job: Area 3.1 Location Description: Camfield
   GPS Coordinates (when required): X-Coord: N 42°28'54.9" Y-Coord: W078°40'39.7"

	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	9176	1 min	45890	Y	Y	Y	1308	59.0	Th-232 DE
Ratemeter			1 min	11145	Y	Y	Y	1311	59.0	Cs-137 DE
Ratemeter										
Ratemeter										
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 2241-2 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: µCi 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.: 119E23-12 Activity: 0.02 units: µCi 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: 10/16/15 Time: 1628

4. **Site or Location:** Site/Job: Area 3.1 Location Description: cornfield
   GPS Coordinates (when required): X-Coord: N 42°28'54.9" Y-Coord: W078°40'39.7"

	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	9218	1 min	42357 cpm	Y	Y	Y	1632	53.7	Th-232 JE
Ratemeter			1 min	11197 cpm	Y	Y	Y	1637	53.5	Cs-137 JE
Ratemeter										
Ratemeter										
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 2241-2 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: Th232 Serial No.: 111 Activity: <0.1 units: µCi 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.: 119E23-12 Activity: 0.02 units: µCi 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: Jonathan Edwards Title: RCT Date: 10/19/15 JE corrected Time: 0925

4. **Site or Location:** Site/Job: Area 3.1 Location Description: Cornfield
   GPS Coordinates (when required): X-Coord: N 42°28'54.9" Y-Coord: W078°40'39.7"

	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	9600 cpm	1 min	46426 cpm	Y	Y	Y	0932	36.5	Th232 JE
Ratemeter			1 min	11509 cpm	Y	Y	Y	0940	36.1	Cs-137 JE
Ratemeter										
Ratemeter										
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 2241-2 Serial No. 206098 Cal. Due Date: 9/1/16
   Detector 1: Make/Model: Ludlum 44-10 Serial No. PR122642
   Bicron MicroRem Meter: Serial No. _____ Cal. Due Date: _____

2. **Check Source Information:**
   Source 1 Isotope: Th232 Serial No.: 111 Activity: <0.1 units: µCi 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.: 1/9E23-12 Activity: 0.02 units: µCi 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: Jonathan Edwards Title: RCT Date: 10/9/15 Time: 1125

4. **Site or Location:** Site/Job: Area 3.1 Location Description: Cornfield
   GPS Coordinates (when required): X-Coord: N 42°26'54.9" Y-Coord: W 078° 40' 39.7"

	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	9264 cpm	1 min	45989 cpm	Y	Y	Y	1132	46.5	Th-232 JE
Ratemeter			1 min	11244 cpm	Y	Y	Y	1138	47.8	Cs-137 JE
Ratemeter										
Ratemeter										
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 2241-2 Serial No. 206098 Cal. Due Date: 9/1/16
   Detector 1: Make/Model: Ludlum 44-10 Serial No. PR256142
   Bicron MicroRem Meter: Serial No. B378A Cal. Due Date: 12/17/15

2. **Check Source Information:**
   Source 1 Isotope: Th-232 Serial No.: 111 Activity: 40.1 units: nCi Assay Date: 12/20/10
   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.: 119E23-12 Activity: 0.02 units: nCi 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: 10/20/15 Time: 0917

4. **Site or Location:** Site/Job: Area 3 2 Location Description: Cornfield
   GPS Coordinates (when required): X-Coord: N 42° 28' 54.9" Y-Coord: W078° 40' 39.2"

	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	9683 cpm	1 min	45761 cpm	Y	Y	Y	0924	57.0	Th-232 JE
Ratemeter			1 min	11559 cpm	Y	Y	Y	0933	57.6	Cs-137 JE
Ratemeter										
Ratemeter										
Bicron	NA	6 uRem/hr	NA	139 uRem/hr	Y	Y	Y	0938	58.0	JE Th-232
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   - Ratemeter: Make/Model: Ludlum 2241 Serial No. 196664 Cal. Due Date: 10/15/16
   - Detector 1: Make/Model: Ludlum 44-10 Serial No. PR256142
   - Bicron MicroRem Meter: Serial No. B6936 Cal. Due Date 05/05/16

2. **Check Source Information:**
   - Source 1 Isotope: Th-232 Serial No.: 111 Activity: <0.1 units: µCi 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.: 119E23-12 Activity: 0.02 units: µCi 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: 10/20/15 Time: 1320

