

APPENDIX F

SOIL BORING LOGS

Soil Boring/Well Details: 121-B1

Project No: 080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City

Northing: 684233.7
Easting: 611444.3
Elevation: 12.47
Total Depth: 15"

Water Level: 5.0
Sampling Method: Geoprobe
Sample Interval: See log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		44	0.0	1		CONCRETE.			
				2		GRAVEL, little brown cf Sand.			
			1.7	3		Brown cf SAND and GRAVEL, some Silt, little Cinder, trace Brick, Glass and Slag.			
			0.0	4		Light brown cf SAND and GRAVEL, some Silt, little Cinder and Slag, trace f Sand, dry to moist.			
			12.5	5					
			8.8	6		Black cf SAND and GRAVEL, some Silt and Cinder, little Slag, trace Shale, wet.			
			29.4	7					
			16.2	8					
			8.7	9					
		30	0.0	10		Brown mf SAND and SILT, some Gravel, moist to wet.			
				11					
				12		Brown SILT, some Gravel (organic odor), moist.			
				13		Meadowmat, moist.			
		51	0.0	14		Brown SILT, some Gravel, little red Shale.			
				15		Brown cf SAND and GRAVEL, some red Shale and Silt.			
				16	Red SHALE, some brown cf				

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 05/09/2011
 Date Finish: 05/09/2011
 Checked By: JT
 Sheet 1 of 1

Soil Boring/Well Details: 121-B1-1

Project No: 080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City

Northing: 684239.1
Easting: 611437.8
Elevation: 10.6
Total Depth: 10'

Water Level: NA
Sampling Method: Geoprobe
Sample Interval: See log
Logged By: GQ

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)	
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/vm)	Symbol	Description				Formation
121-B1-1 4.5-5.0		47		42.8	1	CONCRETE.	1	Petroleum-like odor		
				32.1		Brownish black Silty SAND, little Gravel, trace cobble, glass, and porcelain				
				0.8		Dark brown Silty SAND, little of Sand, little cinder, trace brick				
				0.0		Dark brown fine SAND, little cinder				
				0.5		Dark brown cf SAND, some cinder				
				0.0		Brown mf SAND, little coarse Sand, trace Silt				
				0.0		Dark brown mf SAND, little Gravel, trace paper				
				0.0		Brown coarse SAND, some cinder, trace Silt				
				35.7		5				Dark gray brown GRAVEL and coarse SAND, little cinder
				112		6				Dark brown mf SAND, little Gravel, trace Silt
				175		2				Dark brown gray mf SAND, some Gravel, some burnt wood, little Silt, little cinder
				231		7				Red brown fine SAND, trace cinder
				202		8				Red brown fine SAND, some cinder and coal, little decomposing wood
				24.1		9				Brown fine SAND, little Silt, trace clay, gravel, cf sand
15.4	3	10	16.2							

Drilling Company: EMC
Driller: Ryan Zyjack
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 7-18-12
Date Finish: 7-18-12
Checked By: ED
Sheet 1 of 1

Soil Boring/Well Details: 121-B1-3

Project No: 080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City

Northing: 684225.6
Easting: 611438.8
Elevation: 10.6
Total Depth: 10'

Water Level: NA
Sampling Method: Geoprobe
Sample Interval: See log
Logged By: GQ

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
121-B1-3 4.5-5.0		37		0.0	[Concrete Symbol]	CONCRETE.			
				0.0	[Brown Sand Symbol]	Brown cf SAND, little cinder			
				0.0	[Red Brown Sand Symbol]	Red brown mf SAND, little cinder, trace brick			
				0.0	[Red Brown Sand Symbol]	Red brown cf SAND and CINDER, little Gravel			
				0.0	[Yellow Brown Sand Symbol]	Yellow brown mf SAND, some Gravel, little cinder			
				0.0	[Black Sand Symbol]	Black mf SAND and CINDER, little Gravel			
				0.0	[Dark Brown Silty Sand Symbol]	Dark brown Silty SAND, trace gravel and clay, trace brick			
				0.0	[Brownish Black Sand Symbol]	Brownish black fine SAND, some coarse Sand, little cinder, trace Silt			
				0.0	[Black Coarse Sand Symbol]	Black coarse SAND and CINDER, trace gravel, trace wood			
				0.0	[Black Coarse Sand Symbol]	Black coarse SAND and CINDER, trace gravel, trace wood			
121-B1-3 8.0-8.5		26		4.8					
			1231	5					
			218	6					
			20.4	7			Petroleum-like odor		
			4.7	8					
			4.1	9					
			0.7	10					

