HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_089 Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ Group: 1	Location ID: 89
Drilling Company: HydroGeoLogic, Inc.	Driller: M Birney	Ground Elevation: NA	Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/20/12 1230	Date/Time Total Depth Reached: 4/20/12 1235
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90141	(1235)
Geologist: C Garcia		Checked By / Date: Cliff Hunt 4/23/12	
Radiological Background: NA/BTM/65	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: 0.1 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (Pancake / Downhole)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: leaf litter sandstone; vegetation			
			0.1	100	Silty sand (10YR 4/1) Dark Gray 40% fine sand 40% Med sand 20% silt trace coarse sand	SM		
0.5			0.1	60	loose Dry, non cohesive non plastic no odor or staining. Rootlets			
1.0							1	
					Total Depth 0.5 ft bgs No groundwater encountered.			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

Sheet _1_ of _1_

Project Name: SSFL Area IV Radiological Study	Project Number: 5P038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 89
Drilling Company: HydroGeoLogic, Inc.	Driller: Barney	Ground Elevation: NA		Total Depth Drilled: 1.6ft ft bgs.
Drilling Equipment: Hand Auger	Borehole Diameter: 3 inches	Date/Time Drilling Started: 1300		Date/Time Total Depth Reached: 4/20/12 / 1306 / 1.6ft
Type of Sampling Device: Hand Auger		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.)		90142 (1315)
Geologist: Garcia		Checked By / Date:		4/23/12
Radiological Background: NA / 9779 / 165	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: 0.1 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (Pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM) 3636
					Surface: leaf litter sandstone vegetation		0.5ft	
			0.4	102	Silty Sand (10YR4/1) Dark gray, loose Dry 40% fine sand 40% Med sand 20% silt Trace coarse sand. no odor or staining nonplastic nonconhesive, Rootlets loose Dry	SM		3577
0.5			0.1	60				4105
1.0			0.1	72	Silty Sand (10YR4/2) dark gray to Brown Trace Gravel subrounded 40% fine sand 40% Med sand 20% silt, nonconhesive nonplastic Dry loose no odor or staining Rootlets loose.	SM	1	4869
			0.1	90				5263
2.0					Mechanically Weathered Sandstone cemented (10YR5/3) Brown no odor or staining nonplastic, Dense, 85% fine sand 15% med sand ~~Trace Gravel~~ ~~subrounded~~. Quartz, Mica Trace Silt.	Refusal (SP)	2	
3.0							3	
4.0					Total Depth 1.6ft No ground water encountered No anomalies		4	
5.0							5	
6.0							6	

NBZ_090

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: 1	Location ID: 90
Drilling Company: ~~Boart Longyear~~ GeoHed	Driller: M Birney	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 1351		Date/Time Total Depth Reached: 04/17/12 1353 0.5
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90143 (1420)		
Geologist: C Garcia		Checked By / Date: [illegible] 4-18-12		
Radiological Background: NA/3575/51	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: 0.2 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (Pancake / Downhole)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.1	60 / 4050	Surface: Leaf litter Rootlets Pinecone			~~3789 CC~~
0.5			0.2	72 / 4100	Poorly Graded Med Sand: very dark Brown (7.5YR/2.5/2) 40% fine sand - 50% med sand - 8% coarse sand - 2% silt (1% Gravel/subrounded) CC no odor no staining, Loose, non plastic non cohesive, Moist. Rootlets	SP		
1.0							1	
2.0							2	
3.0					No groundwater encountered Total Depth 0.5ft Location Moved to upstream due to access N34.1402.3631 W118.4252.9295		3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 90
Drilling Company: HGL	Driller: McBirney	Ground Elevation: NA		Total Depth Drilled: ~~2.5 ft~~ 3.5 ft 36 inches ft bgs.
Drilling Equipment: Hand Auger	Borehole Diameter: 3.0 inches	Date/Time Drilling Started: 1400		Date/Time Total Depth Reached: 04/17/12 / 1408 / 2 ft 10 inches
Type of Sampling Device: Handauger		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.)		90144 (1435)
Geologist: Garcia		Checked By / Date: [illegible] 4-18-12		
Radiological Background: NA / ~~35~~ 75 / 51	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.2 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (Pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings 0.5' 3720 (CPM)
			0.1	60	Surface: leaf litter, Rootlets for pancake. Poorly Graded Med Sand; very dark Brown (7.5YR/2.5/2) 40% fine sand; 55% Med sand; 2% coarse sand 2% silt; no odor or staining; nonplastic nonchesive most loose. Rootlets	SP		4492 3769
0.5			0.2	72				CG 5221 4492
1.0			0.1	72			1	CG ~~5610~~ 5771
			0.7	74				CG 5613 5610
2.0			0.4	66			2	5613
			0.7	90	Mechanically weathered Bedrock Sandstone: (10YR/5/3) Brown 40% Med sand 20% Fine sand cemented nonchesive nonplastic Dry no odor or staining. Total Depth ~~3.5~~ 2.5 ft. 36 inches No Anomalies	SP Bedrock		6000
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_091

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~EAST~~	Location ID: NBZ-91
Drilling Company: HydroGeoLogic, Inc.	Driller: M Birney	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 0910		Date/Time Total Depth Reached: 03/29/2012 0911/0.5ft bgs
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90145 (0924)		
Geologist: C Garcia		Checked By / Date: Cliff Knuth 4-2-12		
Radiological Background: NA/~~54~~/77	Radiological Equipment Used: Micro R / Downhole / Pancake Meters		PID Used: Mini Rae 3000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (Pancake / Downhole)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface scattered cones, Bison Drainage			
			0.0	54 / 3250	Sandy Silt; (10YR/2/2); Very Dark Brown; 70% silt; 30% ~~Med~~ Fine Sand; MOIST; Loose; NO odor and staining; cohesive; non-plastic	~~SM~~ ML		
0.5			0.0	72 / 3700				
1.0							1	
					Total Depth 0.5ft bgs No groundwater encountered			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: EAST	Location ID: NBZ-91
Drilling Company: HydroGeoLogic, Inc.	Driller: M Birney	Ground Elevation: NA		Total Depth Drilled: 4ft 10 inches ft bgs.
Drilling Equipment: Hand Auger	Borehole Diameter: 3 inches	Date/Time Drilling Started: 0913		Date/Time Total Depth Reached: 03/29/2012 0950 / 4ft 10 inches (4.83ft)
Type of Sampling Device: Hand Auger		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 96146 (1030)		
Geologist: C Garcia		Checked By / Date: [illegible] 7-2-12		
Radiological Background: NA/3549/77	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (Pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings 0.5ft (CPM)
					Surface scattered debris; Rusty Oil; Drainage.			
			0.0	54	Sandy Silt; (10YR/2/2) Very dark Brown; ~~Loose~~ soft; cohesive; 70% silt; 30% fine sand; non-plastic; no odor or staining; moist;	CH SM ML		3698
0.5			0.0	60				4311
1.0			0.0	64	Sandy Silt; (5Y/2.5/1) Black; MOIST; ~~Loose~~ soft; cohesive; non-plastic; 70% silt; 30% fine sand; no staining or oder	CH SM ML	1	4585
			0.0	42				4849
2.0			0.0	72			2	4918
			0.0	66				4971
3.0			0.0	66	Sandy Silt; (10YR/5/3) 65% silt; 32% fine sand; 3% med sand; cohesive; non-plastic; no odor or staining; moist; Dark Brown; ~~Loose~~ soft	CH SM ML	3	4708
			0.0	66				4734
4.0			0.0	98	4.25ft 50 inches Groundwater Reached. soft; cohesive; semi-plastic; wet; no odor or staining; Sandy Clay ~~Clayey Sand~~ (10YR/5/2) Gray-Brown 65% Clay; 10% silt; 25% fine sand	CH ML CL	4	5095 Initial GW
			0.0	72				NM due to GW
5.0				4ft 10 inches 58 inches	Bedrock Reached 4ft 10in sandstone Mechanically Weathered Bedrock Groundwater encountered at 4ft 2inches Total Depth Reached at 4ft 10in No Anomalies	Bedrock	5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_092

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: East	Location ID: NBZ-92
Drilling Company: HydroGeoLogic, Inc.	Driller: C Garcia	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 1131 03/29/12		Date/Time Total Depth Reached: 1125 3-29-12
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90147 (1131)		
Geologist: M Birney		Checked By / Date: [illegible] 4-2-12		
Radiological Background: NA/3292/77	Radiological Equipment Used: Micro R / Downhole / Pancake Meters		PID Used: Mini Rae 3000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (Pancake/borehole)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
				MB	Surface: grass + scattered flowers			
0.5			0.1	79/82/3212	sandy silt very dark brown (10YR 2/2) moist, ~~loose~~ silt (MB), cohesive, low plasticity, no odor, no staining, trace rootlets, mica flakes 60% silt, 30% fine sand, 10% med sand	ML		
			0.1	60/3340				
1.0							1	
					TD = .5 ft bgs			
					no ground water encountered			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

SSFL BORING LOG

Sheet _1_ of _1_

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group:	Location ID: NBZ-92
Drilling Company: HydroGeoLogic, Inc.	Driller: C Garcia	Ground Elevation: NA		Total Depth Drilled: 2' 3" ft bgs.
Drilling Equipment: Hand Auger	Borehole Diameter: 3 inches	Date/Time Drilling Started: ~~1127~~ 1137		Date/Time Total Depth Reached: 1200 3-29-12
Type of Sampling Device: Hand Auger		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90148 (1215)		
Geologist: M Birney		Checked By / Date: [illegible] 4-2-12		
Radiological Background: NA / 3292 / 77	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological / Pancake	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings +.05 (CPM)
					surface - grass + small flowers			3326
			0.1	82	Sandy silt, very dark brown (10YR 3/2), moist soft ~~loose~~, cohesive, low plasticity, no odor, no staining (HB) trace rootlets, mica flakes	ML		
0.5			0.1	80	60% silt, 30% fine sand, 10% med sand			4224
1.0			0.1	52	silty sand, dark yellowish brown (10YR 4/4) 20% silt, 50% med sand, 30 fine sand, semi moist, low-med density, trace rootlets, low plasticity, no odor, no staining, mica flakes	SM	1	4524
			0.1	81				4651
2.0			0.1	70			2	5004
3.0					Bedrock mechanically weathered to SP, semi moist dark yellowish brown (10YR 4/4)	Bedrock	3	
					TD = 2' 3" no groundwater encountered			
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

NBZ_093

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: (6) ~~west~~ east	Location ID: 93
Drilling Company: HGL	Driller:	Ground Elevation: NA		Total Depth Drilled: 0 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started:		Date/Time Total Depth Reached:
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox. 8 lbs.) 90150/ 90151 (n/a)		
Geologist: L Robbins Goldman		Checked By / Date: LuDean Robbins Goldman 4/23/12		
Radiological Background:	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
0.5					no samples collected, location is within 800' golden eagle nesting buffer. Not reassigned. LG 4/23/12			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

NBZ_094

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 94
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/28/12 1405		Date/Time Total Depth Reached: 3/28/12 1408
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90152 (1410)		
Geologist: LRGoldman		Checked By / Date: [illegible] 3-30-12		
Radiological Background: 12 / 75	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: grass, woodchips, soil			
			0.0	13/16	silty sand: dark brown (10YR 3/3), 65% fine sand, 35% silt, moist, no odor or staining, low dense, cohesive, trace rootlets	SM		
0.5			0.0	13/60				
1.0							1	
					no groundwater encountered			
					no location deviation			
					total depth = 0.5' bgs			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_095

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: East	Location ID: NBZ-95
Drilling Company: HydroGeoLogic, Inc.	Driller: C Garcia	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 1000 3-27-12		Date/Time Total Depth Reached: 1030 3-27-12
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.)		~~90152~~ 90153 (1033) 90254 (NA)
Geologist: M Birney		Checked By / Date: [illegible] MB 3-29-12		
Radiological Background: NA/3184 / 80	Radiological Equipment Used: Micro R / Downhole / Pancake Meters		PID Used: Mini Rae 3000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (Pancake/Downhole)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface – scattered grass + sandstone rocks on surface			
			0.0	60/3240	Sandy silt dark brown (10yr 3/3) 75% silt, 15% med sand, 10% fine sand, cohesive, moist, med stiff, med plasticity, no odor, no staining, trace rootlets	ML		
0.5			0.0	80/3380				
1.0					Total Depth = .5' bgs		1	
					no groundwater encountered			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_096

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: ~~5e~~ 16 NBZ Group: east	Location ID: 96
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA	Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 3/28/12 0933	Date/Time Total Depth Reached: 3/28/12 0940
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90154 (945)	
Geologist: LR Goldman		Checked By / Date: [illegible] 3/30/12	
Radiological Background: 14/70	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface = grass + soil			
			0.0	13/72	silty sand: dark brown (10YR 3/3); 75% fine to med. sand, 25% silt, moist, no odor or staining, cohesive, low dense, roothets	SM		
0.5			0.0	14/54				
					total depth: 0.5'			
1.0					no groundwater encountered		1	
2.0							2	
3.0					GPS location 6351685.12E ~~190~~ 16 1910140.47N		3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_097 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: (G) west ~~east~~	Location ID: 97
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/4/12 900		Date/Time Total Depth Reached: 4/4/12 0915
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.)		90155 (0915)
Geologist: L Robbins Goldman		Checked By / Date: 4/6/12		
Radiological Background: 15 / 81	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: bare soil, wooden twigs, sparse grass			
			0.0	5/72	Silty sand: dark yellowish brown (10YR 4/4), moist, 75% fine sand, 10% med. sand, 15% silt, no odor or staining, low plasticity, low dense, trace rootlets + twigs.	SM		
0.5			0.0	15/90				
1.0					no GW encountered		1	
					TD = 0.5' bgs			
2.0					location not moved		2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_098 Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: East	Location ID: ~~199~~ 98
Drilling Company: HydroGeoLogic, Inc.	Driller: NA	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4-24-12		Date/Time Total Depth Reached: NA
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90156 (NA)		
Geologist: M Birney		Checked By / Date: [illegible] 6-15-12		
Radiological Background:	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
0.5					Loc ~~199~~ 98 moved due to Eagle buffer, Loc reassigned to Loc 199, sample 90156			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_099 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ (15)	Group: ~~West~~ East (8)	Location ID: 99
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/4/12 1030		Date/Time Total Depth Reached: 4/4/12 1043
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90157 (1045)		
Geologist: LRGoldman		Checked By / Date: SKH 4/4/12		
Radiological Background: 14.5 / 75	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (μR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: bare soil + twigs +			
			0.0	15/90	Silty sand w/ sandstone gravel, no odor, moist, med. dense, non-cohesive, no staining, 75% fine sand, 15% med. sand, 10% silt, trace rootlets, charcoal flakes	SM		
0.5			0.0	15.5/72				
1.0					no GW encountered TD = 0.5' bgs		1	
2.0							2	
3.0					location moved due to boulder outcrop + dense vegetation GPS coords: 6348814.44E 1909850.93E		3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_100 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: ~~5C~~ (IG) NB7 Group: east	Location ID: 100
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA	Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/4/12 0935	Date/Time Total Depth Reached: 4/4/12 0945
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90158(0945)	
Geologist: LRobbins Goldman		Checked By / Date: 4/6/12	
Radiological Background: 14.5/100	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: wooden twigs, sparse grass, bare soil			
			0.0	14.5/84	Silty sand: 80% fine sand, 10% med-sand, 15% silt, yellowish brown (10YR 5/4), moist, non-cohesive, low plasticity, (M) ~~med~~. dense, no odor or staining trace rootlets, some siltstone cobbles (~5mm)	SM		
0.5			0.0	14.5/82				
1.0							1	
					no GW encountered			
					. total depth = 0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_101

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 101
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/29/12 0950		Date/Time Total Depth Reached: 3/29/12 0958
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90159(1000)		
Geologist: LRGoldman		Checked By / Date: [signature] 4-2-12		
Radiological Background: 14/95	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: soil, leaves/twigs (sparse)			
			0.0	14/60	silty sand: dark yellowish brown (10YR 3/4), 75% fine sand, 10% fine sand, 15% silt, moist, dense, cohesive, low plasticity, trace rootlets, trace charcoal flakes	SM		
0.5			0.0	14/66				
1.0							1	
					no GW encountered total depth 0.5' bgs			
2.0							2	
					GPS location 6350314.78E 1910762.83N			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_102

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 102
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/27/12 1345		Date/Time Total Depth Reached: 3/27/12 1355
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90160 (1400)		
Geologist: L Robbins Goldman		Checked By / Date: [illegible] 3-29-12		
Radiological Background: 15 / 95	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/Pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface = grass (abundant + soil)			
			0.0	15/90	silty sand: 65% fine sand, 10% med sand, 25% silt, moist. trace rootlets, low dense, no odor or staining, trace charcoal	SM		
0.5			0.0	15/96				
1.0					no groundwater encountered total depth = 0.5' bgs		1	
2.0					GPS location: 6349630.18E 1909981.70N		2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_103

Sheet 1 of 1

east

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~NBZ~~ (LG)	Location ID: 103
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 3/29/12 0915		Date/Time Total Depth Reached: 3/29/12 0925
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) (0930) 90161		
Geologist: LR Goldman		Checked By / Date: Will Thurlott 4-2-12		
Radiological Background: 13 / 80	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological μR/pancake	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	13/66	silty sand: 65% fine sand, 35% silt, moist, no odor or staining, dense, cohesive, very dark brown (10YR 2/2), trace rootlets ~~&bur~~ (LG) charcoal flakes	SM		
0.5			0.0	(LG) 25/12				
1.0					total depth = 0.5' bgs no GW encountered		1	
2.0							2	
3.0					GPS location: 6350312.32 E 1910552.87 N		3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_104 _1_ of _1_

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: East	Location ID: 104
Drilling Company: HydroGeoLogic, Inc.	Driller: C Garcia	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 1030 4/4/12		Date/Time Total Depth Reached: 1040 4/4/12
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90163 (1045)		
Geologist: M Birney		Checked By / Date: L Robbins Goldman 4/5/12		
Radiological Background: NA / 3212 / 54	Radiological Equipment Used: Micro R / Downhole / Pancake Meters		PID Used: Mini Rae 3000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (pancake / borehole)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface - grass			
			0.0	60 / 3300	silty sand, dark brown (10yr 3/3), 60% fine sand, 25% coarse sand, 15% silt	SM		
0.5			0.0	90 / 3300	cohesive, semi moist, low plasticity, no odor, no staining, trace root lets			
1.0							1	
					TD = 0.5			
					no groundwater			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_105

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: na	Location ID: ~~104~~ (16) 105
Drilling Company: HydroGeoLogic	Driller: M-Birney	Ground Elevation: NA (16)		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 3/20/12 1410 (16)		Date/Time Total Depth Reached: 3/20/12 1415 (16)
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90162 (1415)		
Geologist: L.R. Goldman		Checked By / Date: [signature] 3-28-12		
Radiological Background: 14 / 32603 / 66	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface = soil + grass			
			0.0	14/48	Silty sand: very dark brown (10YR 2/2), ~~80%~~ (16) 70% fine to med. sand, 30% silt, no odor or staining, moist, loose, low plasticity	SM		
0.5			0.0	15/54				
1.0							1	
					total depth = 0.5' bgs no groundwater encountered			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

NBZ_106

HGL HydroGeoLogic Inc Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 106 (new loc #194)
Drilling Company: ~~Boart Longyear~~ HGL	Driller: na	Ground Elevation: NA		Total Depth Drilled: ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started:		Date/Time Total Depth Reached:
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90164		
Geologist: L Robbins Goldman		Checked By / Date: 6/18/12		
Radiological Background:	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
0.5					Location #106 was reassigned as location #194 due to the Golden Eagle exclusion zone Sample I.D remains #90164			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_107 Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ Group: ~~NBZ East~~	Location ID: 107
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA	Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/2/12 1340	Date/Time Total Depth Reached: 4/2/12 1353
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 91065 (1355)	
Geologist: LP Goldman		Checked By / Date: [signature] 4-4-12	
Radiological Background: 13/59	Radiological Equipment Used: Micro R / ~~Downhole /~~ Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface = soil + grass			
			0.0	13/12	Silty sand: dark brown (10YR 3/3), 75% fine sand, ~~10~~ 15% med. sand, 10% silt, moist, loose, slightly cohesive, non plastic, no odor or staining, trace rootlets + charcoal flakes	SM		
0.5			0.0	13/60				
1.0							1	
					no GW encountered total depth = 0.5' bgs			
2.0							2	
					location not moved.			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

8

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_108

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 108
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/3/12 0925		Date/Time Total Depth Reached: 4/3/12 0935
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90166 (0935)		
Geologist: LRGoldman		Checked By / Date: Chris Lumpkin 4/4/12		
Radiological Background: 14 / 90	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: soil + twigs			
0.0–0.5			0.0	135/54	SM silty sand: 75% fine sand, 10% med sand, 15% silt, dark yellowish brown (10YR 5/4), moist, low plasticity, no odor or staining, low dense, cohesive, trace rootlets + twigs	SM		
0.5–1.0			0.0	135/66			1	
1.0					no GW encountered total depth = 0.5' bgs			
2.0							2	
					Location moved: 6349834.30E 1910881.73N			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_109

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 109
Drilling Company: HGL	Driller: J. Lebrugie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/27/12 1450		Date/Time Total Depth Reached: 3/27/12 1500
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90167 (1505)		
Geologist: LRGoldman		Checked By / Date: [signature] 3/28/12		
Radiological Background: 14/92	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (μR/ pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: weeds + soil AF=artificial fill			
			0.0	N/84	Silty sand w/ clay: dark yellowish brown (10YR 3/4), 60% fine sand, 20% silt, 20% clay;	SM/AF		
0.5			0.0	16/90	moist, no odor or staining, trace rootlets, dense, trace debris (sm. green crystalline fragment (< 1mm) and erosional wooddell ~~deeth~~ netting			
1.0							1	
					no GW encountered total depth = 0.5' bgs			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_110 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: EAST	Location ID: CG8 110
Drilling Company: HydroGeoLogic, Inc.	Driller: M Birney	Ground Elevation: NA 4/4/12		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 0905		Date/Time Total Depth Reached: 4/4/12 / 0.5 / 0910
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Approx 8 lbs.)		90168 (0912)
Geologist: Clarcia		Checked By / Date: L Robins Goldman 4/5/12		
Radiological Background: 3297 / 49	Radiological Equipment Used: Micro R / Downhole / Pancake Meters		PID Used: Mini Rae 3000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological ~~Pancake~~ Downhole	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: Grass; sandstone; plants.			
			0.0	84/31	Silty Sand (7.5YR 3/2) Dark Brown; Loose; 15% Silty; 75% Fine Sand; 10% Med Sand; non plastic; cohesive; no odor or staining; Dry; Rootlets;	SM		
0.5			0.0	78/3410				
1.0							1	
					Total Depth 0.5 ft bgs No groundwater encountered.			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_111

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ / Group: 1	Location ID: 111
Drilling Company: HydroGeoLogic	Driller: J. LeVargie	Ground Elevation: NA	Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/2/12 1310	Date/Time Total Depth Reached: 4/2/12 1319
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90169 (1320)	
Geologist: LR Goldman		Checked By / Date: Cliff Knight 4-4-12	
Radiological Background: 13 / 76	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: soil + grass			
			0.0	13/60	silty Sand: Very dark brown (10YR 2/2), 75% fine sand, 25% silt, moist, cohesive, no odor or staining, low plasticity, low dense, trace rootlets	SM		
0.5			0.0	13/40				
1.0							1	
					no GW encountered			
					total depth = 0.5' bgs			
2.0					location not moved.		2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_112 Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~ma~~ (19) east	Location ID: 112
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/2/12 1020		Date/Time Total Depth Reached: 4/2/12 1028
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90170 (1030)		
Geologist: LRGoldman		Checked By / Date: [illegible] 4-4-12		
Radiological Background: 14/77	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/Pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: soil			
			0.0	14/66	Silty sand: very dark brown (10YR 2/2), 75% fine sand, 10% med sand, 15% silt, moist, low dense, no plasticity, non cohesive, trace rootlets, no odor or staining.	SM		
0.5			0.0	15/96				
1.0							1	
					no GW encountered			
					TD = 0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_113

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~East~~ ~~Tier~~	Location ID: 113
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/2/12 915		Date/Time Total Depth Reached: 4/2/12 0929
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90171 (0930)		
Geologist: LRGoldman		Checked By / Date: Chris Knight 4/4/12		
Radiological Background: 15 / 82	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR / pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface - grass + soil			
			0.0	15/120	Silty sand: 75% fine sand, 10% med. sand, 15% silt, moist, no odor or staining, low plasticity, non cohesive, low dense, trace rootlets very dark brown (10YR 2/2)	SM		
0.5			0.0	15/102				
1.0					no GW encountered		1	
					deviation in location: 6350793.32E 1910653.36N			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_114

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: EAA	Location ID: 114
Drilling Company: HydroGeoLogic, Inc.	Driller: M Birney	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 0920		Date/Time Total Depth Reached: 4/4/12 0.5 / 0925
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.)		90177 / 9864 (0930)
Geologist: C Garcia		Checked By / Date: J Robins Goldman 4/5/12		
Radiological Background: NA / 3273 / 64	Radiological Equipment Used: Micro R / Downhole / Pancake Meters		PID Used: Mini Rae 3000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (Pancake / Downhole)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: Coarse sand; scattered leaves; sandstone			
0.5			0.0	54 / 3420	Silty Sand: (10YR/4/2); Dark grayish Brown; loose; Dry; cohesive; non plastic; no odor or staining 15% silt; 75% fine sand 10% Med sand.	SM		
			0.0	96 / 41.00				
1.0							1	
2.0					Total Depth Reached 0.5 ft bgs No groundwater encountered		2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_115

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: ~~5C~~ 16 NBZ	Group: east	Location ID: 115
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/3/12 1420		Date/Time Total Depth Reached: 4/3/12 1435
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90173 (1435)		
Geologist: LRGoldman		Checked By / Date: Chris Knight 4/4/12		
Radiological Background: 14 / 103	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: grass + soil			
0.5			0.0	14/78	Silty sand: dark brown (10YR 3/3), 65% fine sand, 15% med. sand, 20% silt, moist, low dense, low plasticity, cohesive, no odor or staining, trace rootlets, mica flecks, quartz grains	SM		
			0.0	14/96				
1.0							1	
					no GW encountered			
					Location not moved			
					total depth = 0.5' bgs			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_116 Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: East #2	Location ID: 116
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 3/22/12 1450		Date/Time Total Depth Reached: 3/22/12 1500
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90174 (1505)		
Geologist: L Robbins Goldman		Checked By / Date: [signature] 3-26-12		
Radiological Background: 14 / 3336 / 84	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: grass + soil			
			0.0	12/18	Silty sand: 65% sand, 35% silt, no odor or staining, moist, low plasticity, low density,	SM		
0.5			0.1	14/21	color: dark brown (10YR 3/3),			
					total depth 0.5' bgs			
1.0					no groundwater encountered		1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

NBZ_117

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 117 (new loc. # 195)
Drilling Company: ~~Boart Longyear~~ HGL	Driller: n/a	Ground Elevation: NA		Total Depth Drilled: ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started:		Date/Time Total Depth Reached:
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90175		
Geologist: LRobbins Goldman		Checked By / Date: 6/18/12		
Radiological Background:	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
0.5					Location #117 was reassigned as location #195 due to the Golden Eagle exclusion zone, sample I.D. remains # 90175			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_118 Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~na~~ (a) east	Location ID: 118
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 3/29/11 1452		Date/Time Total Depth Reached: 3/29/11 1459
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.)		DUP: 90255 (na) 90176 (1500)
Geologist: LRGoldman		Checked By / Date: [signature] 4-2-12		
Radiological Background: 15/70	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: grass + soil			
			0.0	15/90	Silty sand: dark brown (10YR 3/3): 75% fine sand, 15% med. sand, 10% silt, moist, dense, no odor or staining, non plasticity, cohesive	SM		
0.5			0.0	16/78				
1.0							1	
					no GW encountered			
					GPS locations: 6350307.30E 1910311.97N			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_119

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: post	Location ID: 119
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/27/12 1038		Date/Time Total Depth Reached: 3/27/12 1045
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90177 (1048)		
Geologist: LRGoldman		Checked By / Date: [illegible] 3/29/12		
Radiological Background: 15/87	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	15/72	Silty sand: dark brown (10YR 3/3), 75% fine to med. sand, 25% silt, moist, no odor or staining, cohesive, low plasticity, dense, trace rootlets + charcoal flakes (2 1mm)	SM		
0.5			0.0	15/96				
1.0							1	
					no groundwater encountered total depth = 0.5'			
2.0							2	
3.0					GPS location: 6349510.11E 1910637.43N		3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_120 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: East	Location ID: 120
Drilling Company: HydroGeoLogic, Inc.	Driller: M Birney	Ground Elevation: NA 4/4/12		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 1100		Date/Time Total Depth Reached: 4/4/2012 / 0.5 ft bgs
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 401758 (H10)		
Geologist: C Garcia		Checked By / Date: L Robins Goldman 4/5/12		
Radiological Background: NA/30260/48	Radiological Equipment Used: Micro R / Downhole / Pancake Meters		PID Used: Mini Rae 3000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological Readings (Pancake / Downhole)	Description (include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	54 / 3340	Surface: Grassy; Leaf Litter; Sandstone			
0.5			0.0	96 / 3400	Sand: Brown; (7.5YR/4/4) Loose; Dry; 90% sand; 10% silt; non plastic; non cohesive; no odor or staining	SP		
1.0					Poorly graded sand with silt		1	
					Total Depth Reached 0.5 ft bgs No groundwater encountered.			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_121

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea:NBZ	Group: East	Location ID: Z-121
Drilling Company: HydroGeoLogic, Inc.	Driller: J Le Vangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 1100 3-30-12		Date/Time Total Depth Reached: 1108 3-30-12
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90179 (1112)		
Geologist: M Birney		Checked By / Date: Cliff Knight 4-2-12		
Radiological Background: N/A / 3340 / 78	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (Pancake / Borehole)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface - dense chaparral			
			0.1	40/3801	poorly graded sand, dark yellowish brown, 70% med sand, 25% fine sand, 5% silt, loose, non plasticity, semi moist, trace rootlets, no odor, no staining	SP		
0.5			0.3	49/4044				
1.0							1	
					TD = 0.5' no groundwater encountered			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_122 Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: past	Location ID: 122
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/3/12 1048		Date/Time Total Depth Reached: 4/3/12 1059
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90180 (1100)		
Geologist: LRGoldman		Checked By / Date: 4/4/12		
Radiological Background: 5 / 84	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (μR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: dense grass + soil			
			0.0	15/84	silty sand: very dark grayish brown (10YR 3/2) 65% fine sand, 35% silt, moist, low dense, cohesive, ~~slight~~ low plasticity, trace rootlets + twigs, mica flecks, + opaques, no odor or staining. + trace charcoal (< 5mm)	SM		
0.5			0.0	16/72				
1.0							1	
					NO GW encountered			
					total depth = 0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_123

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 123
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/26/12 1420		Date/Time Total Depth Reached: 3/26/12 1445
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90181 (1445)		
Geologist: LRGoldman		Checked By / Date: [illegible] 3-28-12		
Radiological Background: 12 / 74	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	12/12	Silty sand: dark yellowish brown (10YR 3/6), 70% fine sand, 20% silt, 10% clay, moist, cohesive, no odor or staining, loose	SM		
0.5			0.0	15/18				
1.0					total depth = 0.5' bgs no groundwater encountered		1	
2.0							2	
3.0					GPS location: 6350300.15 E 1909934.09 N		3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_124 1 of 1

east

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~TM~~ LG	Location ID: 124
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 3/26/12 1009		Date/Time Total Depth Reached: 3/26/12 1020
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90182 (1020)		
Geologist: L. Robbins Goldman		Checked By / Date: [illegible] 3-28-12		

Radiological Background: 15/ n/a /94

Radiological Equipment Used: Micro R ~~/ Downhole~~ / Pancake Meters

PID Used: Mini Rae 2000 - Background: 0.0 ppm

Depth (ft bgs)	Interval	Recovery	PID	Radiological pancake/uR	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: soil + grass			
			0.0	90/15	Silty sand: dark yellowish brown (10YR 3/6) 85% ~~45%~~ LG, fine to med sand, 15% silt, moist, cohesive, low plasticity, dense, no odor or staining	SM		
0.5			0.0	72/15				
1.0					total depth = 0.5' bgs no ground water encountered		1	
2.0							2	
					GPS location: N 1910506.83 E ~~N~~ 6349849.97 LG			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

NBZ_125

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological	Project Number: EP038.01.22.04.03	Subarea:	Group: 1	Location ID: 125 (new 196)
Drilling Company: ~~Boart Longyear~~ HGL	Driller:	Ground Elevation: NA		Total Depth Drilled: NA ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4-26-12		Date/Time Total Depth Reached: NA
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90183 (NA)		
Geologist: M Birney		Checked By / Date: ~~90183~~ mB [illegible] 6/18/12		
Radiological Background:	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
0.5					Loc 125 was reassigned as Loc 196 due to Golden Eagle exclusion zone. Sample ID remains #90183			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_126

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: East	Location ID: 126
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 3/26/12 1050		Date/Time Total Depth Reached: 3/26/12 1102
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90184 (1102)		
Geologist: L Robbins Goldman		Checked By / Date: [illegible] 3-28-12		
Radiological Background: 13 / 97	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (μR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	12/66	silty sand: 85% fine to med. sand, 15% silt, moist, dense, no odor or staining, cohesive	SM		
0.5			0.0	13/72				
					total depth = 0.5' bgs		1	
1.0					no groundwater encountered			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_127 f 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: East ~~NBG~~	Location ID: 127
Drilling Company: HydroGeoLogic	Driller: J Levangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/3/12 0955		Date/Time Total Depth Reached: 4/3/12 1005
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90185 (1005)		
Geologist: LR Goldman		Checked By / Date: [illegible] 4/4/12		
Radiological Background: 15 / 98	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (NB/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: soil + thin grass			
			0.0	15/108	silty sand: yellowish brown (10YR 5/4), 65% fine sand, 35% silt, loose dense, moist, cohesive, low plasticity, no odor or staining trace rootlets, trace bedrock cobbles (~5mm to 10mm size).	SM		
0.5			0.0	16/72				
1.0							1	
					no GW encountered			
					total depth = 0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

NBZ_128

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological	Project Number: EP038.01.22.04.03	Subarea:	Group: 1 E	Location ID: 128 (new #197)
Drilling Company: ~~Boart Longyear~~ HGL	Driller:	Ground Elevation: NA		Total Depth Drilled: NA ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4-26-12		Date/Time Total Depth Reached: NA
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90186 (NA)		
Geologist: M Birney		Checked By / Date: [illegible] Knight 6/18/12		
Radiological Background:	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
0.5					Loc #128 was reassigned as loc 197 due to Golden Eagle exclusion zone Sample ID remains 90186			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

NBZ_129

SSFL BORING LOG

east

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: nbz	Group: ~~nbLR~~	Location ID: 129
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/27/12 1425		Date/Time Total Depth Reached: 3/27/12 1435
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90187 (1440)		
Geologist: LRGoldman		Checked By / Date: [illegible] 3-29-12		
Radiological Background: 15 / 85	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	15/72	Silty sand: dark brown (10YR 3/3), 65% fine sand, 10% ~~coar~~ med. sand, 25% silt, trace rootlets, moist, low plasticity, low dense, no odor or staining	SM		
0.5			0.0	15/60				
1.0					no GW encountered		1	
					total depth = 0.5' bgs			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

NBZ_130

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 130
Drilling Company: HGL	Driller: J. LeVaingie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/27/12 1007		Date/Time Total Depth Reached: 3/27/12 1020
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.)		90188 (1030) (1030) 1020
Geologist: LR Goldman		Checked By / Date: [signature] 3/29/12		
Radiological Background: 14 / 71	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR / pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: soil + grass			
			0.0	14/78	silty sand: dark brown (10YR 3/3), 75% fine to med. sand, 25% silt, cohesive, moist, dense	SM		
0.5			0.0	15/72	no odor or staining			
1.0					no GW encountered		1	
2.0							2	
3.0					GPS location: 6349358.19E 1910691.67N		3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_131

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 131
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/29/12 1025		Date/Time Total Depth Reached: 3/29/12 1032
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.)		(90189) 1035
Geologist: LRGoldman		Checked By / Date: MMD 4-2-12		
Radiological Background: 15 / 105	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: exposed soil ← MR/pancake			
			0.0	15/90	Silty sand: dark grayish brown (2.5Y 4/2), moist, low dense, no odor or staining, 65% fine sand, 10% med. sand, 25% silt, cohesive trace rootlets	SM		
0.5			0.0	16/84				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

no GW encountered

· location moved ~20' SW due to dense ~~foc~~ vegetation coverage

GPS location: 6350314.78 E
1910762.83 N

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_132 1

Project Name: SSFL Area IV Radiological	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: 1 L	Location ID: 132
Drilling Company: ~~Boart Longyear~~ HGL mB	Driller: NA	Ground Elevation: NA		Total Depth Drilled: NA ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4-24-12		Date/Time Total Depth Reached:
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90190 (NA)		
Geologist: M Birney		Checked By / Date: [signature] 6/18/12		
Radiological Background:	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
0.5					Loc 132 moved due to nesting birds. Loc reassigned to loc 200, sample 90190			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

NBZ_133

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 133
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/26/12 1512		Date/Time Total Depth Reached: 3/26/12 1518
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90191 (1520)		
Geologist: Robbins Goldman		Checked By / Date: [illegible] 3-28-12		
Radiological Background: 14 / 74	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	14/78	silty sand: dark yellowish brown (10YR 3/6), 70% fine sand, 20% silt, 10% clay, moist, cohesive, no odor or staining, charcoal flakes, rootlets med. dense	SM		
0.5			0.0	14/72				
					total depth = 0.5' bgs			
1.0					no groundwater encountered		1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_134