4. **Site or Location:** Site/Job: ~~Area 3~~ Area 3.1 (JE 10/20/15) Location Description: cornfield
   GPS Coordinates (when required): X-Coord: N42°28'54.9" Y-Coord: W078°40'39.7"

	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	8929 cpm	1 min	47627 cpm	Y	Y	Y	1325	66.6	Th-232 JE
Ratemeter			1 min	11016 cpm	Y	Y	Y	1332	66.7	Cs-137 JE
Ratemeter										
Ratemeter										
Bicron	NA	9 µRem/hr	NA	130 µRem/hr	Y	Y	Y	1337	66.9	Th-232 JE
Bicron	NA		NA							~~Cs-137~~ JE
Bicron	NA		NA							
Bicron	NA		NA							

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   - Ratemeter: Make/Model: Ludlum 2241 Serial No. 196664 Cal. Due Date: 10/15/16
   - Detector 1: Make/Model: Ludlum 44-10 Serial No. PR256142
   - Bicron MicroRem Meter: Serial No. B693G Cal. Due Date: 05/05/16

2. **Check Source Information:**
   - Source 1 Isotope: Th-232 Serial No.: 111 Activity: <0.1 units: µCi Assay Date: 12/30/10
     Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 55798 net cpm -20% 35866
   - Source 2 Isotope: Cs-137 Serial No.: 119E23-12 Activity: 6.02 units: µCi 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: 10/20/15 Time: 1550

4. **Site or Location:** Site/Job: Area 3.1 Location Description: cornfield
   GPS Coordinates (when required): X-Coord: N42°28'54.9" Y-Coord: W078°40'39.7"

	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	9861 cpm	1min	48633 cpm	Y	Y	Y	1555	65.5	JE Th-232
Ratemeter			1min	11398 cpm	Y	Y	Y	1600	65.5	JE Cs-137
Ratemeter										
Ratemeter										
Bicron	NA	6 µRem/hr	NA	1.25 µRem/hr	Y	Y	Y	1603	65.3	JE Th-232
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   - 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. 4224u Cal. Due Date: 8/4/16

2. **Check Source Information:**
   - Source 1 Isotope: Th 232 Serial No.: 116 Activity: <0.1 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: 11/20/10
     Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% _____ net cpm -20% _____

3. **Technician/Worker Performing Checks:**
   Name: STEVE KINSMAN Title: _____ Date: 10/21/15 Time: 0900

4. **Site or Location:** Site/Job: / Location Description: _____
   GPS Coordinates (when required): X-Coord: N 42° 27' 48.0" Y-Coord: W078° 40' 35.2"

	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.	8603	1 MIN.	19804		Y	Y	0900	55.7	Th 232
Ratemeter	1 MIN.	8603	1 MIN	11972		Y	Y	0900	55.7	Cs 137
Ratemeter	1 MIN	8975	1 MIN	20965		Y	Y	1230	65.1	Th 232
Ratemeter	1 MIN	8975	1 MIN	12498		Y	Y	1230	65.1	Cs 137
Ratemeter	1 MIN	9007	1 MIN			Y	Y	1600	66.2	Th 232
Ratemeter	1 MIN	9007	1 MIN.	12443		Y	Y	1600	66.2	Cs 137
Bicron	NA	7	NA	17		Y	Y	0900	55.7	
Bicron	NA	7	NA	17		Y	Y	1230	65.1	
Bicron	NA	7	NA	18		Y	Y	1600	66.2	

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   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.: 1116 Activity: <0.1 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: _____
   Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% _____ net cpm -20% _____

3. **Technician/Worker Performing Checks:**
   Name: STEVE KINSMAN Title: _____ Date: 10/21/15 Time: 0915

4. **Site or Location:** Site/Job: 3.1 Location Description: CORN FIELD
   GPS Coordinates (when required): X-Coord: N 42.48191 Y-Coord: W 078.67772