Drilling Company: EMC
 Driller: Ryan Zyjack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 7-18-12
 Date Finish: 7-18-12
 Checked By: ED
 Sheet 1 of 1

Soil Boring/Well Details: 121-B1-4

Project No: 080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684216.9
Easting: 611433.2
Elevation: 10.6
Total Depth: 10'

Water Level: NA
Sampling Method: Geoprobe
Sample Interval: See log
Logged By: GQ

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
121-B1-4 4.5-5.0		37	0.0	0.0	1		CONCRETE.		
			0.0	0.0	1		Gray cf SAND and GRAVEL		
			0.0	0.0	2		Red brown mf SAND, little Silt, trace glass, shells, and cinders		
			0.0	0.0	3		Black fine SAND, little Silt, trace gravel, trace glass		
			0.0	0.0	4		Red brown Silty SAND, trace gravel, trace glass and cinders		
		0.0	0.0	5		Yellow brown mf SAND, some Gravel, little cinder			
		11.1	321	53.5	6		Black fine SAND and GRAVEL, little cinder, trace Silt		
		3.6	28	0.0	7		Brownish black Sandy SILT, little coarse Sand, trace Clay	Petroleum-like odor	
		0.0	0.0	0.0	8		Brownish black Sandy SILT, some coarse Sand, little cinder		
		0.0	0.0	0.0	9		Dark gray fine SAND, some Silt, trace clay	Slight sulfur-like odor	
0.0	0.0	0.0	10						

Drilling Company: EMC
 Driller: Ryan Zyjack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 7-18-12
 Date Finish: 7-18-12
 Checked By: ED
 Sheet 1 of 1

Soil Boring/Well Details: 121-B2

Project No: 080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City

Northing: 684239.9
Easting: 611482.6
Elevation: 12.43
Total Depth: 15"

Water Level: 5.0
Sampling Method: Geoprobe
Sample Interval: See log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
			0	0		CONCRETE.			
			0.9	1		Black of SAND and GRAVEL, some Silt, trace Cinder, trace Brick, Shale and Slag.			
			1.9	2		Brown of SAND and GRAVEL, some Silt, little Cinder, trace Brick.			
		46	12.6						
			41.7	3		Gray cm SAND and GRAVEL, some Silt, trace Brick and Cinder.		fuel odor (moderate)	
			2.4	4		Black of SAND and GRAVEL, some Silt, little Cinder, trace Brick.			
			2.8	5		GRAVEL and brown of SAND, some Silt and Brick, trace Cinder.			
			0.3	6		Brown SILT, little Gravel, trace Shells and Cinder, moist.		trace olive green colored Silt	
		40	391	7		Brown SILT and GRAVEL, some mf Sand, little Wood, wet.			
			2.8	8		Black of SAND and GRAVEL, some Silt, trace Glass, Wood and Cinder, moist.			
			0.2	9		Brown SILT, some GRAVEL and of Sand, little Wood, moist to dry.			
				10		Meadowmat.			
		44	0	11					
				12					
				13					
				14		Brown SILT and red SHALE.			
				15		Light brown to gray SILT, some mf Sand.			

Drilling Company: EMC
Driller: Mike Morris
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 05/09/2011
Date Finish: 05/09/2011
Checked By: JT
Sheet 1 of 1

Soil Boring/Well Details: 121-B5

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684283.7
Easting: 611469.9
Elevation: 12.08
Total Depth: 17.5

Water Level: 11.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		28	0.0	1		CONCRETE.			
				2		Black of SAND and GRAVEL, some Silt and Slag, little Cinder, trace Brick and Glass.			
				3					
				4					
				5					
				6			Brown mf SAND and SILT, little Gravel, trace Cinder, moist.		
				7					
				8			Brown-green mf SAND and SILT, little Gravel, trace Cinder, moist.		
				9					
		38	0.0	10					

Drilling Company: EMC
Driller: Mike Morris
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