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group:	Location ID: NBZ-134
Drilling Company: HydroGeoLogic, Inc.	Driller: V Le Vangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 1025 3-30-12		Date/Time Total Depth Reached: 1033 3-30-12
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90192 (1043)		
Geologist: M Birney		Checked By / Date: Cliff Knight 4-2-12		
Radiological Background: NA / 3712 / 85	Radiological Equipment Used: Micro R / Downhole / Pancake Meters		PID Used: Mini Rae 3000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Pancake/~~Geiger~~ Borehole Surface - low chaparral + grass			
			0.0	80/3611	Silty sand, dark yellowish brown (10YR 3/4)	SM		
0.5			0.0	100/3496	75% med sand, 20% fine sand, 5% silt, loose, semi moist, non plasticity, trace rootlets, no odor, no staining			
1.0							1	
					TD = 0.5'			
					no groundwater encountered			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_135 Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east ~~[illegible]~~	Location ID: 135
Drilling Company: HydroGeoLogic	Driller: J. Lebarque	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 3/28/12 1019		Date/Time Total Depth Reached: 3/28/12 1025
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90193 (1030)		
Geologist: LRGoldman		Checked By / Date: [illegible] 3/30/12		
Radiological Background: 14 / 96	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: soil, twigs, deer scat			
			0.0	12/42	~~Silty Sand~~ sandy silt: dark brown (10YR 3/3), 65% silt, 20% med. sand, 15% fine sand, moist, no odor or staining, low plasticity, soft, trace roots, charcoal (~2mm)	SM ML		
0.5			0.0	12/12				
1.0					no ground water encountered		1	
					no location deviation			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

NBZ_136

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 136
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/28/12 1336		Date/Time Total Depth Reached: 3/28/12 1345
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90194 (1350)		
Geologist: LRGoldman		Checked By / Date: [illegible] 3-30-12		
Radiological Background: 13 / 72	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface = twigs, sparse rocks, soil			
			00	12/90	silty sand w/ gravel: dark yellowish brown (10YR 4/6),	SM		
0.5			0.0	13/96	60% fine sand, 15% med sand, 15% silt, 10% gravel (~2-5mm) - gravel varies between sandstone & siltstone, moist, dense, no odor or staining, cohesive			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

no GW encountered
no deviation in location

HGL HydroGeologic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_137

Project Name: SSFL Area IV Radiological	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: 1 E	Location ID: 137
Drilling Company: ~~Boart Longyear~~ MB HGL	Driller: NA	Ground Elevation: NA		Total Depth Drilled: NA ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4-24-12		Date/Time Total Depth Reached: NA
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90195 (NA)		
Geologist: M Birney		Checked By / Date: [signature] 6-18-12		
Radiological Background:	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
0.5					Loc 137 moved due to nesting birds. Loc reassigned to loc 201, sample 90195			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_138 Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~SSFL~~	Location ID: 138
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/2/12 0850		Date/Time Total Depth Reached: 4/2/12 958
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90196 (1000)		
Geologist: LRGoldman		Checked By / Date: Cliff Knight 4-4-12		
Radiological Background: 13 / 82	Radiological Equipment Used: Micro R / Downhole / ~~Pancake Meters~~	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: soil + grass			
			0.0	14/90	silty sand: very dark brown (10YR 2/2), 75% fine sand, 10% med sand, 15% silt, moist, low plasticity, low dense, nonplastic, no odor or staining, trace rootlets, mica flakes.	SM		
0.5			0.0	14/108				
1.0							1	
					no groundwater encountered			
					td = 0.5' bgs			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_139 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 139
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/28/12 1501		Date/Time Total Depth Reached: 3/28/12 1510
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90197 (1510)		
Geologist: LR Goldman		Checked By / Date: [illegible] 3/20/12		
Radiological Background: 15/74	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: grass + fallen leaves			
			0.0	14/96	Silty sand: very dark brown (7.5YR 2/2.5), 60% sand (fine), 40% silt, moist, loose, low plasticity, trace rootlets + leaves, small decaying piece of wood, no staining or odor	SM		
0.5			0.0	15/84				
1.0							1	
					no GW encountered			
					no location deviation			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_140

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 140
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/3/12 1348		Date/Time Total Depth Reached: 4/3/12 1400
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90198 (1400)		
Geologist: LRGoldman		Checked By / Date: Will Knight 4/4/12		
Radiological Background: 13 / 81	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: tall grass + soil			
0.5			0.0	14/78	Silty sand: dark brown (10YR 3/3), moist, low dense, low plasticity, 70% fine sand, 15% silt, 10% med. sand, small opaques + mica flecks, small quartz nodules, trace rootlets, trace charcoal flakes (~2mm)	SM		
			0.0	15/72				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

no GW encountered
location not moved

total depth = 0.5' bgs

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_141

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 141
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/28/12 0854		Date/Time Total Depth Reached: 3/28/12 0900
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90199(905)		
Geologist: LRGoldman		Checked By / Date: [illegible] 3/30/12		
Radiological Background: 13 / 82	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/ pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: soil + twigs			
0.5			0.0	14/82	Silty sand: dark yellowish brown (10YR 4/6), 65% fine sand, 15% med sand, 20% silt, moist, low dense, cohesive, no odor or staining, trace roots.	SM		
			0.0	15/72				
1.0							1	
					no GW encountered			
					no deviation in location			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

NBZ_142

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

Sheet _1_ of _1_

Project Name: SSFL Area IV Radiological	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: 1 E	Location ID: 142 (new # 198)
Drilling Company: ~~Boart Longyear~~ HGL MB hardanger	Driller:	Ground Elevation: NA		Total Depth Drilled: NA ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4-26-12		Date/Time Total Depth Reached: NA
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90200 (NA)		
Geologist: M Birney		Checked By / Date: Cliff Knight, 6-18-12		
Radiological Background:	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
0.5					LOC relocated due to protected nesting birds. LOC reassigned to LOC 198, sample 90200			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

NBZ_143

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NB2	Group: east	Location ID: 143
Drilling Company: HGL	Driller: J. LaVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/28/12 1440		Date/Time Total Depth Reached: 3/28/12 1450
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90201 (1450)		
Geologist: LR Goldman		Checked By / Date: [signature] 3/30/12		
Radiological Background: 14 / 81	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface = grass + wood chips			
0.0–0.5			0.0	14/66	silty sand: dark olive brown (2.5Y 3/3), 85% fine to med. sand, 15% silt, moist, no odor or staining, non cohesive, dense, rootlets (trace)	SM		
0.5–1.0			0.0	15/72				
1.0					no GW encountered		1	
					no deviation in location			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_144

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 144
Drilling Company: HGL	Driller: J. Livangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/12/12 (920)		Date/Time Total Depth Reached: 4/12/12 0932 0.5
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90202 (0930)		
Geologist: LRGoldman		Checked By / Date: Colleen Sheeca 4/12/12		
Radiological Background: 12/88	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/ pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: bare soil + wooden twigs			
0.5			0.0	12/18	Silty sand w/ gravel: dark yellowish ~~brown~~ brown (10YR 4/4), 75% fine sand, 15% silt, 10% subangular siltstone gravel, moist, no odor or staining, noncohesive	SM		
			0.0	14/114				
1.0							1	
					no GW encountered			
					TD = 0.5' bgs			
					location moved 5' east to avoid dense vegetation			
2.0							2	
					GPS coordinates:			
					6343027.82 E			
					1907035.44 N			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_145

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: west	Location ID: 145
Drilling Company: HGL	Driller: M. Birney	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/11/12 1421		Date/Time Total Depth Reached: 4/11/12 1430
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90203 (1430)		
Geologist: L Robbins/Goldman		Checked By / Date: [signature] 4/12/12		
Radiological Background: 13/60	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: wooden twigs, exposed soil			
0.5			0.0	13/54	Clayey Silt: very dark brown (10YR 2/2), 60% silt, 40% clay, moist, cohesive, no odor or staining trace rootlets, trace charcoal flakes	ML		
			0.0	17/66				
1.0					no GW encountered		1	
					TD=0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_146

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: west	Location ID: 146
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/18/12 1524		Date/Time Total Depth Reached: 4/18/12 (1537)
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90204 (1530)		
Geologist: L Robbins Goldman		Checked By / Date: Cliff Hamilton 4/19/12		
Radiological Background: 13 / 73	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: leaf litter, woodensticks			
			0.0	13/18	Silty sand: black (10YR 2/1), moist, noncohesive, very loose, trace rootlets + leaf matter, mica flakes	SM		
0.5			0.0	14/60				
1.0					NO GW encountered		1	
					TD=0.5' bgs			
					location moved due to poison oak.			
2.0					GPS location: 6345585.17E 1908197.73N		2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_147 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: west	Location ID: 147
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/17/12 1508		Date/Time Total Depth Reached: 4/17/12 1524
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90205 (1510)		
Geologist: L Robbins Goldman		Checked By / Date: Chris Hunt 4/18/12		
Radiological Background: 16 / 87	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters		PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (HR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: exposed soil, wooden twigs			
			0.0	16/102	Silty sand w/ gravel: 60% ~~fine~~ med sand, 15% fine sand, 15% silt, 10% siltstone gravel, moist,	SM		
0.5			0.0	16/78	very loose, noncohesive, abundant roots + organic material (leaves, sticks, etc.) 10YR 3/2 very dark grayish brown			
1.0							1	
					TD = 0.5' bgs			
					no GW encountered			
					location moved ~20' NE to avoid			
2.0					poison oak + rocky outcrop		2	
					GPS position: 6348776.43E			
					1907397.69N			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_148 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 148
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA 4/11/12		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: **Trowel/Shovel**	Borehole Diameter: N/A	Date/Time Drilling Started: ~~4/12/11~~ 1354		Date/Time Total Depth Reached: 4/11/12 1405
Type of Sampling Device: **Trowel/Shovel**		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90206 (1405)		
Geologist: LRGoldman		Checked By / Date: Colleen Gonzales 4/12/12		
Radiological Background: 15/91	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters		PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: bushy + leaf litter			
0.5			0.0	15/68	clayey silt w/ gravel: dark brown (10YR 3/3), 60% silt, 30% clay, 10% siltstone subrounded gravel, moist, very soft, no odor, no staining, trace mica flakes, trace charcoal flakes (~2mm), trace rootlets, approximate gravel size (~2mm)	ML		
			0.0	16/96				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

TD = 0.5' bgs

no GW encountered

location not moved

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_149 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~NAG~~ (G) ~~east~~ west	Location ID: 149
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/5/12 1015		Date/Time Total Depth Reached: 4/5/12 1030
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.)		Dup: 90257 (NA) 90207 (1030)
Geologist: L Robbins Goldman		Checked By / Date: Cliff Knight 4-6-12		
Radiological Background: 14 / 54	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: dense grass			
0.0–0.5			0.0	14 / 54 (NA) 102	silty sand w/ gravel; dark yellowish brown (10YR 3/4), 70% fine sand, 25% silt (15%), 10% gravel, moist, low dense, low plasticity, non cohesive, trace rootlets, sandstone gravel size varies from 5mm to 10mm	SM		
0.5–1.0			1.7	17 / 72			1	
1.0–2.0					NO GW encountered location moved ~25' north due to rock outcrop GPS location: 6346508.94E 1908995.93N		2	
2.0–3.0							3	
3.0–4.0							4	
4.0–5.0							5	
5.0–6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_150

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: west	Location ID: 150
Drilling Company: HGL	Driller: J. Lelbangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: ~~4/16/12~~ 4/16/12 1515		Date/Time Total Depth Reached: ~~4/16/12~~ 1530 4-19-12
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90208(1525) / Dup: 90262 (N/a)		
Geologist: L Robbins Goldman		Checked By / Date: 4/20/12		
Radiological Background: 13.5/86	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: grass			
			0.0	13.5/84	Silty sand: dark brown (10YR 3/3), 85% fine sand, 15% silt, dry, very loose, noncohesive, mica flakes, abundant rootlet balls, trace charcoal, trace twigs	SM		
0.5			0.0	14.5/78				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

no GW encountered

TD = 0.5' bgs

location moved to a soil outcrop amongst sandstone outcrop, GPS position:

6345662.87E

1907995.19N

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_151 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~east~~ west (16)	Location ID: 151
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/9/12 1000		Date/Time Total Depth Reached: 4/9/12 1019
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90209 (1015)		
Geologist: LRGoldman		Checked By / Date: [signature] 4/10/12		
Radiological Background: 15 / 104	Radiological Equipment Used: Micro R / ~~Downhole~~ (MR) / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: wooden twigs, sparse weeds, exposed soil			
			0.0	14/60	~~sandy silt~~ silty sand (SM) w/ gravel: brown (10YR 4/3), moist, med. dense, 65% fine sand, 10% med. sand, 15% silt, 10% subangular siltstone gravel, no odor or staining, non plastic, trace rootlets + wooden twigs.	SM		
0.5			0.0	15/126				
1.0							1	
					no GW encountered			
					TD = 0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_152 f 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 152
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/12/12 0945		Date/Time Total Depth Reached: 4/12/12 0955
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90210 (0955)		
Geologist: LRGoldman		Checked By / Date: Colleen Garcia 4/13/12		
Radiological Background: 13/88	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (pancake/uR)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: Subrounded rocks, plant debris, twigs			
			0.0	54/13.5	silty sand w/ gravel: dark brown (10YR 3/3), 65% fine sand, 20% subrounded conglomerate gravel (varies from 1" - 6" length), 15% silt, moist, noncohesive, no odor or staining, mica flakes, trace siltstone/sandstone angular fragments, trace rootlets, trace charcoal flakes	SM		
0.5			0.0	42/15				
1.0							1	
					no GW encountered			
2.0					TD = 0.5' bgs		2	
					location not moved.			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_153

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: W	Location ID: 153
Drilling Company: HGL	Driller: NA	Ground Elevation: NA		Total Depth Drilled: NA ft bgs.
Drilling Equipment: ~~Hand Auger~~ MB Trowel / Shovel	Borehole Diameter: ~~3.0 inches~~ MB NA	Date/Time Drilling Started: 6-24-12		Date/Time Total Depth Reached:
Type of Sampling Device: ~~Handauger~~ MB trowel / shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90211 (NA)		
Geologist: M B		Checked By / Date: [illegible] 6/18/12		
Radiological Background:	Radiological Equipment Used: Micro R / Downhole / Pancake Meters		PID Used: Mini Rae 2000 - Background: ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
0.5					Loc 153 moved due to nesting birds. Loc reassigned to loc 202 MB sample 90211			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_154

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 154
Drilling Company: HGL	Driller: J. Levangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 0950 4/11/12		Date/Time Total Depth Reached: 4/11/12 1000 0.5
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Approx. 8 lbs.) 90212 (1000)		
Geologist: L Robbins Goldman		Checked By / Date: C Marcea 4/12/12		
Radiological Background: 11 / 67	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/ pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: sparse grass + exposed soil			
0.5			0.0	11.5/84	silty sand: very dark grayish brown (10YR 3/2), ~~75% fine S~~ @ 65% fine sand, 20% silt, 15% med sand, moist, noncohesive, no odor or staining, trace rootlets + charcoal flakes	SM		
			0.0	12/66				
1.0					TD=0.5' bgs		1	
					no GW encountered			
					location moved off the road			
2.0							2	
					GPS location: 63439.50.77EE 1906923.15N			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_155 Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: 5C NBZ	Group: ~~East~~ (a) west	Location ID: 155
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: (b) NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/4/12 1440		Date/Time Total Depth Reached: 4/4/12 1455
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.)		90213 (1455)
Geologist: L Robbins Goldman		Checked By / Date: [illegible] 4/6/12		
Radiological Background: 15/99	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: thick grass + soil			
			0.0	15/126	Silty sand: dark brown (10YR 3/3), 65% fine sand, 35% silt, low dense, moist, non cohesive, low plasticity, no odor or staining, mica flakes, trace rootlets	SM		
0.5			0.0	15/00				
1.0					no GW encountered		1	
					Location not moved			
					TD = 0.5' bgs			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_156

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: west	Location ID: 156
Drilling Company: HGL	Driller: J-Le Vangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/17/12 1102		Date/Time Total Depth Reached: 4/17/12 1110
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90214 (1110)		
Geologist: L Robbins Goldman		Checked By / Date: [illegible] 4/18/12		
Radiological Background: 13.5 / 83	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: wooden twigs, exposed soil + rocks			
			0.0	13/66	~~Silt w/ Sand~~: sandy silt: very dark brown (10YR 2/2), 70% silt, 30% fine sand, ~~semi~~ moist, very soft, trace rootlets + plant debris, trace charcoal flakes (~2mm)	ML		
0.5			0.0	15/78				
1.0							1	
					no GW encountered			
					TD = 0.5' bgs			
					Location moved, GPS position			
2.0							2	
					6344376.18E			
					1907890.71N			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_157 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: nalwest	Location ID: 157
Drilling Company: HydroGeoLogic	Driller: J Le Vangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4-9-12 1330		Date/Time Total Depth Reached: 4-9-12 1350
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90215 (1352)		
Geologist: M Birney		Checked By / Date: [illegible] 4-10-12		
Radiological Background: 15 / 83	Radiological Equipment Used: Micro R / ~~Downhole~~ MR3 / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological micro/pancake	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: scattered grass			
			0.0	15/73	silty sand, dark yellowish brown (10yr 3/4) 60% fine sand, 25% silt, 15% med coarse sand, semi moist, non cohesive, loose, no odor, no staining trace rootlets	SM		
0.5			0.0	16/114				
1.0							1	
					TD = 0.5' bgs no groundwater			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_158

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 158
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/12/12 1450		Date/Time Total Depth Reached: 4/12/12 1500 0.5
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Approx 8 lbs.) 90216 (1500)		
Geologist: L Robbins Goldman		Checked By / Date: Colleen Garcia 4/13/12		
Radiological Background: 11 µR/hr 74	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters		PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (µR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: rock fragments + wooden twigs			
			0.0	11/72	Sandy silt: dark yellowish brown (10YR 4/4), ~70% fine sand, 20% silt, 10% siltstone ang/sub ang gravel, moist, loose, noncohesive, trace rootlets, trace charcoal flakes	SM		
0.5			0.0	12/66				
1.0							1	
					no GW encountered			
					TD = 0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_159 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 159
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/16/12 1048		Date/Time Total Depth Reached: 4/16/12 1055
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90217 (1055)		
Geologist: LRobbins Goldman		Checked By / Date: [signature] 4-17-12		
Radiological Background: 14/78	Radiological Equipment Used: Micro R / Downhole / Pancake Meters		PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (UR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface soil, twigs			
			0.0	14/78	Silty sand: very dark brown (10YR 2/2), 75% fine sand, 25% silt, moist, noncohesive, trace rootlets, trace charcoal pieces (~10mm), very loose	SM		
0.5			0.0	14/78				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

no GW encountered

TD = 0.5' bgs

location moved due to bedrock face:

6345263.23E

1907840.52N

HGL HydroGeoLogic, Inc Exceeding Expectations

NBZ_160

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 160
Drilling Company: HGL	Driller: J LeVangio	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4-16-12 1430		Date/Time Total Depth Reached: 4-16-12 1438
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90218 (1440)		
Geologist: M Birney		Checked By / Date: [signature] 4-17-12		
Radiological Background: 15 / NA / 14	Radiological Equipment Used: Micro R / ~~Downhole~~ MR / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: thick brush			
			0.0	12/16	silty sand, strong brown (7.5yr 4/6)	SM		
0.5			0.0	120/16	60% fine sand, 25% med sand, 15% silt, loose, semi moist, non plasticity, no odor, no staining,			
1.0							1	
					T.D = 0.5' bgs			
					no groundwater			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_161

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: west	Location ID: 161
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/17/12 1137		Date/Time Total Depth Reached: 4/17/12 1152
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90219 (1145)		
Geologist: L Robbins Goldman		Checked By / Date: Cliff Knott 4/18/12		
Radiological Background: 12.5/96	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0-0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (NR/Pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: exposed soil, wooden twigs, sparse deer scat			
			0.0	13/66	Silty sand: dark brown (10YR 3/3), 60% fine sand, 40% silt, moist, trace rootlets, noncohesive, very loose, trace charcoal flakes	SM		
0.5			0.0	14/96				
1.0					NO GW encountered		1	
					TD = 0.5' bgs			
					location moved due to dense vegetation, GPS position:			
2.0					6344402.30E		2	
					1907778.17N			
3.0							3	
4.0							4	
5.0							5	
.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

NBZ_162

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: west	Location ID: 162
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/17/12 0945		Date/Time Total Depth Reached: 4/17/12 1000
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90220(0955)		
Geologist: L Robbins Goldman		Checked By / Date: [signature] 4-18-12		
Radiological Background: 13 / 92	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: exposed soil w/ sparse grass			
			0.0	13/8	Silty sand: (10YR 3/3) dark brown, 85% fine grained sand, 15% silt, very loose, noncohesive, semi-moist, mica flakes, quartz grains, trace rootlets, charcoal flakes (trace) ~2mm	SM		
0.5			0.0	14/66				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
.0							5	
0							6	

- TD = 0.5' bgs
- no GW encountered
- Location moved to avoid ~~denste~~ (La) dense vegetation & rock face; GPS position:
  6344566.06E
  1907960.19N

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_163

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 163
Drilling Company: HGL	Driller: J. M. Birney	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/11/12 1310		Date/Time Total Depth Reached: 4/11/12 1320 0.5
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Approx 8 lbs) 90221 (1320)		
Geologist: Robbins Goldman		Checked By / Date: C. Garcia 4/12/12		
Radiological Background: 13 / 87	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface = bare soil, sparse weeds			
			0.0	13/78	clayey silt w/ gravel: yellowish brown (10YR 4/4), 60% silt, 30% clay, 10% siltstone subangular gravel, moist, very soft, no odor, no staining, trace mica flakes, trace charcoal flakes	CL SM ML		
0.5			0.0	14/90				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

no GW encountered

TD = 0.5' bgs

location not moved

HGL HydroGeoLogic, Inc. Exceeding Expectations

NBZ_164

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 164
Drilling Company: HGL	Driller: M. Birney	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/16/12 1126		Date/Time Total Depth Reached: 4/16/12 1135
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90222 (1130)		
Geologist: LRobbinsGoldman		Checked By / Date: Cliff Rhudy 4-17-12		
Radiological Background: 13/41	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: grass			
			0.0	13/18	Silty Sand: dark brown (10YR 3/3), 75% fine sand, 25% silt, moist, non cohesive, very loose, trace rootlets, trace sticks	SM		
0.5			0.0	15/84				
1.0					no GW encountered		1	
					TD=0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_165

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ ~~SC~~ Group: ~~east~~ (G) (C) west	Location ID: 165
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA	Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/5/12 1105	Date/Time Total Depth Reached: 4/5/12 1115
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90223 (1115)	
Geologist: LRobbins Goldman		Checked By / Date: Will Kendall 4-6-12	
Radiological Background: 15 / 71	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: soil + scenescent weeds			
			0.0	15/78	Silty sand w/ gravel: dark brown (10YR 3/3), moist, low dense, incoherent, low plasticity, 75% fine sand, 15% silt, 10% sandstone gravel, trace rootlets	SM		
0.5			0.0	16/72				
1.0							1	
					no GW encountered			
					total depth = 0.5' bgs			
					GPS location: 6346265.148E 1908531.63N			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

NBZ_166

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: west	Location ID: 166
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/17/12 10PA		Date/Time Total Depth Reached: 4/17/12 1027
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90224 (1025)		
Geologist: LRobbins Goldman		Checked By / Date: Cliff Knott 4-18-12		
Radiological Background: 14 / 80	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (μR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: soil + twigs			
			0.0	13/96	Silty sand: dark brown (10YR 3/3), 85% fine sand, 15% silt, semi-moist, very loose, noncohesive, trace sandstone gravel (fragile), mica flakes, quartz grains, trace rootlets + charcoal flakes (<2mm)	SM		
0.5			0.0	15/84				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

TD = 0.5' bgs

no GW encountered

location moved

GPS position: 6344527.04E
1907900.84N

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_167

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: Hot	Location ID: 167
Drilling Company: HydroGeoLogic	Driller: J Le Vangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4-9-12 1409		Date/Time Total Depth Reached: 4-9-12 1414
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90235 (1418)		
Geologist: M Birney		Checked By / Date: Cliff Knight 4-10-12		
Radiological Background: 15 / 84	Radiological Equipment Used: Micro R / ~~Downhole~~ MB / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	micro/pancake	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
						Surface: Small grasses			
			0.0	15/96		Silty sand, brown (7.5yr 4/3) 60% fine sand 25% coarse, 15% silt, med dense, semi moist, rootlets, charcoal flakes, non cohesive, no odor, no staining	SM		
0.5			0.0	94/84					
1.0						TD = 0.5' bgs no ground water		1	
2.0								2	
3.0								3	
4.0								4	
5.0								5	
6.0								6	

NBZ_168

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: WOT	Location ID: 168
Drilling Company: HGL	Driller: J Le Vang, IO	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4-11-12 0927		Date/Time Total Depth Reached: 4-11-12 0932
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90226 (0935) 90258 (NA)		
Geologist: M Birney		Checked By / Date: C Marcia 4/12/12		
Radiological Background: 12 / 85	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: scattered grass			
			0.0	12/12	poorly graded sand 60% fine sand, 30% coarse sand, 10% silt, dark yellowish brown (10yr 3/6), ~~dry~~ mB, non cohesive, mica flakes, trace rootlets, ~~non~~ mB no odor, no staining loose, moist	SP		
0.5			0.0	12/12				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

TD = 0.5' bgs
no groundwater

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_169

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: NBZ-169
Drilling Company: HydroGeoLogic, Inc.	Driller: P. Birney	Ground Elevation: NA	Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: NA	Date/Time Drilling Started: 0850	Date/Time Total Depth Reached: 4/3/2012 / 0905
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90227 (0910)	
Geologist: C. Garcia		Checked By / Date: [illegible] 4/5/12	
Radiological Background: NA 2691 / 34	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 3000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological ~~Pancake~~ Downhole	Description (Include lithology, grain size, sorting, angularity, Munsell color name & [illegible]ation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	360 / 3750	Surface: Sage Plant, Grassy			
0.5			1.6	Cde / 5500	Silty Sand; Dark Brown; (7.5YR/3/3) Loose; non-cohesive; non-plastic; No odor or staining Dry; 60% fine sand 5% coarse sand 15% med sand 15% silt	SM		
1.0							1	
					Total Depth 0.5 ft No groundwater encountered.			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_170

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 170
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/20/12 1038		Date/Time Total Depth Reached: 4/20/12 1059
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90228(1045)		
Geologist: LRobbins Goldman		Checked By / Date: Cliff Thurby 4/23/12		
Radiological Background: 13 / 62	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: wooden sticks, grass (green + senscent)			
0.5			0.0	13/16	Silty sand: dark yellowish brown (10YR 3/4), 75% fine sand, 25% silt, dry, very loose, noncohesive, trace rootlets, mica flakes, trace med sand.	SM		
			0.0	15/126				
1.0							1	
					no GW encountered			
					TD=0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

NBZ_171

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 171
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/20/12 1305		Date/Time Total Depth Reached: 4/20/12 1315
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90229 (1315)		
Geologist: LRobbins Goldman		Checked By / Date: [signature] 4/23/12		
Radiological Background: 14/64	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	143/96	Silty sand: very dark grayish brown (10YR 3/2), 65% fine sand, 35% silt, dry, very loose, non-cohesive, no odor or staining, trace rootlets	SM		
0.5			0.1	155/90				
1.0					no GW encountered		1	
					TD = 0.5' bgs			
					location moved ~25'			
					due to steep terrain			
2.0					GPS position: 6345801.67E		2	
					1908017.26N			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_172

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 172
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/12/12 1415		Date/Time Total Depth Reached: 4/12/12 1425 05
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 98230 (1425)		
Geologist: L Robbins Goldman		Checked By / Date: Colleen Garcia 4/13/12		
Radiological Background: 13 / 66	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (DR / Pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	13/90	Silty sand: dark olive brown (2.5Y 3/3) 80% fine sand, 20% silt, moist, no odor or staining, loose, noncohesive, trace rootlets & charcoal flakes.	SM		
0.5			0.0	14/54				
1.0							1	
					TD=0.5' bgs no GW encountered location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

NBZ_173

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: WGT	Location ID: 173
Drilling Company: HGL	Driller: J Le Vangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4-16-12 1507		Date/Time Total Depth Reached: 4-16-12 1520
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90231 (1523) 90259 (NA)		
Geologist: M Birney		Checked By / Date: [signature] 4-17-12		
Radiological Background: 13 / NA / 52	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological micro R / pancake	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: tall grass			
			0.0	13/54	silty Sand, very dark gray (7.5yr 3/1)	SM		
0.5			0.0	13/NA	65% fine sand, 35% silt, loose, semi moist, charcoal present, trace rootlets, mica flakes, no odor, no staining, non cohesive,			
1.0							1	
					TD = 0.5' bgs			
					no groundwater encountered			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_174

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 174
Drilling Company: HydroGeoLogic	Driller: J Le Vangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4-9-12 1435		Date/Time Total Depth Reached: 4-9-12 1445
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90232 (1448)		
Geologist: M Birney		Checked By / Date: [signature] 4-10-12		
Radiological Background: 15 / 60	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological micro/pancake mB	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: scattered grass + stumps			
			0.0	15/72	Silty sand			
0.5			0.0	15/54	65% fine sand, 25% silt, 10% med sand, med dense, siltstone ~~pebbles~~ chst, non cohesive, semi moist, rootlets, no odor no staining	SM		
1.0							1	
					TD 0.5' bgs			
					no groundwater			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_175

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~NA~~ (16) ~~east~~ west	Location ID: 175
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA 4/5/12 (CR)		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: ~~4/4/12~~ 0950		Date/Time Total Depth Reached: ~~4/4/12~~ 1000 4/5/12 (CR)
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90233 (1000)		
Geologist: L Robbins Goldman		Checked By / Date: [illegible] 4-5-12		
Radiological Background: 16/63	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (pancake/uR)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: dense grass			
			0.0	84/15	Silty sand: dark brown (10YR 3/3), 75% fine sand, 25% silt, moist, low dense, low plasticity, no odor or staining, trace rootlets, trace quartz grains, noncohesive	SM		
0.5			0.0	96/15				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

no GW encountered

TD = 0.5' bgs

location ~~NAV~~ (16) "eyeballed" ~~to~~ (2) due to loss of southern satellites

N 1909022.09

E 6346 91.54

location is 15' SE of gps point above

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_176

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 176
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/11/12 BSS		Date/Time Total Depth Reached: 4/11/12 1345
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs) 90234 (1345)		
Geologist: LRobbins Goldman		Checked By / Date: C Garcia 4/12/12		
Radiological Background: 15 / 5	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (surf/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface = sparse grass + soil			
			0.0	15/60	Clayey Silt w/ gravel: yellowish brown (10YR 4/4), 60% silt, 20% clay, 20% siltstone angular gravel moist, very soft, no odor or staining, trace mica flakes, trace charcoal flakes	SM ML		
0.5			0.0	17/144				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

NO GW encountered

TD = 0.5' bgs

location not moved

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_177

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: 5C (16) NBZ	Group: West	Location ID: ~~176~~ 177 (19)
Drilling Company: HydroGeoLogic	Driller: M. Birney	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/10/12 1501		Date/Time Total Depth Reached: 4/10/12 1510
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90235 (1510)		
Geologist: LRGoldman		Checked By / Date: [signature] 4-11-12		
Radiological Background: 13 / 79	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (UR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: bare soil + Wood twigs			
			0.0	13/78	Silty sand: dark yellowish brown (10YR 4/4), 75% fine sand, 25% silt, moist, no odor or staining, trace rootlets, trace charcoal flakes	SM		
0.5			0.0	14/96				
1.0							1	
					no GW encountered			
					TD = 0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

NBZ_178

HGL HydraGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 178
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/19/12 1445		Date/Time Total Depth Reached: 4/19/12 1458
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90236(1555)		
Geologist: LRGoldman		Checked By / Date: Chris Knuth 4/20/12		
Radiological Background: 13/79	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological ~~Micro R~~/Pancake	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					leaf litter, grass, exposed soil (surface)			
			0.0	13/84	Silty sand: dark yellowish brown (10YR 3/3), 60% fine sand, 40% silt, noncohesive, very loose, dry, mica flakes, trace rootlets, leaf, + bark litter (trace)	SM		
0.5			0.0	14/90				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

no GW encountered

TD = 0.5' bgs

location moved:

6345548.68E

1908032.40N

HGL HydroGeoLogic, Inc Exceeding Expectations

NBZ_179

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 179
Drilling Company: HGL	Driller: C. Knight	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/19/12 1050		Date/Time Total Depth Reached: ~~4/18/12~~ 4/19/12 1106
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90237 (1100)		
Geologist: L Robbins Goldman		Checked By / Date: Chris Thompson 4-20-12		
Radiological Background: 14/63	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/ Pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: exposed soil, leaf litter, wooden twigs			
			0.0	14/12	Silty sand: dark brown (10YR 3/3), dry, noncohesive, very loose, mica flakes, trace rootlets, leaf litter + sticks, 85% fine sand, 15% silt	SM		
0.5			0.0	17/108				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

TD = 0.5' bgs

no GW encountered

location not moved

HGL HydroGeoLogic, Inc Exceeding Expectations

NBZ_180

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 180
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/13/12 0932		Date/Time Total Depth Reached: 4/13/12 0948
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90238 (0940)		
Geologist: LRobbins Goldman		Checked By / Date: Cliff Knuffke 4/17/12		
Radiological Background: 13/79	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (UR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: exposed soil			
			0.0	125/72	Silty sand: dark brown (10YR 3/3), 70% fine sand, 15% med sand, 15% silt, wet, no odor or staining, noncohesive, trace rootlets, trace charcoal flakes	SM		
0.5			0.0	13.5/60				
1.0					no GW encountered TD=0.5' bgs		1	
2.0					* location moved ~50' SW due to steep terrain & wet conditions GPS coordinates: 6345059.55E 1908087.50N		2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_181

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~east~~ (W) West	Location ID: 181
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/4/12 1405		Date/Time Total Depth Reached: 4/4/12 1410
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90239 (1410)		
Geologist: LRGoldman		Checked By / Date: ~~JRY 4/4/12~~ (B) 4/6/12		
Radiological Background: 14 / 82	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: grass			
			0.0	14/72	Silty sand: dark brown (10YR 3/3), 65% fine sand, 35% silt, moist, low dense, low plasticity, no odor or staining, trace rootlets + charcoal flakes	SM		
0.5			0.0	14/84				
1.0					no GW encountered		1	
					location not moved			
					TD = 0.5' bgs			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_182

Sheet 1 of

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 182
Drilling Company: HGL	Driller: J Le Vangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4-11-12 1026		Date/Time Total Depth Reached: 4-11-12 1034 0.5
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90240 (1035)		
Geologist: M Birney		Checked By / Date: [signature] 4/12/12		
Radiological Background: 11 / 102	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological micro/pancake	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: scattered grass + small bushes			
			0.5	12/103	silty sand, very dark brown (10yr 2/2)	SM		
0.5			0.1	12/84	moist, 60% fine sand, 25% silt, 15% med sand, trace rootlets, non cohesive, loose, no odor, no staining			
1.0							1	
					TD 0.5' bgs			
					no groundwater			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

NBZ_183

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 183
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/13/12 1035		Date/Time Total Depth Reached: 4/13/12 1048
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90241 (1045)		
Geologist: L Robbins Goldman		Checked By / Date: [signature] 4/17/12		
Radiological Background: 14/80	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (ut/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: exposed soil + sparse rocks			
			0.0	14/84	silty sand: very dark brown (10YR 2/2), 70% fine sand, 15% med sand, 15% silt, wet, non-cohesive, no odor or staining, trace rootlets	SM		
0.5			0.0	16/72				
1.0					TD = 0.5' bgs		1	
					no GW encountered			
					* location moved 50' SW due to dense vegetation, steep cliff + wet weather conditions.			
2.0					GPS coordinates: 6345061.30E 1908220.08N		2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