	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	8897	1 MIN	20316		Y	Y	0915	58.4	Th 232
Ratemeter	1MIN	8897	1 MIN	12485		Y	Y	0915	58.4	Cs 137
Ratemeter	1 MIN	9019	1 MIN	21199		Y	Y	1300	66.7	Th 232
Ratemeter	1MIN	9019	1 MIN	12577		Y	Y	1300	66.7	Cs 137
Ratemeter	1MIN	9034	1 MIN	20789		Y	Y	1500	72.3	Th 232
Ratemeter	1MIN	9034	1 MIN	12544		Y	Y	1500	72.3	Cs 137
Bicron	NA	7	NA	18		Y	Y	0915	58.4	Th 232
Bicron	NA	7	NA	17		Y	Y	1300	66.7	Th 232
Bicron	NA	7	NA	18		Y	Y	1500	72.3	Th 232

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 2241 Serial No. 196664 Cal. Due Date: 10/15/16
   Detector 1: Make/Model: Ludlum 44-10 Serial No. PR256142
   Bicron MicroRem Meter: Serial No. B6936 Cal. Due Date: 05/05/16

2. **Check Source Information:**
   Source 1 Isotope: Th232 Serial No.: 111 Activity: <0.1 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.: 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: 10/21/15 Time: 0925

4. **Site or Location:** Site/Job: Area 3.1 Location Description: cornfield
   GPS Coordinates (when required): X-Coord: N 42°28'54.9" Y-Coord: W078°40'39.7"

	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	9197 cpm	1 min	47648 cpm		Y	Y	0930	56.4	Th-232 JE
Ratemeter			1 min	10948 cpm	Y	Y	Y	0937	56.3	Cs-137 JE
Ratemeter										
Ratemeter										
Bicron	NA	8 urem/hr	NA	125 urem/hr	Y	Y	Y	0955	56.3	Th-232 JE
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

MJW TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum Serial No. 196664 Cal. Due Date: 10/15/16
   Detector 1: Make/Model: Ludlum Serial No. PR256142
   Bicron MicroRem Meter: Serial No. B6936 Cal. Due Date: 05/05/16

2. **Check Source Information:**
   Source 1 Isotope: Th-232 Serial No.: 111 Activity: <0.1 units: µCi Assay Date: 10/30/10
   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.: 119E23-12 Activity: 0.02 units: µCi 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: T. Edwards Title: RCT Date: 10/21/15 Time: 0713 03

4. **Site or Location:** Site/Job: Area 3.1 Location Description: Cornfield
   GPS Coordinates (when required): X-Coord: N 42° 28' 54.9" Y-Coord: W 078° 40' 39.7"

	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	9292 cpm	1 min	47753 cpm	Y	Y	Y	1307	66.7	Th-232 JE
Ratemeter			1 min	11400 cpm	Y	Y	Y	1315	66.3	Cs-137 JE
Ratemeter										
Ratemeter										
Bicron	NA	9 µRem/hr	NA	130 µRem/hr	Y	Y	Y	1313	66.3	Th-232 JE
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

MWTS
MWH TECHNICAL SERVICES

Rev 1 10/18/15

Instrument Field Response Check Log

1. **Instrument Information**[1]
   Ratemeter: Make/Model: Ludlum 2241 Serial No. 196664 Cal. Due Date: 10/15/16
   Detector 1: Make/Model: Ludlum 44-10 Serial No. PR256142
   Bicron MicroRem Meter: Serial No. B6936 Cal. Due Date: 05/05/16

2. **Check Source Information:**
   Source 1 Isotope: Th-232 Serial No.: 111 Activity: <0.1 units: μCi Assay Date: 12/30/10
   Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 55798 net cpm -20% 35866
   Source 2 Isotope: Cs-137 Serial No.: 119F23-12 Activity: 0.02 units: μCi Assay Date: NA
   Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% _____ net cpm -20% 8849

3. **Technician/Worker Performing Checks:**
   Name: J. Edwards Title: RCT Date: 10/21/15 Time: 1534

4. **Site or Location:** Site/Job: Area 3.1 Location Description: Canfield
   GPS Coordinates (when required): X-Coord: N42°28'54.9" Y-Coord: W078°40'39.7"

	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	8901 cpm	1 min	48490 cpm	Y	Y	Y	1537	68.1	Th-232 JE
Ratemeter		48490 cpm	1 min	10987 cpm	Y	Y	Y	1544	67.4	Cs-137 JE
Ratemeter		JE 10/21/15								
Ratemeter										
Bicron	NA	8 μrem/hr	NA	133 μrem/hr	Y	Y	Y	1540	67.4	Th-232 JE
Bicron	NA		NA							
Bicron	NA		NA							
Bicron	NA		NA							

