App E –
Sub-Area 5.5 - COC Forms

Page: _____ of _____
Project #:
GEL Quote #:
COC Number (1):
P.O. 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 (1)	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
5.6A.R.2.1A, 5.6A.R.2.1B	12-14-15																			
5.6A.R.2.2A, 5.6A.R.2.2B	12-14-15																			
5.6A.R.3.1A, 5.6A.R.3.1B	12-14-15																			
5.6A.R.3.2A, 5.6A.R.3.2B	12-14-15																			
5.6A.R.4.1A, 5.6A.R.4.1B	12-14-15																			
5.6A.R.4.2A, 5.6A.R.4.2B	12-14-15																			
5.5A.R.2.1A, 5.5A.R.2.1B	12-14-15																			
5.5A.R.2.2A, 5.5A.R.2.2B	12-14-15																			
5.5A.R.3.1A, 5.5A.R.3.1B	12-14-15																			
5.5A.R.3.2A, 5.5A.R.3.2B	12-14-15																			

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

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 - 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

Page: _____ of _____
Project #:
GEL Quote #:
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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 (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
* 5.5A.R.4.1A, 5.5A.R.4.1B	12-14-15																			
5.5A.R.4.2A, 5.5A.R.4.2B	12-14-15																			
5.1B.R.1.1A, 5.1B.R.1.1B	12-14-15																			
5.1B.R.1.2A, 5.1B.R.1.2B	12-14-15																			
5.1B.R.2.1A, 5.1B.R.2.1B	12-14-15																			
5.1B, R.2.2A, 5.1B.R.2.2B	12-14-15																			
5.1A, R.2.1A, 5.1A.R.2.1B	12-14-15																			
5.1A, R.2.2A, 5.1A.R.2.2B	12-14-15																			
5.1A.R.2.3	12-14-15																			
5.2A.R.2.7	12-14-15																			

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

* Each line is 1 sample - A 500mL, B 500mL

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

Page: _____ of _____
Project #:
GEL Quote #:
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Address:

Collected by: Send Results To:

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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											<-- Preservative Type (6)	Comments Note: extra sample is required for sample specific QC
5.6A.R.1.1	12/17/15																			
5.6A.R.1.2	12/17/15																			
5.6A.R.1.3	12/17/15																			
5.6A.R.1.4	12/17/15																			
5.6A.R.1.5	12/17/15																			
5.6A.R.1.6	12/17/15																			
5.5A.R.1.1	12/17/15																			
5.5A.R.1.2	12/17/15																			
5.5A.R.1.3	12/17/15																			
5.5A.R.1.4	12/17/15																			

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

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 #:

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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

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Page: _____ of _____
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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	TSCA Regulated	Number of											Preservative Type (6)
5.5A.R.1.5	12/17/15																		
5.5A.R.1.6	12/17/15																		
5.5A.R.1.7	12/17/15																		

Comments
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 #:

1.) Chain of Custody Number - Client Determined
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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).
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For Lab Receiving Use Only
Custody Seal Intact? YES NO
Cooler Temp. C

WHITE = LABORATORY YELLOW = FILE PINK = CLIENT

App E –
Sub-Area 5.5 - Field Survey Checklist

The MJW Companies

GPS Field Survey Checklist

The following field survey checklist is used once the survey team has walked to the location that they will begin a GPS survey. This checklist is intended to verify none of the cables or settings changed or cables came loose between the initial setup location and the field survey location. Complete step 9 once the current walkover segment is complete.

1. ___JB___ Verify the Ludlum Meter is in Rate mode
2. ___JB___ Verify that the Ludlum Meter is alternating display of "DUP" and "Value"
3. ___JB___ Set Menu 1 to "Status" and Menu 2 to "Receiver"
4. ___JB___ Verify that Antenna states "External"
5. ___JB___ Set Menu 1 to "Data"
6. ___JB___ Name a file to start the current survey and start the data logger

   Filename: 12 17 15 5 5 a
   12 17 15 5 6 a

7. ___JB___ Set Menu 1 to "Status" and Menu 2 to "Sensor"
8. ___JB___ Verify that the sensor field is reading the same as the display on the Ludlum
9. ___JB___ When finished, set Menu 1 to "Data" and close the current file.