NBZ_184

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 184
Drilling Company: HGL	Driller: J. LeVange	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/19/12 0948		Date/Time Total Depth Reached: 4/19/12 1001
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90242(0955)		
Geologist: L Robbins Goldman		Checked By / Date: Cliff Knight 4-20-12		
Radiological Background: 13/49	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (µR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: exposed soil + wooden twigs			
			0.0	13/12	Silty sand w/ native gravel: very dark brown (10YR 2/2), 65% fine sand, 20% silt, 15% sandstone gravel, noncohesive, very loose, trace rootlets, + trace leaf litter, mica flakes	SM		
0.5			0.0	15/96				
1.0							1	
					no GW encountered			
					TD = 0.5' bgs			
					location moved due to dense downfalled trees & brush			
2.0							2	
					EPS position: 6345410.87E 1908283.70			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_185 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~NA~~ West	Location ID: 185
Drilling Company: HydroGeoLogic	Driller: J. LeVanque	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/9/12 1038		Date/Time Total Depth Reached: 4/9/12 (1048)
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90243 (1050)		
Geologist: K Goldman		Checked By / Date: Cliff Knuffke 4-10-12		
Radiological Background: 15 / 78	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: soil, dense grass, senscent			
			0.0	14/72	~~Sandy silt~~ silty sand w/ clay: dark brown (10YR 3/3), 65% fine sand, 20% med. sand, 15% 10% clay, 10% silt, moist, low plasticity, low dense, no odor or staining, rootlets (trace)	SM		
0.5			00	14/102				
1.0					no GW encountered TD = 0.5' bgs location not moved		1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_186 Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~NCIA~~ west	Location ID: 186
Drilling Company: HydroGeoLogic	Driller: J-LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/10/12 1025		Date/Time Total Depth Reached: 4/10/12 1035
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90244 (1035)		
Geologist: LRobbins Goldman		Checked By / Date: [illegible] 4-11-12		
Radiological Background: 13/3203/56	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: grass + soil			
			0.0	14/66	Silty sand: dark brown (10YR 3/3), 75% fine sand, 25% silt, moist, noncohesive, no odor or staining, low dense	SM		
0.5			0.0	13/84				
1.0					total depth 0.5' bgs		1	
					no GW encountered			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_187 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ (16) West ~~5C~~	Group: ~~East~~	Location ID: 187
Drilling Company: HydroGeoLogic	Driller: J. Lelangie	Ground Elevation: NA	Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/4/12 1335	Date/Time Total Depth Reached: 4/4/12 1345
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90245 (1345)	
Geologist: L Robbins Goldman		Checked By / Date: 4/6/12	
Radiological Background: 13.5/79	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface = soil + grass			
			0.0	145/18	silty sand: dark brown (10YR 3/3), moist, low dense, non cohesive, low plasticity, ~~80%~~ 65% fine sand, 35% silt, no odor or staining, trace rootlets	SM		
0.5			0.0	14/12				
1.0					no GW encountered		1	
					location unmoved			
					TD = 0.5' bgs			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_188 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~NAC~~ West (19)	Location ID: 188
Drilling Company: HydroGeoLogic	Driller: M. Birney	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/10/12 1437		Date/Time Total Depth Reached: 4/10/12 1450
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90246 (1450)		
Geologist: LRGoldman		Checked By / Date: [illegible] 4-11-12		
Radiological Background: 14 / 66	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	14/84	silt w/ sand: dark yellowish brown (10YR 3/4), 75% silt, 25% fine sand, dry, low plasticity, no odor or staining, trace rootlets, mica flakes	ML		
0.5			0.3	14/54				
1.0							1	
					no GW encountered TD = 0.5' bgs			
2.0							2	
					location not moved			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

NBZ_189

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 189
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/18/12 1100		Date/Time Total Depth Reached: 4/18/12 1118
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90247 (1110)		
Geologist: Robbins Goldman		Checked By / Date: [signature] 4/19/12		
Radiological Background: 125 / 75	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/Pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: grass			
			0.0	125/78	Silty sand: very dark brown (10YR 2/2), 60% fine sand, 40% silt, dry, noncohesive, very loose, trace rootlets, trace charcoal, mica flakes	SM		
0.5			0.0	14/60				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

TD = 0.5' bgs

NO GW encountered

location moved due to nesting birds

GPS: 6344473.09E

1907139.77N

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_190 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: 5C (16 west) NBZ	Group: east	Location ID: 190
Drilling Company: HydroGeoLogic	Driller: J. Levangie	Ground Elevation: (16) NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/5/12 915		Date/Time Total Depth Reached: 4/5/12 925
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90248 (925)		
Geologist: L Robbins Goldman		Checked By / Date: Will Kingfet 4-6-12		
Radiological Background: 14/56	Radiological Equipment Used: Micro R / ~~Downhole /~~ Pancake Meters		PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: soil + scenescent grass			
			0.0	14/108	Silty sand: dark brown (7.5YR 3/2), 75% fine sand, 25% silt, moist, non cohesive, low plasticity, low dense, no odor or staining, trace rootlets	SM		
0.5			0.0	15/66				
1.0					NO GW encountered		1	
					TD = 0.5' bgs			
					location moved:			
2.0					GPS 6346959.65 E		2	
					1909251.31 N			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_191

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 191
Drilling Company: HGL	Driller:	Ground Elevation: NA		Total Depth Drilled: 0 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started:		Date/Time Total Depth Reached:
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Approx. 8 lbs.)		90250 (n/a)
Geologist: L Robbins Goldman		Checked By / Date: Julie Ann Robbins Goldman 4/23/12		
Radiological Background:	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background:		ppm

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
0.5					no sample collected, location is very close to Red Tail Hawk nest. Location not reassigned			
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

LRG 4/23/12

NBZ_192

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~ng~~ west (G)	Location ID: ~~191~~ 192 (G)
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/9/12 1105		Date/Time Total Depth Reached: 4/9/12 (1113)
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90249 (1115)		
Geologist: LRGoldman		Checked By / Date: [signature] 4-10-12		
Radiological Background: 13.5 µR/86 cpm	Radiological Equipment Used: Micro R / ~~Downhole~~ (NA) / Pancake Meters		PID Used: Mini Rae 2000 - Background: 0.0 ppm	

Depth (ft bgs)	Interval	Recovery	PID	Radiological (µR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: sparse weeds, exposed soil			
			0.0	13/84	Silty sand w/ gravel: yellowish brown (10YR 5/4), 65% fine sand, 15% med sand, 10% silt, 10% Subangular siltstone gravel, dry, loose (G), med. dense, non plastic, no odor or staining, trace rootlets + sticks	SM		
0.5			0.0	14.5/90				
1.0							1	
					no GW encountered			
					TD=0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_193

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 193
Drilling Company: HGL	Driller: C. Knight	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/19/12 1130		Date/Time Total Depth Reached: 4/19/12
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90149 (1140)		
Geologist: L Robbins Goldman		Checked By / Date: [signature] 4-20-12		
Radiological Background: 14/30	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface:			
			0.0	14/108	Silty sand: 75% fine sand, 25% silt, very dark brown (10YR 2/2), dry, noncohesive, very loose, trace rootlets, mica flakes	SM		
0.5			0.0	15/102				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

TD = 0.5' bgs

no GW encountered

location ~~not moved~~ (16) moved due to poison oak saplings

GPS position: 6345936.78 E
1908406.60 N

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_194

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~NA~~ (10) east	Location ID: 194 (old location 106)
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/2/12 1423		Date/Time Total Depth Reached: 4/2/12 1428
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90164 (1430)		
Geologist: LRGoldman		Checked By / Date: Cliff Knight 4/4/12		
Radiological Background: 12/65	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable) AF=artificial fill	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface = soil, grass + wood chips (~1")			
			0.0	12/70	Silty sand: dark brown (10YR 3/3), 65% fine sand, 35% silt, moist, low dense, low plasticity, no odor or staining, slightly cohesive, trace rootlets, trace debris: rubber flake ~~(<1mm)~~ (a) (<5mm), glass piece (~25mm), charcoal pieces ~~(10mm-20mm)~~ (a) (1mm-2mm)	AF/SM		
0.5			0.0	13/66				
1.0							1	
					no GW encountered not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

8

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_195

Sheet __ of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 195 (old location #117)
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/26/12 1531		Date/Time Total Depth Reached: 3/26/12 1537
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90175 (1540)		
Geologist: L Robbins Goldman		Checked By / Date: [illegible] 3-28-12		
Radiological Background: 14 / 84	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (NR / pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	14/96	Silty sand: dark yellowish brown (10YR 3/6), 70% fine sand, 20% silt, 10% clay, moist, cohesive, no odor or staining, charcoal flakes, trace rootlets, med. dense	SM		
0.5			0.0	14/60				
1.0					total depth = 0.5' no groundwater encountered		1	
2.0							2	
3.0					GPS location: 6350129.24E 1910058.59N		3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_196 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: ~~NA~~ 16 east	Location ID: 196 (old location #125)
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: ~~3/26/12 1130~~ 16		Date/Time Total Depth Reached: 3/26/12 1135
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90183 (1138)		
Geologist: LR Goldman		Checked By / Date: [illegible] 3-28-12		
Radiological Background: 14 / 84	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR / pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	14/60	Silty sand: dark yellowish brown (10YR 3/6), 85% fine to med sand, 15% silt, moist, no odor or staining, cohesive, no plasticity, abundant rootlets, potato bug; med. dense	SM		
0.5			0.0	14/60				
1.0					total depth = 0.5' bgs no groundwater encountered		1	
2.0					GPS location: 6350057.76E 1910541.41N		2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

NBZ_197 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: east	Location ID: 197
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 3/29/12 1340		Date/Time Total Depth Reached: 3/29/12 1350
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90186 (1355)		
Geologist: LR Goldman		Checked By / Date: Chris Knight 4-2-12		
Radiological Background: 13 / 87	Radiological Equipment Used: Micro R / Downhole / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
			0.0	13/100	Silty sand: dark brown (10YR 3/3), moist, low dense, no odor or staining, cohesive, low plasticity, trace rootlets, & trace charcoal flakes, 35% silt, 10% med. sand, 55% fine sand	SM		
0.5			0.0	15/90				
1.0					no GW encountered		1	
					TD = 0.5'			
2.0							2	
					GPS location: 6350138.30E 1910138.16N			
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

NBZ_198 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: ~~5C~~ NBZ (16)	Group: east	Location ID: 198
Drilling Company: HydroGeoLogic	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/shovel	Borehole Diameter: NA	Date/Time Drilling Started: 4/3/12 1515		Date/Time Total Depth Reached: 4/3/12 1525
Type of Sampling Device: Trowel/shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90200 (1525)		
Geologist: LRGoldman		Checked By / Date: [illegible] 4/4/12		
Radiological Background: 15/83	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface twigs, sparse grass, soil, charred sticks			
			0.0	15/72	Silty sand: dark yellowish brown (10YR 3/4), 80% fine sand, 20% silt, moist, cohesive, low dense, low plasticity, trace rootlets, trace charcoal flakes, mica flakes, quartz grains, no odor or staining.	SM		
0.5			0.0	16/78				
1.0					trace siltstone cobble (~20mm)		1	
					total depth = 0.5'			
					no GW encountered			
					location GPS'd: 6348948.03 E 1910015.64 N			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

HGL HydroGeoLogic, Inc Exceeding Expectations

NBZ_199

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: #99 (old location #98)
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/23/12 0930		Date/Time Total Depth Reached: 4/23/12 0943
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90156 (0940)		
Geologist: L Robbins Goldman		Checked By / Date: [illegible] 4-23-12		
Radiological Background: 12.5/87	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (μR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: exposed soil + sparse grass			
			0.0	12.5/87 (13/78)	Silty Sand: dark yellowish brown (10YR 4/6), 80% fine sand, 20% silt, moist, noncohesive, no odor or staining, mica flakes, very loose	SM		
0.5			0.0	13.5/84				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

no GW encountered

TD = 0.5' bgs

location not moved

NBZ_200

3/3

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 200 (old location #132)
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/23/12 1022		Date/Time Total Depth Reached: 4/23/12 1038
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90190 (1035)		
Geologist: Robbins Goldman		Checked By / Date: [illegible] 4-23-12		
Radiological Background: 13 / 72	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: dense grass + soil			
			0.0	13/18	silty sand: dark brown (10YR 3/3), 60% fine sand, 30% silt, 10% med sand, moist, noncohesive, very loose, no odor or staining, trace rootlets, trace charcoal flakes	SM		
0.5			0.0	13.5/66				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

no GW encountered

TD=0.5' bgs

location not moved

NBZ_201

HGL HydroGeoLogic, Inc Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: NBH	Location ID: 201 (old location 137)
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/23/12 1058		Date/Time Total Depth Reached: 4/23/12 1110
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.)		90195 (1105) / Dup 90263 (n/a)
Geologist: L Robbins Goldman		Checked By / Date: [illegible] 4-23-12		
Radiological Background: 13/88	Radiological Equipment Used: Micro R / ~~Downhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (uR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					Surface: leaf litter, exposed soil			
			0.0	13/84	Sandy silt: dark brown (7.5YR 3/4), 65% silt, 35% fine sand, moist, soft, no odor or staining, trace rootlets + leaves	SM (ML)		
0.5			0.0	14.5/96				
1.0							1	
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

no GW encountered
TD = 0.5' bgs
location not moved

NBZ_202

HGL HydroGeoLogic, Inc. Exceeding Expectations

SSFL BORING LOG

Sheet 1 of 1

Project Name: SSFL Area IV Radiological Study	Project Number: EP038.01.22.04.03	Subarea: NBZ	Group: West	Location ID: 202 (old location 153)
Drilling Company: HGL	Driller: J. LeVangie	Ground Elevation: NA		Total Depth Drilled: 0.5 ft bgs.
Drilling Equipment: Trowel/Shovel	Borehole Diameter: N/A	Date/Time Drilling Started: 4/20/12 0955		Date/Time Total Depth Reached: 4/20/12 1008
Type of Sampling Device: Trowel/Shovel		Samples Collected: One 1/2 Gallon Bag (Appox 8 lbs.) 90211 (1005)		
Geologist: L Robbins Goldman		Checked By / Date: 4/23/12		
Radiological Background: 12 / 104	Radiological Equipment Used: Micro R / ~~Dowhole~~ / Pancake Meters	PID Used: Mini Rae 2000 - Background: 0.0 ppm		

Depth (ft bgs)	Interval	Recovery	PID	Radiological (MR/pancake)	Description (Include lithology, grain size, sorting, angularity, Munsell color name & notation, minerology, bedding, plasticity, density, consistency, etc., as applicable)	USCS Symbol	Feet bgs.	Borehole Gamma Readings (CPM)
					surface: wooden twigs, sparse weeds			
			0.0	10/90	~~poorly graded sand w/ silt and gravel~~ ~~silty sand w/ gravel~~ dark yellowish brown (10YR 4/4), 70% fine sand, 10% med sand, 10% native sandstone gravel, 10% silt, very loose, non-cohesive, trace rootlets, dry	SM (G)		
0.5			0.0	13/84		SP		
1.0							1	
					no GW encountered			
					TD = 0.5' bgs			
					location not moved			
2.0							2	
3.0							3	
4.0							4	
5.0							5	
6.0							6	

Appendix F
Chain of Custodies

SAMPLE DELIVERY GROUP

12C096

12C096

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								COR	SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-002-NBZ-SB-4.0-5.0	3.12.2012	1130	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-002-NBZ-SB-4.0-5.0	3.12.2012	1130	SOIL	NONE	1-4 oz Jar														X	X	
2	SL-002-NBZ-SB-4.5	3.12.2012	1135	SOIL	NONE	3-Encores									X							
3	SL-002-NBZ-SB-7.5-8.5	3.12.2012	1140	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-002-NBZ-SB-7.5-8.5	3.12.2012	1140	SOIL	NONE	1-4 oz Jar														X	X	
4	SL-002-NBZ-SB-8.0	3.12.2012	1145	SOIL	NONE	3-Encores									X							
5	SL-003-NBZ-SB-4.0-5.0	3.12.2012	0950	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-003-NBZ-SB-4.0-5.0	3.12.2012	0950	SOIL	NONE	1-4 oz Jar														X	X	
6	SL-003-NBZ-SB-4.5	3.12.2012	0945	SOIL	NONE	3-Encores									X							
7	SL-007-NBZ-SB-4.0-5.0	3.12.2012	1550	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-007-NBZ-SB-4.0-5.0	3.12.2012	1550	SOIL	NONE	1-4 oz Jar														X	X	
8	SL-007-NBZ-SB-4.5	3.12.2012	1545	SOIL	NONE	3-Encores									X							
9	SL-007-NBZ-SB-9.0-10.0	3.12.2012	1600	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-007-NBZ-SB-9.0-10.0	3.12.2012	1600	SOIL	NONE	1-4 oz Jar														X	X	
10	SL-007-NBZ-SB-9.5	3.12.2012	1555	SOIL	NONE	3-Encores									X							
11	SL-010-NBZ-SB-4.0-5.0	3.12.2012	1425	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-010-NBZ-SB-4.0-5.0	3.12.2012	1425	SOIL	NONE	1-4 oz Jar														X	X	
12	SL-010-NBZ-SB-4.5	3.12.2012	1430	SOIL	NONE	3-Encores									X							
13	TB-031212	3.12.2012	0800	WATER	HCL	3-mL Vials									X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/12/2012/ 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	3/12/12 1810	NA	

T=4.8°C

NBZ Subsurface

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
14	SL-002-NBZ-SS-0.0-0.5	3.12.2012	1115	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-002-NBZ-SS-0.0-0.5	3.12.2012	1115	SOIL	NONE	1-4 oz Jar															X	X	
	SL-002-NBZ-SS-0.0-0.5	3.12.2012	1115	SOIL	NONE	1-SS Sleeve			X	X													
15	SL-003-NBZ-SS-0.0-0.5	3.12.2012	0850	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-003-NBZ-SS-0.0-0.5	3.12.2012	0850	SOIL	NONE	1-4 oz Jar															X	X	
	SL-003-NBZ-SS-0.0-0.5	3.12.2012	0850	SOIL	NONE	1-SS Sleeve			X	X													

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/12/2012/ 1630	aRamulus	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ Surface

SAMPLE DELIVERY GROUP

12C106

12C106

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
1	SL-005-NBZ-SB-4.5	3.13.12	1030	SOIL	NONE	3-Encores											X							
2	SL-005-NBZ-SB-4.0-5.0	3.13.12	1025	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X					X	X	X	X			
	SL-005-NBZ-SB-4.0-5.0	3.13.12	1025	SOIL	NONE	1-4 oz Jar																X	X	
3	SL-006-NBZ-SB-3.5	3.13.12	0905	SOIL	NONE	3-Encores											X							
4	SL-006-NBZ-SB-3.0-4.0	3.13.12	0900	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X					X	X	X	X			
	SL-006-NBZ-SB-3.0-4.0	3.13.12	0900	SOIL	NONE	1-4 oz Jar																X	X	
5	**SL-015-NBZ-SS-0.0-0.5**	3.13.12	1130	SOIL	NONE	1-SS Sleeve			X	X														
	SL-015-NBZ-SS-0.0-0.5	3.13.12	1130	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X								
	SL-015-NBZ-SS-0.0-0.5	3.13.12	1130	SOIL	NONE	1-4 oz Jar																X	X	
6	**SL-019-NBZ-SS-0.0-0.5**	3.13.12	1350	SOIL	NONE	1-SS Sleeve			X	X														
	SL-019-NBZ-SS-0.0-0.5	3.13.12	1350	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X								
	SL-019-NBZ-SS-0.0-0.5	3.13.12	1350	SOIL	NONE	1-4 oz Jar																X	X	
7	SL-019-NBZ-SB-3.5	3.13.12	1435	SOIL	NONE	3-Encores											X							
8	SL-019-NBZ-SB-3.0-4.0	3.13.12	1440	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X					X	X	X	X			
	SL-019-NBZ-SB-3.0-4.0	3.13.12	1440	SOIL	NONE	1-4 oz Jar																X	X	
9	**SL-021-NBZ-SS-0.0-0.5**	3.13.12	1530	SOIL	NONE	1-SS Sleeve			X	X														
	SL-021-NBZ-SS-0.0-0.5	3.13.12	1530	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X								
	SL-021-NBZ-SS-0.0-0.5	3.13.12	1530	SOIL	NONE	1-4 oz Jar																X	X	
10	SL-021-NBZ-SB-4.5	3.13.12	1550	SOIL	NONE	3-Encores											X							
11	SL-021-NBZ-SB-4.0-5.0	3.13.12	1545	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X					X	X	X	X			
	SL-021-NBZ-SB-4.0-5.0	3.13.12	1545	SOIL	NONE	1-4 oz Jar																X	X	
12	TB-031312	3.13.2012	0800	WATER	HCL	3-mL Vials											X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/13/2012/ 1630	3/13/12 1815	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

T=3.2°C

SAMPLE DELIVERY GROUP

12C121

COM 1101

12 C121

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-022-NBZ-SS-0.0-0.5	3.14.12	0903	SOIL	NONE	1-SS Sleeve			X	X													
	SL-022-NBZ-SS-0.0-0.5	3.14.12	0903	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-022-NBZ-SS-0.0-0.5	3.14.12	0903	SOIL	NONE	1-4 oz Jar															X	X	
2	SL-023-NBZ-SS-0.0-0.5	3.14.12	1138	SOIL	NONE	1-SS Sleeve			X	X													
	SL-023-NBZ-SS-0.0-0.5	3.14.12	1138	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-023-NBZ-SS-0.0-0.5	3.14.12	1138	SOIL	NONE	1-4 oz Jar															X	X	
3	SL-024-NBZ-SS-0.0-0.5	3.14.12	1050	SOIL	NONE	1-SS Sleeve			X	X													
	SL-024-NBZ-SS-0.0-0.5	3.14.12	1050	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-024-NBZ-SS-0.0-0.5	3.14.12	1050	SOIL	NONE	1-4 oz Jar															X	X	
4	SL-030-NBZ-SS-0.0-0.5	3.14.12	1500	SOIL	NONE	1-SS Sleeve			X	X													
	SL-030-NBZ-SS-0.0-0.5	3.14.12	1500	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-030-NBZ-SS-0.0-0.5	3.14.12	1500	SOIL	NONE	1-4 oz Jar															X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/14/2012/ 1630	3/14/12 1825	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

T=3.3°C

01

NBZ Surface

12 C 121

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
							PRIMARY ANALYSES								COR	SECONDARY ANALYSES						
5	SL-022-NBZ-SB-4.5	3.14.2012	1015	SOIL	NONE	3-Encores									X							
6	SL-022-NBZ-SB-4.0-5.0	3.14.2012	1010	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X	X		X	X	X	X			
	SL-022-NBZ-SB-4.0-5.0	3.14.2012	1010	SOIL	NONE	1-4 oz Jar														X	X	
7	SL-022-NBZ-SB-9.5	3.14.2012	1025	SOIL	NONE	3-Encores									X							
8	SL-022-NBZ-SB-9.0-10.0	3.14.2012	1020	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X	X		X	X	X	X			
	SL-022-NBZ-SB-9.0-10.0	3.14.2012	1020	SOIL	NONE	1-4 oz Jar														X	X	
9	SL-023-NBZ-SB-4.5	3.14.2012	1248	SOIL	NONE	3-Encores									X							
10	SL-023-NBZ-SB-4.0-5.0	3.14.2012	1245	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X	X		X	X	X	X			
	SL-023-NBZ-SB-4.0-5.0	3.14.2012	1245	SOIL	NONE	1-4 oz Jar														X	X	
11	SL-023-NBZ-SB-9.0	3.14.2012	1250	SOIL	NONE	3-Encores									X							
12	SL-023-NBZ-SB-8.5-9.5	3.14.2012	1255	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X	X		X	X	X	X			
	SL-023-NBZ-SB-8.5-9.5	3.14.2012	1255	SOIL	NONE	1-4 oz Jar														X	X	
13	TB-031412	3.14.2012	0800	WATER	HCL	3-mL Vials									X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/14/2012/ 1630	3/14/12 1825	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

T = 3.3°C

NBZ Subsurface

SAMPLE DELIVERY GROUP

12C135

12C135

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures: [illegible]

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
1	EB-NBZ-SB-031512	03.15.12	1500	WATER	NONE	7-1 liter ambers			X	X								X		X				
1	EB-NBZ-SB-031512	03.15.12	1500	WATER	NONE	1-500 mL poly		X			X	X	X						X					
1	EB-NBZ-SB-031512	03.15.12	1500	WATER	HNO3	1-250 mL poly	X																	
1	EB-NBZ-SB-031512	03.15.12	1500	WATER	NaOH	1-250 mL poly															X			
1	EB-NBZ-SB-031512	03.15.12	1500	WATER	HCl	2-40 mL vials											X							
1	EB-NBZ-SB-031512	03.15.12	1500	WATER	None	6- 40 mL vials																X	X	
2	EB-NBZ-SS-031512	03.15.12	1430	WATER	NONE	9-1 liter ambers			X	X					X	X		X		X				
2	EB-NBZ-SS-031512	03.15.12	1430	WATER	NONE	1-500 mL poly		X			X	X	X						X					
2	EB-NBZ-SS-031512	03.15.12	1430	WATER	HNO3	1-250 mL poly	X																	
2	EB-NBZ-SS-031512	03.15.12	1430	WATER	NaOH	1-250 mL poly															X			
2	EB-NBZ-SS-031512	03.15.12	1430	WATER	HCl	2-40 mL vials																		
2	EB-NBZ-SS-031512	03.15.12	1430	WATER	None	6- 40 mL vials																X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
[illegible]	03/15/2012/ 1630	[illegible] 3/16/12 0730	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

Temp = 4.2°C
= 4.1°C

NBZ EB

CHAIN OF CUSTODY RECORD

12C135

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
	SL-029-NBZ-SS-0.0-0.5	3.15.12	0900	SOIL	NONE	1-SS Sleeve			X	X													
3	SL-029-NBZ-SS-0.0-0.5	3.15.12	0900	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-029-NBZ-SS-0.0-0.5	3.15.12	0900	SOIL	NONE	1-4 oz Jar															X	X	
	SL-052-NBZ-SS-0.0-0.5	3.15.12	1205	SOIL	NONE	1-SS Sleeve			X	X													
4	SL-052-NBZ-SS-0.0-0.5	3.15.12	1205	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-052-NBZ-SS-0.0-0.5	3.15.12	1205	SOIL	NONE	1-4 oz Jar															X	X	
	SL-053-NBZ-SS-0.0-0.5	3.15.12	1420	SOIL	NONE	1-SS Sleeve			X	X													
5	SL-053-NBZ-SS-0.0-0.5	3.15.12	1420	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-053-NBZ-SS-0.0-0.5	3.15.12	1420	SOIL	NONE	1-4 oz Jar															X	X	
	SL-056-NBZ-SS-0.0-0.5	3.15.12	1535	SOIL	NONE	1-SS Sleeve			X	X													
6	SL-056-NBZ-SS-0.0-0.5	3.15.12	1535	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-056-NBZ-SS-0.0-0.5	3.15.12	1535	SOIL	NONE	1-4 oz Jar															X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/15/2012/ 1630	[illegible] 3/16/12 0730	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

Temp = 4.5 c

NBZ Surface

CHAIN OF CUSTODY RECORD

12C135

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
							PRIMARY ANALYSES								COR	SECONDARY ANALYSES						
7	SL-058-NBZ-SB-4.5	3.15.12	1125	SOIL	NONE	3-Encores									X							
8	SL-058-NBZ-SB-4.0-5.0	3.15.12	1130	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-058-NBZ-SB-4.0-5.0	3.15.12	1130	SOIL	NONE	1-4 oz Jar														X	X	
9	SL-053-NBZ-SB-4.0	3.15.12	1505	SOIL	NONE	3-Encores									X							
10	SL-053-NBZ-SB-3.5-4.5	3.15.12	1500	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-053-NBZ-SB-3.5-4.5	3.15.12	1500	SOIL	NONE	1-4 oz Jar														X	X	
11	SL-056-NBZ-SB-3.5	3.15.12	1555	SOIL	NONE	3-Encores									X							
12	SL-056-NBZ-SB-3.0-4.0	3.15.12	1550	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-056-NBZ-SB-3.0-4.0	3.15.12	1550	SOIL	NONE	1-4 oz Jar														X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/15/2012/ 1630	Alfwamulus 3/16/12 0730	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

Temp = 4.5 °C

NBZ Subsurface

SAMPLE DELIVERY GROUP

12C156

COM. 1101

CHAIN OF CUSTODY RECORD

12C156

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
1	SL-067-NBZ-SB-2.0	3.16.12	1150	SOIL	NONE	3-Encores									X							
2	SL-067-NBZ-SB-1.5-2.5	3.16.12	1145	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-067-NBZ-SB-1.5-2.5	3.16.12	1145	SOIL	NONE	1-4 oz Jar														X	X	
3	SL-068-NBZ-SB-3.0MS	3.16.12	1010	SOIL	NONE	9-Encores									X							MS/MSD
4	SL-068-NBZ-SB-2.5-3.5MS	3.16.12	1015	SOIL	NONE	3-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			MS/MSD
	SL-068-NBZ-SB-2.5-3.5MS	3.16.12	1015	SOIL	NONE	8-4 oz Jar														X	X	MS/MSD
5	SL-072-NBZ-SB-4.5	3.16.12	1450	SOIL	NONE	3-Encores									X							
6	SL-072-NBZ-SB-4.0-5.0	3.16.12	1445	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-072-NBZ-SB-4.0-5.0	3.16.12	1445	SOIL	NONE	1-4 oz Jar														X	X	
7	DUP-01-NBZ-QC-031612	3.16.12	1025	SOIL	NONE	3-Encores									X							
	DUP-01-NBZ-QC-031612	3.16.12	1025	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	DUP-01-NBZ-QC-031612	3.16.12	1025	SOIL	NONE	1-4 oz Jar														X	X	
8	TB-031612	3.16.12	0800	WATER	NONE	3-40 mL Vials									X					X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/16/2012/ 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	3/16/12, 1800	NA	

T = 2.9°C

SAMPLE DELIVERY GROUP

12C164

CHAIN OF CUSTODY RECORD

12C164

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								COR	SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-071-NBZ-SB-4.5	3.19.12	0930	SOIL	NONE	3-Encores									X							
2	SL-071-NBZ-SB-4.0-5.0	3.19.12	0935	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-071-NBZ-SB-4.0-5.0	3.19.12	0935	SOIL	NONE	1-4 oz Jar														X	X	
3	SL-074-NBZ-SB-1.0	3.19.12	1050	SOIL	NONE	3-Encores									X							
4	SL-074-NBZ-SB-0.5-1.5	3.19.12	1055	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-074-NBZ-SB-0.5-1.5	3.19.12	1055	SOIL	NONE	1-4 oz Jar														X	X	
5	SL-073-NBZ-SB-4.5	3.19.12	1445	SOIL	NONE	3-Encores									X							
6	SL-073-NBZ-SB-4.0-5.0	3.19.12	1430	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-073-NBZ-SB-4.0-5.0	3.19.12	1430	SOIL	NONE	1-4 oz Jar														X	X	
7	SL-073-NBZ-SB-9.5	3.19.12	1435	SOIL	NONE	3-Encores									X							
8	SL-073-NBZ-SB-9.0-10.0	3.19.12	1440	SOIL	NONE	1-16 oz Jar	X	X	X	X	X	X	X			X	X	X	X			
	SL-073-NBZ-SB-9.0-10.0	3.19.12	1440	SOIL	NONE	1-4 oz Jar														X	X	
9	TB-031912	3.19.12	0800	WATER	NONE	3-40 mL Vials									X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/19/2012/ 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	3/19/12 1750	NA	

T = 2.8°C

NBZ Subsurface

SAMPLE DELIVERY GROUP

12C182

12 C182

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
1	SL-069-NBZ-SB-3.5	3.20.12	1435	SOIL	NONE	3-Encores											X							
2	SL-069-NBZ-SB-3.0-4.0	3.20.12	1430	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-069-NBZ-SB-3.0-4.0	3.20.12	1430	SOIL	NONE	1-SS Sleeve			X	X														
	SL-069-NBZ-SB-3.0-4.0	3.20.12	1430	SOIL	NONE	1-4 oz Jar																X	X	
3	SL-070-NBZ-SS-0.0-0.5	3.20.12	1525	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X								
	SL-070-NBZ-SS-0.0-0.5	3.20.12	1525	SOIL	NONE	1-SS Sleeve			X	X														
	SL-070-NBZ-SS-0.0-0.5	3.20.12	1525	SOIL	NONE	1-4 oz Jar																X	X	
4	SL-075-NBZ-SS-0.0-0.5	3.20.12	0900	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X		X	X	X	X			
	SL-075-NBZ-SS-0.0-0.5	3.20.12	0900	SOIL	NONE	1-SS Sleeve			X	X														
5	SL-076-NBZ-SS-0.0-0.5	3.20.12	0935	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-076-NBZ-SS-0.0-0.5	3.20.12	0935	SOIL	NONE	1-SS Sleeve			X	X														
6	SL-077-NBZ-SS-0.0-0.5	3.20.12	1020	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X		X	X	X	X			
	SL-077-NBZ-SS-0.0-0.5	3.20.12	1020	SOIL	NONE	1-SS Sleeve			X	X														
7	SL-077-NBZ-SB-4.5	3.20.12	1055	SOIL	NONE	3-Encores											X							
8	SL-077-NBZ-SB-4.0-5.0	3.20.12	1050	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X				X	X	X	X			
	SL-077-NBZ-SB-4.0-5.0	3.20.12	1050	SOIL	NONE	1-SS Sleeve			X	X														
9	TB-032012	3.20.12	0800	WATER	HCL	3-40 mL Vials											X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/20/2012/ 1630	3/20/12 1800	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

T = 3.8

NBZ Subsurface

SAMPLE DELIVERY GROUP

12C209

12C209

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						
EB-NBZ-SS-032112	03.21.12	1500	WATER	NONE	9-1 liter ambers			X	X					X	X	X		X				
EB-NBZ-SS-032112	03.21.12	1500	WATER	NONE	1-500 mL poly		X			X	X	X					X					
EB-NBZ-SS-032112	03.21.12	1500	WATER	HNO3	1-250 mL poly	X																
EB-NBZ-SS-032112	03.21.12	1500	WATER	NaOH	1-250 mL poly														X			
EB-NBZ-SS-032112	03.21.12	1500	WATER	None	6- 40 mL vials															X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/20/2012/ 1630	Dico 3/23/12 0730	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ EB

CHAIN OF CUSTODY RECORD

12C209

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B87471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
2	SL-062-NBZ-SB-3.0	3.21.12	1545	SOIL	NONE	3-Encores											X							
	SL-062-NBZ-SB-2.5-3.5	3.21.12	1540	SOIL	NONE	1-SS Sleeves			X	X														
3	SL-062-NBZ-SB-2.5-3.5	3.21.12	1540	SOIL	NONE	1-16 oz Jars	X	X			X	X	X					X	X	X	X			
	SL-062-NBZ-SB-2.5-3.5	3.21.12	1540	SOIL	NONE	1-4 oz Jars																X	X	
4	SL-063-NBZ-SB-1.0	3.21.12	1440	SOIL	NONE	3-Encores											X							
	SL-063-NBZ-SB-0.5-1.5	3.21.12	1445	SOIL	NONE	1-SS Sleeves			X	X														
5	SL-063-NBZ-SB-0.5-1.5	3.21.12	1445	SOIL	NONE	1-16 oz Jars	X	X			X	X	X					X	X	X	X			
	SL-063-NBZ-SB-0.5-1.5	3.21.12	1445	SOIL	NONE	1-4 oz Jars																X	X	
6	SL-064-NBZ-SB-1.0	3.21.12	1335	SOIL	NONE	3-Encores											X							
	SL-064-NBZ-SB-0.5-1.5	3.21.12	1330	SOIL	NONE	1-SS Sleeves			X	X														
7	SL-064-NBZ-SB-0.5-1.5	3.21.12	1330	SOIL	NONE	1-16 oz Jars	X	X			X	X	X					X	X	X	X			
	SL-064-NBZ-SB-0.5-1.5	3.21.12	1330	SOIL	NONE	1-4 oz Jars																X	X	
8	SL-065-NBZ-SB-1.5	3.21.12	1100	SOIL	NONE	3-Encores											X							
	SL-065-NBZ-SB-1.0-2.0	3.21.12	1050	SOIL	NONE	1-SS Sleeves			X	X														
9	SL-065-NBZ-SB-1.0-2.0	3.21.12	1055	SOIL	NONE	1-16 oz Jars	X	X			X	X	X					X	X	X	X			
	SL-065-NBZ-SB-1.0-2.0	3.21.12	1055	SOIL	NONE	1-4 oz Jars																X	X	
10	SL-066-NBZ-SB-2.5	3.21.12	0935	SOIL	NONE	3-Encores											X							
	SL-066-NBZ-SB-2.0-3.0	3.21.12	0930	SOIL	NONE	1-SS Sleeves			X	X														
11	SL-066-NBZ-SB-2.0-3.0	3.21.12	0930	SOIL	NONE	1-16 oz Jars	X	X			X	X	X					X	X	X	X			
	SL-066-NBZ-SB-2.0-3.0	3.21.12	0930	SOIL	NONE	1-4 oz Jars																X	X	
	SL-104-NBZ-SS-0.0-0.5	3.21.12	1345	SOIL	NONE	1-SS Sleeves			X	X														
12	SL-104-NBZ-SS-0.0-0.5	3.21.12	1345	SOIL	NONE	1-8 oz Jars	X	X			X	X	X		X	X								
13	TB-032112	3.21.12	0800	WATER	HCL	3-40 mL Vials											X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)		Laboratory:
	03/21/2012/ 1630	Dino	3/22/12 @ 0730	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**		
		NA		

Temp= 3.9 °C

NBZ

SAMPLE DELIVERY GROUP

12C229

12 C 229

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY ANALYSES								ICOR	SECONDARY ANALYSES						
EB-NBZ-SB-032212	03.22.12	1530	WATER	NONE	7-1 liter ambers			X	X					X	X		X				
EB-NBZ-SB-032212	03.22.12	1530	WATER	NONE	1-500 mL poly		X			X	X	X				X					
EB-NBZ-SB-032212	03.22.12	1530	WATER	HNO3	1-250 mL poly	X															
EB-NBZ-SB-032212	03.22.12	1530	WATER	NaOH	1-250 mL poly													X			
EB-NBZ-SB-032212	03.22.12	1530	WATER	None	6- 40 mL vials														X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/22/2012/ 1630	3/22/12 1815	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