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

App E-

Sub-Area 3.1- Sample Data Sheets

NEW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10-21-15 Project: NYSERDA Name: Teri Brown

Weather: Sunny, warm

1. Sample Area (SA):

SA Designation: 3.1 Description: Cornfield

SA Origin Location: _____ _____ Coord. System: _____

SA Land Mark Description: Driveway Coord: _____ _____

2. Sample Location Data:

Sample Area ID: 3.1.1 Matrix: Soil

Location Coord: W 78.681076° N 42.480655°

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: Cornfield, no stalks

Canopy Type: Open Land Use: Farm 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	11351	10741	8	7	N/A
1	11330	10498			

4. Sample Information:

Sample Area ID: 3.1.1.E.1-8

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	3.1.1.E.1	N/A
15-30	Soil	brown	3.1.1.E.2	N/A
30-60	Soil	brown	3.1.1.E.3	N/A
60-100	Soil	brown	3.1.1.E.4	N/A
0-15	Soil	brown	3.1.1.E.5	N/A
15-30	Soil	brown	3.1.1.E.6	N/A
30-60	Soil	brown	3.1.1.E.7	N/A
60-100	Soil	brown	3.1.1.E.8	N/A

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10-20-15 Project: NYSERDA Name: Tori Brown Time start: 10:3 Time end:

Weather: partly cloudy, warm

1. Sample Area (SA):

SA Designation: 3.1 Description: Corn Field
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: Driveway Coord: _____
~~DA~~ TB 10/20

2. Sample Location Data:

Sample Area ID: 3.1.2 Matrix: Soil

Location Coord: W 78.688836° N 42.480691°

Alternate Location Measurements (distance from SA origin and Local Coord.)
X Dist. from Origin (0,0) N/A Y Dist. from Origin: N/A
~~100 ft W from driveway~~ TB 10/20
320 yds W driveway

Site Sketch Attached (Yes) (NO)

Sample Location Description: Corn field, cleared cornstalks, along woodline

Canopy Type: OPEN Land Use: Farm Soil Moisture (Wet, dry, etc): Damp → wet

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	11278	10627	10	10	N/A
1	11429	10653			N/A

4. Sample Information:

Sample Area ID: 3.1.2.E.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	3.1.2.E.1	N/A
15-30	soil	Brown	3.1.2.E.2	N/A
30-60	soil	Brown/grey	3.1.2.E.3	N/A
60-100	mud/water	Brown	3.1.2.E.4	Hit water, inflow

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10-20-15 Project: NYSERDA Name: Tori Brown start: 13:25 end: 14:30

Weather: partly cloudy, warm

1. Sample Area (SA):

SA Designation: 3.1 Description: Cornfield

SA Origin Location: _____ Coord. System: _____

SA Land Mark Description: Driveway Coord: _____ _____

2. Sample Location Data:

Sample Area ID: 3.1.3.E Matrix: soil

Location Coord: W78.1679483° N42.481348°

Alternate Location Measurements (distance from SA origin and Local Coord.)
X Dist. from Origin (0,0) N/A Y Dist. from Origin: N/A Driveway 175yds W from 3.1.3

Site Sketch Attached (Yes) (NO)

Sample Location Description: Corn field, along corn, no stalks

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

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	10656	10119	8	8	N/A
1	10742	10209			N/A

4. Sample Information:

Sample Area ID: 3.1.3.E.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	Soil	brown	3.1.3.E.1	N/A
15-30	Soil	brown	3.1.3.E.2	N/A
30-60	Soil	brown	3.1.3.E.3	N/A
60-100	soil	brown	3.1.3.E.4	~~Wet~~ Big. Soil moisture rising (damp soil)

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10-21-15 Project: NYSERDA Name: Tori Brown

Weather: warm, partly cloudy

1. Sample Area (SA):

SA Designation: 3.1 Description: Corn field
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: Driveway Coord: _____ _____

2. Sample Location Data:

Sample Area ID: 3.1.4 Matrix: soil

Location Coord: W 78.679815° N 42.481788°

Alternate Location Measurements (distance from SA origin and Local Coord.) SubArea
X Dist. from Origin (0,0) N/A Y Dist. from Origin: N/A 3.1.3 185ft SE

Site Sketch Attached (Yes) (NO)