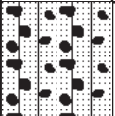



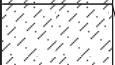


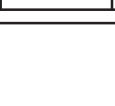



Casing Diameter: NA
Date Start: 5/10/2011
Date Finish: 5/10/2011
Checked By: JT
Sheet 1 of 2

Soil Boring/Well Details: 121-B5

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684283.7
Easting: 611469.9
Elevation: 12.08
Total Depth: 17.5

Water Level: 11.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE				Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description	Formation			
		53	0.0	11						
				12		Brown-green SILT, some mf Sand, little Gravel and red Shale, wet.				
				13	4 	Brown mf SAND and GRAVEL, some Silt and red Shale, wet.				
				14		Red SHALE, wet.				
				14		Brown mf SAND, some Silt, little red Shale, wet.				
				15		Reddish brown cf SAND and red SHALE, some Silt, little Gravel, moist.				
		45	0.0	16	5 					
				17						
				18						
				19						
				20	6 					

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 5/10/2011
 Date Finish: 5/10/2011
 Checked By: JT
 Sheet: 2 of 2

Soil Boring/Well Details: 121-B9

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684185.6
Easting: 611478.0
Elevation: 12.56
Total Depth: 17.5

Water Level: 4.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		32	0.0	1		CONCRETE.			
				1		Black of SAND, some Silt, little Gravel.			
				2		Brown mf SAND, some Silt, little Gravel, trace Cinder.			
				3		Brown mf SAND and SILT, trace Gravel, Cinder and Seashells, moist.			
				4					
				5		Black GRAVEL, some Cinder and Silt, little mf Sand, trace red Brick, wet.			
				6		Black to brown SILT, some Gravel, saturated to wet.			
		48	0.0	7					
				8		Brown gray SILT and GRAVEL, some Cinder, trace Seashells, saturated.			
				9		Brown red SILT and blue green CLAY, some Gravel and mf Sand, trace red gray Shale.			
				10					

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

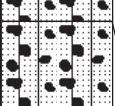
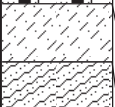

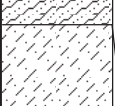
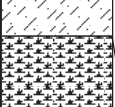



Casing Diameter: NA
 Date Start: 5/10/2011
 Date Finish: 5/10/2011
 Checked By: JT
 Sheet 1 of 2

Soil Boring/Well Details: 121-B9

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684185.6
Easting: 611478.0
Elevation: 12.56
Total Depth: 17.5

Water Level: 4.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
				11		Brown mf SAND and GRAVEL, some Silt, trace gray and red Shale, moist.			
				12		Black CINDER, some mf Sand and Silt, little Gravel, trace Wood, wet.			
		55	0.0	13		Brown mf SAND and SILT, little Gravel, trace gray Shale, moist.			
				14		Brown SILT, some mf Sand, little red Shale, trace gray Shale, moist.			
				15		Brown SILT and red SHALE, some mf Sand, moist.			
				16		Brown mf SAND, some Silt, wet.			
				17		Meadowmat.			
		29	0.0	18		Gray SILT and mf SAND, trace Clay.			
				19					
				20					

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 5/10/2011
 Date Finish: 5/10/2011
 Checked By: JT
 Sheet: 2 of 2

Soil Boring/Well Details: 121-B11

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684168.5
Easting: 611467.4
Elevation: 12.53
Total Depth: 17.5

Water Level: 5.75
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		39.5	0.0	1		CONCRETE.			
				1		Brown mf SAND, some Silt, trace Cinder and Brick.			
				2					
				3		Brown mf SAND and SILT, trace Gravel, Cinder and Seashells, moist.			
				4					
				5					
				6		Dark brown SILT, some mf Sand, little Gravel, trace Cinder, wet.			
				7					
		37	0.0	8		Black CINDER and GRAVEL, some Silt, little mf Sand, wet.			
				9		Brown red SILT and GRAVEL, some mf Sand, trace gray Shale.			
				10	Gray SHALE.				