T= 3.2°C

NBZ EB

12 C 229

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		COR	SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
2	SL-054-NBZ-SS-0.0-0.5	3.22.12	1345	SOIL	NONE	1-SS Sleeve			X	X														
	SL-054-NBZ-SS-0.0-0.5	3.22.12	1345	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-054-NBZ-SS-0.0-0.5	3.22.12	1345	SOIL	NONE	1-4 oz Jar																X	X	
3	SL-055-NBZ-SS-0.0-0.5	3.22.12	1125	SOIL	NONE	1-SS Sleeve			X	X														
	SL-055-NBZ-SS-0.0-0.5	3.22.12	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-055-NBZ-SS-0.0-0.5	3.22.12	1125	SOIL	NONE	1-4 oz Jar																X	X	
4	SL-059-NBZ-SB-0.25-1.25	3.22.12	1050	SOIL	NONE	1-SS Sleeve			X	X														
	SL-059-NBZ-SB-0.25-1.25	3.22.12	1050	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-059-NBZ-SB-0.25-1.25	3.22.12	1050	SOIL	NONE	1-4 oz Jar																X	X	
5	SL-060-NBZ-SB-0.0-1.0	3.22.12	1025	SOIL	NONE	1-SS Sleeve			X	X														
	SL-060-NBZ-SB-0.0-1.0	3.22.12	1025	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-060-NBZ-SB-0.0-1.0	3.22.12	1025	SOIL	NONE	1-4 oz Jar																X	X	
6	SL-061-NBZ-SB-1.5	3.22.12	0930	SOIL	NONE	3-Encores											X							
7	SL-061-NBZ-SB-1.0-2.0	3.22.12	0930	SOIL	NONE	1-SS Sleeve			X	X														
	SL-061-NBZ-SB-1.0-2.0	3.22.12	0930	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-061-NBZ-SB-1.0-2.0	3.22.12	1500	SOIL	NONE	1-4 oz Jar																X	X	
8	SL-116-NBZ-SS-0.0-0.5	3.22.12	1500	SOIL	NONE	1-SS Sleeve			X	X														
	SL-116-NBZ-SS-0.0-0.5	3.22.12	1500	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X								
9	TB-032212	3.22.12	0800	WATER	HCL	3-40 mL Vials											X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/22/2012/ 1630	[signature] 3/22/12 1815	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

T=2.7C

NBZ Subsurface

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		COR	SECONDARY ANALYSES						Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-054-NBZ-SS-0.0-0.5	3.22.12	1345	SOIL	NONE	1-SS Sleeve			X	X														
SL-054-NBZ-SS-0.0-0.5	3.22.12	1345	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
SL-054-NBZ-SS-0.0-0.5	3.22.12	1345	SOIL	NONE	1-4 oz Jar																X	X	
SL-055-NBZ-SS-0.0-0.5	3.22.12	1125	SOIL	NONE	1-SS Sleeve			X	X														
SL-055-NBZ-SS-0.0-0.5	3.22.12	1125	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
SL-055-NBZ-SS-0.0-0.5	3.22.12	1125	SOIL	NONE	1-4 oz Jar																X	X	
SL-059-NBZ-SS-0.0-0.5	3.22.12	1050	SOIL	NONE	1-SS Sleeve			X	X														
SL-059-NBZ-SS-0.0-0.5	3.22.12	1050	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
SL-059-NBZ-SS-0.0-0.5	3.22.12	1050	SOIL	NONE	1-4 oz Jar																X	X	
SL-060-NBZ-SS-0.0-0.5	3.22.12	1025	SOIL	NONE	1-SS Sleeve			X	X														
SL-060-NBZ-SS-0.0-0.5	3.22.12	1025	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
SL-060-NBZ-SS-0.0-0.5	3.22.12	1025	SOIL	NONE	1-4 oz Jar																X	X	
SL-061-NBZ-SB-1.5	3.22.12	0930	SOIL	NONE	3-Encores											X							
SL-061-NBZ-SB-1.0-2.0	3.22.12	0930	SOIL	NONE	1-SS Sleeve			X	X														
SL-061-NBZ-SB-1.0-2.0	3.22.12	0930	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
SL-061-NBZ-SB-1.0-2.0	3.22.12	1500	SOIL	NONE	1-4 oz Jar																X	X	
SL-116-NBZ-SS-0.0-0.5	3.22.12	1500	SOIL	NONE	1-SS Sleeve			X	X														
SL-116-NBZ-SS-0.0-0.5	3.22.12	1500	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X								
TB-032212	3.22.12	0800	WATER	HCL	3-40 mL Vials											X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/22/2012/ 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

SAMPLE DELIVERY GROUP

12C254

CHAIN OF CUSTODY RECORD

12C254

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
	SL-048-NBZ-SS-0.0-0.5	3.23.12	1200	SOIL	NONE	1-SS Sleeve			X	X														
1	SL-048-NBZ-SS-0.0-0.5	3.23.12	1200	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-048-NBZ-SS-0.0-0.5	3.23.12	1200	SOIL	NONE	1-4 oz Jar																X	X	
2	SL-048-NBZ-SB-4.5	3.23.12	1235	SOIL	NONE	3-Encores											X							
	SL-048-NBZ-SB-4.0-5.0	3.23.12	1230	SOIL	NONE	1-SS Sleeve			X	X														
3	SL-048-NBZ-SB-4.0-5.0	3.23.12	1230	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-048-NBZ-SB-4.0-5.0	3.23.12	1230	SOIL	NONE	1-4 oz Jar																X	X	
4	SL-049-NBZ-SB-2.5	3.23.12	1115	SOIL	NONE	3-Encores											X							
	SL-049-NBZ-SB-2.0-3.0	3.23.12	1115	SOIL	NONE	1-SS Sleeve			X	X														
5	SL-049-NBZ-SB-2.0-3.0	3.23.12	1115	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-049-NBZ-SB-2.0-3.0	3.23.12	1115	SOIL	NONE	1-4 oz Jar																X	X	
6	SL-051-NBZ-SB-2.0	3.23.12	1020	SOIL	NONE	3-Encores											X							
	SL-051-NBZ-SB-1.5-2.5	3.23.12	1015	SOIL	NONE	1-SS Sleeve			X	X														
7	SL-051-NBZ-SB-1.5-2.5	3.23.12	1015	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-051-NBZ-SB-1.5-2.5	3.23.12	1015	SOIL	NONE	1-4 oz Jar																X	X	
	SL-057-NBZ-SS-0.0-0.5MS	3.23.12	0920	SOIL	NONE	2-SS Sleeve			X	X														MS/MSD
8	SL-057-NBZ-SS-0.0-0.5MS	3.23.12	0920	SOIL	NONE	3-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			MS/MSD
	SL-057-NBZ-SS-0.0-0.5MS	3.23.12	0920	SOIL	NONE	2-4 oz Jar																X	X	MS/MSD
	DUP-02-NBZ-QC-032312	3.23.12	0928	SOIL	NONE	1-SS Sleeve			X	X														
9	DUP-02-NBZ-QC-032312	3.23.12	0928	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	DUP-02-NBZ-QC-032312	3.23.12	0928	SOIL	NONE	1-4 oz Jar																X	X	
10	SL-047-NBZ-SB-4.5	3.23.12	1525	SOIL	NONE	3-Encores											X							
	SL-047-NBZ-SB-4.0-5.0	3.23.12	1520	SOIL	NONE	1-SS Sleeve			X	X														
11	SL-047-NBZ-SB-4.0-5.0	3.23.12	1520	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-047-NBZ-SB-4.0-5.0	3.23.12	1520	SOIL	NONE	1-4 oz Jar																X	X	
12	TB-032212	3.23.12	0800	WATER	HCL	3-40 mL Vials											X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/23/2012/ 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	3/23/12 1815	NA	T=3.6°C

NBZ Subsurface

SAMPLE DELIVERY GROUP

12C261

CHAIN OF CUSTODY RECORD

12 C261

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
	SL-045-NBZ-SS-0.0-0.5	3.26.12	1141	SOIL	NONE	1-SS Sleeve			X	X														
1	SL-045-NBZ-SS-0.0-0.5	3.26.12	1141	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-045-NBZ-SS-0.0-0.5	3.26.12	1141	SOIL	NONE	1-4 oz Jar																X	X	
2	SL-045-NBZ-SB-4.5	3.26.12	1151	SOIL	NONE	3-Encores											X							
	SL-045-NBZ-SB-4.0-5.0	3.26.12	1155	SOIL	NONE	1-SS Sleeve			X	X														
3	SL-045-NBZ-SB-4.0-5.0	3.26.12	1155	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-045-NBZ-SB-4.0-5.0	3.26.12	1155	SOIL	NONE	1-4 oz Jar																X	X	
	SL-046-NBZ-SS-0.0-0.5	3.26.12	0920	SOIL	NONE	1-SS Sleeve			X	X														
4	SL-046-NBZ-SS-0.0-0.5	3.26.12	0920	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-046-NBZ-SS-0.0-0.5	3.26.12	0920	SOIL	NONE	1-4 oz Jar																X	X	
5	SL-046-NBZ-SB-4.5	3.26.12	1013	SOIL	NONE	3-Encores											X							
	SL-046-NBZ-SB-4.0-5.0	3.26.12	1015	SOIL	NONE	1-SS Sleeve			X	X														
6	SL-046-NBZ-SB-4.0-5.0	3.26.12	1015	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-046-NBZ-SB-4.0-5.0	3.26.12	1015	SOIL	NONE	1-4 oz Jar																X	X	
	SL-042-NBZ-SS-0.0-0.5	3.26.12	1410	SOIL	NONE	2-SS Sleeve			X	X														
7	SL-042-NBZ-SS-0.0-0.5	3.26.12	1410	SOIL	NONE	3-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-042-NBZ-SS-0.0-0.5	3.26.12	1410	SOIL	NONE	2-4 oz Jar																X	X	
	SL-043-NBZ-SS-0.0-0.5	3.26.12	1535	SOIL	NONE	1-SS Sleeve			X	X														
8	SL-043-NBZ-SS-0.0-0.5	3.26.12	1535	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-043-NBZ-SS-0.0-0.5	3.26.12	1535	SOIL	NONE	1-4 oz Jar																X	X	
	SL-050-NBZ-SS-0.0-0.5	3.26.12	1430	SOIL	NONE	3-Encores			X	X														
9	SL-050-NBZ-SS-0.0-0.5	3.26.12	1430	SOIL	NONE	1-SS Sleeve	X	X			X	X	X		X	X		X	X	X	X			
	SL-050-NBZ-SS-0.0-0.5	3.26.12	1430	SOIL	NONE	1-16 oz Jar																X	X	
10	TB-032612	3.26.12	0800	WATER	HCL	3-40 mL Vials											X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/23/2012/ 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	3/26/12 1800	NA	

T = 3.4°C
T = 3.9°C

NBZ (A team)

CHAIN OF CUSTODY RECORD

12 C 261

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
11	SL-123-NBZ-SS-0.0-0.5	3.26.12	1455	SOIL	NONE	1-SS Sleeve			X	X														
	SL-123-NBZ-SS-0.0-0.5	3.26.12	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								PLEASE NOTE: These samples come from locations with abundant poison oak and some poison oak roots were observed in sampled soil
12	SL-124-NBZ-SS-0.0-0.5	3.26.12	1020	SOIL	NONE	1-SS Sleeve			X	X														
	SL-124-NBZ-SS-0.0-0.5	3.26.12	1020	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
13	SL-126-NBZ-SS-0.0-0.5	3.26.12	1120	SOIL	NONE	1-SS Sleeve			X	X														
	SL-126-NBZ-SS-0.0-0.5	3.26.12	1120	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
14	SL-133-NBZ-SS-0.0-0.5	3.26.12	1515	SOIL	NONE	1-SS Sleeve			X	X														
	SL-133-NBZ-SS-0.0-0.5	3.26.12	1515	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
15	SL-195-NBZ-SS-0.0-0.5	3.26.12	1540	SOIL	NONE	1-SS Sleeve			X	X														
	SL-195-NBZ-SS-0.0-0.5	3.26.12	1540	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
16	SL-196-NBZ-SS-0.0-0.5	3.26.12	1145	SOIL	NONE	1-SS Sleeve			X	X														
	SL-196-NBZ-SS-0.0-0.5	3.26.12	1145	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/26/2012/ 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	3/26/12 1800	NA	

NBZ (N team)

SAMPLE DELIVERY GROUP

12C273

12 C273

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
EB-NBZ-SB-032712	03.27.12	1500	WATER	NONE	7-1 liter ambers			X	X							X		X				
EB-NBZ-SB-032712	03.27.12	1500	WATER	NONE	1-500 mL poly		X			X	X	X					X					
EB-NBZ-SB-032712	03.27.12	1500	WATER	HNO3	1-250 mL poly	X																
EB-NBZ-SB-032712	03.27.12	1500	WATER	NaOH	1-250 mL poly														X			
EB-NBZ-SB-032712	03.27.12	1500	WATER	NONE	6- 40 mL vials															X	X	
EB-NBZ-SB-032712	03.27.12	1500	WATER	NONE	2- 40 mL vials											X						
EB-NBZ-SS-032712	03.27.12	1530	WATER	NONE	9-1 liter ambers			X	X					X	X	X		X				
EB-NBZ-SS-032712	03.27.12	1530	WATER	NONE	1-500 mL poly		X			X	X	X					X					
EB-NBZ-SS-032712	03.27.12	1530	WATER	HNO3	1-250 mL poly	X																
EB-NBZ-SS-032712	03.27.12	1530	WATER	NaOH	1-250 mL poly														X			
EB-NBZ-SS-032712	03.27.12	1530	WATER	None	6- 40 mL vials															X	X	

01 12 3-28

12 13 3/28

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/27/2012/ 1630	3/27/12 1800	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ EB

12C273

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		ENCORES			SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-039-NBZ-SB-2.5 (3)	3.27.12	1433	SOIL	NONE	9-Encores											X	X	X							
2	SL-039-NBZ-SB-2.0-3.0	3.27.12	1435	SOIL	NONE	1-SS Sleeve			X	X																
	SL-039-NBZ-SB-2.0-3.0 (4)	3.27.12	1435	SOIL	NONE	1-16 oz Jar	X	X			X	X	X							X	X	X	X			
	SL-039-NBZ-SB-2.0-3.0	3.27.12	1435	SOIL	NONE	1-4 oz Jar																		X	X	
3	SL-038-NBZ-SS-0.0-0.5 (5)	3.27.12	1110	SOIL	NONE	1-SS Sleeve			X	X																
	SL-038-NBZ-SS-0.0-0.5	3.27.12	1110	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X				X	X	X	X			
4	SL-078-NBZ-SS-0.0-0.5 (6)	3.27.12	0940	SOIL	NONE	1-SS Sleeve			X	X																
	SL-078-NBZ-SS-0.0-0.5	3.27.12	0940	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X				X	X	X	X			
5	SL-095-NBZ-SS-0.0-0.5 (7)	3.27.12	1017	SOIL	NONE	1-SS Sleeve			X	X																
	SL-095-NBZ-SS-0.0-0.5	3.27.12	1017	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										
6	SL-102-NBZ-SS-0.0-0.5 (8)	3.27.12	1355	SOIL	NONE	1-SS Sleeve			X	X																
	SL-102-NBZ-SS-0.0-0.5	3.27.12	1355	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										
7	SL-109-NBZ-SS-0.0-0.5 (9)	3.27.12	1455	SOIL	NONE	1-SS Sleeve			X	X																
	SL-109-NBZ-SS-0.0-0.5	3.27.12	1455	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										
8	SL-119-NBZ-SS-0.0-0.5 (10)	3.27.12	1050	SOIL	NONE	1-SS Sleeve			X	X																
	SL-119-NBZ-SS-0.0-0.5	3.27.12	1050	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										
9	SL-129-NBZ-SS-0.0-0.5 (11)	3.27.12	1435	SOIL	NONE	1-SS Sleeve			X	X																
	SL-129-NBZ-SS-0.0-0.5	3.27.12	1435	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										
10	SL-130-NBZ-SS-0.0-0.5 (12)	3.27.12	1020	SOIL	NONE	1-SS Sleeve			X	X																
	SL-130-NBZ-SS-0.0-0.5	3.27.12	1020	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										
11	TB-032712 (13)	3.27.12	0800	SOIL	HCL	9- 40 mL Vials											X	X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/27/2012/ 1630	3/27/12 1800	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ

SAMPLE DELIVERY GROUP

12C285

12 C 285

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-040-NBZ-SS-0.0-0.5	3.28.12	0851	SOIL	NONE	1-SS Sleeve			X	X													
	SL-040-NBZ-SS-0.0-0.5	3.28.12	0851	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-040-NBZ-SS-0.0-0.5	3.28.12	0851	SOIL	NONE	1-4 oz Jar															X	X	
2	SL-094-NBZ-SS-0.0-0.5	3.28.12	1420	SOIL	NONE	1-SS Sleeve			X	X													
	SL-094-NBZ-SS-0.0-0.5	3.28.12	1420	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
3	SL-096-NBZ-SS-0.0-0.5	3.28.12	0945	SOIL	NONE	1-SS Sleeve			X	X													
	SL-096-NBZ-SS-0.0-0.5	3.28.12	0945	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
4	SL-135-NBZ-SS-0.0-0.5	3.28.12	1050	SOIL	NONE	1-SS Sleeve			X	X													
	SL-135-NBZ-SS-0.0-0.5	3.28.12	1050	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
5	SL-136-NBZ-SS-0.0-0.5	3.28.12	1345	SOIL	NONE	1-SS Sleeve			X	X													
	SL-136-NBZ-SS-0.0-0.5	3.28.12	1345	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
6	SL-139-NBZ-SS-0.0-0.5	3.28.12	1515	SOIL	NONE	1-SS Sleeve			X	X													
	SL-139-NBZ-SS-0.0-0.5	3.28.12	1515	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
7	SL-141-NBZ-SS-0.0-0.5	3.28.12	0915	SOIL	NONE	1-SS Sleeve			X	X													
	SL-141-NBZ-SS-0.0-0.5	3.28.12	0915	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
8	SL-143-NBZ-SS-0.0-0.5	3.28.12	1450	SOIL	NONE	1-SS Sleeve			X	X													
	SL-143-NBZ-SS-0.0-0.5	3.28.12	1450	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/28/2012/ 1630	3/28/12 1830	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

T = 4.5°C

NBZ Surface

12 C285

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
9	SL-036-NBZ-SB-4.5	3.28.12	1058	SOIL	NONE	3-Encores									X							
10	SL-036-NBZ-SB-4.0-5.0	3.28.12	1103	SOIL	NONE	1-SS Sleeve			X	X												
	SL-036-NBZ-SB-4.0-5.0	3.28.12	1103	SOIL	NONE	1-16 oz Jar	X	X			X	X	X			X	X	X	X			
	SL-036-NBZ-SB-4.0-5.0	3.28.12	1103	SOIL	NONE	1-4 oz Jar														X	X	
11	SL-037-NBZ-SB-3.5	3.28.12	1518	SOIL	NONE	3-Encores									X							
12	SL-037-NBZ-SB-3.0-4.0	3.28.12	1512	SOIL	NONE	1-SS Sleeve			X	X												
	SL-037-NBZ-SB-3.0-4.0	3.28.12	1512	SOIL	NONE	1-16 oz Jar	X	X			X	X	X			X	X	X	X			
	SL-037-NBZ-SB-3.0-4.0	3.28.12	1512	SOIL	NONE	1-4 oz Jar														X	X	
13	SL-040-NBZ-SB-3.0MS	3.28.12	1005	SOIL	NONE	9-Encores									X							MS/MSD
14	SL-040-NBZ-SB-2.5-2.5MS	3.28.12	1000	SOIL	NONE	2-SS Sleeves			X	X												MS/MSD
	SL-040-NBZ-SB-2.5-2.5MS	3.28.12	1000	SOIL	NONE	3-16 oz Jars	X	X			X	X	X			X	X	X	X			MS/MSD
	SL-040-NBZ-SB-2.5-2.5MS	3.28.12	1000	SOIL	NONE	1-8 oz Jar														X	X	MS/MSD
15	SL-036-NBZ-SB-8.0	3.28.12	1235	SOIL	NONE	3- Encores									X							
16	SL-036-NBZ-SB-7.5-8.5	3.28.12	1230	SOIL	NONE	1-SS Sleeve			X	X												
	SL-036-NBZ-SB-7.5-8.5	3.28.12	1230	SOIL	NONE	1-16 oz Jar	X	X			X	X	X			X	X	X	X			
	SL-036-NBZ-SB-7.5-8.5	3.28.12	1230	SOIL	NONE	1- 4 oz Jar														X	X	
17	DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	3- Encores									X							
	DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	1-SS Sleeve			X	X												
	DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	1-16 oz Jar	X	X			X	X	X			X	X	X	X			
	DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	1- 4 oz Jar														X	X	
18	TB-032812	3.28.12	0800	SOIL	HCL	3- 40 mL Vials									X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/28/2012/ 1630	3/28/12 1830	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

T=4.5°C

SAMPLE DELIVERY GROUP

12C305

(2)

12C305

(1)

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	ENCORES: VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EPH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
1	EB-NBZ-SB-032912	03.29.12	1500	WATER	NONE	7-1 liter ambers			X	X										X		X				
	EB-NBZ-SB-032912	03.29.12	1500	WATER	NONE	1-500 mL poly		X			X	X	X								X					
	EB-NBZ-SB-032912	03.29.12	1500	WATER	HNO3	1-250 mL poly	X																			
	EB-NBZ-SB-032912	03.29.12	1500	WATER	NaOH	1-250 mL poly																	X			
	EB-NBZ-SB-032912	03.29.12	1500	WATER	NONE	6- 40 mL vials																		X	X	
	EB-NBZ-SB-032912	03.29.12	1500	WATER	HCL	8- 40 mL vials											X	X	X	X						
2	EB-NBZ-SS-032912	03.29.12	1545	WATER	NONE	9-1 liter ambers			X	X					X	X				X		X				
	EB-NBZ-SS-032912	03.29.12	1545	WATER	NONE	1-500 mL poly		X			X	X	X								X					
	EB-NBZ-SS-032912	03.29.12	1545	WATER	HNO3	1-250 mL poly	X																			
	EB-NBZ-SS-032912	03.29.12	1545	WATER	NaOH	1-250 mL poly																	X			
	EB-NBZ-SS-032912	03.29.12	1545	WATER	None	6- 40 mL vials																		X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/27/2012/ 1630	3/29/12 1805	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

Cooler # 1 T= 3.3°C
Cooler # 2 T= 3.5°C
Cooler # 3 T= 2.7°C

NBZ EB

(3)

12 C 305

(2)

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
3	SL-044-NBZ-SS-0.0-0.5	3.29.12	1311	SOIL	NONE	1-SS Sleeve			X	X														
	SL-044-NBZ-SS-0.0-0.5	3.29.12	1311	SOIL	NONE	2-8 oz Jars	X	X			X	X	X		X	X		X	X	X	X			
	SL-044-NBZ-SS-0.0-0.5	3.29.12	1311	SOIL	NONE	1-4 oz Jar																X	X	
4	SL-091-NBZ-SS-0.0-0.5	3.29.12	0909	SOIL	NONE	1-SS Sleeve			X	X														
	SL-091-NBZ-SS-0.0-0.5	3.29.12	0909	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-091-NBZ-SS-0.0-0.5	3.29.12	0909	SOIL	NONE	1-4 oz Jar																X	X	
5	SL-092-NBZ-SS-0.0-0.5MS	3.29.12	1143	SOIL	NONE	2-SS Sleeve			X	X														MS/MSD
	SL-092-NBZ-SS-0.0-0.5MS	3.29.12	1143	SOIL	NONE	2-16 oz Jar & 1 8 oz Jar	X	X			X	X	X		X	X		X	X	X	X			MS/MSD
6	SL-101-NBZ-SS-0.0-0.5	3.29.12	1005	SOIL	NONE	1- SS Sleeve			X	X														
	SL-101-NBZ-SS-0.0-0.5	3.29.12	1005	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X								
7	SL-103-NBZ-SS-0.0-0.5	3.29.12	0925	SOIL	NONE	1- SS Sleeve			X	X														
	SL-103-NBZ-SS-0.0-0.5	3.29.12	0925	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X								
8	SL-118-NBZ-SS-0.0-0.5MS	3.29.12	1510	SOIL	NONE	2- SS Sleeve			X	X														MS/MSD
	SL-118-NBZ-SS-0.0-0.5MS	3.29.12	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								MS/MSD
9	SL-130-NBZ-SS-0.0-0.5	3.29.12	1035	SOIL	NONE	1- SS Sleeve			X	X														
	SL-130-NBZ-SS-0.0-0.5	3.29.12	1035	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X								
10	SL-197-NBZ-SS-0.0-0.5	3.29.12	1355	SOIL	NONE	1- SS Sleeve			X	X														
	SL-197-NBZ-SS-0.0-0.5	3.29.12	1355	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X								
11	SL-091-NBZ-SB-4.5	3.29.12	1025	SOIL	NONE	3-Encores											X							
12	SL-091-NBZ-SB-4.0-5.0	3.29.12	1020	SOIL	NONE	1-SS Sleeve			X	X														
	SL-091-NBZ-SB-4.0-5.0	3.29.12	1020	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-091-NBZ-SB-4.0-5.0	3.29.12	1020	SOIL	NONE	1-4 oz Jar																X	X	
13	DUP-05-NBZ-QC-032912	3.29.12	1209	SOIL	NONE	1- SS Sleeve			X	X														
	DUP-05-NBZ-QC-032912	3.29.12	1209	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
14	DUP-04-NBZ-QC-032912	3.29.12	1510	SOIL	NONE	1- SS Sleeve			X	X														
	DUP-04-NBZ-QC-032912	3.29.12	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
15	TB-032912	3.29.12	0800	SOIL	NONE	3-40 mL Vials											X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	03/29/2012/ 1630	3/29/12 1805	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ Surface

SAMPLE DELIVERY GROUP

12C321

12C321

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
						PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						
SL-079-NBZ-SS-0.0-0.5 >1	3.30.12	0950	SOIL	NONE	1-SS Sleeve			X	X													
SL-079-NBZ-SS-0.0-0.5	3.30.12	0950	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
SL-121-NBZ-SS-0.0-0.5 >2	3.30.12	1110	SOIL	NONE	1-SS Sleeve			X	X													
SL-121-NBZ-SS-0.0-0.5	3.30.12	1110	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
SL-134-NBZ-SS-0.0-0.5 >3	3.30.12	1030	SOIL	NONE	1-SS Sleeve			X	X													
SL-134-NBZ-SS-0.0-0.5	3.30.12	1030	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)		Laboratory:
	03/30/2012/ 1630			EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**		
	3/30/12 18:08	NA	Temp = 2.4°C	

NBZ Surface

SAMPLE DELIVERY GROUP

12D004

com.1102

CHAIN OF CUSTODY RECORD

12D004

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-025-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-SS Sleeve			X	X													
	SL-025-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-025-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-4 oz jar															X	X	
2	SL-026-NBZ-SS-0.0-0.5	4.02.12	0910	SOIL	NONE	1-SS Sleeve			X	X													
	SL-026-NBZ-SS-0.0-0.5	4.02.12	0910	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-026-NBZ-SS-0.0-0.5	4.02.12	0910	SOIL	NONE	1-4 oz jar															X	X	
3	SL-027-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-SS Sleeve			X	X													
	SL-027-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-027-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-4 oz jar															X	X	
4	SL-028-NBZ-SS-0.0-0.5	4.02.12	0910	SOIL	NONE	1-SS Sleeve			X	X													
	SL-028-NBZ-SS-0.0-0.5	4.02.12	0910	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-028-NBZ-SS-0.0-0.5	4.02.12	0910	SOIL	NONE	1-4 oz jar															X	X	
5	SL-107-NBZ-SS-0.0-0.5	4.02.12	1358	SOIL	NONE	1-SS Sleeve			X	X													
	SL-107-NBZ-SS-0.0-0.5	4.02.12	1358	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
6	SL-111-NBZ-SS-0.0-0.5	4.02.12	1333	SOIL	NONE	1-SS Sleeve			X	X													
	SL-111-NBZ-SS-0.0-0.5	4.02.12	1333	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X							
7	SL-112-NBZ-SS-0.0-0.5	4.02.12	1040	SOIL	NONE	1-SS Sleeve			X	X													
	SL-112-NBZ-SS-0.0-0.5	4.02.12	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
8	SL-113-NBZ-SS-0.0-0.5	4.02.12	0929	SOIL	NONE	1-SS Sleeve			X	X													
	SL-113-NBZ-SS-0.0-0.5	4.02.12	0929	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
9	SL-138-NBZ-SS-0.0-0.5	4.02.12	1011	SOIL	NONE	1-SS Sleeve			X	X													
	SL-138-NBZ-SS-0.0-0.5	4.02.12	1011	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X							
10	SL-194-NBZ-SS-0.0-0.5	4.02.12	1440	SOIL	NONE	1-SS Sleeve			X	X													
	SL-194-NBZ-SS-0.0-0.5	4.02.12	1440	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/02/2012/ 1630	4/2/12 1740	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	T=3.2°C
		NA	

N8Z Surface

SAMPLE DELIVERY GROUP

12D018

12D018

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	ICOR SECONDARY ANALYSES: TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
1	SL-031-NBZ-SS-0.0-0.5	4.03.12	0930	SOIL	NONE	1-SS Sleeve			X	X														
	SL-031-NBZ-SS-0.0-0.5	4.03.12	0930	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-031-NBZ-SS-0.0-0.5	4.03.12	0930	SOIL	NONE	1-4 oz Jar																X	X	
2	SL-032-NBZ-SS-0.0-0.5	4.03.12	1400	SOIL	NONE	1-SS Sleeve			X	X														
	SL-032-NBZ-SS-0.0-0.5	4.03.12	1400	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-032-NBZ-SS-0.0-0.5	4.03.12	1400	SOIL	NONE	1-4 oz Jar																X	X	
3	SL-033-NBZ-SS-0.0-0.5	4.03.12	1030	SOIL	NONE	1-SS Sleeve			X	X														
	SL-033-NBZ-SS-0.0-0.5	4.03.12	1030	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-033-NBZ-SS-0.0-0.5	4.03.12	1030	SOIL	NONE	1-4 oz Jar																X	X	
4	SL-034-NBZ-SS-0.0-0.5	4.03.12	1122	SOIL	NONE	1-SS Sleeve			X	X														
	SL-034-NBZ-SS-0.0-0.5	4.03.12	1122	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-034-NBZ-SS-0.0-0.5	4.03.12	1122	SOIL	NONE	1-4 oz Jar																X	X	
5	SL-035-NBZ-SS-0.0-0.5	4.03.12	1430	SOIL	NONE	1-SS Sleeve			X	X														
	SL-035-NBZ-SS-0.0-0.5	4.03.12	1430	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X		X	X	X	X			
	SL-035-NBZ-SS-0.0-0.5	4.03.12	1430	SOIL	NONE	1-4 oz Jar																X	X	
6	SL-035-NBZ-SB-2.5	4.03.12	1440	SOIL	NONE	3-Encores											X							
7	SL-035-NBZ-SB-2.0-3.0	4.03.12	1430	SOIL	NONE	1-SS Sleeve			X	X														
	SL-035-NBZ-SB-2.0-3.0	4.03.12	1430	SOIL	NONE	1-16 oz Jar	X	X			X	X	X					X	X	X	X			
	SL-035-NBZ-SB-2.0-3.0	4.03.12	1430	SOIL	NONE	1-4 oz Jar																X	X	
8	SL-108-NBZ-SS-0.0-0.5	4.03.12	0945	SOIL	NONE	1-SS Sleeve			X	X														
	SL-108-NBZ-SS-0.0-0.5	4.03.12	0945	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
9	SL-115-NBZ-SS-0.0-0.5	4.03.12	1432	SOIL	NONE	1-SS Sleeve			X	X														
	SL-115-NBZ-SS-0.0-0.5	4.03.12	1432	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
10	SL-122-NBZ-SS-0.0-0.5	4.03.12	1103	SOIL	NONE	1-SS Sleeve			X	X														
	SL-122-NBZ-SS-0.0-0.5	4.03.12	1103	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
11	SL-127-NBZ-SS-0.0-0.5	4.03.12	1010	SOIL	NONE	1-SS Sleeve			X	X														
	SL-127-NBZ-SS-0.0-0.5	4.03.12	1010	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
12	SL-140-NBZ-SS-0.0-0.5	4.03.12	1406	SOIL	NONE	1-SS Sleeve			X	X														
	SL-140-NBZ-SS-0.0-0.5	4.03.12	1406	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
13	SL-169-NBZ-SS-0.0-0.5	4.03.12	0911	SOIL	NONE	1-SS Sleeve			X	X														
	SL-169-NBZ-SS-0.0-0.5	4.03.12	0911	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
14	SL-198-NBZ-SS-0.0-0.5	4.03.12	1526	SOIL	NONE	1-SS Sleeve			X	X														
	SL-198-NBZ-SS-0.0-0.5	4.03.12	1526	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X								
15	TB-040312	4.03.12	0800	SOIL	HCL	3-40 mL vials											X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/03/2012/ 1630	4/3/12 1815	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

T=4.5 C

NBZ Surface

SAMPLE DELIVERY GROUP

12D031

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		COR	SECONDARY ANALYSES						Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
EB-NBZ-SB-040412	04.04.12	1430	WATER	NONE	7-1 liter ambers			X	X								X		X				
EB-NBZ-SB-040412	04.04.12	1430	WATER	NONE	1-500 mL poly		X			X	X	X						X					
EB-NBZ-SB-040412	04.04.12	1430	WATER	HNO3	1-250 mL poly	X																	
EB-NBZ-SB-040412	04.04.12	1430	WATER	NaOH	1-250 mL poly															X			
EB-NBZ-SB-040412	04.04.12	1430	WATER	NONE	6- 40 mL vials																X	X	
EB-NBZ-SB-040412	04.04.12	1430	WATER	HCL	2- 40 mL vials											X	X						
EB-NBZ-SS-040412	04.04.12	1545	WATER	NONE	9-1 liter ambers			X	X					X	X		X		X				
EB-NBZ-SS-040412	04.04.12	1545	WATER	NONE	1-500 mL poly		X			X	X	X						X					
EB-NBZ-SS-040412	04.04.12	1545	WATER	HNO3	1-250 mL poly	X																	
EB-NBZ-SS-040412	04.04.12	1545	WATER	NaOH	1-250 mL poly															X			
EB-NBZ-SS-040412	04.04.12	1545	WATER	None	6- 40 mL vials																X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/04/2012/ 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ EB

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		ENCORES			SECONDARY ANALYSES						Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-020-NBZ-SB-3.0	4.04.12	1445	SOIL	NONE	9-Encores											X	X	X							
SL-020-NBZ-SB-2.5-3.5	4.04.12	1440	SOIL	NONE	1-SS Sleeve			X	X																
SL-020-NBZ-SB-2.5-3.5	4.04.12	1440	SOIL	NONE	2-16 oz Jar	X	X			X	X	X		X	X				X	X	X	X			
SL-020-NBZ-SB-2.5-3.5	4.04.12	1440	SOIL	NONE	1-4 oz Jar																		X	X	
SL-020-NBZ-SS-0.0-0.5	4.04.12	1340	SOIL	NONE	1-SS Sleeve			X	X																
SL-020-NBZ-SS-0.0-0.5	4.04.12	1340	SOIL	NONE	2-16 oz Jar	X	X			X	X	X		X	X										
SL-097-NBZ-SS-0.0-0.5	4.04.12	0914	SOIL	NONE	1-SS Sleeve			X	X																
SL-097-NBZ-SS-0.0-0.5	4.04.12	0914	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
SL-099-NBZ-SS-0.0-0.5	4.04.12	0951	SOIL	NONE	1-SS Sleeve			X	X																
SL-099-NBZ-SS-0.0-0.5	4.04.12	0951	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
SL-100-NBZ-SS-0.0-0.5	4.04.12	1041	SOIL	NONE	1-SS Sleeve			X	X																
SL-100-NBZ-SS-0.0-0.5	4.04.12	1041	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
SL-104-NBZ-SS-0.0-0.5	4.04.12	1040	SOIL	NONE	1-SS Sleeve			X	X																
SL-104-NBZ-SS-0.0-0.5	4.04.12	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X										
SL-110-NBZ-SS-0.0-0.5	4.04.12	0900	SOIL	NONE	1-SS Sleeve			X	X																
SL-110-NBZ-SS-0.0-0.5	4.04.12	0900	SOIL	NONE	1-16 cz Jar	X	X			X	X	X		X	X										
SL-114-NBZ-SS-0.0-0.5	4.04.12	0925	SOIL	NONE	1-SS Sleeve			X	X																
SL-114-NBZ-SS-0.0-0.5	4.04.12	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
SL-120-NBZ-SS-0.0-0.5	4.04.12	1105	SOIL	NONE	1-SS Sleeve			X	X																
SL-120-NBZ-SS-0.0-0.5	4.04.12	1105	SOIL	NONE	1-16 cz Jar	X	X			X	X	X		X	X										
SL-155-NBZ-SS-0.0-0.5	4.04.12	1455	SOIL	NONE	1-SS Sleeve			X	X																
SL-155-NBZ-SS-0.0-0.5	4.04.12	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X										
SL-181-NBZ-SS-0.0-0.5	4.04.12	1422	SOIL	NONE	1-SS Sleeve			X	X																
SL-181-NBZ-SS-0.0-0.5	4.04.12	1422	SOIL	NONE	1-16 cz Jar	X	X			X	X	X		X	X										
SL-187-NBZ-SS-0.0-0.5	4.04.12	1349	SOIL	NONE	1-SS Sleeve			X	X																
SL-187-NBZ-SS-0.0-0.5	4.04.12	1349	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
TB-040412		0800	SOIL	HCL	9-40 mL Vials											X	X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/04/2012 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ Surface