Sample Location Description: Corn field, stalks

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

3. Location Radiation Readings:

2x2 NaI (cpm)			Beron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	9385	8895	8	7	N/A
1	9350	9228			N/A

4. Sample Information: *Sample Area ID:* 3.1.4.R.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	soil	Brown	3.1.4.R.1	N/A
15-30	compact soil	Brown	3.1.4.R.2	N/A
30-60	soil	brown	3.1.4.R.3	N/A
60-100	soil	brown	3.1.4.R.4	N/A

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10-21-15 Project: NYSERDA Name: Tori Brown

Weather: Cloudy, warm

1. Sample Area (SA):

SA Designation: 3.1 Description: Corn field

SA Origin Location: _____ _____ Coord. System: _____

SA Land Mark Description: Driveway Coord: _____ _____

2. Sample Location Data:

Sample Area ID: 3.1.5 Matrix: Soil

Location Coord: ~~W 78.078745°~~ TB/pu W 78.078638° N 42.482419

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: Cornfield, stalks

Canopy 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	9445	8477	8	7	N/A
~~1~~	~~9579~~	TB/pu			
1	9579	8877			N/A

4. Sample Information:

Sample Area ID: 3.1.5.R.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	soil	brown	3.1.5.R.1	N/A
15-30	soil/gravel	brown	3.1.5.R.2	rocks @ 15 cm / gravel } layer
30-60	soil/gravel	brown/clay	3.1.5.R.3	rocks +5 Pelz. 30-60 cm } layer
60-100	soil/rocks		3.1.5.R.4	rocks sparatic

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10-21-15 Project: NYSERDA Name: Tom Brown

Weather: Cloudy, warm

1. Sample Area (SA):

SA Designation: 3.1 Description: Cornfield
SA Origin Location: _____ _____ Coord. System: _____
SA Land Mark Description: Driveway Coord: _____ _____

2. Sample Location Data:

Sample Area ID: 3.1.6 Matrix: Soil

Location Coord: W 78.678345° N 42.483259°

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: Cornfield, no stalks

Canopy 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	8920	8681	8	7	N/A
1	8855	8622			N/A

4. Sample Information:

Sample Area ID: 3.1.6.R.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	Soil	brown	3.1.6.R.1	N/A
15-30	soil	brown	3.1.6.R.2	N/A
30-60	Soil	brown	3.1.6.R.3	N/A
60-100	Soil	brown	3.1.6.R.4	N/A

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10-19-15 Project: NYSERDA Name: Tori Brown

Weather: Sunny, cool

1. Sample Area (SA):

SA Designation: 3.1 Description: Corn field

SA Origin Location: _____ _____ Coord. System: _____

SA Land Mark Description: Driveway Coord: _____ _____

2. Sample Location Data:

360 ft N driveway ~~from 3.1.7~~ P/19 TB

Sample Area ID: 3.1.7 Matrix: Soil TB 10/19

Location Coord: W 78.678931° ~~N 42.481672°~~ N 42.481462°

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: Cornfield, corn stalks removed

Canopy 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	10793	9993	8	8	N/A
1	10885	9929			

4. Sample Information:

Sample Area ID: 3.1.7.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	dirt/soil	brown	3.1.7.R.1	N/A
15-30	dirt/soil	brown	3.1.7.R.2	N/A

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10-19-15 Project: NYSERDA Name: Tom Brown

Weather: sunny, cool

1. Sample Area (SA):

SA Designation: 3.1 Description: Cornfield

SA Origin Location: _____ _____ Coord. System: _____

SA Land Mark Description: Driveway Coord: _____ _____

2. Sample Location Data:

Sample Area ID: 3.1.8 Matrix: Soil

Location Coord: W78.678711° N 42.481673°

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) (N)

Sample Location Description: Corn field, corn stalks standing, 6 rows in 250 ft W driveway

Canopy Type: Open Land Use: cornfield 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	9920	9488	8	7	N/A
1	9871	9389			N/A

4. Sample Information:

Sample Area ID: 3.1.8.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	Dirt/soil	Brown	3.1.8.R.1	N/A
15-30	Soil	Brown	3.1.8.R.2	N/A

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10-20-15 Project: NYSERDA Name: Tori Brown 14:35

Weather: Sunny, warm

1. Sample Area (SA):

SA Designation: 3.1 Description: Corn Field
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description: Driveway Coord: _____ _____