Name: John H. B. Date: 12/17/15

The MJW Companies

GPS Initial Setup Checklist

1. ✓ Complete source check of Ludlum Meter
2. ✓ Power off Ludlum Meter
3. ✓ Verify Trimble is shutdown (not in suspend mode)
4. ✓ Connect the Serial Interface Adapter (SIA) to the Trimble Unit
5. ✓ Connect the Serial cable to the Ludlum Meter
6. ✓ Connect the Serial cable to the Trimble SIA
7. ✓ Connect external GPS antenna cable to the Trimble
8. ✓ Power on Ludlum Meter to Rate mode
9. ✓ Verify that the Ludlum Meter is alternating display of "DUP" and "Value"
10. ✓ Power on the Trimble and wait for it to completely boot
11. ✓ Launch TerraSync and wait for it to load and acquire satellites
12. ✓ Set Menu 1 to "Status" and Menu 2 to "Receiver"
13. ✓ Verify that Antenna states "External"
14. ✓ Set Menu 1 to "Data"
15. ✓ Name a test file and start the data logger
16. ✓ Set Menu 1 to "Status" and Menu 2 to "Sensor"
17. ✓ Verify that the sensor field is reading the same as the display on the Ludlum
18. ✓ Set Menu 1 to "Data" and close the current file.

Name: _____ Date: 12·17·15 08:41 AM

App E-
Sub-Area 5.5- 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: 09/01/16
   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: nCi 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: nCi Assay Date: NA
   Response Acceptance Range (+/-20%): uRem/hr +20% _____ uRem/hr -20% _____ net cpm + 20% 13273 net cpm -20% 8799

3. **Technician/Worker Performing Checks:**
   Name: J Edwards Title: RCT Date: 12/17/15 Time: 0815

4. **Site or Location:** Site/Job: Area 5.5-5.6 Location Description: woods
   GPS Coordinates (when required): X-Coord: _____ Y-Coord: _____

		Instrument Field Response[2]			Use Acceptance Criteria					Remarks
Meter	Bkg Cnt Time	Bkg Counts (cpm) or uRem/hr)	Source Cnt Time	Source Response (gross cpm or uRem/hr)	+/- 20% source gross cpm or uRem/hr (Y/N)	Inst. Calib. current (Y/N)	Battery Check (Y/N)	Time Of check	Ambient Temp. (°F)	Initials and Comments (add'l Info: inst. Condition, etc.)
Ratemeter	1min	9274 cpm	1min	44808 cpm	Y	Y	Y	0819	49.4°	Th-232 JE
Ratemeter	"	" "	1min	11169 cpm	Y	Y	Y	0823	49.4°	Cs-137 JE
Ratemeter	1min	9433 cpm	1min	46391 cpm	Y	Y	Y	1033	50.1°	Th-232 JE
Ratemeter	"	"	1min	11440 cpm	Y	Y	Y	1040	50.1°	Cs-137 JE
Ratemeter	1min	7064 cpm	1min	44433 cpm	Y	Y	Y	1400	43.5°	Th-232 TB
Ratemeter	"	"	1min	9743 cpm	Y	Y	Y	1400	43.5°	Cs-137 TB
Bicron	NA	5 μrem/hr	NA	30 μrem/hr	Y	Y	Y	1035	50.3°	Th-232 JE
Bicron	NA	N/A	NA	N/A						N/A
Bicron	NA	5 μrem/hr	NA	30 μrem/hr	Y	Y	Y	1400	43.5°	Th-232 TB

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 5.5 - Sample Data Sheets

NUVIS TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12-17-15 Project: NYSERDA Name: Brown

Weather: 40's, drizzle

1. Sample Area (SA):

SA Designation: 5.5A Description: wooded lot

SA Origin Location: Coord. System:

SA Land Mark Description. Coord:

2. Sample Location Data:

Sample Area ID: 5.5A.R.1 Matrix: Soil

Location Coord: N 42° 31' 16.03" W 78° 58' 39.95"