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

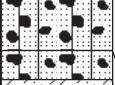

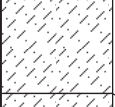


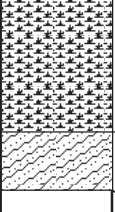
Casing Diameter: NA
 Date Start: 5/10/2011
 Date Finish: 5/10/2011
 Checked By: JT
 Sheet 1 of 2

Soil Boring/Well Details: 121-B11

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684168.5
Easting: 611467.4
Elevation: 12.53
Total Depth: 17.5

Water Level: 5.75
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
		55	0.0	11		Brown mf SAND and GRAVEL, some Silt, trace Wood and gray Shale.			
				12		Black CINDER and brown mf SAND, some Wood and Silt, trace gray Shale.			
				13		Brown mf SAND and SILT, some Gravel, trace gray Shale.			
				14		Brown mf SAND, some Silt.			
				15		Meadowmat.			
		30	0.0	16		Gray SILT and mf SAND, trace Clay.			
				17					
				18					
				19					
				20					

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 5/10/2011
 Date Finish: 5/10/2011
 Checked By: JT
 Sheet: 2 of 2

Soil Boring/Well Details: 207-B2

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684105.8
Easting: 611338.9
Elevation: 12.51
Total Depth: 20.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Jason V

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		24	0.0	1		ASPHALT			
				1		GRAVEL and brown cf SAND, some Silt, little Slag, trace Brick and Cinder.			
				2		Dark brown cf SAND, some Gravel and Silt, trace Cinder and Slag.			
				3					
				4					
				5		Light brown cf SAND, some Silt and Gravel, trace Cinder and Seashells.			
				6		Brown SILT, trace Gravel.			
				7					
		12	0.0	8					
				9		Red brown mf SAND and GRAVEL, some Silt.			
				10					

Drilling Company: EMC
Driller: Mike Morris
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3"

DRESDNER ROBIN
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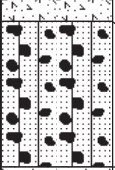


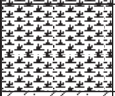
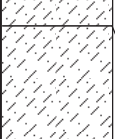
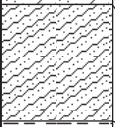
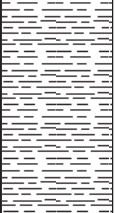



Casing Diameter: NA
Date Start: 5/9/11
Date Finish: 5/9/11
Checked By: JT
Sheet 1 of 2

Soil Boring/Well Details: 207-B2

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684105.8
Easting: 611338.9
Elevation: 12.51
Total Depth: 20.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Jason V

SAMPLE				SUBSURFACE PROFILE				Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description	Formation			
		34	0.0	11		GRAVEL layer.				
				12		Gravel layer.				
				13		Meadowmat.				
				14		Meadowmat, trace red Shale.				
				15		Light brown mf SAND, some Silt, trace red Shale.				
				16		Reddish brown cf SAND, some red Shale and Silt, little Gravel.				
				17		Reddish brown SILT and red SHALE, some cf Sand, little Gravel, trace Clay.				
		46	0.0	18		Red SHALE and reddish brown cf SAND, some Silt.				
				19						
				20		Red cf SAND, little red Shale.				

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 5/9/11
 Date Finish: 5/9/11
 Checked By: JT
 Sheet: 2 of 2

Soil Boring/Well Details: 207-B3

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684051.7
Easting: 611357.1
Elevation: 12.52
Total Depth: 20.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Jason V

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
			14.7			CONCRETE.			
			2.6	1		Black cf SAND and GRAVEL, some Silt, trace Brick and Metal.			
		39		2		Light brown mf SAND, some Gravel and Silt, trace Brick and Cinder.			
			0.0	3		Black mf SAND, some Silt and Gravel, trace Cinder.			
				4		Light brown mf SAND and GRAVEL, some Silt, trace Cinder.			
				5		Light brown cf SAND and GRAVEL, some Silt, trace Seashells.			
				6		Brown mf SAND and GRAVEL, some Silt, trace Brick and Clay.			
				7	2				
		24	0.0	8		Brown SILT, some mf Sand, little Gravel.			
				9					
				10	3	Brown cf SAND and GRAVEL, some Silt, trace Shale.			