2. Sample Location Data:

Sample Area ID: 3.1.9 Matrix: Soil

Location Coord: W 78.679084° N 42.481295°

Alternate Location Measurements (distance from SA origin and Local Coord.)
X Dist. from Origin (0,0) N/A Y Dist. from Origin: N/A Driveway 189 yds W from 3.1.9

Site Sketch Attached (Yes) (NO)

Sample Location Description: Cornfield, along stalks, no stones present

Canopy 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	10520	10048	7	7	N/A
1	10412	10102			N/A

4. Sample Information: *Sample Area ID:* 3.1.9.E.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	3.1.9.E.1	N/A
15-30	Soil	Brown	3.1.9.E.2	N/A

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/21/15 Project: NYSERDA Name: J. Brown

Weather: Cloudy, 50's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ _____ Coord. System: Lat/Long

SA Land Mark Description: Driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.10 Matrix: soil/clay

Location Coord: 78.680003 42.481206

Alternate Location Measurements (distance from SA origin and Local Coord.) 218 yards west of car, edge of corn

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

Site Sketch Attached (Yes) (NO)

Sample Location Description: Cornfield, stalks cleared

Canopy Type: open Land Use: farm Soil Moisture (Wet, dry, etc.): damp, no water

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	11,695	10,996	9	9	N/A
1	11,642	10,950			

4. Sample Information:

Sample Area ID: 3.1.10E1-E2

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	3.1.10.E.1	
15-30	soil/clay	brown	3.1.10.E.2	

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/21/15 Project: NYSERDA Name: J. Brown

Weather: Cloudy 50's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ _____ Coord. System: Lat/Long

SA Land Mark Description: Driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.11 Matrix: Soil/clay

Location Coord: 78.67970 42.48112

Alternate Location Measurements (distance from SA origin and Local Coord.) 156 yards due west of car,
X Dist. from Origin (0,0)_____ Y Dist. from Origin: _____ cleared stalks, edge of brush/ tree line

Site Sketch Attached (Yes) (NO)

Sample Location Description: Cornfield, stalks cleared

Canopy Type: open Land Use: farm Soil Moisture (Wet, dry, etc.): damp no water

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	10,890	10,340	7	10	N/A
1	10,844	10,290			

4. Sample Information:

Sample Area ID: 3.1.11 E1 - E2

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	3.1.11 E1	
15-30	soil/clay	brown	3.1.11 E2	

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/21/15 Project: NYSERDA Name: J. Brown

Weather: Cloudy, 50's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ Coord. System: Lat/Long

SA Land Mark Description: Driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.12 Matrix: Soil/clay

Location Coord: 78.680317 42.480774

Alternate Location Measurements (distance from SA origin and Local Coord.) 267 yards due east of car, closer to wooded area than stalks

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

Site Sketch Attached (Yes) (NO)

Sample Location Description: Cornfield, stalks cleared

Canopy Type: open Land Use: farm Soil Moisture (Wet, dry, etc.): damp, no water

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	11,449	10,968	9	9	N/A
1	11,252	10,992			

4. Sample Information:

Sample Area ID: 3.1.12E1-E2

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	3.1.12.E1	
15-30	soil/clay	brown	3.1.12.E2	

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/21/15 Project: NYSERDA Name: J. Brown

Weather: Cloudy, 50's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ _____ Coord. System: Lat/Long

SA Land Mark Description: Driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.13 Matrix: Soil/clay

Location Coord: 78.679742 42.482162

Alternate Location Measurements (distance from SA origin and Local Coord.)
X Dist. from Origin (0,0)_____ Y Dist. from Origin: _____

223 yards NW of car, in stalks, edge of cleared area

Site Sketch Attached (Yes) (NO)

Sample Location Description: Cornfield, in stalks

Canopy Type: open Land Use: farm Soil Moisture (Wet, dry, etc.): damp, no water

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	9629	8910	10	8	N/A
1	9505	9154			

4. Sample Information:

Sample Area ID: 3.1.13 R1-R2

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	3.1.13.R1	
15-30	soil/clay	brown	3.1.13.R.2	

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/21/15 Project: NYSERDA Name: J. Brown

Weather: Cloudy, 50's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ _____ Coord. System: Lat/Long

SA Land Mark Description: Driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.14 Matrix: Soil/clay