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		COR	SECONDARY ANALYSES						Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
EB-NBZ-SB-040412	04.04.12	1430	WATER	NONE	7-1 liter ambers			X	X								X		X				
EB-NBZ-SB-040412	04.04.12	1430	WATER	NONE	1-500 mL poly		X			X	X	X						X					
EB-NBZ-SB-040412	04.04.12	1430	WATER	HNO3	1-250 mL poly	X																	
EB-NBZ-SB-040412	04.04.12	1430	WATER	NaOH	1-250 mL poly															X			
EB-NBZ-SB-040412	04.04.12	1430	WATER	NONE	6- 40 mL vials																X	X	
EB-NBZ-SB-040412	04.04.12	1430	WATER	HCL	2- 40 mL vials											X	X						
EB-NBZ-SS-040412	04.04.12	1545	WATER	NONE	9-1 liter ambers			X	X					X	X		X		X				
EB-NBZ-SS-040412	04.04.12	1545	WATER	NONE	1-500 mL poly		X			X	X	X						X					
EB-NBZ-SS-040412	04.04.12	1545	WATER	HNO3	1-250 mL poly	X																	
EB-NBZ-SS-040412	04.04.12	1545	WATER	NaOH	1-250 mL poly															X			
EB-NBZ-SS-040412	04.04.12	1545	WATER	None	6- 40 mL vials																X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/04/2012/ 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ EB

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		ENCORES			SECONDARY ANALYSES						Other Instructions and Notes
						*Metals EPA 6010/6020&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
SL-020-NBZ-SB-3.0	4.04.12	1445	SOIL	NONE	9-Encores											X	X	X							
SL-020-NBZ-SB-2.5-3.5	4.04.12	1440	SOIL	NONE	1-SS Sleeve			X	X																
SL-020-NBZ-SB-2.5-3.5	4.04.12	1440	SOIL	NONE	2-16 oz Jar	X	X			X	X	X		X	X				X	X	X	X			
SL-020-NBZ-SB-2.5-3.5	4.04.12	1440	SOIL	NONE	1-4 oz Jar																		X	X	
SL-020-NBZ-SS-0.0-0.5	4.04.12	1340	SOIL	NONE	1-SS Sleeve			X	X																
SL-020-NBZ-SS-0.0-0.5	4.04.12	1340	SOIL	NONE	2-16 oz Jar	X	X			X	X	X		X	X										
SL-097-NBZ-SS-0.0-0.5	4.04.12	0914	SOIL	NONE	1-SS Sleeve			X	X																
SL-097-NBZ-SS-0.0-0.5	4.04.12	0914	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
SL-099-NBZ-SS-0.0-0.5	4.04.12	0951	SOIL	NONE	1-SS Sleeve			X	X																
SL-099-NBZ-SS-0.0-0.5	4.04.12	0951	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
SL-100-NBZ-SS-0.0-0.5	4.04.12	1041	SOIL	NONE	1-SS Sleeve			X	X																
SL-100-NBZ-SS-0.0-0.5	4.04.12	1041	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
SL-104-NBZ-SS-0.0-0.5	4.04.12	1040	SOIL	NONE	1-SS Sleeve			X	X																
SL-104-NBZ-SS-0.0-0.5	4.04.12	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X										
SL-110-NBZ-SS-0.0-0.5	4.04.12	0900	SOIL	NONE	1-SS Sleeve			X	X																
SL-110-NBZ-SS-0.0-0.5	4.04.12	0900	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
SL-114-NBZ-SS-0.0-0.5	4.04.12	0925	SOIL	NONE	1-SS Sleeve			X	X																
SL-114-NBZ-SS-0.0-0.5	4.04.12	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
SL-120-NBZ-SS-0.0-0.5	4.04.12	1105	SOIL	NONE	1-SS Sleeve			X	X																
SL-120-NBZ-SS-0.0-0.5	4.04.12	1105	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
SL-155-NBZ-SS-0.0-0.5	4.04.12	1455	SOIL	NONE	1-SS Sleeve			X	X																
SL-155-NBZ-SS-0.0-0.5	4.04.12	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X										
SL-181-NBZ-SS-0.0-0.5	4.04.12	1422	SOIL	NONE	1-SS Sleeve			X	X																
SL-181-NBZ-SS-0.0-0.5	4.04.12	1422	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
SL-187-NBZ-SS-0.0-0.5	4.04.12	1349	SOIL	NONE	1-SS Sleeve			X	X																
SL-187-NBZ-SS-0.0-0.5	4.04.12	1349	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
TB-040412		0800	SOIL	HCL	9-40 mL Vials											X	X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/04/2012 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ Surface

12D031

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		COR	SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	EB-NBZ-SB-040412	04.04.12	1430	WATER	NONE	7-1 liter ambers			X	X								X		X				
	EB-NBZ-SB-040412	04.04.12	1430	WATER	NONE	1-500 mL poly		X			X	X	X						X					
	EB-NBZ-SB-040412	04.04.12	1430	WATER	HNO3	1-250 mL poly	X																	
	EB-NBZ-SB-040412	04.04.12	1430	WATER	NaOH	1-250 mL poly															X			
	EB-NBZ-SB-040412	04.04.12	1430	WATER	NONE	6- 40 mL vials																X	X	
	EB-NBZ-SB-040412	04.04.12	1430	WATER	HCL	2- 40 mL vials											X	X						
2	EB-NBZ-SS-040412	04.04.12	1545	WATER	NONE	9-1 liter ambers			X	X					X	X		X		X				
	EB-NBZ-SS-040412	04.04.12	1545	WATER	NONE	1-500 mL poly		X			X	X	X						X					
	EB-NBZ-SS-040412	04.04.12	1545	WATER	HNO3	1-250 mL poly	X																	
	EB-NBZ-SS-040412	04.04.12	1545	WATER	NaOH	1-250 mL poly															X			
	EB-NBZ-SS-040412	04.04.12	1545	WATER	None	6- 40 mL vials																X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/04/2012/ 1630	[signature] 4/4/12 1800	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

Cooler #1 T = 2.8°C
Cooler #2 T = 3.2°C
Cooler #3 T = 2.4°C

NBZ EB

12D031

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		ENCORES			SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6550 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
3	SL-020-NBZ-SB-3.0	4.04.12	1445	SOIL	NONE	9-Encores											X	X	X							
4	SL-020-NBZ-SB-2.5-3.5	4.04.12	1440	SOIL	NONE	1-SS Sleeve			X	X																
	SL-020-NBZ-SB-2.5-3.5	4.04.12	1440	SOIL	NONE	2-16 oz Jar	X	X			X	X	X		X	X				X	X	X	X			
	SL-020-NBZ-SB-2.5-3.5	4.04.12	1440	SOIL	NONE	1-4 oz Jar																		X	X	
5	SL-020-NBZ-SS-0.0-0.5	4.04.12	1340	SOIL	NONE	1-SS Sleeve			X	X																
	SL-020-NBZ-SS-0.0-0.5	4.04.12	1340	SOIL	NONE	2-16 oz Jar	X	X			X	X	X		X	X										
6	SL-097-NBZ-SS-0.0-0.5	4.04.12	0914	SOIL	NONE	1-SS Sleeve			X	X																
	SL-097-NBZ-SS-0.0-0.5	4.04.12	0914	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
7	SL-099-NBZ-SS-0.0-0.5	4.04.12	1041	SOIL	NONE	1-SS Sleeve			X	X																
	SL-099-NBZ-SS-0.0-0.5	4.04.12	1041	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
8	SL-100-NBZ-SS-0.0-0.5	4.04.12	0951	SOIL	NONE	1-SS Sleeve			X	X																
	SL-100-NBZ-SS-0.0-0.5	4.04.12	0951	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
9	SL-104-NBZ-SS-0.0-0.5	4.04.12	1040	SOIL	NONE	1-SS Sleeve			X	X																
	SL-104-NBZ-SS-0.0-0.5	4.04.12	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X										
10	SL-110-NBZ-SS-0.0-0.5	4.04.12	0900	SOIL	NONE	1-SS Sleeve			X	X																
	SL-110-NBZ-SS-0.0-0.5	4.04.12	0900	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
11	SL-114-NBZ-SS-0.0-0.5	4.04.12	0925	SOIL	NONE	1-SS Sleeve			X	X																
	SL-114-NBZ-SS-0.0-0.5	4.04.12	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
12	SL-120-NBZ-SS-0.0-0.5	4.04.12	1105	SOIL	NONE	1-SS Sleeve			X	X																
	SL-120-NBZ-SS-0.0-0.5	4.04.12	1105	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
13	SL-155-NBZ-SS-0.0-0.5	4.04.12	1455	SOIL	NONE	1-SS Sleeve			X	X																
	SL-155-NBZ-SS-0.0-0.5	4.04.12	1455	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X										
14	SL-181-NBZ-SS-0.0-0.5	4.04.12	1422	SOIL	NONE	1-SS Sleeve			X	X																
	SL-181-NBZ-SS-0.0-0.5	4.04.12	1422	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
15	SL-187-NBZ-SS-0.0-0.5	4.04.12	1349	SOIL	NONE	1-SS Sleeve			X	X																
	SL-187-NBZ-SS-0.0-0.5	4.04.12	1349	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X										
16	TB-040412		0800	SOIL	HCL	9-40 mL Vials											X	X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/04/2012 1630	4/4/12 1800	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ Surface

SAMPLE DELIVERY GROUP

12D048

12D048

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	Other Instructions and Notes
1	SL-149-NBZ-SS-0.0-0.5	4.05.12	1040	SOIL	NONE	1-SS Sleeve			X	X							
	SL-149-NBZ-SS-0.0-0.5	4.05.12	1040	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X	
2	SL-165-NBZ-SS-0.0-0.5	4.05.12	1120	SOIL	NONE	1-SS Sleeve			X	X							
	SL-165-NBZ-SS-0.0-0.5	4.05.12	1120	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X	
3	SL-175-NBZ-SS-0.0-0.5	4.05.12	955	SOIL	NONE	1-SS Sleeve			X	X							
	SL-175-NBZ-SS-0.0-0.5	4.05.12	955	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X	
4	SL-190-NBZ-SS-0.0-0.5	4.05.12	925	SOIL	NONE	1-SS Sleeve			X	X							
	SL-190-NBZ-SS-0.0-0.5	4.05.12	925	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/05/2012 1630	4/5/12 1630	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ Surface

SAMPLE DELIVERY GROUP

12D084

12D084

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-001-NBZ-SS-0.0-0.5	4.09.12	0936	SOIL	NONE	1-SS Sleeve			X	X													
	SL-001-NBZ-SS-0.0-0.5	4.09.12	0936	SOIL	NONE	2-8 oz Jar	X	X			X	X	X	X	X	X	X	X	X	X			
2	SL-151-NBZ-SS-0.0-0.5	4.09.12	1015	SOIL	NONE	1-SS Sleeve			X	X													
	SL-151-NBZ-SS-0.0-0.5	4.09.12	1015	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
3	SL-157-NBZ-SS-0.0-0.5	4.09.12	1347	SOIL	NONE	1-SS Sleeve			X	X													
	SL-157-NBZ-SS-0.0-0.5	4.09.12	1347	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
4	SL-167-NBZ-SS-0.0-0.5	4.09.12	1412	SOIL	NONE	1-SS Sleeve			X	X													
	SL-167-NBZ-SS-0.0-0.5	4.09.12	1412	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
5	SL-174-NBZ-SS-0.0-0.5	4.09.12	1446	SOIL	NONE	1-SS Sleeve			X	X													
	SL-174-NBZ-SS-0.0-0.5	4.09.12	1446	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
6	SL-185-NBZ-SS-0.0-0.5	4.09.12	1050	SOIL	NONE	1-SS Sleeve			X	X													
	SL-185-NBZ-SS-0.0-0.5	4.09.12	1050	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
7	SL-191-NBZ-SS-0.0-0.5MS	4.09.12	1122	SOIL	NONE	2-SS Sleeve			X	X													MS/MSD
	SL-191-NBZ-SS-0.0-0.5MS	4.09.12	1122	SOIL	NONE	2-8 oz Jar	X	X			X	X	X		X	X							MS/MSD
8	DUP-06-NBZ-QC-040912	4.09.12	1520	SOIL	NONE	1-SS Sleeve			X	X													
	DUP-06-NBZ-QC-040912	4.09.12	1520	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/09/2012 1630	4/9/12 1800	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

T = 3.8°C

NBZ Surface

SAMPLE DELIVERY GROUP

12D092

12092

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
1	SL-009-NBZ-SS-0.0-0.5MS	4.10.12	0930	SOIL	NONE	2-SS Sleeve			X	X													
	SL-009-NBZ-SS-0.0-0.5MS	4.10.12	0930	SOIL	NONE	3-16 oz Jars	X	X			X	X	X		X	X	X	X	X	X			
2	SL-084-NBZ-SS-0.0-0.5	4.10.12	1110	SOIL	NONE	1-SS Sleeve			X	X													
	SL-084-NBZ-SS-0.0-0.5	4.10.12	1110	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
3	SL-185-NBZ-SS-0.0-0.5	4.10.12	1402	SOIL	NONE	1-SS Sleeve			X	X													
	SL-185-NBZ-SS-0.0-0.5	4.10.12	1402	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
4	SL-186-NBZ-SS-0.0-0.5	4.10.12	1040	SOIL	NONE	1-SS Sleeve			X	X													
	SL-186-NBZ-SS-0.0-0.5	4.10.12	1040	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
5	SL-177-NBZ-SS-0.0-0.5	4.10.12	1510	SOIL	NONE	1-SS Sleeve			X	X													
	SL-177-NBZ-SS-0.0-0.5	4.10.12	1510	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
6	SL-188-NBZ-SS-0.0-0.5	4.10.12	1449	SOIL	NONE	1-SS Sleeve			X	X													
	SL-188-NBZ-SS-0.0-0.5	4.10.12	1449	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							
7	DUP-07-NBZ-QC-041012	4.10.12	0925	SOIL	NONE	1-SS Sleeve			X	X													
	DUP-07-NBZ-QC-041012	4.10.12	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X									

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/10/2012 1630	4/10/12 18:00	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

A-T=3.7

5

NBZ Surface

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-009-NBZ-SS-0.0-0.5MS	4.10.12	0930	SOIL	NONE	2-SS Sleeve			X	X													
	SL-009-NBZ-SS-0.0-0.5MS	4.10.12	0930	SOIL	NONE	3-16 oz Jars	X	X			X	X	X		X	X	X	X	X	X			
2	SL-084-NBZ-SS-0.0-0.5	4.10.12	1110	SOIL	NONE	1-SS Sleeve			X	X													
	SL-084-NBZ-SS-0.0-0.5	4.10.12	1110	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
3	SL-085-NBZ-SS-0.0-0.5	4.10.12	1402	SOIL	NONE	1-SS Sleeve			X	X													
	SL-085-NBZ-SS-0.0-0.5	4.10.12	1402	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
4	SL-186-NBZ-SS-0.0-0.5	4.10.12	1040	SOIL	NONE	1-SS Sleeve			X	X													
	SL-186-NBZ-SS-0.0-0.5	4.10.12	1040	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
5	SL-177-NBZ-SS-0.0-0.5	4.10.12	1510	SOIL	NONE	1-SS Sleeve			X	X													
	SL-177-NBZ-SS-0.0-0.5	4.10.12	1510	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
6	SL-188-NBZ-SS-0.0-0.5	4.10.12	1449	SOIL	NONE	1-SS Sleeve			X	X													
	SL-188-NBZ-SS-0.0-0.5	4.10.12	1449	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
7	DUP-07-NBZ-QC-041012	4.10.12	0925	SOIL	NONE	1-SS Sleeve			X	X													
	DUP-07-NBZ-QC-041012	4.10.12	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X	X	X	X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/10/2012 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

-email copy - revised 4-11-12

NBZ Surface

SAMPLE DELIVERY GROUP

12D106

CDM1101 -

CHAIN OF CUSTODY RECORD

12D1060

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
	SL-004-NBZ-SS-0.0-0.5	4.11.12	0912	SOIL	NONE	1-SS Sleeve			X	X													
1	SL-004-NBZ-SS-0.0-0.5	4.11.12	0912	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
	SL-145-NBZ-SS-0.0-0.5	4.11.12	1435	SOIL	NONE	1-SS Sleeve			X	X													
2	SL-145-NBZ-SS-0.0-0.5	4.11.12	1435	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
	SL-148-NBZ-SS-0.0-0.5	4.11.12	1403	SOIL	NONE	1-SS Sleeve			X	X													
3	SL-148-NBZ-SS-0.0-0.5	4.11.12	1403	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
	SL-154-NBZ-SS-0.0-0.5	4.11.12	1006	SOIL	NONE	1-SS Sleeve			X	X													
4	SL-154-NBZ-SS-0.0-0.5	4.11.12	1006	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
	SL-163-NBZ-SS-0.0-0.5	4.11.12	1323	SOIL	NONE	1-SS Sleeve			X	X													
5	SL-163-NBZ-SS-0.0-0.5	4.11.12	1323	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
	SL-168-NBZ-SS-0.0-0.5	4.11.12	0938	SOIL	NONE	1-SS Sleeve			X	X													
6	SL-168-NBZ-SS-0.0-0.5	4.11.12	0938	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
	SL-176-NBZ-SS-0.0-0.5	4.11.12	1348	SOIL	NONE	1-SS Sleeve			X	X													
7	SL-176-NBZ-SS-0.0-0.5	4.11.12	1348	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
	SL-182-NBZ-SS-0.0-0.5	4.11.12	1041	SOIL	NONE	1-SS Sleeve			X	X													
8	SL-182-NBZ-SS-0.0-0.5	4.11.12	1041	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/11/2012 1630	4/11/12 1720	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

Temp = 3.5°C

NBZ Surface

SAMPLE DELIVERY GROUP

12D122

12D122 1 of 2

PHASE 1

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
1	SL-011-NBZ-SS-0.0-0.5	4.12.12	1112	SOIL	NONE	1-SS Sleeve			X	X													
	SL-011-NBZ-SS-0.0-0.5	4.12.12	1112	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X	X	X	X			
2	SL-144-NBZ-SS-0.0-0.5	4.12.12	0922	SOIL	NONE	1-SS Sleeve			X	X													
	SL-144-NBZ-SS-0.0-0.5	4.12.12	0922	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X							
3	SL-152-NBZ-SS-0.0-0.5	4.12.12	0955	SOIL	NONE	1-SS Sleeve			X	X													
	SL-152-NBZ-SS-0.0-0.5	4.12.12	0955	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X							
4	SL-158-NBZ-SS-0.0-0.5	4.12.12	1504	SOIL	NONE	1-SS Sleeve			X	X													
	SL-158-NBZ-SS-0.0-0.5	4.12.12	1504	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X							
5	SL-172-NBZ-SS-0.0-0.5	4.12.12	1435	SOIL	NONE	1-SS Sleeve			X	X													
	SL-172-NBZ-SS-0.0-0.5	4.12.12	1435	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/12/2012 1630	4/12/12 1815	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ Surface

12D122

2 of 2

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
						*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
6 EB-NBZ-SS-041212	04.12.12	1500	WATER	NONE	9-1 liter ambers			X	X					X	X	X		X				
EB-NBZ-SS-041212	04.12.12	1500	WATER	NONE	1-500 mL poly		X			X	X	X					X					
EB-NBZ-SS-041212	04.12.12	1500	WATER	HNO3	1-250 mL poly	X																
EB-NBZ-SS-041212	04.12.12	1500	WATER	NaOH	1-250 mL poly														X			
EB-NBZ-SS-041212	04.12.12	1500	WATER	None	6- 40 mL vials															X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/12/2012/ 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

5

NBZ EB

SAMPLE DELIVERY GROUP

12D135

12D135

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-180-NBZ-SS-0.0-0.5	4.13.12	0945	SOIL	NONE	1-SS Sleeve			X	X													
	SL-180-NBZ-SS-0.0-0.5	4.13.12	0945	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
2	SL-183-NBZ-SS-0.0-0.5	4.13.12	1050	SOIL	NONE	1-SS Sleeve			X	X													
	SL-183-NBZ-SS-0.0-0.5	4.13.12	1050	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/13/2012 1630	4/13/12 1530	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

NBZ Surface

SAMPLE DELIVERY GROUP

12D146

CHAIN OF CUSTODY RECORD

12D146

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-013-NBZ-SS-0.0-0.5	4.16.12	1007	SOIL	NONE	1-SS Sleeve			X	X													
	SL-013-NBZ-SS-0.0-0.5	4.16.12	1007	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X			
2	SL-159-NBZ-SS-0.0-0.5	4.16.12	1101	SOIL	NONE	1-SS Sleeve			X	X													
	SL-159-NBZ-SS-0.0-0.5	4.16.12	1101	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
3	SL-160-NBZ-SS-0.0-0.5	4.16.12	1440	SOIL	NONE	1-SS Sleeve			X	X													
	SL-160-NBZ-SS-0.0-0.5	4.16.12	1440	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
4	SL-164-NBZ-SS-0.0-0.5	4.16.12	1440	SOIL	NONE	1-SS Sleeve			X	X													
	SL-164-NBZ-SS-0.0-0.5	4.16.12	1440	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							
5	SL-173-NBZ-SS-0.0-0.5MS	4.16.12	1518	SOIL	NONE	2-SS Sleeve			X	X													M S / M S D
	SL-173-NBZ-SS-0.0-0.5MS	4.16.12	1518	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X							M S / M S D
6	DUP-08-NBZ-QC-041612	4.16.12	1523	SOIL	NONE	1-SS Sleeve			X	X													
	DUP-08-NBZ-QC-041612	4.16.12	1523	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/16/2012 1630	4/16/12 1820	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

T=3.3°C

NBZ Surface

SAMPLE DELIVERY GROUP

12D154

12 D154

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
1	EB-NBZ-SB-041712	04.17.12	1545	WATER	NONE	7-1 liter ambers			X	X								X		X				
	EB-NBZ-SB-041712	04.17.12	1545	WATER	NONE	1-500 mL poly		X			X	X	X						X					
	EB-NBZ-SB-041712	04.17.12	1545	WATER	HNO3	1-250 mL poly	X																	
	EB-NBZ-SB-041712	04.17.12	1545	WATER	NaOH	1-250 mL poly															X			
	EB-NBZ-SB-041712	04.17.12	1545	WATER	NONE	6- 40 mL vials																X	X	
	EB-NBZ-SB-041712	04.17.12	1545	WATER	HCL	2- 40 mL vials											X							
2	EB-NBZ-SS-041712	04.17.12	1500	WATER	NONE	9-1 liter ambers			X	X					X	X		X		X				
	EB-NBZ-SS-041712	04.17.12	1500	WATER	NONE	1-500 mL poly		X			X	X	X						X					
	EB-NBZ-SS-041712	04.17.12	1500	WATER	HNO3	1-250 mL poly	X																	
	EB-NBZ-SS-041712	04.17.12	1500	WATER	NaOH	1-250 mL poly															X			
	EB-NBZ-SS-041712	04.17.12	1500	WATER	None	6- 40 mL vials																X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/17/2012 1630	4/17/12 1810	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		NA	

Cooler #1 T = 9.8°C

Cooler #2 T = 8.9°C

EB

12D154

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	SECONDARY ANALYS: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	Other Instructions and Notes
3	SL-014-NBZ-SS-0.0-0.5	4.17.12	1010	SOIL	NONE	1-SS Sleeve			X	X											
	SL-014-NBZ-SS-0.0-0.5	4.17.12	1010	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X	
4	SL-088-NBZ-SS-0.0-0.5	4.17.12	1100	SOIL	NONE	1-SS Sleeve			X	X											
	SL-088-NBZ-SS-0.0-0.5	4.17.12	1100	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X	
5	SL-090-NBZ-SS-0.0-0.5	4.17.12	1412	SOIL	NONE	1-SS Sleeve			X	X											
	SL-090-NBZ-SS-0.0-0.5	4.17.12	1412	SOIL	NONE	1-16 oz Jar	X	X			X	X	X		X	X	X	X	X	X	
6	SL-147-NBZ-SS-0.0-0.5	4.17.12	1525	SOIL	NONE	1-SS Sleeve			X	X											
	SL-147-NBZ-SS-0.0-0.5	4.17.12	1525	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X					
7	SL-156-NBZ-SS-0.0-0.5	4.17.12	1117	SOIL	NONE	1-SS Sleeve			X	X											
	SL-156-NBZ-SS-0.0-0.5	4.17.12	1117	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X					
8	SL-161-NBZ-SS-0.0-0.5	4.17.12	1150	SOIL	NONE	1-SS Sleeve			X	X											
	SL-161-NBZ-SS-0.0-0.5	4.17.12	1150	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X					
9	SL-162-NBZ-SS-0.0-0.5	4.17.12	0955	SOIL	NONE	1-SS Sleeve			X	X											
	SL-162-NBZ-SS-0.0-0.5	4.17.12	0955	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X					
10	SL-166-NBZ-SS-0.0-0.5	4.17.12	1030	SOIL	NONE	1-SS Sleeve			X	X											
	SL-166-NBZ-SS-0.0-0.5	4.17.12	1030	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X					

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)		Laboratory:
	04/17/2012 1630		4/17/12 1810	EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**		
		NA		

Cooler #3 T=4.9°C

NBZ Surface

SAMPLE DELIVERY GROUP

12D166

12D166

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Metals EPA 6010/6020BA7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	SS ONLY: *Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	COR: TPH-GRO EPA 8015B $	SECONDARY ANALYSES: **TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	Other Instructions and Notes
1	SL-008-NBZ-SB-4.5	4.18.12	0950	SOIL	NONE	3-Encores											X							
2	SL-008-NBZ-SB-4.0-5.0	4.18.12	0955	SOIL	NONE	1-SS Sleeve			X	X														
	SL-008-NBZ-SB-4.0-5.0	4.18.12	0955	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X				X	X	X	X			
	SL-008-NBZ-SB-4.0-5.0	4.18.12	0955	SOIL	NONE	1-4 oz Jar																X	X	
3	SL-081-NBZ-SS-0.0-0.5	4.18.12	1000	SOIL	NONE	1-SS Sleeve			X	X														
	SL-081-NBZ-SS-0.0-0.5	4.18.12	1000	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X		X	X	X	X			
4	SL-082-NBZ-SS-0.0-0.5	4.18.12	1053	SOIL	NONE	1-SS Sleeve			X	X														
	SL-082-NBZ-SS-0.0-0.5	4.18.12	1053	SOIL	NONE	1-16 oz Jar	X	X				X	X	X	X	X		X	X	X	X			
5	SL-082-NBZ-SB-3.0	4.18.12	1100	SOIL	NONE	3-Encores											X							
6	SL-082-NBZ-SB-2.5-3.5	4.18.12	1057	SOIL	NONE	1-SS Sleeve			X	X														
	SL-082-NBZ-SB-2.5-3.5	4.18.12	1057	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X		X	X	X	X			
7	SL-083-NBZ-SS-0.0-0.5	4.18.12	1406	SOIL	NONE	1-SS Sleeve			X	X														
	SL-083-NBZ-SS-0.0-0.5	4.18.12	1406	SOIL	NONE	1-16 oz Jar	X	X				X	X	X	X	X		X	X	X	X			
8	SL-146-NBZ-SS-0.0-0.5	4.18.12	1540	SOIL	NONE	1-SS Sleeve			X	X														
	SL-146-NBZ-SS-0.0-0.5	4.18.12	1540	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X								
9	SL-160-NBZ-SS-0.0-0.5	4.18.12	1425	SOIL	NONE	1-SS Sleeve			X	X														
	SL-160-NBZ-SS-0.0-0.5	4.18.12	1425	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X								
10	SL-189-NBZ-SS-0.0-0.5	4.18.12	1120	SOIL	NONE	1-SS Sleeve			X	X														
	SL-189-NBZ-SS-0.0-0.5	4.18.12	1120	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X								
11	TB-041812	4.18.12	0800	SOIL	HCL	3-40 mL Vials											X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/18/2012 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	4/18/12 1820	NA	

T=2.0°C

NBZ Surface

SAMPLE DELIVERY GROUP

12D176

120176

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		ENCORES			SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	VOCs/EPA 8260B $	1,4-Dioxane EPA 8260SIM $	TPH-GRO EPA 8015B $	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-012-NBZ-SS-0.0-0.5	4.19.12	0846	SOIL	NONE	1-SS Sleeve			X	X																
	SL-012-NBZ-SS-0.0-0.5	4.19.12	0846	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X				X	X	X	X			
2	SL-012-NBZ-SB-1.0	4.19.12	0920	SOIL	NONE	9-Encores											X	X	X							PID=14 ppm
3	SL-012-NBZ-SB-0.5-1.5	4.19.12	0925	SOIL	NONE	1-SS Sleeve			X	X																
	SL-012-NBZ-SB-0.5-1.5	4.19.12	0925	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X						X	X	X	X	X	X	Pls take glycols/alcohols from 16 oz
4	SL-017-NBZ-SS-0.0-0.5	4.19.12	1009	SOIL	NONE	1-SS Sleeve			X	X																
	SL-017-NBZ-SS-0.0-0.5	4.19.12	1009	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X				X	X	X	X			
5	SL-086-NBZ-SS-0.0-0.5	4.19.12	1140	SOIL	NONE	1-SS Sleeve											X	X	X							
	SL-086-NBZ-SS-0.0-0.5	4.19.12	1140	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X				X	X	X	X			
6	SL-087-NBZ-SS-0.5	4.19.12	1035	SOIL	NONE	9-Encores											X	X	X							PID=2 ppm
7	SL-087-NBZ-SS-0.0-0.5	4.19.12	1009	SOIL	NONE	1-SS Sleeve			X	X																
	SL-087-NBZ-SS-0.0-0.5	4.19.12	1009	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X				X	X	X	X			
	SL-087-NBZ-SS-0.0-0.5	4.19.12	1009	SOIL	NONE	1-16 oz Jar																		X	X	
8	SL-150-NBZ-SS-0.0-0.5	4.19.12	1535	SOIL	NONE	1-SS Sleeve			X	X																
	SL-150-NBZ-SS-0.0-0.5	4.19.12	1535	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										
9	SL-178-NBZ-SS-0.0-0.5	4.19.12	1500	SOIL	NONE	1-SS Sleeve			X	X																
	SL-178-NBZ-SS-0.0-0.5	4.19.12	1500	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										
10	SL-179-NBZ-SS-0.0-0.5	4.19.12	1110	SOIL	NONE	1-SS Sleeve			X	X																
	SL-179-NBZ-SS-0.0-0.5	4.19.12	1110	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										
11	SL-184-NBZ-SS-0.0-0.5	4.19.12	1005	SOIL	NONE	1-SS Sleeve			X	X																
	SL-184-NBZ-SS-0.0-0.5	4.19.12	1005	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										
12	SL-193-NBZ-SS-0.0-0.5MS	4.19.12	1145	SOIL	NONE	1-SS Sleeve			X	X																M S / M S D
	SL-193-NBZ-SS-0.0-0.5MS	4.19.12	1145	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										M S / M S D
13	DUP-08-NBZ-QC-041912	4.19.12	1150	SOIL	NONE	1-SS Sleeve			X	X																
	DUP-08-NBZ-QC-041912	4.19.12	1150	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X										
14	TB-041912	4.19.12	0800	SOIL	NONE	9-40 mL Vials											X	X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/19/2012 1630		EMAX Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	4/19/12 1830	NA	

NBZ Surface

SAMPLE DELIVERY GROUP

12D192

12D192

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		SECONDARY ANALYSES						Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	**TPH-EFH EPA 8015B	**Nitrates EPA 300.0	**Energetics EPA 8330A	**Cyanide EPA 9014	**Glycols EPA 8015B	**Alcohols EPA 8015B	
1	SL-016-NBZ-SS-0.0-0.5	4.20.12	1210	SOIL	NONE	1-SS Sleeve			X	X													
	SL-016-NBZ-SS-0.0-0.5	4.20.12	1210	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X	X	X	X			
2	SL-018-NBZ-SS-0.0-0.5	4.20.12	1059	SOIL	NONE	1-SS Sleeve			X	X													
	SL-018-NBZ-SS-0.0-0.5	4.20.12	1059	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X	X	X	X			
3	SL-080-NBZ-SS-0.0-0.5	4.20.12	0950	SOIL	NONE	1-SS Sleeve			X	X													
	SL-080-NBZ-SS-0.0-0.5	4.20.12	0950	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X	X	X	X			
4	SL-089-NBZ-SS-0.0-0.5	4.20.12	1206	SOIL	NONE	1-SS Sleeve			X	X													
	SL-089-NBZ-SS-0.0-0.5	4.20.12	1206	SOIL	NONE	1-16 oz Jar	X	X			X	X	X	X	X	X	X	X	X	X			
5	SL-170-NBZ-SS-0.0-0.5	4.20.12	1055	SOIL	NONE	1-SS Sleeve			X	X													
	SL-170-NBZ-SS-0.0-0.5	4.20.12	1055	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X							
6	SL-171-NBZ-SS-0.0-0.5	4.20.12	1325	SOIL	NONE	1-SS Sleeve			X	X													
	SL-171-NBZ-SS-0.0-0.5	4.20.12	1325	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X							
7	SL-202-NBZ-SS-0.0-0.5	4.20.12	1010	SOIL	NONE	1-SS Sleeve			X	X													
	SL-202-NBZ-SS-0.0-0.5	4.20.12	1010	SOIL	NONE	1-8 oz Jar	X	X			X	X	X	X	X	X							

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/20/2012 1630	4-20-12 1805	EMAX Laboratories, Inc.
Received by: (*Signature*)		**Airbill No.(s)**	
		NA	

T = 2.0°C

NBZ Surface

SAMPLE DELIVERY GROUP

12D197

CDM-1101

CHAIN OF CUSTODY RECORD

12D197

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

	SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES								SS ONLY		Other Instructions and Notes
							*Metals EPA 6010/6020B&7471A or 7470A	*Fluoride EPA 300.0	*SVOCs EPA 8270C & PAHs 8270 SIM	*PCBs/PCTs EPA 8082	*Perchlorate EPA 314.0	*Hex Chrome EPA 7199A	*pH EPA 9045C/9040B	Perchlorate Confirmation by EPA 6850 (10%)	*Pesticides EPA 8081A (surface soil only)	*Herbicides EPA 8151A (surface soil only)	
1	SL-199-NBZ-SS-0.0-0.5	4.23.12	0942	SOIL	NONE	1-SS Sleeve			X	X							
	SL-199-NBZ-SS-0.0-0.5	4.23.12	0942	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X	
2	SL-200-NBZ-SS-0.0-0.5	4.23.12	1039	SOIL	NONE	1-SS Sleeve			X	X							
	SL-200-NBZ-SS-0.0-0.5	4.23.12	1039	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X	
3	SL-201-NBZ-SS-0.0-0.5	4.23.12	1110	SOIL	NONE	1-SS Sleeve			X	X							
	SL-201-NBZ-SS-0.0-0.5	4.23.12	1110	SOIL	NONE	1-8 oz Jar	X	X			X	X	X		X	X	
4	EB-NBZ-SS-042312	4.23.12	1530	WATER	NONE	7-1 liter ambers			X	X					X	X	
	EB-NBZ-SS-042312	4.23.12	1530	WATER	NONE	1-500 mL poly		X			X	X	X				
	EB-NBZ-SS-042312	4.23.12	1530	WATER	HNO3	1-250 mL poly	X										

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	04/23/2012 1630	4/23/12 1810	EMAX Laboratories, Inc.
Received by: (*Signature*)		Airbill No.(s) NA	

T= 3.0 °C

NBZ Surface

SAMPLE DELIVERY GROUP

DE296

acct# 13013 Ap# 1295118 Sample# 6577275-87

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-002-NBZ-SS-0.0-0.5	3.12.12	1115	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-002-NBZ-SB-4.0-5.0	3.12.12	1130	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-002-NBZ-SB-7.5-8.5	3.12.12	1140	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-003-NBZ-SS-0.0-0.5	3.12.12	0860	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-003-NBZ-SB-4.0-5.0	3.12.12	0950	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-007-NBZ-SB-4.0-5.0	3.12.12	1550	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-007-NBZ-SB-9.0-10.0	3.12.12	1600	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-010-NBZ-SB-4.0-6.0	3.12.12	1420	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-005-NBZ-SB-4.0-5.0	3.13.12	1025	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-006-NBZ-SB-3.0-4.0	3.13.12	0900	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-015-NBZ-SS-0.0-0.5	3.13.12	1130	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-021-NBZ-SS-0.0-0.5	3.13.12	1530	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-021-NBZ-SB-4.0-5.0	3.13.12	1545	SOIL	NONE	1-8 oz Jar	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/13/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Brenda Burk	3-14-12 925	8767 9858 7560	

SAMPLE DELIVERY GROUP

DE297

acct#13013 Gp#1295739 sample#6580644-58

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS	SECONDARY ANALYSIS			Other Instructions and Notes
						*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	
SL-019-NBZ-SB-3.0-4.0	3.13.12	1435	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-019-NBZ-~~SB~~-0.0-0.5 SS	3.13.12	1350	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-022-NBZ-SB-4.0-5.0	3.14.12	1010	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-022-NBZ-SB-9.0-10.0	3.14.12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-023-NBZ-SB-4.0-5.0	3.14.12	1245	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-023-NBZ-SB-8.5-9.5	3.14.12	1255	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-022-NBZ-SS-0.0-0.5	3.14.12	0903	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-023-NBZ-SS-0.0-0.5	3.14.12	1138	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-024-NBZ-SS-0.0-0.5	3.14.12	1050	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-030-NBZ-SS-0.0-0.5	3.14.12	1500	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-029-NBZ-SS-0.0-0.5	3.15.12	0900	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-052-NBZ-SS-0.0-0.5	3.15.12	1205	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-058-NBZ-SS-0.0-0.5	3.15.12	1130	SOIL	NONE	1-8 oz Jar	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/15/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time 3/16/12 1025	Airbill No.(s)	