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: flat ground, some trees, dead leaves (deciduous)

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	~~Bicron:~~ LUDLUM 2241-2 Serial # 206098 Cal due 09/01/16
1	6867	7267	5	5	2x2: LUDLUM 44-10
1	6856	7155			, serial # PR112642 #
					Brown cal due 3/18/16 Micro Rem #1487

4. Sample Information:

Sample Area ID: 5.5A.R.1.1-6

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	topsoil	dk brown	5.5A.R.1.1	few roots
15-30	topsoil	brown	5.5A.R.1.2	few roots
30-60	topsoil / sand	H. brown	5.5A.R.1.3	more roots
60-100	topsoil / sand	H. brown	5.5A.R.1.4	more roots
0-15	topsoil	dk brown	5.5A.R.1.5	few roots
60-100	topsoil / sand	H. brown	5.5A.R.1.6	more roots

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12-14-15 Project: NYSERDA Name: Tom Brown

Weather: calm, partly cloudy, 60°

1. Sample Area (SA):

SA Designation: S.S.~~Z~~T8 Description: Woods
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description. _____ Coord: _____

2. Sample Location Data:

Sample Area ID: S.S.R.2 Matrix: soil

Location Coord: N 42° 31' 15.80" W 78° 58' 40.20"

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: 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	Bicron - LUDLUM 2241-2 Serial # 262787 Cal due 9/2/16
1	6282	5997	7	6	2x2 - LUDLUM 44-10
1	6119	5868			Serial #PR111127 #A224U
					cal due 8/4/16

4. Sample Information:

Sample Area ID: S.SA.R.2.1-2

Description by Depth:

Depth Interval (cm)	*Soil Type* (Org; clay; sand, etc.)	*Soil Color*	*Sample ID*	*Sampling Description* (Surface litter type/depth, sample depth retention, refusal, stone or rock, topography, erosion features)
0-15	soil	Brown	S SA.R.2.1	loney, small roots, some gray (ash?)
15-30	soil	light Brown	S SA.R.2.2	small roots

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

10/20/15

NUWTS
NUWA TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12-14-15 Project: NYSERDA Name: Tori Brown

Weather: _____

1. Sample Area (SA)

SA Designation: 5.5 Description: Woods
SA Origin Location: _____ Coord. System: _____
SA Land Mark Description. _____ Coord: _____

2. Sample Location Data:

Sample Area ID: 5.5.R.3 Matrix: Soil

Location Coord: N 42° 3' 15.84" W 78° 58' 39.72"

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: trees very light brown 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	Bicron - LUDLUM 2241-2 Serial # 262737 Cal due 9/2/16
1	6266	6066	6	5	2x2 - LUDLUM 44-10
1	6430	5915			Serial #PR111127 #A2240
					cal due 8/4/16

4. Sample Information:

Sample Area ID: 6.SA.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	5.SA.R.3.1	loamy, small roots
15-30	Soil	light brown	5 SA.R.3.2	small roots, rocks

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

MJW TECHNICAL SERVICES

SAMPLE LOCATION DATA SHEET

Date: 12-14-15 Project: NYSERDA Name: Ian Brown

Weather: calm, partly cloudy, 40°F

1. Sample Area (SA):

SA Designation: 5.SA Description: Woods
SA Origin Location: Coord. System:
SA Land Mark Description: Coord:

2. Sample Location Data:

Sample Area ID: 5 SA.R.4 Matrix: Soil

Location Coord: N 42° 31' 15.05" W 78° 55' 40.00"

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: trees, leaves, some saplings,

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	Bicron - LUDLUM 2241-2 Serial # 262737 Cal due 9/2/16
1	6258	6077	8	7	2x2 - LUDLUM 44-10
1	6282	5958			Serial #PR111127 #A2240
					cal due, 8/4/16

4. Sample Information:

Sample Area ID: 5.SA.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	5.SA.R.4.1	Loamy, small roots
15-30	Soil	light brown	5.SA.R.4.2	roots, rocks

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

10/20/15