Location Coord: 78.678565 42.482793

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

X Dist. from Origin (0,0)_____ Y Dist. from Origin: _____ 146 yards north of car, cleared area

Site Sketch Attached (Yes) (NO)

Sample Location Description: Cornfield, stalks cleared

Canopy Type: open Land Use: farm Soil Moisture (Wet, dry, etc.): damp, no water

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	9658	9321	8	8	
1	9706	9191			

4. Sample Information:

Sample Area ID: 3.1.14 R1-R2

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	3.1.14.R.1	
15-30	soil/clay	brown	3.1.14.R.2	

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

NEW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/21/15 Project: NYSERDA Name: J. Brown

Weather: Cloudy, 50's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ _____ Coord. System: Lat/Long

SA Land Mark Description: Driveway Coord: 78.67922 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.15 Matrix: Soil/clay

Location Coord: 78.679153 42.481742

Alternate Location Measurements (distance from SA origin and Local Coord.)
X Dist. from Origin (0,0)_____ Y Dist. from Origin: _____ ≈ 142 yards N of car, center of stalks

Site Sketch Attached (Yes) (NO)

Sample Location Description: Cornfield, in stalks

Canopy Type: open Land Use: farm 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	10,561	10,338	8	10	N/A
1	10,596	10,150			

4. Sample Information:

Sample Area ID: 3.1.15 R1-R2

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	3.1.15.R.1	
15-30	Soil/clay	brown	3.1.15.R.2	

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

NEW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/21/15 Project: NYSERDA Name: J. Brown

Weather: Cloudy, 50's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ _____ Coord. System: Lat/Long

SA Land Mark Description: Driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.16 Matrix: soil/clay

Location Coord: 78.677975 42.482373

Alternate Location Measurements (distance from SA origin and Local Coord.) 72 yards NE of car. in stalks

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

Site Sketch Attached (Yes) (NO)

Sample Location Description: Cornfield, in stalks

Canopy Type: open Land Use: farm Soil Moisture (Wet, dry, etc.): damp, no water

3. Location Radiation Readings:

2x2 NaI (cpm)			Bicron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	10,137	9754	9	9	NA
1	9976	9797			

4. Sample Information:

Sample Area ID: 3.1.16R1-R2

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	3.1.16.R.1	
15-30	soil/clay	brown	3.1.16.R.2	

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/20/15 Project: NYSERDA Name: J. Brown

Weather: Sunny, clear, 50's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ _____ Coord. System: Lat/Long

SA Land Mark Description: Driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.17 Matrix: Soil/gravel

Location Coord: 78.678269 42.481953

Alternate Location Measurements (distance from SA origin and Local Coord.) 59 yards from driveway

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

Site Sketch Attached (Yes) (NO)

Sample Location Description: cornfield, in stalks

Canopy Type: open Land Use: farm 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	9640	8900	6	5	N/A
1	9259	8630			

4. Sample Information:

Sample Area ID: 3.1.17 R1-R2, R5-R6

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	3.1.17.R.1	
15-30	topsoil	brown	3.1.17.R.2	
0-15	topsoil	brown	3.1.17.R.5	
15-30	topsoil	brown	3.1.17.R.6	

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/20/15 Project: NYSERDA Name: J. Brown

Weather: cloudy, 50's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ Coord. System: Lat/Long

SA Land Mark Description: driveway Coord: 78.67422 42.48063

140 yards N of driveway

2. Sample Location Data:

Sample Area ID: 3.1.18 Matrix: soil/clay

Location Coord: 78.678859 42.482582

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: cornfield, stalks cleared

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

3. Location Radiation Readings:

2x2 NaI (cpm)			B cron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	9662	9129	8	7	N/A
1	9504	8880			

4. Sample Information:

Sample Area ID: 3.1.18 R1-R2

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	3.1.18-R-1	
15-30	soil/clay	brown	3.1.18-R-2	

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/20/15 Project: NYSERDA Name: J. Brown

Weather: Sunny, Clear, 60's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ _____ Coord. System: lat/long

SA Land Mark Description: driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.19 Matrix: soil/clay

Location Coord: 78.678748 42.482232

Alternate Location Measurements (distance from SA origin and Local Coord.) 110 yards from driveway

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

Site Sketch Attached (Yes) (NO)

Sample Location Description: cornfield, in stalks

Canopy Type: open Land Use: farm 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	9975	9170	3	12	N/A
1	9936	9174			