SL-019-NBZ-SB-0.0-0.5 was updated to SL-019-NBZ-SS-0.0-0.5 per bottle labels.
This was confirmed by PH. NLM 3/22/12

acct#13013 Cp#1295739 Sample# 6580644-58

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
EB-NBZ-SB-031512	03.15.12	1500	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-031512	03.15.12	1500	WATER	NONE	1-250 mL glass	X	X	X	X	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	3/15/2012 / 1630	Suzette Lehman	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
Suzette Lehman	3/16/12 1025		

SAMPLE DELIVERY GROUP

DE298

acct#13013 Cp# 1296007 Sample# 6582497-508

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSES: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-053-NBZ-SS-0.0-0.5	3.15.12	1420	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-055-NBZ-SB-3.5-4.5	3.15.12	1600	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-056-NBZ-SB-0.0-0.5 SS	3.15.12	1535	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-058-NBZ-SB-3.0-4.0	3.15.12	1550	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-067-NBZ-SB-1.5-2.5	3.16.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-068-NBZ-SB-2.0-2.5-MS/MSD	3.16.12	1015	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-072-NBZ-SB-4.0-5.0	3.16.12	1445	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-01-NBZ-QC-031612	3.16.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/16/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 7537	

3-19-12 930

SL-056-NBZ-SS-0.0-0.5 was updated per the bottle labels and confirmed by PH.
NLM 3/22/12

SAMPLE DELIVERY GROUP

DE299

acct#13013 Cp# 1296971 Sample# 6587615-27

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-071-NBZ-SB-4.0-5.0	3/19/12	0935	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-074-NBZ-SB-0.0-0.5	3/19/12	1340	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-074-NBZ-SB-0.5-1.5	3/19/12	1055	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-069-NBZ-SB-8.0-9.0	3/20/12	1430	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-070-NBZ-SB-0.0-0.5 SS	3/20/12	1525	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-076-NBZ-SS-0.0-0.5	3/20/12	0900	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-076-NBZ-SS-0.0-0.5	3/201/2	0935	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-077-NBZ-SS-0.0-0.5 SS	3/20/12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-077-NBZ-SB-2.0-3.0	3/20/12	1060	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-065-NBZ-SB-1.0-2.0	3/21/12	1055	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-066-NBZ-SB-2.0-3.0	3/21/12	0930	SOIL	NONE	1-8 oz Jar	X	X	X	X	
EB-NBZ-SS-032112	03/21/12	1600	WATER	NONE	1-1 Amber	X	X	X	X	
EB-NBZ-SS-032112	03/21/12	1600	WATER	NONE	1-500 mL plastic	X	X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	3/20/2012 / 1630	LLI 3/22/12 0950	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	

The above changes were made per the bottle labels and were confirmed by PH.
NLM 3/23/12

SAMPLE DELIVERY GROUP

DE300

acct# 13013 Gp# 1297364 Sample# 6589217-25

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSES: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-062-NBZ-SB-2.5-3.5	3/21/12	1540	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-063-NBZ-SB-0.5-1.5	3/21/12	1445	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-064-NBZ-SB-0.5-1.5	3/21/12	1330	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-104-NBZ-SS-0.0-0.5	3/21/12	1345	SOIL	NONE	1-8 oz Jar	X				
SL-054-NBZ-SS-0.0-0.5	3/22/12	1345	SOIL	NONE	1-4 oz Jar	X	X	X	X	
SL-055-NBZ-SS-0.0-0.5	3/22/12	1125	SOIL	NONE	1-4 oz Jar	X	X	X	X	
SL-059-NBZ-SB-0.0-1.0	3/22/12	1050	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-060-NBZ-SB-0.0-1.0	3/22/12	1025	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-061-NBZ-SB-1.0-2.0	3/22/12	0930	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-116-NBZ-SS-0.0-0.5	3/22/12	1500	SOIL	NONE	1-8 oz Jar	X				
EB-NBZ-SB-032212	03/22/12	1530	WATER	NONE	4-1L Ambers	X	X	X	X	
EB-NBZ-SB-032212	03/22/12	1530	WATER	NONE	1-1-50mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/22/2012 / 1630	Kathy Brinkley 3-23-12/0910	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

2659

acct# 13013 Gp# 1297264 Sample# 6589217-25

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
						PRIMARY ANALYSIS	SECONDARY ANALYSIS			
SL-062-NBZ-SB-2.5-3.5	3/21/12	1540	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-063-NBZ-SB-0.5-1.5	3/21/12	1445	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-064-NBZ-SB-0.5-1.5	3/21/12	1330	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-104-NBZ-SS-00-0.5	3/21/12	1345	SOIL	NONE	1-8 oz Jar	X				
SL-054-NBZ-SS-0.0-0.5	3/22/12	1345	SOIL	NONE	1-4 oz Jar	X	X	X	X	
SL-055-NBZ-SS-0.0-0.5	3/22/12	1125	SOIL	NONE	1-4 oz Jar	X	X	X	X	
SL-059-NBZ-SS-0.0-0.5	3/22/12	1050	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-060-NBZ-SS-0.0-0.5	3/22/12	1025	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-061-NBZ-SB-1.0-2.0	3/22/12	0900	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-116-NBZ-SS-0.0-0.5	3/22/12	1500	SOIL	NONE	1-8 oz Jar	X				
EB-NBZ-SB-032212	03-22-12	1530	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-032212	03-22-12	1630	WATER	NONE	1-250 ml glass	X	X	X	X	

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	3/22/2012 / 1630		Lancaster Laboratories, Inc.
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1589 R3E3

SAMPLE DELIVERY GROUP

DE301

13013/1297482/6590840-50

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
						PRIMARY ANALYSIS	SECONDARY ANALYSIS			
SL-048-NBZ-SS-0.0-0.5	3.23.12	1200	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-048-NBZ-SB-4.0-5.0	3.23.12	1230	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-049-NBZ-SB-2.0-3.0	3.23.12	1115	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-051-NBZ-SB-1.5-2.5	3.23.12	1015	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-057-NBZ-SS-0.0-0.5MS	3.23.12	0920	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
DUP-02-NBZ-QC-032312	3.23.12	0928	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-047-NBZ-SB-4.0-5.0	3.23.12	1520	SOIL	NONE	1-8 oz Jar	X	X	X	X	

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[signature]	3/23/2012 / 1630	[signature] LT 3/26/12 0820	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No(s)	

2559 1 0228

SAMPLE DELIVERY GROUP

DE302

acct# 13013 Grp# 1298318 Sample# 6595127-37

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSES: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-042-NBZ-SS-0.0-0.5	3.26.12	1410	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-043-NBZ-SS-0.0-0.5	3.26.12	1535	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-045-NBZ-SS-0.0-0.5	3.26.12	1141	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-045-NBZ-SS-4.0-5.0	3.26.12	1155	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-046-NBZ-SS-0.0-0.5	3.26.12	0920	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-046-NBZ-SS-4.0-5.0	3.26.12	1015	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-050-NBZ-SS-0.0-0.5	3.26.12	1430	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-123-NBZ-SS-0.0-0.5	3.26.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-133-NBZ-SS-0.0-0.5	3.26.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-124-NBZ-SS-0.0-0.5	3.26.12	1020	SOIL	NONE	1-4 oz Jar	X				
SL-126-NBZ-SS-0.0-0.5	3.26.12	1120	SOIL	NONE	1-4 oz Jar	X				
SL-195-NBZ-SS-0.0-0.5	3.26.12	1540	SOIL	NONE	1-4 oz Jar	X				
SL-196-NBZ-SS-0.0-0.5	3.26.12	1145	SOIL	NONE	1-4 oz Jar	X				
SL-038-NBZ-SS-0.0-0.5	3.27.12	1110	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-078-NBZ-SS-0.0-0.5	3.27.12	0940	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-095-NBZ-SS-0.0-0.5	3.27.12	1017	SOIL	NONE	1-4 oz Jar	X				
SL-119-NBZ-SS-0.0-0.5	3.27.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-130-NBZ-SS-0.0-0.5	3.27.12	1020	SOIL	NONE	1-4 oz Jar	X				
EB-NBZ-SB-032712	3.27.12	1500	WATER	NONE	4-1 L Ambers					
EB-NBZ-SB-032712	3.27.12	1500	WATER	NONE	1-250 mL glass					
EB-NBZ-SS-032712	3.27.12	1530	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-032712	3.27.12	1530	WATER	NONE	1-250 mL glass	X	X	X	X	

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	3/22/2012 / 1630	LLJ 8/28/12 0915	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	

2595127

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-042-NBZ-SS-0.0-0.5	3.26.12	1410	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-043-NBZ-SS-0.0-0.5	3.26.12	1655	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-045-NBZ-SS-0.0-0.5	3.26.12	1141	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-045-NBZ-SB-4.0-5.0	3.26.12	1155	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-049-NBZ-SS-0.0-0.5	3.26.12	0925	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-049-NBZ-SB-4.0-5.0	3.26.12	0935	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-050-NBZ-SS-0.0-0.5	3.26.12	1430	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-132-NBZ-SS-0.0-0.5	3.26.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-133-NBZ-SS-0.0-0.5	3.26.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-125-NBZ-SS-0.0-0.5	3.26.12	1120	SOIL	NONE	1-4 oz Jar	X				
SL-126-NBZ-SS-0.0-0.5	3.26.12	1120	SOIL	NONE	1-4 oz Jar	X				
SL-196-NBZ-SS-0.0-0.5	3.26.12	1540	SOIL	NONE	1-4 oz Jar	X				
SL-198-NBZ-SS-0.0-0.5	3.26.12	1145	SOIL	NONE	1-4 oz Jar	X				
SL-077-NBZ-SS-0.0-0.5	3.27.12	0910	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-078-NBZ-SS-0.0-0.5	3.27.12	0940	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-118-NBZ-SS-0.0-0.5	3.27.12	1001	SOIL	NONE	1-4 oz Jar	X				
SL-119-NBZ-SS-0.0-0.5	3.27.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-120-NBZ-SS-0.0-0.5	3.27.12	1020	SOIL	NONE	1-4 oz Jar	X				
EB-NBZ-SB-032712	3.27.12	1500	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-032712	3.27.12	1500	WATER	NONE	1-250 mL glass	X	X	X	X	
EB-NBZ-SS-032712	3.27.12	1630	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-032712	3.27.12	1630	WATER	NONE	1-250 mL glass	X	X	X	X	

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	3/22/2012 / 1630		Lancaster Laboratories, Inc.
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SAMPLE DELIVERY GROUP

DE303

acct#13013 Cap# 1299117 Smpl# 6349515-25

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-036-NBZ-SB-4.0-5.0	3.28.12	1103	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-036-NBZ-SB-7.5-8.5	3.28.12	1230	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-037-NBZ-SB-3.0-4.0	3.28.12	1512	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-039-NBZ-SB-2.3.0	3.28.12	1435	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SS-0.0-0.5	3.28.12	0851	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SB-2.5-3.5MS	3.28.12	1000	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-094-NBZ-SS-0.0-0.5	3.28.12	1420	SOIL	NONE	1-4 oz Jar	X				
SL-096-NBZ-SS-0.0-0.5	3.28.12	0905	SOIL	NONE	1-4 oz Jar	X				
SL-102-NBZ-SS-0.0-0.5	3.27.12	1355	SOIL	NONE	1-4 oz Jar	X				
SL-106-NBZ-SS-0.0-0.5	3.27.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-129-NBZ-SS-0.0-0.5	3.27.12	1435	SOIL	NONE	1-4 oz Jar	X				
SL-135-NBZ-SS-0.0-0.5	3.28.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-136-NBZ-SS-0.0-0.5	3.28.12	1345	SOIL	NONE	1-4 oz Jar	X				
SL-139-NBZ-SS-0.0-0.5	3.28.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-141-NBZ-SS-0.0-0.5	3.28.12	1460	SOIL	NONE	1-4 oz Jar	X				
SL-143-NBZ-SS-0.0-0.5	3.28.12	0915	SOIL	NONE	1-4 oz Jar	X				
SL-044-NBZ-SS-0.0-0.5	3.29.12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SS-0.0-0.5	3.29.12	1120	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-092-NBZ-SS-0.0-0.5MS	3.29.12	0840	SOIL	NONE	1-8 oz Jar	X	X	X	X	MS/MSD
SL-101-NBZ-SS-0.0-0.5	3.29.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-103-NBZ-SS-0.0-0.5	3.29.12	1110	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-130-NBZ-SS-0.0-0.5	3.29.12	0940	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-05-NBZ-QC-032912	3.29.12	1017	SOIL	NONE	1-8 oz Jar	X	X	X	X	
[illegible]	[illegible]	[illegible]	WATER	NONE	[illegible]	X	X	X	X	
[illegible]	[illegible]	[illegible]	WATER	NONE	[illegible]	X	X	X	X	
[illegible]	[illegible]	[illegible]	WATER	NONE	[illegible]	X	X	X	X	
[illegible]	[illegible]	[illegible]	WATER	NONE	[illegible]	X	X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
[signature]	3/29/2012 / 1630	[signature] 3/30/12 0930	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	

acct#13013 Cp# 1299117 sample# 6599315 25

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-036-NBZ-SB-4.0-5.0	3.28.12	1103	SOIL	NONE	1-8 oz Jar	X	X	X	X	Amended COC NMA 4/1/12
SL-036-NBZ-SB-7.5-8.5	3.28.12	1230	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-037-NBZ-SB-3.0-4.0	3.28.12	1512	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-039-NBZ-SB-2.-3.0	3.28.12	1435	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SS-0.0-0.5	3.28.12	0851	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SB-2.5-3.5MS	3.28.12	1000	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-094-NBZ-SS-0.0.-0.5	3.28.12	1420	SOIL	NONE	1-4 oz Jar	X				
SL-096-NBZ-SS-0.0.-0.5	3.28.12	0945	SOIL	NONE	1-4 oz Jar	X				
SL-102-NBZ-SS-0.0.-0.5	3.27.12	1355	SOIL	NONE	1-4 oz Jar	X				
SL-109-NBZ-SS-0.0.-0.5	3.27.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-129-NBZ-SS-0.0.-0.5	3.27.12	1435	SOIL	NONE	1-4 oz Jar	X				
SL-135-NBZ-SS-0.0.-0.5	3.28.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-136-NBZ-SS-0.0.-0.5	3.28.12	1345	SOIL	NONE	1-4 oz Jar	X				
SL-139-NBZ-SS-0.0.-0.5	3.28.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-141-NBZ-SS-0.0.-0.5	3.28.12	0915	SOIL	NONE	1-4 oz Jar	X				
SL-143-NBZ-SS-0.0.-0.5	3.28.12	1450	SOIL	NONE	1-4 oz Jar	X				
SL-044-NBZ-SS-0.0-0.5	3.29.12	1311	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SS-0.0-0.5	3.29.12	0909	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SB-4.0-5.0	3.29.12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-092-NBZ-SS-0.0-0.5MS	3.29.12	1143	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-101-NBZ-SS-0.0-0.5	3.29.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-05-NBZ-QC-032912	3.29.12	1017	SOIL	NONE	1-8 oz Jar	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	1-250 mL glass	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	1-250 mL glass	X	X	X	X	

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	3/29/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

SAMPLE DELIVERY GROUP

DE304

acct# 12013 Cp# 1209119 Sample# 6599545-56

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
						PRIMARY ANALYSES				
SL-036-NBZ-SB-4.0-5.0	3.28.12	1103	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-036-NBZ-SB-7.5-8.5	3.28.12	1230	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-037-NBZ-SB-3.0-4.0	3.28.12	1512	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-039-NBZ-SB-2.-3.0	3.28.12	1435	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SS-0.0-0.5	3.28.12	0851	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SB-2.5-3.5MS	3.28.12	1000	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-094-NBZ-SS-0.0-0.5	3.28.12	1420	SOIL	NONE	1-4 oz Jar	X				
SL-096-NBZ-SS-0.0.-0.5	3.28.12	0905	SOIL	NONE	1-4 oz Jar	X				
SL-102-NBZ-SS-0.0.-0.5	3.27.12	1355	SOIL	NONE	1-4 oz Jar	X				
SL-109-NBZ-SS-0.0.-0.5	3.27.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-129-NBZ-SS-0.0.-0.5	3.27.12	1435	SOIL	NONE	1-4 oz Jar	X				
SL-135-NBZ-SS-0.0.-0.5	3.28.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-138-NBZ-SS-0.0.-0.5	3.28.12	1345	SOIL	NONE	1-4 oz Jar	X				
SL-139-NBZ-SS-0.0.-0.5	3.28.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-141-NBZ-SS-0.0.-0.5	3.28.12	1450	SOIL	NONE	1-4 oz Jar	X				
SL-143-NBZ-SS-0.0.-0.5	3.28.12	0915	SOIL	NONE	1-4 oz Jar	X				
SL-044-NBZ-SS-0.0-0.5	3.29.12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SS-0.0-0.5	3.29.12	1120	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-092-NBZ-SS-0.0-0.5MS	3.29.12	1540	SOIL	NONE	1-8 oz Jar	X	X	X	X	MS/MSD
SL-101-NBZ-SS-0.0-0.5	3.29.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-103-NBZ-SS-0.0-0.5	3.29.12	1110	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-130-NBZ-SS-0.0-0.5	3.29.12	0940	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-05-NBZ-QC-032912	3.29.12	1017	SOIL	NONE	1-8 oz Jar	X	X	X	X	
EB-NBZ-5-032912	3.29.12	1555	WATER	NONE	All Containers	X	X	X	X	
EB-NBZ-30-032912	3.29.12	1600	WATER	NONE	2-500 mL Amber	X	X	X	X	
EB-NBZ-56-032912	3.29.12	1644	WATER	NONE	All Containers	X	X	X	X	
EB-NBZ-58-032912	3.29.12	1645	WATER	NONE	2-500 mL Amber	X	X	X	X	

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
[signature]	3/29/2012 / 1630	[signature] 3/30/12 0930	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	

acct#13013 Cp# 1299119 sample# 6599545-36

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
§ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
						PRI MA ONDARY ANAL BY				Amended COC NLM 4/9/12
SL-036-NBZ-SB-4.0-5.0	3.28.12	1103	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-036-NBZ-SB-7.5-8.5	3.28.12	1230	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-037-NBZ-SB-3.0-4.0	3.28.12	1512	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-039-NBZ-SB-2.-3.0	3.28.12	1435	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SS-0.0-0.5	3.28.12	0851	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SB-2.5-3.5MS	3.28.12	1000	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-094-NBZ-SS-0.0.-0.5	3.28.12	1420	SOIL	NONE	1-4 oz Jar	X				
SL-096-NBZ-SS-0.0.-0.5	3.28.12	0945	SOIL	NONE	1-4 oz Jar	X				
SL-102-NBZ-SS-0.0.-0.5	3.27.12	1355	SOIL	NONE	1-4 oz Jar	X				
SL-109-NBZ-SS-0.0.-0.5	3.27.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-129-NBZ-SS-0.0.-0.5	3.27.12	1435	SOIL	NONE	1-4 oz Jar	X				
SL-135-NBZ-SS-0.0.-0.5	3.28.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-136-NBZ-SS-0.0.-0.5	3.28.12	1345	SOIL	NONE	1-4 oz Jar	X				
SL-139-NBZ-SS-0.0.-0.5	3.28.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-141-NBZ-SS-0.0.-0.5	3.28.12	0915	SOIL	NONE	1-4 oz Jar	X				
SL-143-NBZ-SS-0.0.-0.5	3.28.12	1450	SOIL	NONE	1-4 oz Jar	X				
SL-044-NBZ-SS-0.0-0.5	3.29.12	1311	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SS-0.0-0.5	3.29.12	0909	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SB-4.0-5.0	3.29.12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-092-NBZ-SS-0.0-0.5MS	3.29.12	1143	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-101-NBZ-SS-0.0-0.5	3.29.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-05-NBZ-QC-032912	3.29.12	1017	SOIL	NONE	1-8 oz Jar	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	1-250 mL glass	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	1-250 mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/29/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	

SAMPLE DELIVERY GROUP

DE305

acct# 13013 Gp# 1299283 Sample# 6600769

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-079-NBZ-SS-0.0-0.5	3.30.12	0950	SOIL	NONE	1-8 oz Jar	X	X	X	X	
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
SL-134-NBZ-SS-0.0-0.5	3.30.12	1030	SOIL	NONE	1-4 oz Jar	X				
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
SL-103-NBZ-SS-0.0-0.5	3.29.12	0925	SOIL	NONE	1-4 oz Jar	X				
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
SL-130-NBZ-SS-0.0-0.5	3.29.12	1035	SOIL	NONE	1-4 oz Jar	X				
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
DUP-004-NBZ-QC-032912	3.29.12	1510	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/30/2012 / 1630	LLI 3/31/12 0935	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		7934 0303 2826	

7934 0303 2826

SAMPLE DELIVERY GROUP

DE306

acct# 13013 Cp# 1299986 Sample# 6605174-80

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-025-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-026-NBZ-SS-0.0-0.5	4.02.12	1230	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-027-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-028-NBZ-SS-0.0-0.5	4.02.12	0910	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-107-NBZ-SS-0.0-0.5	4.02.12	1358	SOIL	NONE	1-4 oz Jar	X				
SL-111-NBZ-SS-0.0-0.5	4.02.12	1339	SOIL	NONE	1-4 oz Jar	X				
SL-112-NBZ-SS-0.0-0.5	4.02.12	1040	SOIL	NONE	1-4 oz Jar	X				
SL-136-NBZ-SS-0.0-0.5	4.02.12	0926	SOIL	NONE	1-4 oz Jar	X				
SL-138-NBZ-SS-0.0-0.5	4.02.12	1011	SOIL	NONE	1-4 oz Jar	X				
SL-164-NBZ-SS-0.0-0.5	4.02.12	1010	SOIL	NONE	1-4 oz Jar	X				
SL-031-NBZ-SS-0.0-0.5	4.03.12	0930	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-033-NBZ-SS-0.0-0.5	4.03.12	1030	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-034-NBZ-SS-0.0-0.5	4.03.12	1122	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-108-NBZ-SS-0.0-0.5	4.03.12	0945	SOIL	NONE	1-4 oz Jar	X				
SL-122-NBZ-SS-0.0-0.5	4.03.12	1103	SOIL	NONE	1-4 oz Jar	X				
SL-127-NBZ-SS-0.0-0.5	4.03.12	1010	SOIL	NONE	1-4 oz Jar	X				
SL-169-NBZ-SS-0.0-0.5	4.03.12	0911	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	4/03/2012 / 1630	Brandy Bunk 4.4.12 930	Lancaster Laboratories, Inc.
Received by: (Signature)	**Date/Time**	**Airbill No.(s)**	
		7982 4521 9334	

SIGN

Acct#13013 Grp# 1300395 Sample# 6607516-21

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Tetrahydrofuran EPA 8015B	Other Instructions and Notes
SL-032-NBZ-SS-0.0-0.5	4.03.12	1400	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-035-NBZ-SS-0.0-0.5	4.03.12	1400	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-035-NBZ-SS-2.0-3.0	4.03.12	1440	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-140-NBZ-SS-0.0-0.5	4.03.12	1452	SOIL	NONE	1-4 oz Jar	X				
SL-140-NBZ-SS-0.0-0.5	4.03.12	1406	SOIL	NONE	1-4 oz Jar	X				
SL-140-NBZ-SS-0.0-0.5	4.03.12	1426	SOIL	NONE	1-4 oz Jar	X				
SL-020-NBZ-SS-0.0-0.5	4.04.12	1440	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-020-NBZ-SS-2.0-3.0	4.04.12	1440	SOIL	NONE	1-4 oz Jar	X				
SL-097-NBZ-SS-0.0-0.5	4.04.12	0914	SOIL	NONE	1-4 oz Jar	X				
SL-099-NBZ-SS-0.0-0.5	4.04.12	1041	SOIL	NONE	1-4 oz Jar	X				
SL-100-NBZ-SS-0.0-0.5	4.04.12	951	SOIL	NONE	1-4 oz Jar	X				
SL-104-NBZ-SS-0.0-0.5	4.04.12	1010	SOIL	NONE	1-4 oz Jar	X				
SL-110-NBZ-SS-0.0-0.5	4.04.12	0900	SOIL	NONE	1-4 oz Jar	X				
SL-114-NBZ-SS-0.0-0.5	4.04.12	1028	SOIL	NONE	1-4 oz Jar	X				
SL-120-NBZ-SS-0.0-0.5	4.04.12	1105	SOIL	NONE	1-4 oz Jar	X				
EB-NBZ-SB-040412	4.04.12	1430	WATER	NONE	4-1 L Ambers	X		X	X	
EB-NBZ-SB-040412	4.04.12	1430	WATER	NONE	1-250 mL glass		X			
EB-NBZ-SS-040412	4.04.12	1545	WATER	NONE	4-1 L Ambers	X		X	X	
EB-NBZ-SS-040412	4.04.12	1545	WATER	NONE	1-250 mL glass		X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/04/2012 / 1830	4/5/12 0905	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

SAMPLE DELIVERY GROUP

DE307

acct# 13013 Cp# 1300033 Sample# 6603611

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-020-NBZ-SS-0.0-0.5		14:40								
~~SL-020-NBZ-SB-2.5-3.5~~	4.04.12	~~1340~~	SOIL	NONE	1-16 oz Jar	X	X	X	X	PID = 120 ppm
SL-155-NBZ-SS-0.0-0.5	4.04.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-181-NBZ-SS-0.0-0.5	4.04.12	1422	SOIL	NONE	1-4 oz Jar	X				
SL-187-NBZ-SS-0.0-0.5	4.04.12	1349	SOIL	NONE	1-4 oz Jar	X				
SL-149-NBZ-SS-0.0-0.5	4.05.12	1040	SOIL	NONE	1-4 oz Jar	X				
SL-165-NBZ-SS-0.0-0.5	4.05.12	1120	SOIL	NONE	1-4 oz Jar	X				
SL-175-NBZ-SS-0.0-0.5	4.05.12	955	SOIL	NONE	1-4 oz Jar	X				
SL-180-NBZ-SS-0.0-0.5	4.05.12	925	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/05/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Brandy Bundy	4.6.12 905		

Sample SL-020 was updated per PH. NM 4/9/12

SAMPLE DELIVERY GROUP

DE308

acct# 13013 Gp# 1301392 Sample# 6612342-48

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-001-NBZ-SS-0.0-0.5	4.09.12	0936	SOIL	NONE	2-8 oz Jar	X	X	X	X	
SL-154-NBZ-SS-0.0-0.5	4.09.12	1015	SOIL	NONE	1-4 oz Jar	X				
SL-157-NBZ-SS-0.0-0.5	4.09.12	1347	SOIL	NONE	1-4 oz Jar	X				
SL-167-NBZ-SS-0.0-0.5	4.09.12	1412	SOIL	NONE	1-4 oz Jar	X				
SL-174-NBZ-SS-0.0-0.5	4.09.12	1446	SOIL	NONE	1-4 oz Jar	X				
SL-186-NBZ-SS-0.0-0.5	4.09.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-191-NBZ-SS-0.0-0.5MS	4.09.12	1122	SOIL	NONE	1-8 oz Jar	X				MS/MSD
DUP-06-NBZ-QC-040912	4.09.12	1520	SOIL	NONE	1-4 oz Jar	X				
SL-009-NBZ-SS-0.0-0.5MS	4.10.12	0930	SOIL	NONE	2-16 oz Jar	X	X	X	X	
SL-084-NBZ-SS-0.0-0.5	4.10.12	1110	SOIL	NONE	1-16 oz Jar	X				
SL-186-NBZ-SS-0.0-0.5	4.10.12	1040	SOIL	NONE	1-4 oz Jar	X				
DUP-07-NBZ-QC-041012	4.10.12	0925	SOIL	NONE	1-16 oz Jar	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/10/2012 / 1630	Suzette Bohman 4/11/12 0710	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

SAMPLE DELIVERY GROUP

DE309

Acct#13013 Ap#1302046 Sample#66156656-58

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Tetrahydrofuran EPA 8015B	Other Instructions and Notes
SL-188-NBZ-SS-0 0-0 5	4/10/12	1441	SOIL	NONE	1-4 oz Jar	X				
SL-115-NBZ-SS-0 0-0 5	4/10/12	1510	SOIL	NONE	1-4 oz Jar	X				
SL-085-NBZ-SS-0 0-0 5	4/10/12	1402	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-004-NBZ-SS-0 0-0 5	4/11/12	0912	SOIL	NONE	1-16 oz Jar	X				
SL-145-NBZ-SS-0 0-0 5	4/11/12	1435	SOIL	NONE	1-4 oz Jar	X				
SL-148-NBZ-SS-0 0-0 5	4/11/12	1403	SOIL	NONE	1-4 oz Jar	X				
SL-154-NBZ-SS-0 0-0 5	4/11/12	1006	SOIL	NONE	1-4 oz Jar	X				
SL-163-NBZ-SS-0 0-0 5	4/11/12	1323	SOIL	NONE	1-4 oz Jar	X				
SL-168-NBZ-SS-0 0-0 5	4/11/12	0938	SOIL	NONE	1-4 oz Jar	X				
SL-176-NBZ-SS-0 0-0 5	4/11/12	1346	SOIL	NONE	1-4 oz Jar	X				
SL-182-NBZ-SS-0 0-0 5	4/11/12	1041	SOIL	NONE	1-4 oz Jar	X				
SL-011-NBZ-SS-0 0-0 5	4 12 12	1122	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-144-NBZ-SS-0 0-0 5	4 12 12	0922	SOIL	NONE	1-4 0z Jar	X				
SL-162-NBZ-SS-0 0-0 5	4 12 12	0955	SOIL	NONE	1-4 0z Jar	X				
EB-NBZ-SS-041212	4 12 12	1500	WATER	NONE	4-1 L Ambers	X		X	X	
EB-NBZ-SS-041212	4 12 12	1500	WATER	NONE	1-250 mL glass		X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/12/2012 / 1630	Angela Lehman 4/13/12 0930	LLC Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

2008 0034

SAMPLE DELIVERY GROUP

DE310

acct# 13013 Cp# 1303086 Sample# 6620874-78

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-013-NBZ-SS-0.0-0.5	4.16.12	1007	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-159-NBZ-SS-0.0-0.5	4.16.12	1101	SOIL	NONE	1-4 oz Jar	X				
SL-160-NBZ-SS-0.0-0.5	4.16.12	1440	SOIL	NONE	1-4 oz Jar	X				
SL-164-NBZ-SS-0.0-0.5	4.16.12	1135	SOIL	NONE	1-4 oz Jar	X				
SL-179-NBZ-SS-0.0-0.5MS	4.16.12	1516	SOIL	NONE	1-8 oz Jar	X				
DUP-08-NBZ-QC-041612	4.16.12	1523	SOIL	NONE	1-4 oz Jar	X				
SL-014-NBZ-SS-0.0-0.5	4.17.12	1010	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-088-NBZ-SS-0.0-0.5	4.17.12	1100	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-156-NBZ-SS-0.0-0.5	4.17.12	1117	SOIL	NONE	1-4 oz Jar	X				
SL-161-NBZ-SS-0.0-0.5	4.17.12	1150	SOIL	NONE	1-4 oz Jar	X				
SL-162-NBZ-SS-0.0-0.5	4.17.12	0955	SOIL	NONE	1-4 oz Jar	X				
SL-166-NBZ-SS-0.0-0.5	4.17.12	1030	SOIL	NONE	1-4 oz Jar	X				
EB-NBZ-SB-041712	04.17.12	1545	WATER	NONE	4-1L Ambers	X		X	X	
EB-NBZ-SB-041712	04.17.12	1645	WATER	NONE	1-250mL Amber		X			
EB-NBZ-SS-041712	04.17.12	1500	WATER	NONE	4-1L Ambers	X		X	X	
EB-NBZ-SS-041712	04.17.12	1500	WATER	NONE	1-250mL Amber		X			

Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Laboratory:
	4/17/2012 / 1630	Harry [illegible] LLI 4/18/12 0940	Lancaster Laboratories, Inc.
Received by: (Signature)	Date/Time	Airbill No.(s)	

SAMPLE DELIVERY GROUP

DE311

acct# 13013 Cp# 1303405 Sample# G622559-64

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160 3 will be performed on soil in 16 oz jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C

Samplers Signatures

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No of Containers	PRIMARY ANALYSIS *Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-090-NBZ-SS-0 0-0 5	4 17 12	1412	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-147-NBZ-SS-0 0-0 5	4 17 12	1525	SOIL	NONE	1-8 oz Jar	X				
SL-008-NBZ-SB-4 0-5 0	4 18 12	0955	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-081-NBZ-SS-0 0-0 5	4 18 12	1000	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-082-NBZ-SS-0 0-0 5	4 18 12	1053	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-082-NBZ-SB-2 5-3 5	4 18 12	1057	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-083-NBZ-SB-0 0-0 5	4 18 12	1406	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-189-NBZ-SS-0 0-0 5	4 18 12	1120	SOIL	NONE	1-8 oz Jar	X				

Relinquished by (*Signature*)	Date/Time	Received for Laboratory by (*Signature*)	Laboratory
	4/18/2012 1630		Lancaster Laboratories, Inc
Received by (*Signature*)	**Date/Time**	**Airbill No (s)**	
	4 19 12 910	7 98302E+11	

SAMPLE DELIVERY GROUP

DE312

acct# 13013 Cup# 1303750 Sample# 6624301-04

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
						PRIMARY ANALYSIS	SECONDARY ANALYSIS			
SL-146-NBZ-SS-0.0-0.5	4.18.12	1540	SOIL	NONE	1- 4 oz Jar	X				
SL-160-NBZ-SS-0.0-0.5	4.18.12	1425	SOIL	NONE	1- 4 oz Jar	X				
SL-012-NBZ-SS-0.0-0.5	4.19.12	0846	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-012-NBZ-SB-0.5-1.5	4.19.12	0925	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-086-NBZ-SS-0.0-0.5	4.19.12	1140	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-087-NBZ-SS-0.0-0.5	4.19.12	1009	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-179-NBZ-SS-0.0-0.5	4.19.12	1110	SOIL	NONE	1-4 oz Jar	X				
SL-184-NBZ-SS-0.0-0.5	4.19.12	1005	SOIL	NONE	1-4 oz Jar	X				
SL-193-NBZ-SS-0.0-0.5MS	4.19.12	1145	SOIL	NONE	1-4 oz Jar	X				
DUP-08-NBZ-QC-041912	4.19.12	1150	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/19/2012 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Suzette Lehner	4/20/12 0915		

SAMPLE DELIVERY GROUP

DE313

acct#13013 Gp# 1303883 Sample# 6625144-48

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-017-NBZ-SS-0.0-0.5	4.19.12	1009	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-160-NBZ-SS-0.0-0.5	4.19.12	1535	SOIL	NONE	1-4 oz Jar	X				
SL-178-NBZ-SS-0.0-0.5	4.19.12	1500	SOIL	NONE	1-4 oz Jar	X				
SL-016-NBZ-SS-0.0-0.5	4.20.12	1210	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-016-NBZ-SS-0.0-0.5	4.20.12	1059	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-080-NBZ-SS-0.0-0.5	4.20.12	0950	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-080-NBZ-SS-0.0-0.5	4.20.12	1206	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-170-NBZ-SS-0.0-0.5	4.20.12	1055	SOIL	NONE	1-4 oz Jar	X				
SL-171-NBZ-SS-0.0-0.5	4.20.12	1325	SOIL	NONE	1-4 oz Jar	X				
SL-202-NBZ-SS-0.0-0.5	4.20.12	1010	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/20/2012 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	4/21/12 1000		

SAMPLE DELIVERY GROUP

DX159

acct# 13013 Cp# 1295121 Sample# 6577290-302

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS	SECONDARY ANALYSIS			Other Instructions and Notes
						*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	
SL-002-NBZ-SS-0.0-0.5	3.12.12	1115	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-002-NBZ-SB-4.0-5.0	3.12.12	1130	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-002-NBZ-SB-7.5-8.5	3.12.12	1140	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-003-NBZ-SS-0.0-0.5	3.12.12	0850	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-003-NBZ-SB-4.0-5.0	3.12.12	0950	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-007-NBZ-SB-4.0-5.0	3.12.12	1550	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-007-NBZ-SB-9.0-10.0	3.12.12	1600	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-010-NBZ-SB-4.0-5.0	3.12.12	1426	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-005-NBZ-SB-4.0-5.0	3.13.12	1025	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-006-NBZ-SB-3.0-4.0	3.13.12	0900	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-015-NBZ-SS-0.0-0.5	3.13.12	1130	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-021-NBZ-SS-0.0-0.5	3.13.12	1530	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-021-NBZ-SB-4.0-5.0	3.13.12	1545	SOIL	NONE	1-8 oz Jar	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/13/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Brandy Bush	3-14-12 925	8767 9858 7560	

SAMPLE DELIVERY GROUP

DX160

acct# 13013 Grp# 1295745 Sample# 6580734-48

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-019-NBZ-SB-3.0-4.0	3.13.12	1435	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-019-NBZ-~~SB~~-0.0-0.5 SS	3.13.12	1350	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-022-NBZ-SB-4.0-5.0	3.14.12	1010	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-022-NBZ-SB-9.0-10.0	3.14.12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-023-NBZ-SB-4.0-5.0	3.14.12	1245	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-023-NBZ-SB-8.5-9.5	3.14.12	1255	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-022-NBZ-SS-0.0-0.5	3.14.12	0903	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-023-NBZ-SS-0.0-0.5	3.14.12	1138	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-024-NBZ-SS-0.0-0.5	3.14.12	1050	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-030-NBZ-SS-0.0-0.5	3.14.12	1500	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-029-NBZ-SS-0.0-0.5	3.15.12	0900	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-052-NBZ-SS-0.0-0.5	3.15.12	1205	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-058-NBZ-SS-0.0-0.5	3.15.12	1130	SOIL	NONE	1-8 oz Jar	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/15/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Swiftto Lehman	3/16/12 1025		

SL-019-NBZ-SS-0.0-0.5 was updated per bottle labels, and this was confirmed by PH. NLM 3/22/12

acct#13013 Cup#1295745 Sample#6580734-48

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
						PRIMARY	SECONDARY ANALYSIS			
EB-NBZ-SB-031512	03.15.12	1500	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-031512	03.15.12	1500	WATER	NONE	1-250 mL glass	X	X	X	X	
EB-NBZ-SS-031512	03.15.12	1430	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-031512	03.15.12	1430	WATER	NONE	1-250 mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/15/2012 / 1630	Suzette Lehman	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Suzette Lehman	3/16/12 1025		

SAMPLE DELIVERY GROUP

DX161

acct#13013 Cp#12960008 Sample#6582509-18

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-053-NBZ-SS-0.0-0.5	3.15.12	1420	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-053-NBZ-SB-3.5-4.5	3.15.12	1500	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-056-NBZ-~~SB~~-0.0-0.5 SS	3.15.12	1535	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-056-NBZ-SB-3.0-4.0	3.15.12	1550	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-067-NBZ-SB-1.5-2.5	3.16.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-068-NBZ-SB-2.5-3.5MS	3.16.12	1015	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-072-NBZ-SB-4.0-5.0	3.16.12	1445	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-01-NBZ-QC-031612	3.16.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/16/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		8767 9858 7537	

3-19-12 930

SL-056-NBZ-SB-0.0-0.5 was updated to SL-056-NBZ-SS-0.0-0.5 per the bottle labels, and it was confirmed by PH. NM 3/22/12

acct#13013 Cp#1296474 Sample#6587633-45

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING	PRIMARY ANALYSIS	SECONDARY ANALYSIS			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Also report Tetralin under EPA Method 8270C.						
Samplers Signatures:						

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-071-NBZ-SB-4.0-5.0	3/19/12	0935	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-073-NBZ-SB-4.0-5.0	3/19/12	1440	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-073-NBZ-SB-9.0-10.0	3/19/12	1340	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-074-NBZ-SB-0.5-1.5	3/19/12	1055	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-069-NBZ-SB-3.0-4.0	3/20/12	1430	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-070-NBZ-~~SB~~-0.0-0.5 SS	3/20/12	1525	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-075-NBZ-SS-0.0-0.5	3/20/12	0900	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-076-NBZ-SS-0.0-0.5	3/201/2	0935	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-077-NBZ-~~SB~~-0.0-0.5 SS	3/20/12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-077-NBZ-SB-2.5-3.5	3/20/12	1050	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-065-NBZ-SB-1.0-2.0	3/21/12	1055	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-066-NBZ-SB-2.0-3.0	3/21/12	0930	SOIL	NONE	1-8 oz Jar	X	X	X	X	
EB-NBZ-SS-032112	03.21.12	1500	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-032112	03.21.12	1500	WATER	NONE	1-250 mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/20/2012 / 1630	LLI 3/22/12 0950	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

SL-070-NBZ-SB-0.0-0.5 & SL-077-NBZ-SB-0.0-0.5 were updated to "SS" per bottle labels.
This was confirmed by PH. NM 3/23/12

SAMPLE DELIVERY GROUP

DX162

acct# 13013 Gp# 1297267 Sample# 6589247-57

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-062-NBZ-SB-2.5-3.5	3/21/12	1540	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-063-NBZ-SB-0.5-1.5	3/21/12	1445	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-064-NBZ-SB-0.5-1.5	3/21/12	1330	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-104-NBZ-SS-0.0-0.5	3/21/12	1345	SOIL	NONE	1-6 oz Jar	X				
SL-054-NBZ-SS-0.0-0.5	3/22/12	1345	SOIL	NONE	1-4 oz Jar	X	X	X	X	
SL-055-NBZ-SS-0.0-0.5	3/22/12	1125	SOIL	NONE	1-4 oz Jar	X	X	X	X	
SL-059-NBZ-SB-0.0-1.0	3/22/12	1050	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-060-NBZ-SB-0.0-1.0	3/22/12	1025	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-061-NBZ-SB-1.0-2.0	3/22/12	0930	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-116-NBZ-SS-0.0-0.5	3/22/12	1500	SOIL	NONE	1-8 oz Jar	X				
EB-NBZ-SB-032212	03.22.12	1530	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-032212	03.22.12	1530	WATER	NONE	1-250 mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/22/2012 / 1630	Kathy Brinkley 3-23-12/ 0910	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

acct# 13013 Gp# 1297267 Sample# 6589247-57

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
						PRIMARY ANALYSIS	SECONDARY ANALYSIS			
SL-062-NBZ-SB-2.5-3.5	3/21/12	1540	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-063-NBZ-SB-0.5-1.5	3/21/12	1445	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-064-NBZ-SB-0.5-1.5	3/21/12	1330	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-104-NBZ-SS-0.0-0.5	3/21/12	1345	SOIL	NONE	1-8 oz Jar	X				
SL-054-NBZ-SS-0.0-0.5	3/22/12	1345	SOIL	NONE	1-4 oz Jar	X	X	X	X	
SL-055-NBZ-SS-0.0-0.5	3/22/12	1125	SOIL	NONE	1-4 oz Jar	X	X	X	X	
SL-059-NBZ-SS-0.0-0.5	3/22/12	1050	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-060-NBZ-SS-0.0-0.5	3/22/12	1025	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-061-NBZ-SB-1.0-2.0	3/22/12	0930	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-116-NBZ-SS-0.0-0.5	3/22/12	1500	SOIL	NONE	1-8 oz Jar	X				
EB-NBZ-SB-032212	03.22.12	1530	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-032212	03.22.12	1530	WATER	NONE	1-250 mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/22/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

13013/1297483/6590851-59

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS	SECONDARY ANALYSIS			Other Instructions and Notes
						*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	
SL-048-NBZ-SS-0.0-0.5	3.23.12	1200	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-048-NBZ-SB-4.0-5.0	3.23.12	1230	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-049-NBZ-SB-2.0-3.0	3.23.12	1115	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-051-NBZ-SB-1.5-2.5	3.23.12	1015	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-057-NBZ-SS-0.0-0.5MS	3.23.12	0920	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
DUP-02-NBZ-QC-032312	3.23.12	0928	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-047-NBZ-SB-4.0-5.0	3.23.12	1520	SOIL	NONE	1-8 oz Jar	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
Pamela	3/23/2012 / 1630	[illegible] LI: 3/26/12 0820	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No(s)	

SAMPLE DELIVERY GROUP

DX163

acct#13013 Grp#1298319 Sample#6595138-57

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Tenphenyls EPA 8015B	Other Instructions and Notes
SL-042-NBZ-SS-0.0-0.5	3.26.12	1410	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-043-NBZ-SS-0.0-0.5	3.26.12	1535	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-045-NBZ-SS-0.0-0.5	3.26.12	1141	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-045-NBZ-SS-4.0-5.0	3.26.12	1155	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-046-NBZ-SS-0.0-0.5	3.26.12	0920	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-046-NBZ-SS-4.0-5.0	3.26.12	1015	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-050-NBZ-SS-0.0-0.5	3.26.12	1430	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-123-NBZ-SS-0.0-0.5	3.26.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-133-NBZ-SS-0.0-0.5	3.26.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-124-NBZ-SS-0.0-0.5	3.26.12	1020	SOIL	NONE	1-4 oz Jar	X				
SL-126-NBZ-SS-0.0-0.5	3.26.12	1120	SOIL	NONE	1-4 oz Jar	X				
SL-195-NBZ-SS-0.0-0.5	3.26.12	1540	SOIL	NONE	1-4 oz Jar	X				
SL-196-NBZ-SS-0.0-0.5	3.26.12	1145	SOIL	NONE	1-4 oz Jar	X				
SL-038-NBZ-SS-0.0-0.5	3.27.12	1110	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-078-NBZ-SS-0.0-0.5	3.27.12	0940	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-095-NBZ-SS-0.0-0.5	3.27.12	1017	SOIL	NONE	1-4 oz Jar	X				
SL-119-NBZ-SS-0.0-0.5	3.27.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-130-NBZ-SS-0.0-0.5	3.27.12	1020	SOIL	NONE	1-4 oz Jar	X				
EB-NBZ-SB-032712	3.27.12	1500	WATER	NONE	4-1 L Ambers					
EB-NBZ-SB-032712	3.27.12	1500	WATER	NONE	1-250 mL glass					
EB-NBZ-SS-032712	3.27.12	1530	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-032712	3.27.12	1530	WATER	NONE	1-250 mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/22/2012 / 1630	LLJ 8/28/12 0915	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-042-NBZ-SS-0.0-0.5	3.26.12	1410	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-043-NBZ-SS-0.0-0.5	3.26.12	1535	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-045-NBZ-SS-0.0-0.5	3.26.12	1141	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-045-NBZ-SB-4.0-5.0	3.26.12	1155	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-046-NBZ-SS-0.0-0.5	3.26.12	0920	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-046-NBZ-SB-4.0-5.0	3.26.12	1015	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-050-NBZ-SS-0.0-0.5	3.26.12	1430	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-123-NBZ-SS-0.0-0.5	3.26.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-133-NBZ-SS-0.0-0.5	3.26.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-124-NBZ-SS-0.0-0.5	3.26.12	1020	SOIL	NONE	1-4 oz Jar	X				
SL-126-NBZ-SS-0.0-0.5	3.26.12	1120	SOIL	NONE	1-4 oz Jar	X				
SL-195-NBZ-SS-0.0-0.5	3.26.12	1540	SOIL	NONE	1-4 oz Jar	X				
SL-196-NBZ-SS-0.0-0.5	3.26.12	1145	SOIL	NONE	1-4 oz Jar	X				
SL-038-NBZ-SS-0.0-0.5	3.27.12	1110	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-078-NBZ-SS-0.0-0.5	3.27.12	0940	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-095-NBZ-SS-0.0-0.5	3.27.12	1017	SOIL	NONE	1-4 oz Jar	X				
SL-119-NBZ-SS-0.0-0.5	3.27.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-130-NBZ-SS-0.0-0.5	3.27.12	1020	SOIL	NONE	1-4 oz Jar	X				
EB-NBZ-SB-032712	3.27.12	1500	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-032712	3.27.12	1500	WATER	NONE	1-250 mL glass	X	X	X	X	
EB-NBZ-SS-032712	3.27.12	1530	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-032712	3.27.12	1530	WATER	NONE	1-250 mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/22/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

SAMPLE DELIVERY GROUP

DX164

acct#13013 Gp# 1249118 Sample# 6599326441

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSES: *Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-036-NBZ-SB-4.0-5.0	3.28.12	1103	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-036-NBZ-SB-7.5-8.5	3.28.12	1230	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-037-NBZ-SB-3.0-4.0	3.28.12	1512	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-039-NBZ-SB-2.-3.0	3.28.12	1435	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SS-0.0-0.5	3.28.12	0851	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SB-2.5-3.5MS	3.28.12	1000	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-094-NBZ-SS-0.0.-0.5	3.28.12	1420	SOIL	NONE	1-4 oz Jar	X				
SL-096-NBZ-SS-0.0.-0.5	3.28.12	0905	SOIL	NONE	1-4 oz Jar	X				
SL-102-NBZ-SS-0.0.-0.5	3.27.12	1355	SOIL	NONE	1-4 oz Jar	X				
SL-109-NBZ-SS-0.0.-0.5	3.27.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-129-NBZ-SS-0.0.-0.5	3.27.12	1435	SOIL	NONE	1-4 oz Jar	X				
SL-135-NBZ-SS-0.0.-0.5	3.28.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-136-NBZ-SS-0.0.-0.5	3.28.12	1345	SOIL	NONE	1-4 oz Jar	X				
SL-139-NBZ-SS-0.0.-0.5	3.28.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-141-NBZ-SS-0.0.-0.5	3.28.12	1450	SOIL	NONE	1-4 oz Jar	X				
SL-143-NBZ-SS-0.0.-0.5	3.28.12	0915	SOIL	NONE	1-4 oz Jar	X				
SL-044-NBZ-SS-0.0-0.5	3.29.12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SS-0.0-0.5	3.29.12	1120	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-092-NBZ-SS-0.0-0.5MS	3.29.12	1540	SOIL	NONE	1-8 oz Jar	X	X	X	X	MS/MSD
SL-101-NBZ-SS-0.0-0.5	3.29.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-103-NBZ-SS-0.0-0.5	3.29.12	1110	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-130-NBZ-SS-0.0-0.5	3.29.12	0940	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-05-NBZ-QC-032912	3.29.12	1017	SOIL	NONE	1-8 oz Jar	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	1-250 mL glass	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	1-250 mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Labbratory by: (*Signature*)	Laboratory:
[signature]	3/29/2012 / 1630	[signature] 3/30/12 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

acct#13013 Gp# 1299118 sample# 6599536 44

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-036-NBZ-SB-4.0-5.0	3.28.12	1103	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-036-NBZ-SB-7.5-8.5	3.28.12	1230	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-037-NBZ-SB-3.0-4.0	3.28.12	1512	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-039-NBZ-SB-2.-3.0	3.28.12	1435	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SS-0.0-0.5	3.28.12	0851	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SB-2.5-3.5MS	3.28.12	1000	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-094-NBZ-SS-0.0.-0.5	3.28.12	1420	SOIL	NONE	1-4 oz Jar	X				
SL-096-NBZ-SS-0.0.-0.5	3.28.12	0945	SOIL	NONE	1-4 oz Jar	X				
SL-102-NBZ-SS-0.0.-0.5	3.27.12	1355	SOIL	NONE	1-4 oz Jar	X				
SL-109-NBZ-SS-0.0.-0.5	3.27.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-129-NBZ-SS-0.0.-0.5	3.27.12	1435	SOIL	NONE	1-4 oz Jar	X				
SL-135-NBZ-SS-0.0.-0.5	3.28.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-136-NBZ-SS-0.0.-0.5	3.28.12	1345	SOIL	NONE	1-4 oz Jar	X				
SL-139-NBZ-SS-0.0.-0.5	3.28.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-141-NBZ-SS-0.0.-0.5	3.28.12	0915	SOIL	NONE	1-4 oz Jar	X				
SL-143-NBZ-SS-0.0.-0.5	3.28.12	1450	SOIL	NONE	1-4 oz Jar	X				
SL-044-NBZ-SS-0.0-0.5	3.29.12	1311	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SS-0.0-0.5	3.29.12	0909	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SB-4.0-5.0	3.29.12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-092-NBZ-SS-0.0-0.5MS	3.29.12	1143	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-101-NBZ-SS-0.0-0.5	3.29.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-05-NBZ-QC-032912	3.29.12	1017	SOIL	NONE	1-8 oz Jar	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	1-250 mL glass	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	1-250 mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/29/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	

SAMPLE DELIVERY GROUP

DX165

acct#13013 Gp# 1299121 Sample# 6599355-67

CHAIN OF CUSTODY RECORD

CDM SSFL AREA IV COLLOCATED SOIL SAMPLING

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-036-NBZ-SB-4.0-5.0	3.28.12	1103	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-036-NBZ-SB-7.5-8.5	3.28.12	1230	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-037-NBZ-SB-3.0-4.0	3.28.12	1512	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-039-NBZ-SB-2.-3.0	3.28.12	1435	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SS-0.0-0.5	3.28.12	0851	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SB-2.5-3.5MS	3.28.12	1000	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-094-NBZ-SS-0.0.-0.5	3.28.12	1420	SOIL	NONE	1-4 oz Jar	X				
SL-096-NBZ-SS-0.0.-0.5	3.28.12	0905	SOIL	NONE	1-4 oz Jar	X				
SL-102-NBZ-SS-0.0.-0.5	3.27.12	1355	SOIL	NONE	1-4 oz Jar	X				
SL-109-NBZ-SS-0.0.-0.5	3.27.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-129-NBZ-SS-0.0.-0.5	3.27.12	1435	SOIL	NONE	1-4 oz Jar	X				
SL-135-NBZ-SS-0.0.-0.5	3.28.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-136-NBZ-SS-0.0.-0.5	3.28.12	1345	SOIL	NONE	1-4 oz Jar	X				
SL-139-NBZ-SS-0.0.-0.5	3.28.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-141-NBZ-SS-0.0.-0.5	3.28.12	1450	SOIL	NONE	1-4 oz Jar	X				
SL-143-NBZ-SS-0.0.-0.5	3.28.12	0915	SOIL	NONE	1-4 oz Jar	X				
SL-044-NBZ-SS-0.0-0.5	3.29.12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SS-0.0-0.5	3.29.12	1120	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-092-NBZ-SS-0.0-0.5MS	3.29.12	1540	SOIL	NONE	1-8 oz Jar	X	X	X	X	MS/MSD
SL-101-NBZ-SS-0.0-0.5	3.29.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-103-NBZ-SS-0.0-0.5	3.29.12	1110	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-130-NBZ-SS-0.0-0.5	3.29.12	0940	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-05-NBZ-QC-032912	3.29.12	1017	SOIL	NONE	1-8 oz Jar	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	1-250 mL glass	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	1-250 mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/29/2012 / 1630	3/30/12 0930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

acct#13013 Cp#1299171 sample# 6599558-67

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers
Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-036-NBZ-SB-4.0-5.0	3.28.12	1103	SOIL	NONE	1-8 oz Jar	X	X	X	X	Amended COC NJM 4/9/12
SL-036-NBZ-SB-7.5-8.5	3.28.12	1230	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-03-NBZ-QC-032812	3.28.12	1010	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-037-NBZ-SB-3.0-4.0	3.28.12	1512	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-039-NBZ-SB-2.-3.0	3.28.12	1435	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SS-0.0-0.5	3.28.12	0851	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-040-NBZ-SB-2.5-3.5MS	3.28.12	1000	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-094-NBZ-SS-0.0.-0.5	3.28.12	1420	SOIL	NONE	1-4 oz Jar	X				
SL-096-NBZ-SS-0.0.-0.5	3.28.12	0945	SOIL	NONE	1-4 oz Jar	X				
SL-102-NBZ-SS-0.0.-0.5	3.27.12	1355	SOIL	NONE	1-4 oz Jar	X				
SL-109-NBZ-SS-0.0.-0.5	3.27.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-129-NBZ-SS-0.0.-0.5	3.27.12	1435	SOIL	NONE	1-4 oz Jar	X				
SL-135-NBZ-SS-0.0.-0.5	3.28.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-136-NBZ-SS-0.0.-0.5	3.28.12	1345	SOIL	NONE	1-4 oz Jar	X				
SL-139-NBZ-SS-0.0.-0.5	3.28.12	1515	SOIL	NONE	1-4 oz Jar	X				
SL-141-NBZ-SS-0.0.-0.5	3.28.12	0915	SOIL	NONE	1-4 oz Jar	X				
SL-143-NBZ-SS-0.0.-0.5	3.28.12	1450	SOIL	NONE	1-4 oz Jar	X				
SL-044-NBZ-SS-0.0-0.5	3.29.12	1311	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SS-0.0-0.5	3.29.12	0909	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-091-NBZ-SB-4.0-5.0	3.29.12	1020	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-092-NBZ-SS-0.0-0.5MS	3.29.12	1143	SOIL	NONE	1-16 oz Jar	X	X	X	X	MS/MSD
SL-101-NBZ-SS-0.0-0.5	3.29.12	1145	SOIL	NONE	1-8 oz Jar	X	X	X	X	
DUP-05-NBZ-QC-032912	3.29.12	1017	SOIL	NONE	1-8 oz Jar	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SB-032912	3.29.12	1500	WATER	NONE	1-250 mL glass	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	4-1 L Ambers	X	X	X	X	
EB-NBZ-SS-032912	3.29.12	1545	WATER	NONE	1-250 mL glass	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/29/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	

acct#13013 Gp# 1299987 Sample# 6605181-95

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
						PRIMARY	SECONDARY ANALYSIS			
SL-025-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-026-NBZ-SS-0.0-0.5	4.02.12	1250	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-027-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-028-NBZ-SS-0.0-0.5	4.02.12	0910	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-107-NBZ-SS-0.0-0.5	4.02.12	1358	SOIL	NONE	1-4 oz Jar	X				
SL-111-NBZ-SS-0.0-0.5	4.02.12	1333	SOIL	NONE	1-4 oz Jar	X				
SL-112-NBZ-SS-0.0-0.5	4.02.12	1040	SOIL	NONE	1-4 oz Jar	X				
SL-113-NBZ-SS-0.0-0.5	4.02.12	0929	SOIL	NONE	1-4 oz Jar	X				
SL-138-NBZ-SS-0.0-0.5	4.02.12	1011	SOIL	NONE	1-4 oz Jar	X				
SL-194-NBZ-SS-0.0-0.5	4.02.12	1440	SOIL	NONE	1-16 oz Jar	X				
SL-031-NBZ-SS-0.0-0.5	4.03.12	0930	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-033-NBZ-SS-0.0-0.5	4.03.12	1030	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-034-NBZ-SS-0.0-0.5	4.03.12	1122	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-108-NBZ-SS-0.0-0.5	4.03.12	0945	SOIL	NONE	1-4 oz Jar	X				
SL-122-NBZ-SS-0.0-0.5	4.03.12	1103	SOIL	NONE	1-4 oz Jar	X				
SL-127-NBZ-SS-0.0-0.5	4.03.12	1010	SOIL	NONE	1-4 oz Jar	X				
SL-169-NBZ-SS-0.0-0.5	4.03.12	0911	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/03/2012 / 1630	Brenda Burly 4.4.12 930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		7982 4521 9334	

SAMPLE DELIVERY GROUP

DX166

acct# 13013 Gp# 1299284 Sample# 6600770-80

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-079-NBZ-SS-0.0-0.5	3.30.12	0950	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-121-NBZ-SS-0.0-0.5	3.30.12	1110	SOIL	NONE	1-4 oz Jar	X				
SL-134-NBZ-SS-0.0-0.5	3.30.12	1030	SOIL	NONE	1-4 oz Jar	X				
SL-101-NBZ-SS-0.0-0.5	3.29.12	1005	SOIL	NONE	1-4 oz Jar	X				
SL-103-NBZ-SS-0.0-0.5	3.29.12	0925	SOIL	NONE	1-4 oz Jar	X				
SL-118-NBZ-SS-0.0-0.5MS	3.29.12	1510	SOIL	NONE	1-16 oz Jar	X				MS/MSD
SL-130-NBZ-SS-0.0-0.5	3.29.12	1035	SOIL	NONE	1-4 oz Jar	X				
SL-197-NBZ-SS-0.0-0.5	3.29.12	1355	SOIL	NONE	1-4 oz Jar	X				
DUP-004-NBZ-QC-032912	3.29.12	1510	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	3/30/2012 / 1630	LLI 3/31/12 0935	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		7934 0303 2826	

acct#13013 Gp#1299989 Sample# 6605201-02

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B (PRIMARY ANAL)	**Formaldehyde EPA 8315A (SECONDARY ANAL)	**n-NDMA EPA 1625C (SECONDARY ANAL)	**Terphenyls EPA 8015B (SECONDARY ANAL)	Other Instructions and Notes
SL-025-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-026-NBZ-SS-0.0-0.5	4.02.12	1250	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-027-NBZ-SS-0.0-0.5	4.02.12	1005	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-028-NBZ-SS-0.0-0.5	4.02.12	0910	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-107-NBZ-SS-0.0-0.5	4.02.12	1358	SOIL	NONE	1-4 oz Jar	X				
SL-111-NBZ-SS-0.0-0.5	4.02.12	1333	SOIL	NONE	1-4 oz Jar	X				
SL-112-NBZ-SS-0.0-0.5	4.02.12	1040	SOIL	NONE	1-4 oz Jar	X				
SL-113-NBZ-SS-0.0-0.5	4.02.12	0929	SOIL	NONE	1-4 oz Jar	X				
SL-138-NBZ-SS-0.0-0.5	4.02.12	1011	SOIL	NONE	1-4 oz Jar	X				
SL-194-NBZ-SS-0.0-0.5	4.02.12	1440	SOIL	NONE	1-16 oz Jar	X				
SL-031-NBZ-SS-0.0-0.5	4.03.12	0930	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-033-NBZ-SS-0.0-0.5	4.03.12	1030	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-034-NBZ-SS-0.0-0.5	4.03.12	1122	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-108-NBZ-SS-0.0-0.5	4.03.12	0945	SOIL	NONE	1-4 oz Jar	X				
SL-122-NBZ-SS-0.0-0.5	4.03.12	1103	SOIL	NONE	1-4 oz Jar	X				
SL-127-NBZ-SS-0.0-0.5	4.03.12	1010	SOIL	NONE	1-4 oz Jar	X				
SL-169-NBZ-SS-0.0-0.5	4.03.12	0911	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/03/2012 / 1630	Brandy Bundy 4.4.12 930	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		7982 4521 9334	

Acct# 13013 Grp# 1300396 Sample# 6607522-29

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALY	ONDARY ANAL			Other Instructions and Notes
						*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	
SL-032-NBZ-SS-0.0-0.5	4.03.12	1400	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-035-NBZ-SS-0.0-0.5	4.03.12	1430	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-035-NBZ-SS-2.0-3.0	4.03.12	1440	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-115-NBZ-SS-0.0-0.5	4.03.12	1432	SOIL	NONE	1-4 oz Jar	X				
SL-140-NBZ-SS-0.0-0.5	4.03.12	1406	SOIL	NONE	1-4 oz Jar	X				
SL-198-NBZ-SS-0.0-0.5	4.03.12	1526	SOIL	NONE	1-4 oz Jar	X				
SL-020-NBZ-SS-0.0-0.5	4.04.12	1440	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-020-NBZ-SB-2.5-3.5	4.04.12	1340	SOIL	NONE	1-4 oz Jar	X				
SL-097-NBZ-SS-0.0-0.5	4.04.12	0914	SOIL	NONE	1-4 oz Jar	X				
SL-099-NBZ-SS-0.0-0.5	4.04.12	1041	SOIL	NONE	1-4 oz Jar	X				
SL-100-NBZ-SS-0.0-0.5	4.04.12	951	SOIL	NONE	1-4 oz Jar	X				
SL-104-NBZ-SS-0.0-0.5	4.04.12	1040	SOIL	NONE	1-4 oz Jar	X				
SL-110-NBZ-SS-0.0-0.5	4.04.12	0900	SOIL	NONE	1-4 oz Jar	X				
SL-114-NBZ-SS-0.0-0.5	4.04.12	0925	SOIL	NONE	1-4 oz Jar	X				
SL-120-NBZ-SS-0.0-0.5	4.04.12	1105	SOIL	NONE	1-4 oz Jar	X				
EB-NBZ-SB-040412	4.04.12	1430	WATER	NONE	4-1 L Ambers	X		X	X	
EB-NBZ-SB-040412	4.04.12	1430	WATER	NONE	1-250 mL glass		X			
EB-NBZ-SS-040412	4.04.12	1545	WATER	NONE	4-1 L Ambers	X		X	X	
EB-NBZ-SS-040412	4.04.12	1545	WATER	NONE	1-250 mL glass		X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/04/2012 / 1630	~~2516~~ LI 4/5/12 0905 (3) 4/5/12	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	

SAMPLE DELIVERY GROUP

DX167

Acct# 13013 Gp# 1300397 Sample# 6607530-37

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-032-NBZ-SS-0.0-0.5	4.03.12	1400	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-035-NBZ-SS-0.0-0.5	4.03.12	1430	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-035-NBZ-SS-2.0-3.0	4.03.12	1440	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-115-NBZ-SS-0.0-0.5	4.03.12	1432	SOIL	NONE	1-4 oz Jar	X				
SL-140-NBZ-SS-0.0-0.5	4.03.12	1406	SOIL	NONE	1-4 oz Jar	X				
SL-198-NBZ-SS-0.0-0.5	4.03.12	1526	SOIL	NONE	1-4 oz Jar	X				
SL-020-NBZ-SS-0.0-0.5	4.04.12	1440	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-020-NBZ-SB-2.5-3.5	4.04.12	1340	SOIL	NONE	1-4 oz Jar	X				
SL-097-NBZ-SS-0.0-0.5	4.04.12	0914	SOIL	NONE	1-4 oz Jar	X				
SL-099-NBZ-SS-0.0-0.5	4.04.12	1041	SOIL	NONE	1-4 oz Jar	X				
SL-100-NBZ-SS-0.0-0.5	4.04.12	951	SOIL	NONE	1-4 oz Jar	X				
SL-104-NBZ-SS-0.0-0.5	4.04.12	1040	SOIL	NONE	1-4 oz Jar	X				
SL-110-NBZ-SS-0.0-0.5	4.04.12	0900	SOIL	NONE	1-4 oz Jar	X				
SL-114-NBZ-SS-0.0-0.5	4.04.12	0925	SOIL	NONE	1-4 oz Jar	X				
SL-120-NBZ-SS-0.0-0.5	4.04.12	1105	SOIL	NONE	1-4 oz Jar	X				
EB-NBZ-SB-040412	4.04.12	1430	WATER	NONE	4-1 L Ambers	X		X	X	
EB-NBZ-SB-040412	4.04.12	1430	WATER	NONE	1-250 mL glass		X			
EB-NBZ-SS-040412	4.04.12	1545	WATER	NONE	4-1 L Ambers	X		X	X	
EB-NBZ-SS-040412	4.04.12	1545	WATER	NONE	1-250 mL glass		X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/04/2012 / 1630	1316 LI 4/5/12 0905	Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	

acct# 13013 Gp# 1300625 Sample# 6608538-44

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B (PRIMARY ANALYSIS)	**Formaldehyde EPA 8315A (SECONDARY ANALYSIS)	**n-NDMA EPA 1625C (SECONDARY ANALYSIS)	**Terphenyls EPA 8015B (SECONDARY ANALYSIS)	Other Instructions and Notes
SL-020-NBZ-SB-2.5-3.5	4.04.12	1340	SOIL	NONE	1-16 oz Jar	X	X	X	X	PID = 120 ppm
SL-155-NBZ-SS-0.0-0.5	4.04.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-181-NBZ-SS-0.0-0.5	4.04.12	1422	SOIL	NONE	1-4 oz Jar	X				
SL-187-NBZ-SS-0.0-0.5	4.04.12	1349	SOIL	NONE	1-4 oz Jar	X				
SL-149-NBZ-SS-0.0-0.5	4.05.12	1040	SOIL	NONE	1-4 oz Jar	X				
SL-165-NBZ-SS-0.0-0.5	4.05.12	1120	SOIL	NONE	1-4 oz Jar	X				
SL-175-NBZ-SS-0.0-0.5	4.05.12	955	SOIL	NONE	1-4 oz Jar	X				
SL-190-NBZ-SS-0.0-0.5	4.05.12	925	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/05/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Brandy Burly	4.6.12 905		

acct# 13013 Gp# 1300640 Sample# 6603613

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-020-NBZ-SS-0.0-0.5		14:40								
~~SL-020-NBZ-SB-2.5-3.5~~	4.04.12	~~1340~~	SOIL	NONE	1-16 oz Jar	X	X	X	X	PID = 120 ppm
SL-155-NBZ-SS-0.0-0.5	4.04.12	1455	SOIL	NONE	1-4 oz Jar	X				
SL-181-NBZ-SS-0.0-0.5	4.04.12	1422	SOIL	NONE	1-4 oz Jar	X				
SL-187-NBZ-SS-0.0-0.5	4.04.12	1349	SOIL	NONE	1-4 oz Jar	X				
SL-149-NBZ-SS-0.0-0.5	4.05.12	1040	SOIL	NONE	1-4 oz Jar	X				
SL-165-NBZ-SS-0.0-0.5	4.05.12	1120	SOIL	NONE	1-4 oz Jar	X				
SL-175-NBZ-SS-0.0-0.5	4.05.12	955	SOIL	NONE	1-4 oz Jar	X				
SL-190-NBZ-SS-0.0-0.5	4.05.12	925	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/05/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Brandy	4.6.12 905		

The sample ID for SL-20 was updated per PH. NM 4/9/12

acct#13013 Cp#1301394 Sample#6612359-64

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-001-NBZ-SS-0.0-0.5	4.09.12	0936	SOIL	NONE	2-8 oz Jar	X	X	X	X	
SL-151-NBZ-SS-0.0-0.5	4.09.12	1015	SOIL	NONE	1-4 oz Jar	X				
SL-157-NBZ-SS-0.0-0.5	4.09.12	1347	SOIL	NONE	1-4 oz Jar	X				
SL-167-NBZ-SS-0.0-0.5	4.09.12	1412	SOIL	NONE	1-4 oz Jar	X				
SL-174-NBZ-SS-0.0-0.5	4.09.12	1446	SOIL	NONE	1-4 oz Jar	X				
SL-185-NBZ-SS-0.0-0.5	4.09.12	1050	SOIL	NONE	1-4 oz Jar	X				
SL-191-NBZ-SS-0.0-0.5MS	4.09.12	1122	SOIL	NONE	1-8 oz Jar	X				MS/MSD
DUP-06-NBZ-QC-040912	4.09.12	1520	SOIL	NONE	1-4 oz Jar	X				
SL-009-NBZ-SS-0.0-0.5MS	4.10.12	0930	SOIL	NONE	2-16 oz Jar	X	X	X	X	
SL-084-NBZ-SS-0.0-0.5	4.10.12	1110	SOIL	NONE	1-16 oz Jar	X				
SL-186-NBZ-SS-0.0-0.5	4.10.12	1040	SOIL	NONE	1-4 oz Jar	X				
DUP-07-NBZ-QC-041012	4.10.12	0925	SOIL	NONE	1-16 oz Jar	X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/10/2012 / 1630	Suzette Bahman 4/11/12 0910	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

SAMPLE DELIVERY GROUP

DX168

acct# 13013 Grp# 1301393 Sample# 6612349-58

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers		PRIMARY ANALYSIS	SECONDARY ANALYSIS			Other Instructions and Notes
							*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	
SL-001-NBZ-SS-0.0-0.5	4.09.12	0936	SOIL	NONE	2-8 oz Jar		X	X	X	X	
SL-151-NBZ-SS-0.0-0.5	4.09.12	1015	SOIL	NONE	1-4 oz Jar		X				
SL-157-NBZ-SS-0.0-0.5	4.09.12	1347	SOIL	NONE	1-4 oz Jar		X				
SL-167-NBZ-SS-0.0-0.5	4.09.12	1412	SOIL	NONE	1-4 oz Jar		X				
SL-174-NBZ-SS-0.0-0.5	4.09.12	1446	SOIL	NONE	1-4 oz Jar		X				
SL-185-NBZ-SS-0.0-0.5	4.09.12	1050	SOIL	NONE	1-4 oz Jar		X				
SL-191-NBZ-SS-0.0-0.5MS	4.09.12	1122	SOIL	NONE	1-8 oz Jar		X				MS/MSD
DUP-06-NBZ-QC-040912	4.09.12	1520	SOIL	NONE	1-4 oz Jar		X				
SL-009-NBZ-SS-0.0-0.5MS	4.10.12	0930	SOIL	NONE	2-16 oz Jar		X	X	X	X	
SL-084-NBZ-SS-0.0-0.5	4.10.12	1110	SOIL	NONE	1-16 oz Jar		X				
SL-186-NBZ-SS-0.0-0.5	4.10.12	1040	SOIL	NONE	1-4 oz Jar		X				
DUP-07-NBZ-QC-041012	4.10.12	0925	SOIL	NONE	1-16 oz Jar		X	X	X	X	

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/10/2012 / 1630	Suzette P. Shinan 4/11/12 0910	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

acct#13013 Qp# 1302049 Sample# 6615668-79

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-188-NBZ-SS-0.0-0.5	4/10/12	1441	SOIL	NONE	1-4 oz Jar	X				
SL-177-NBZ-SS-0.0-0.5	4/10/12	1510	SOIL	NONE	1-4 oz Jar	X				
SL-085-NBZ-SS-0.0-0.5	4/10/12	1402	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-004-NBZ-SS-0.0-0.5	4/11/12	0912	SOIL	NONE	1-16 oz Jar	X				
SL-145-NBZ-SS-0.0-0.5	4/11/12	1435	SOIL	NONE	1-4 oz Jar	X				
SL-148-NBZ-SS-0.0-0.5	4/11/12	1403	SOIL	NONE	1-4 oz Jar	X				
SL-154-NBZ-SS-0.0-0.5	4/11/12	1006	SOIL	NONE	1-4 oz Jar	X				
SL-163-NBZ-SS-0.0-0.5	4/11/12	1323	SOIL	NONE	1-4 oz Jar	X				
SL-168-NBZ-SS-0.0-0.5	4/11/12	0938	SOIL	NONE	1-4 oz Jar	X				
SL-176-NBZ-SS-0.0-0.5	4/11/12	1348	SOIL	NONE	1-4 oz Jar	X				
SL-182-NBZ-SS-0.0-0.5	4/11/12	1041	SOIL	NONE	1-4 oz Jar	X				
SL-011-NBZ-SS-0.0-0.5	4.12.12	1122	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-144-NBZ-SS-0.0-0.5	4.12.12	0922	SOIL	NONE	1-4 0z Jar	X				
SL-152-NBZ-SS-0.0-0.5	4.12.12	0955	SOIL	NONE	1-4 0z Jar	X				
EB-NBZ-SS-041212	4.12.12	1500	WATER	NONE	4-1 L Ambers	X		X	X	
EB-NBZ-SS-041212	4.12.12	1500	WATER	NONE	1-250 mL glass		X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/12/2012 / 1630	Brigitta Lehman 4/13/12 0930	LL Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	