4. Sample Information: *Sample Area ID:* 3.1.19.R1-2

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	3.1.19.R.1	
15-30	soil/clay	brown	3.1.19.R.2	

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/20/15 Project: NYSERDA Name: J. Brown

Weather: Sunny, Clear, 50's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ Coord. System: Lat/Long

SA Land Mark Description: driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.20 Matrix: soil/gravel

Location Coord: 78.678159 42.481813 (333 yards)

Alternate Location Measurements (distance from SA origin and Local Coord.) 100 ft. from driveway

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

Site Sketch Attached (Yes) (NO)

Sample Location Description: Cornfield, stalks cleared

Canopy Type: open Land Use: farm Soil Moisture (Wet, dry, etc): dry

3. Location Radiation Readings:

2x2 NaI (cpm)			B cron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	9233	8327	7	5	N/A
1	9244	8392			

4. Sample Information:

Sample Area ID: 3.1.20.R1-R2

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/gravel	brown	3.1.20.R.1	some rocks
15-30	soil/gravel	brown	3.1.20.R.2	some rocks

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/20/15 Project: NYSERDA Name: J. Brown

Weather: Sunny, clear, 60s

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: Coord. System: lat/long

SA Land Mark Description: driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.21 Matrix: soil

Location Coord: 78.679632 42.482442

Alternate Location Measurements (distance from SA origin and Local Coord.) 193 yards NE of driveway

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

Site Sketch Attached (Yes) (NO)

Sample Location Description: cornfield, stalks cleared

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

3. Location Radiation Readings:

2x2 NaI (cpm)			B cron (uRem/hr)		Notes
Count time (min)	1 cm	1m	1 cm	1m	
1	9300	8860	9	10	NA
1	9389	8790			

4. Sample Information: *Sample Area ID:* 3.1.21R1-R2

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	3.1.21.R1	
15-30	soil.	brown	3.1.21.R2	

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/20/15 Project: NYSERDA Name: J. Brown

Weather: Sunny, clear, 60's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield
SA Origin Location: _____ Coord. System: lat/long
SA Land Mark Description: driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.22 Matrix: Soil

Location Coord: 78.678455 42.483073

Alternate Location Measurements (distance from SA origin and Local Coord.)
X Dist. from Origin (0,0)_____ Y Dist. from Origin: _____ NE 179 yards from car

Site Sketch Attached (Yes) (NO)

Sample Location Description: cornfield, stalks cleared

Canopy Type: Open Land Use: farm 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	8780	9020	9	10	N, ft
1	8843	8886			

4. Sample Information:

Sample Area ID: 3.1.22 R1-R2

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	3.1.22.R1	
15-30	Soil	brown	3.1.22.R2	

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/20/15 Project: NYSERDA Name: J. Brown

Weather: Sunny, clear, 60's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ Coord. System: lat/long

SA Land Mark Description: driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.23 Matrix: Soil

Location Coord: 78.679043 42.482022

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

X Dist. from Origin (0,0)_____ Y Dist. from Origin: _____ 130 yards N from car

Site Sketch Attached (Yes) (NO)

Sample Location Description: cornfield in stalks

Canopy Type: open Land Use: farm 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	10,380	9712	9	10	N/A
1	10,584	9579			

4. Sample Information:

Sample Area ID: 3.1.23 R1-R2

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	3.1.23.R1	
15-30	Soil	brown	3.1.23.R2	

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 10/20/15 Project: N4SERDA Name: J. Brown

Weather: sunny clear 60's

1. Sample Area (SA):

SA Designation: Area 3.1 Description: Cornfield

SA Origin Location: _____ _____ Coord. System: lat/long

SA Land Mark Description: driveway Coord: 78.67422 42.48063

2. Sample Location Data:

Sample Area ID: 3.1.24 Matrix: Soil

Location Coord: 78.677865 42.482653

Alternate Location Measurements (distance from SA origin and Local Coord.) 106 yards N from car

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

Site Sketch Attached (Yes) (NO)

Sample Location Description: cornfield, in stalks

Canopy Type: open Land Use: farm 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	9651	9302	9	10	N/A
1	9448	9215			

4. Sample Information:

Sample Area ID: 3.1.24 R1·R2

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	3.1.24.R1	
15-30	Soil	brown	3.1.24.R2	

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