SAMPLE DELIVERY GROUP

DX169

acct#13013 Gp#1302051 Sample#6615684-86

CHAIN OF CUSTODY RECORD

CDM — **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B (PRIMARY ANALYSIS)	**Formaldehyde EPA 8315A (SECONDARY ANALYSIS)	**n-NDMA EPA 1625C (SECONDARY ANALYSIS)	**Terphenyls EPA 8015B (SECONDARY ANALYSIS)	Other Instructions and Notes
SL-188-NBZ-SS-0.0-0.5	4/10/12	1441	SOIL	NONE	1-4 oz Jar	X				
SL-177-NBZ-SS-0.0-0.5	4/10/12	1510	SOIL	NONE	1-4 oz Jar	X				
SL-085-NBZ-SS-0.0-0.5	4/10/12	1402	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-004-NBZ-SS-0.0-0.5	4/11/12	0912	SOIL	NONE	1-16 oz Jar	X				
SL-145-NBZ-SS-0.0-0.5	4/11/12	1435	SOIL	NONE	1-4 oz Jar	X				
SL-148-NBZ-SS-0.0-0.5	4/11/12	1403	SOIL	NONE	1-4 oz Jar	X				
SL-154-NBZ-SS-0.0-0.5	4/11/12	1006	SOIL	NONE	1-4 oz Jar	X				
SL-163-NBZ-SS-0.0-0.5	4/11/12	1323	SOIL	NONE	1-4 oz Jar	X				
SL-168-NBZ-SS-0.0-0.5	4/11/12	0938	SOIL	NONE	1-4 oz Jar	X				
SL-176-NBZ-SS-0.0-0.5	4/11/12	1348	SOIL	NONE	1-4 oz Jar	X				
SL-182-NBZ-SS-0.0-0.5	4/11/12	1041	SOIL	NONE	1-4 oz Jar	X				
SL-011-NBZ-SS-0.0-0.5	4.12.12	1122	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-144-NBZ-SS-0.0-0.5	4.12.12	0922	SOIL	NONE	1-4 0z Jar	X				
SL-152-NBZ-SS-0.0-0.5	4.12.12	0955	SOIL	NONE	1-4 0z Jar	X				
EB-NBZ-SS-041212	4.12.12	1500	WATER	NONE	4-1 L Ambers	X		X	X	
EB-NBZ-SS-041212	4.12.12	1500	WATER	NONE	1-250 mL glass		X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/12/2012 / 1630	Augita Lehman 4/13/12 0930	LLI Lancaster Laboratories, Inc.
Received by: (*Signature*)	Date/Time	Airbill No.(s)	

acct# 13013 Cp# 1303087 Sample# 6620879-94

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-013-NBZ-SS-0.0-0.5	4.16.12	1007	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-159-NBZ-SS-0.0-0.5	4.16.12	1101	SOIL	NONE	1-4 oz Jar	X				
SL-160-NBZ-SS-0.0-0.5	4.16.12	1440	SOIL	NONE	1-4 oz Jar	X				
SL-164-NBZ-SS-0.0-0.5	4.16.12	1135	SOIL	NONE	1-4 oz Jar	X				
SL-173-NBZ-SS-0.0-0.5MS	4.16.12	1518	SOIL	NONE	1-8 oz Jar	X				
DUP-08-NBZ-QC-041612	4.16.12	1523	SOIL	NONE	1-4 oz Jar	X				
SL-014-NBZ-SS-0.0-0.5	4.17.12	1010	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-088-NBZ-SS-0.0-0.5	4.17.12	1100	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-156-NBZ-SS-0.0-0.5	4.17.12	1117	SOIL	NONE	1-4 oz Jar	X				
SL-161-NBZ-SS-0.0-0.5	4.17.12	1150	SOIL	NONE	1-4 oz Jar	X				
SL-162-NBZ-SS-0.0-0.5	4.17.12	0955	SOIL	NONE	1-4 oz Jar	X				
SL-166-NBZ-SS-0.0-0.5	4.17.12	1030	SOIL	NONE	1-4 oz Jar	X				
EB-NBZ-SB-041712	04.17.12	1545	WATER	NONE	4-1L Ambers	X		X	X	
EB-NBZ-SB-041712	04.17.12	1545	WATER	NONE	1-250mL Amber		X			
EB-NBZ-SS-041712	04.17.12	1500	WATER	NONE	4-1L Ambers	X		X	X	
EB-NBZ-SS-041712	04.17.12	1500	WATER	NONE	1-250mL Amber		X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/17/2012 / 1630	Harry [illegible] LLI 4/18/12 0940	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	

SAMPLE DELIVERY GROUP

DX170

acct# 13013 Gp# 1302284 Sample# 6616886-89

CHAIN OF CUSTODY RECORD

CDM	SSFL AREA IV COLLOCATED SOIL SAMPLING	PRIMARY ANALYSIS	SECONDARY ANALYSIS			Other Instructions and Notes
NOTES: *Primary Analyses as indicated on sample labels **Secondary Analyses as indicated on sample labels $ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected Also report Tetralin under EPA Method 8270C.						
Samplers Signatures:						

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B
SL-158-NBZ-SS-0.0-0.5	4.12.12	1504	SOIL	NONE	1-4 oz Jar	X			
SL-172-NBZ-SS-0.0-0.5	4.12.12	1435	SOIL	NONE	1-4 oz Jar	X			
SL-180-NBZ-SS-0.0-0.5	4.13.12	0945	SOIL	NONE	1-16 oz Jar	X			
SL-183-NBZ-SS-0.0-0.5	4.13.12	1050	SOIL	NONE	1-16 oz Jar	X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/13/2012 / 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*) Brandy Bush	Date/Time 4.14.12 1000	Airbill No.(s)	

acct#13013 Gp#1303406 Sample#6622565-72

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
						PRIMARY ANALYSIS	SECONDARY ANALYSIS			
SL-090-NBZ-SS-0.0-0.5	4.17.12	1412	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-147-NBZ-SS-0.0-0.5	4.17.12	1525	SOIL	NONE	1-8 oz Jar	X				
SL-008-NBZ-SB-4.0-5.0	4.18.12	0955	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-081-NBZ-SS-0.0-0.5	4.18.12	1000	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-082-NBZ-SS-0.0-0.5	4.18.12	1053	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-082-NBZ-SB-2.5-3.5	4.18.12	1057	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-083-NBZ-SB-0.0-0.5	4.18.12	1406	SOIL	NONE	1-8 oz Jar	X	X	X	X	
SL-189-NBZ-SS-0.0-0.5	4.18.12	1120	SOIL	NONE	1-8 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/18/2012 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Brianna Bunch	4-19-12 910	7.98302E+11	

acct# 13013 Cp# 1303751 Sample# 6624305-10

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B (PRIMARY ANALY)	**Formaldehyde EPA 8315A (SECONDARY ANALY)	**n-NDMA EPA 1625C (SECONDARY ANALY)	**Terphenyls EPA 8015B (SECONDARY ANALY)	Other Instructions and Notes
SL-146-NBZ-SS-0.0-0.5	4.18.12	1540	SOIL	NONE	1- 4 oz Jar	X				
SL-160-NBZ-SS-0.0-0.5	4.18.12	1425	SOIL	NONE	1- 4 oz Jar	X				
SL-012-NBZ-SS-0.0-0.5	4.19.12	0846	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-012-NBZ-SB-0.5-1.5	4.19.12	0925	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-086-NBZ-SS-0.0-0.5	4.19.12	1140	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-087-NBZ-SS-0.0-0.5	4.19.12	1009	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-179-NBZ-SS-0.0-0.5	4.19.12	1110	SOIL	NONE	1-4 oz Jar	X				
SL-184-NBZ-SS-0.0-0.5	4.19.12	1005	SOIL	NONE	1-4 oz Jar	X				
SL-193-NBZ-SS-0.0-0.5MS	4.19.12	1145	SOIL	NONE	1-4 oz Jar	X				
DUP-08-NBZ-QC-041912	4.19.12	1150	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/19/2012 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Suzette Lehman	4/20/12 0915		

SAMPLE DELIVERY GROUP

DX171

acct# 13013 Cp# 1303752 Sample# 6624311-16

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS: *Dioxin/Furan EPA 1613B	SECONDARY ANALYSIS: **Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	Other Instructions and Notes
SL-146-NBZ-SS-0.0-0.5	4.18.12	1540	SOIL	NONE	1- 4 oz Jar	X				
SL-160-NBZ-SS-0.0-0.5	4.18.12	1425	SOIL	NONE	1- 4 oz Jar	X				
SL-012-NBZ-SS-0.0-0.5	4.19.12	0846	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-012-NBZ-SB-0.5-1.5	4.19.12	0925	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-086-NBZ-SS-0.0-0.5	4.19.12	1140	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-087-NBZ-SS-0.0-0.5	4.19.12	1009	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-179-NBZ-SS-0.0-0.5	4.19.12	1110	SOIL	NONE	1-4 oz Jar	X				
SL-184-NBZ-SS-0.0-0.5	4.19.12	1005	SOIL	NONE	1-4 oz Jar	X				
SL-193-NBZ-SS-0.0-0.5MS	4.19.12	1145	SOIL	NONE	1-4 oz Jar	X				
DUP-08-NBZ-QC-041912	4.19.12	1150	SOIL	NONE	1-4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/19/2012 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
Elizabeth Lehman	4/20/12 0915		

acct#13013 Gp#1303884 Sample#6625149-58

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	PRIMARY ANALYSIS	SECONDARY ANALYSIS			Other Instructions and Notes
						*Dioxin/Furan EPA 1613B	**Formaldehyde EPA 8315A	**n-NDMA EPA 1625C	**Terphenyls EPA 8015B	
SL-017-NBZ-SS-0.0-0.5	4.19.12	1009	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-150-NBZ-SS-0.0-0.5	4.19.12	1535	SOIL	NONE	1- 4 oz Jar	X				
SL-178-NBZ-SS-0.0-0.5	4.19.12	1500	SOIL	NONE	1- 4 oz Jar	X				
SL-016-NBZ-SS-0.0-0.5	4.20.12	1210	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-018-NBZ-SS-0.0-0.5	4.20.12	1059	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-080-NBZ-SS-0.0-0.5	4.20.12	0950	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-089-NBZ-SS-0.0-0.5	4.20.12	1206	SOIL	NONE	1-16 oz Jar	X	X	X	X	
SL-170-NBZ-SS-0.0-0.5	4.20.12	1055	SOIL	NONE	1- 4 oz Jar	X				
SL-171-NBZ-SS-0.0-0.5	4.20.12	1325	SOIL	NONE	1- 4 oz Jar	X				
SL-202-NBZ-SS-0.0-0.5	4.20.12	1010	SOIL	NONE	1- 4 oz Jar	X				

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/20/2012 1630		Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
	4/21/12 1000		

13013 1304247 6626912-15

CHAIN OF CUSTODY RECORD

CDM | **SSFL AREA IV COLLOCATED SOIL SAMPLING**

NOTES:
*Primary Analyses as indicated on sample labels
**Secondary Analyses as indicated on sample labels
$ Moisture by EPA 160.3 will be performed on soil in 16 oz. jar collected from the same interval from which Encores were collected
Also report Tetralin under EPA Method 8270C.

Samplers Signatures:

SAMPLE NUMBER	DATE	TIME	MATRIX	Preservative	Type & No. of Containers	*Dioxin/Furan EPA 1613B (PRIMARY ANALYSIS)	**Formaldehyde EPA 8315A (SECONDARY ANALYSIS)	**n-NDMA EPA 1625C (SECONDARY ANALYSIS)	**Terphenyls EPA 8015B (SECONDARY ANALYSIS)	Other Instructions and Notes
SL-199-NBZ-SS-0.0-0.5	4.23.12	0942	SOIL	NONE	1- 4 oz Jar	X				
SL-200-NBZ-SS-0.0-0.5	4.23.12	1039	SOIL	NONE	1- 4 oz Jar	X				
SL-201-NBZ-SS-0.0-0.5	4.23.12	1110	SOIL	NONE	1- 4 oz Jar	X				
EB-NBZ-SS-042312	4.23.12	1530	SOIL	NONE	4- 1 L Ambers	X		X	X	
EB-NBZ-SS-042312	4.23.12	1530	SOIL	NONE	1- 250 mL Amber		X			

Relinquished by: (*Signature*)	Date/Time	Received for Laboratory by: (*Signature*)	Laboratory:
	4/23/2012 1630	LLI 4/24/12 0920	Lancaster Laboratories, Inc.
Received by: (*Signature*)	**Date/Time**	**Airbill No.(s)**	
		79 34 8589 1930	

Appendix G
DOE Herbicide Method Verification Summary
(On CD)

To: Dr. KC Ting, Dr. J. Quinn, Ms. C. Wortham; DTSC Chemistry Team

From: DOE Chemistry Consultant Team (CDM Smith, MWH, and MEC^X)

Cc: Mark Malinowski and Laura Rainey, DTSC
John Jones and Stephanie Jennings, DOE

Date: March 13, 2012

Re: DOE Herbicide Method Verification Summary

Executive Summary

The SSFL DOE chemistry team conducted an evaluation of the Herbicide Method 8151 modified, method verification study performed by Lancaster Laboratories, Inc. (LLI). Twenty-one replicate spikes were processed by LLI and yielded accuracy and precision, recoveries, and relative standard deviations that were higher than the standard method, and potentially higher than acceptable for the DOE analytical program.

These results were evaluated by the DOE chemistry team to identify implications to:

- The herbicide method modification used by the Phase 1 co-located program,
- The existing data generated using this method modification, and
- Other modified methods that were used during the Phase 1 co-located soil sample analysis.

Based on this evaluation, the DOE chemistry team recommends that the DOE analytical program:

1. Utilize standard methods for herbicides without modifications in future DOE sampling/analysis efforts;
2. Elevate the current RLs to the standard LLI RL. The standard LLI MRL is 5 to 10 times the MRL using the modified method. Results currently detected will not change but will be qualified as estimated "J" values if the result is below the standard LLI RL. Non-detected results will be elevated to the new RL and considered non-detect "U". Utilize the low-level Laboratory Control Sample (LCS) data from the Phase 1 co-located sampling data to determine a recommendation for PCBs and other modified organic methods based on the availability of the low-level LCS data; and.
3. Include a low-level matrix spike QC program for all sample batches if method modifications are used in future DOE sampling programs. This program will include all laboratories contracted to perform analytical services at SSFL and will specifically be included in the laboratories statement of work.

1.0 Introduction

The California Environmental Protection Agency Department of Toxic Substances Control (DTSC) and U.S. Department of Energy (DOE) Administrative Order on Consent (AOC) identifies a soil cleanup to local background values or method reporting limits (MRLs) for soil

contamination in Area IV, the Northern Buffer Zone, or contiguous areas of the Santa Susana Field Laboratory (SSFL). The AOC does not specify the actual MRL values to be used, but it defines this term as "the lowest concentrations at which an analyte can be confidently detected in a sample and its concentration can be reported with a reasonable degree of accuracy and precision."

Modifications of specific methods have been performed for the Phase 1 DOE co-located sampling program at SSFL to lower the MRL. The method modifications have been to increase the sample mass extracted and decrease the final volume of the extract. The modifications also included mandatory cleanup of the sample extracts.

With input from DTSC chemists, DOE has begun method verification evaluations by the analysis of laboratory control samples (LCS) and matrix spikes (MS) with the target compounds spiked at levels approaching the targeted, lower MRLs for methods that have been modified by adding additional quality control (QC) sample requirements during the latter portion of the Phase I co-located sampling program.

The modification of the herbicide method (Method 8151A) used during the Phase 1 study was identified by DTSC as a method modification that requires additional verification due to the complexity of the preparation procedure. This method verification study was developed to measure the effects of the method modifications on the accuracy and precision of the modified herbicide method.

The herbicide method verification study consisted of a Method Detection Limit (MDL) study in triplicate (seven replicate analyses performed over 3 days) that was performed by the project laboratory, Lancaster Laboratories Inc. (LLI). The seven replicate samples were spiked with the target compounds at between 1 and 5 times the estimated MDL. Five of the target compounds were spiked below the MRL used for Phase I of the DOE co-located program and five of the compounds were spiked above the MRL used for the Phase I of the DOE co-located program. The target compounds were spiked into a clean matrix (Ottawa sand). The samples were then processed through the entire modified preparation procedure including the methylation step (diazomethane) and analyzed per method requirements. The herbicide method was modified by LLI to in an attempt to lower the MRLs by a factor of 10 by adjusting the method-required 30 grams of sample and a final volume of 10 milliliters (mls), to 60 grams of sample and a final volume of 2 ml. All sample extracts were subjected to a fluorisil cleanup procedure.

2.0 Method Verification Study Results

The summary of results below is limited to the LLI data generated during the verification study. The percent recoveries, calculated MDLs, and relative standard deviations (RSDs) present varied MDL results. The variability was anticipated to be higher than the standard herbicide method; however, the variability may be greater than acceptable for the DOE analytical project goals. Five of the 10 herbicide compounds had MDLs calculated using the 21 points that were greater than the MDL that has been used by LLI, and two of the newly calculated MDL values are greater than the current MRL being used by LLI for the co-located sampling program. The newly calculated MDL exceedance of the current MDL or current MRL did not correlate to the spike level being above or below the MRL used for Phase I of the co-located DOE program.

Table 1 presents the calculated MDL resulting from each of the three MDL studies performed for the verification. The three independent MDLs are calculated using a students' t value of 3.143, n=7, as described in 40CFR Part 136 Appendix B. The "MDL 21 Point" represents the pooled/combined MDL resulting from all 21 points in the three MDL studies. The 21 point MDL is calculated using the students' t value of 2.528, n=21. Included in Table 1 are the current LLI MRLs and the MDLs utilized during the program for the co-located sampling program prior to the method verification study. The "current" MDLs are the unmodified method MDL values used by LLI for other programs, divided by a factor of 10 to represent the preparation modifications and cleanup procedures used.

Table 2 presents the accuracy and precision of the three independent MDL studies, the accuracy and precision of the 21 point MDL, and the accuracy and precision of the standard method as published in SW-846 Method 8151A. Accuracy is measured as the percent recovery. Accuracy is determined through a spike procedure, where a known amount of the target analyte is added to the sample. Table 2 provides a summary of the mean percent recoveries for each spiked analyte in the three MDL tests performed and for the 21 point pooled/combined MDLs. Precision is the measurement expressed in terms of RSD. It is a measure of random error, the type of error that is not well controlled. Table 2 provides the RSDs for each MDL test and the RSDs for the 21 points.

Attachment A provides the amount spiked, amount measured, and calculated recovery from each of the three MDL studies for each of the herbicide target compounds.

3.0 Recommendations

Based on evaluation of the herbicide method verification study results described above and presented in Tables 1 and 2, the following recommendations are made for the DOE analytical program:

1. Utilize standard methods without modifications for herbicides in future DOE sampling/analysis efforts. Since the herbicide verification study indicated unacceptable accuracy and precision for 5 of the 10 target compounds, the recommendation is to use standard method procedures and reporting limits in order to utilize capabilities that are widely available at multiple laboratories demonstrated acceptable accuracy and precision.
2. Elevate the current RLs to the standard LLI RL. Results currently detected will not change but will be qualified as estimated "J" values if the result is below the standard LLI RL. Non-detected results will be elevated to the new RL and considered non-detect "U".
3. Other modified methods for organic chemicals will be verified through an evaluation of up to 30 low-level LCS data performed during the analysis of onsite data. The 30 low-level LCS data points (if available) should be evaluated in a manner similar to the 21-point method verification process to generate percent recovery, RSD, and pooled/combined MDL value data for each target compound. The 30 LCS points would be processed along with site samples in the preparation batches as additional QC samples.
4. As described above, this process was initiated for organic methods during the latter portion of the Phase 1 co-located sampling program, and 20 low-level LCS results for

PCBs and 9 low-level pesticides have been analyzed and evaluated to date. These data have been summarized in separate technical memoranda.

5. A low-level matrix spike and LCS QC program should include all sample batches if method modifications are used in future DOE sampling programs to enable the evaluation of accuracy and precision in site matrix. Accuracy and precision could then be evaluated in site matrix and compared to the performance in a clean matrix.
6. URS will evaluate its background study herbicide MRLs for comparison including the low level LCS and matrix spike results.

Table 1 - Summary of MDL Results

Compound	Units	MDL Test 1	MDL Test 2	MDL Test 3	MDL 21 Point	Reporting Limit	MDL
2,4,5-T	ug/kg	0.0432	0.0337	0.0444	0.0854	0.17	0.082
2,4,5-TP	ug/kg	0.0240	0.0577	0.116	0.1106	0.17	0.075
2,4-D	ug/kg	0.2739	0.6652	0.5258	1.0656	3.6	1.2
2,4-DB	ug/kg	0.4173	0.5122	0.3942	0.5303	1.7	0.62
2,4-DP	ug/kg	1.8165	0.6722	0.7917	1.7768	1.7	0.8
Dalapon	ug/kg	0.9709	0.9537	1.3235	1.8543	9	4.4
Dicamba	ug/kg	0.2036	0.0745	0.1237	0.1529	1.2	0.4
Dinoseb	ug/kg	0.4212	1.7082	1.1634	1.3268	2.4	0.8
MCPA	ug/kg	107.4258	122.2933	52.4746	96.0340	250	76
MCPP	ug/kg	315.1295	634.2651	211.2401	379.7152	250	75
PCP	ug/kg	0.0098	0.0172	0.0184	0.0411	0.17	0.033

Value above the MDL

Value above the Reporting Limit

Table 2 - Accuracy and Precision of MDL Tests

Compound	MDL Test 1		MDL Test 2		MDL Test 3		MDL 21 Point		LLI LCS Control Limits	
	Average % Recovery	RSD	Average % Recovery	RSD	Average % Recovery	RSD	Average % Recovery	RSD	Lower Control Limit	Upper Control Limit
2,4,5-T	108	5.6	77	6.1	82	7.6	88.9	16.8	73	143
2,4,5-TP	93	3.6	55	14.7	83	18.8	77.1	25.0	68	114
2,4-D	118	3.3	117	12.1	95	116.2	96.6	19.2	73	146
2,4-DB	107	5.5	91	7.9	94	19.1	97	9.5	62	131
2,4-DP	166	15.3	112	8.4	112	11.8	130	23.8	62	170
Dalapon	86	6.3	85	6.3	62	20.8	77.5	16.7	11	116
Dicamba	145	19.8	127	8.2	171	64.5	148	18.1	54	121
Dinoseb	18	27.6	42	46.7	49	82.5	36.2	52.8	10	36
Mcpa	99	15.2	82	20.9	75	143.7	85.3	19.6	60	130
Mcpp	160	27.6	140	63.3	82	25.3	127	52.0	54	137

Table 3 - Reporting Limit Comparisons

Compound	Units	Highest of individual MDL tests	MDL 21 Point	LLI Standard Herbicide MDL, divided by 10 for method modification (J value limit)	LLI Standard Reporting Limit, divided by 10 for method modification (current RL)	Suggested RL
2,4,5-T	ug/kg	0.0444	0.0854	0.082	0.17	0.17
2,4,5-TP	ug/kg	0.116	0.1106	0.075	0.17	0.24
2,4-D	ug/kg	0.6652	1.0656	1.2	3.6	3.6
2,4-DB	ug/kg	0.5122	0.5303	0.62	1.7	1.7
2,4-DP	ug/kg	1.8165	1.7768	0.8	1.7	3.6
Dalapon	ug/kg	1.3235	1.8543	4.4	9	9
Dicamba	ug/kg	0.2036	0.1529	0.4	1.2	1.2
Dinoseb	ug/kg	1.7082	1.3268	0.8	2.4	2.4
MCPA	ug/kg	122.29	96.0340	76	250	250
MCPP	ug/kg	634.2	379.7152	75	250	750
PCP	ug/kg	0.0184	0.0411	0.033	0.17	0.17

Value above the standard LLI Herbicide MDL, divided by 10 for the method modification

Value above the LLI Standard Herbicide Reporting Limit divided by 10 for method modification

Recommended Reporting Limit change

Attachment A - MDL Tests Data

Compound	MDL Test	Initial Concnetration (ug/kg)	Measured Value (ug/kg)	Recovery (%)
2,4,5-T	Test 1	0.2267	0.2429	107.15
		0.2267	0.2506	110.54
		0.2267	0.271	119.54
		0.2267	0.2359	104.06
		0.2267	0.2353	103.79
		0.2267	0.2462	108.60
		0.2267	0.2294	101.19
	Test 2	0.2267	0.1969	86.85
		0.2267	0.1779	78.47
		0.2267	0.17	74.99
		0.2267	0.1733	76.44
		0.2267	0.1647	72.65
		0.2267	0.168	74.11
		0.2267	0.1705	75.21
	Test 3	0.2267	0.2106	92.90
		0.2267	0.1808	79.75
		0.2267	0.1836	80.99
		0.2267	0.1638	72.25
		0.2267	0.1824	80.46
		0.2267	0.1932	85.22
		0.2267	0.1848	81.52
2,4,5-TP	Test 1	0.2267	0.2112	93.16
		0.2267	0.208	91.75
		0.2267	0.2123	93.65
		0.2267	0.219	96.60
		0.2267	0.2157	95.15
		0.2267	0.211	93.07
		0.2267	0.195	86.02
	Test 2	0.2267	0.1504	66.34
		0.2267	0.1401	61.80
		0.2267	0.1079	47.60
		0.2267	0.1406	62.02
		0.2267	0.1162	51.26
		0.2267	0.1044	46.05
		0.2267	0.1143	50.42
	Test 3	0.2267	0.231	101.90
		0.2267	0.2462	108.60
		0.2267	0.1728	76.22
		0.2267	0.1496	65.99
		0.2267	0.196	86.46
		0.2267	0.1629	71.86
		0.2267	0.1646	72.61

Attachment A - MDL Tests Data

Compound	MDL Test	Initial Concnetration (ug/kg)	Measured Value (ug/kg)	Recovery (%)
2,4-D	Test 1	2.2667	2.6335	116.18
		2.2667	2.653	117.04
		2.2667	2.7909	123.13
		2.2667	2.7908	123.12
		2.2667	2.7029	119.24
		2.2667	2.6403	116.48
		2.2667	2.5535	112.65
	Test 2	2.2667	2.1074	92.97
		2.2667	1.8748	82.71
		2.2667	1.5728	69.39
		2.2667	1.8844	83.13
		2.2667	1.6367	72.21
		2.2667	1.5333	67.64
		2.2667	1.6226	71.58
	Test 3	2.2667	2.4124	106.43
		2.2667	1.9815	87.42
		2.2667	2.1891	96.58
		2.2667	2.0095	88.65
		2.2667	2.1256	93.78
		2.2667	1.9883	87.72
		2.2667	2.3014	101.53
2,4-DB	Test 1	2.2712	2.3669	104.21
		2.2712	2.3278	102.49
		2.2712	2.6624	117.22
		2.2712	2.3456	103.28
		2.2712	2.4629	108.44
		2.2712	2.5076	110.41
		2.2712	2.2762	100.22
	Test 2	2.2712	2.0344	89.57
		2.2712	2.2197	97.73
		2.2712	2.185	96.20
		2.2712	1.9079	84.00
		2.2712	1.794	78.99
		2.2712	2.2136	97.46
		2.2712	2.05	90.26
	Test 3	2.2712	2.273	100.08
		2.2712	2.1005	92.48
		2.2712	2.1665	95.39
		2.2712	1.8808	82.81
		2.2712	2.1933	96.57
		2.2712	2.1936	96.58
		2.2712	2.09	92.02

Attachment A - MDL Tests Data

Compound	MDL Test	Initial Concnetration (ug/kg)	Measured Value (ug/kg)	Recovery (%)
2,4-DP	Test 1	2.2757	3.4573	151.92
		2.2757	3.9601	174.02
		2.2757	3.4997	153.79
		2.2757	3.6964	162.43
		2.2757	3.3839	148.70
		2.2757	5.0177	220.49
		2.2757	3.4743	152.67
	Test 2	2.2757	2.8954	127.23
		2.2757	2.4535	107.81
		2.2757	2.531	111.22
		2.2757	2.6988	118.59
		2.2757	2.3231	102.08
		2.2757	2.2871	100.50
		2.2757	2.6061	114.52
	Test 3	2.2757	2.7185	119.46
		2.2757	2.6841	117.95
		2.2757	2.5053	110.09
		2.2757	2.2307	98.02
		2.2757	2.922	128.40
		2.2757	2.2641	99.49
		2.2757	2.4443	107.41
Dalapon	Test 1	5.6803	5.175	91.10
		5.6803	4.913	86.49
		5.6803	4.947	87.09
		5.6803	5.031	88.57
		5.6803	4.403	77.51
		5.6803	5.261	92.62
		5.6803	4.582	80.66
	Test 2	5.6803	5.334	93.90
		5.6803	4.954	87.21
		5.6803	4.538	79.89
		5.6803	4.967	87.44
		5.6803	4.453	78.39
		5.6803	4.711	82.94
		5.6803	4.663	82.09
	Test 3	5.6803	4.0101	70.60
		5.6803	3.4047	59.94
		5.6803	3.946	69.47
		5.6803	3.1669	55.75
		5.6803	3.0445	53.60
		5.6803	3.8338	67.49
		5.6803	3.0927	54.45

Attachment A - MDL Tests Data

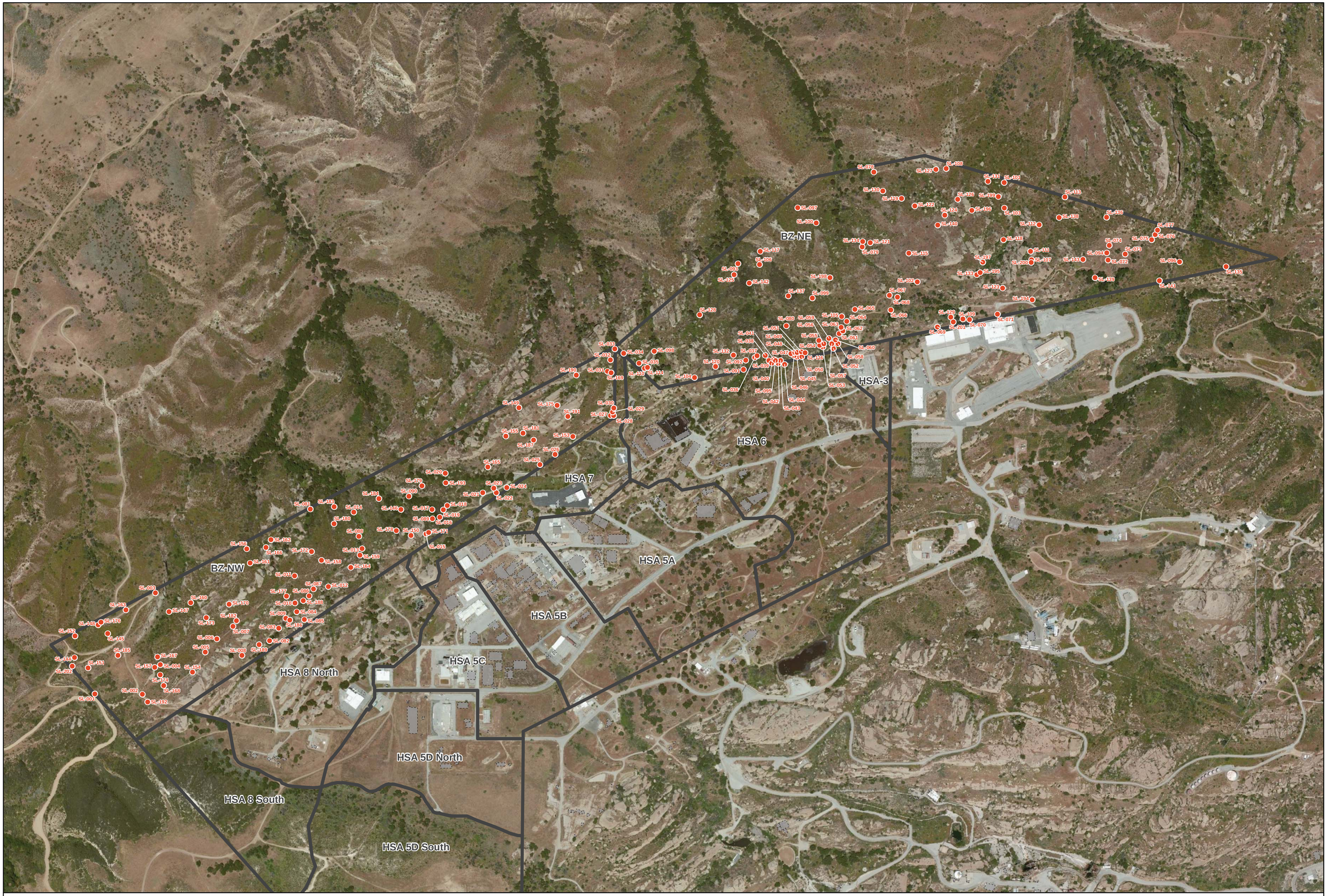
Compound	MDL Test	Initial Concnetration (ug/kg)	Measured Value (ug/kg)	Recovery (%)
Dicamba	Test 1	0.2267	0.2599	114.64
		0.2267	0.3786	167.00
		0.2267	0.2879	127.00
		0.2267	0.2689	118.61
		0.2267	0.3197	141.02
		0.2267	0.4405	194.31
		0.2267	0.3403	150.11
	Test 2	0.2267	0.3301	145.61
		0.2267	0.3021	133.26
		0.2267	0.2605	114.91
		0.2267	0.3005	132.55
		0.2267	0.2817	124.26
		0.2267	0.2719	119.94
		0.2267	0.2742	120.95
	Test 3	0.2267	0.3744	165.15
		0.2267	0.3204	141.33
		0.2267	0.4349	191.84
		0.2267	0.3995	176.22
		0.2267	0.3769	166.25
		0.2267	0.433	191.00
		0.2267	0.3799	167.58
Dinoseb	Test 1	2.7404	0.543	19.81
		2.7404	0.4892	17.85
		2.7404	0.3019	11.02
		2.7404	0.3485	12.72
		2.7404	0.5526	20.16
		2.7404	0.702	25.62
		2.7404	0.4613	16.83
	Test 2	2.7404	1.5303	55.84
		2.7404	0.633	23.10
		2.7404	1.5552	56.75
		2.7404	0.1968	7.18
		2.7404	1.1788	43.02
		2.7404	1.4855	54.21
		2.7404	1.569	57.25
	Test 3	2.7404	2.025	73.89
		2.7404	1.4984	54.68
		2.7404	1.4043	51.24
		2.7404	1.256	45.83
		2.7404	1.0679	38.97
		2.7404	0.8683	31.69
		2.7404	1.1966	43.67

Attachment A - MDL Tests Data

Compound	MDL Test	Initial Concnetration (ug/kg)	Measured Value (ug/kg)	Recovery (%)
MCPA	Test 1	227.528	222.6732	97.87
		227.528	199.7546	87.79
		227.528	290.007	127.46
		227.528	247.5441	108.80
		227.528	206.8072	90.89
		227.528	221.8998	97.53
		227.528	189.0421	83.09
	Test 2	227.528	267.1662	117.42
		227.528	200.9182	88.30
		227.528	152.0952	66.85
		227.528	173.4384	76.23
		227.528	178.7179	78.55
		227.528	160.2243	70.42
		227.528	170.2316	74.82
	Test 3	227.528	195.81	86.06
		227.528	139.13	61.15
		227.528	175.9499	77.33
		227.528	167.7743	73.74
		227.528	171.9971	75.59
		227.528	171.7917	75.50
		227.528	173.2286	76.14
MCPP	Test 1	226.984	435.101	191.69
		226.984	444.4548	195.81
		226.984	287.4663	126.65
		226.984	314.6129	138.61
		226.984	250.5333	110.37
		226.984	514.5821	226.70
		226.984	293.6371	129.36
	Test 2	226.984	265.109	116.80
		226.984	205.9358	90.73
		226.984	746.0858	328.70
		226.984	128.9464	56.81
		226.984	223.3066	98.38
		226.984	349.6945	154.06
		226.984	313.0266	137.91
	Test 3	226.984	307.603	135.52
		226.984	249.9572	110.12
		226.984	153.3274	67.55
		226.984	124.7388	54.95
		226.984	169.2946	74.58
		226.984	152.2124	67.06
		226.984	141.4397	62.31

Attachment A - MDL Tests Data

Compound	MDL Test	Initial Concnetration (ug/kg)	Measured Value (ug/kg)	Recovery (%)
PCP	Test 1	0.066	0.0811	122.88
		0.066	0.0841	127.42
		0.066	0.077	116.67
		0.066	0.0775	117.42
		0.066	0.0773	117.12
		0.066	0.0829	125.61
		0.066	0.0766	116.06
	Test 2	0.066	0.0462	70.00
		0.066	0.0443	67.12
		0.066	0.0504	76.36
		0.066	0.0332	50.30
		0.066	0.0393	59.55
		0.066	0.0411	62.27
		0.066	0.044	66.67
	Test 3	0.066	0.0717	108.64
		0.066	0.0611	92.58
		0.066	0.0656	99.39
		0.066	0.0572	86.67
		0.066	0.063	95.45
		0.066	0.074	112.12
		0.066	0.066	100.00



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Legend

- Sample Location
- Area IV Subarea
- Removed Building

Aerial Source: Bing Maps, (c) 2010 Microsoft Corporation and its data suppliers

Northern Buffer Zone Sample Locations

0 225 450 900 1,350 Feet

Santa Susana Field Laboratory
Ventura County, California
Exhibit 1

CDM Smith

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