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

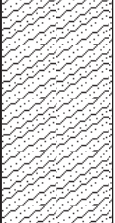
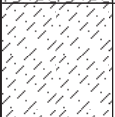
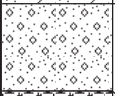



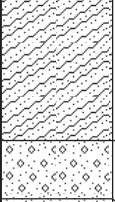
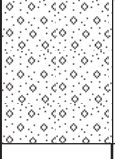
Casing Diameter: NA
 Date Start: 5/9/11
 Date Finish: 5/9/11
 Checked By: JT
 Sheet 1 of 2

Soil Boring/Well Details: 207-B3

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684051.7
Easting: 611357.1
Elevation: 12.52
Total Depth: 20.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Jason V

SAMPLE				SUBSURFACE PROFILE				Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description	Formation			
		55	0.0	11		Brown SILT, some brown mf Sand, little Gravel.				
				12		Brown mf SAND, some Silt, trace Gravel.				
				13	4 	Red brown cf SAND and SHALE, some Silt, trace Clay.				
				14		Meadowmat.				
				15						
				16	5 	Gray SILT, some mf Sand, trace organic Matter, little Clay.				
		46	0.0	17						
				18		Reddish brown cf SAND, some red Shale and Silt.				
				19		Brown red cf SAND and red SHALE, some Silt, little Gravel.				
				20	6 					

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 5/9/11
 Date Finish: 5/9/11
 Checked By: JT
 Sheet: 2 of 2

Soil Boring/Well Details: 207-B4

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684106.1
Easting: 611384.3
Elevation: 12.51
Total Depth: 18.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Jason V

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		27	0.0	1		GRAVEL, little black of Sand, trace Brick, Cinder and Silt.			
				2		SLAG, some brown of Sand, little Silt and Gravel, trace Cinder.			
			8.1	3		Brown of SAND and GRAVEL, some Silt, little Slag and Metal, trace Brick and Cinder.			
			0.2	4		Dark brown mf SAND, some Gravel and Silt, little Metal, trace Cinder and Brick.			
			0.0	5		Brown of SAND and GRAVEL, trace Metal and Cinder.			
				6		Red BRICK and SILT, some dark brown of Sand, trace Cinder.			
				7		Dark brown of SAND and GRAVEL, some Silt, little Slag, trace Cinder and Brick.			
		25	0.0	8		Brown SILT and GRAVEL, some of Sand, little Cinder, trace Clay.			
				9		Brown SILT and of SAND, some Gravel, little Clay, trace Cinder and Seashells.			
				10					

Drilling Company: EMC
Driller: Mike Morris
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 5/9/11
Date Finish: 5/9/11
Checked By: JT
Sheet 1 of 2

Soil Boring/Well Details: 207-B4

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684106.1
Easting: 611384.3
Elevation: 12.51
Total Depth: 18.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: Jason V

SAMPLE				SUBSURFACE PROFILE				Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description	Formation			
		48	0.0	11		Brown SILT, some mf Sand, little Seashells, little Clay.				
				12			Brown SILT (peat-like), some mf Sand, trace Cinder, Wood, Seashells and red Shale.			
				13	4		Brown of SAND and GRAVEL, some Silt, little red Shale.			
				14			Meadowmat.			
				15						
				16						
				17	5					
		42	0.0	17			Light gray SILT, some mf Sand, little organic Matter and Clay.			
				18						
				19						
				20	6					

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302








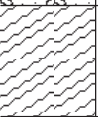



Casing Diameter: NA
 Date Start: 5/9/11
 Date Finish: 5/9/11
 Checked By: JT
 Sheet: 2 of 2

Soil Boring/Well Details: 207-B4-1

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 611379
Easting: 684114
Elevation: 12.50
Total Depth: 10.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: ED

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
207-B4-1	5.5-6.0	28		0.0		Asphalt			
				0.0		Pale yellow SAND, some Gravel			
				1.0		Brown to reddish brown SILT, little Gravel			
				2.0		Asphalt			
				3.0		Gray SAND and CINDERS, trace coal			
				4.0		Dark brown/black Silty SAND, some cinders, little coal, trace gravel			
				5.0		Gray/black/brown SILTY SAND and GRAVEL, little cinders, trace coal			
				6.0		Brown Clayey SILT, trace gravel, trace shells			
				7.0		Brown Clayey SILT and blue CLAY, trace gravel			
				8.0		Brown CLAY			
9.0		Reddish brown SILT, trace gravel							
10.0									

Drilling Company: EMC
Driller: Ryan Zyjack
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
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Casing Diameter: NA
Date Start: 7/18/12
Date Finish: 7/18/12
Checked By:
 Sheet 1 of 1

Soil Boring/Well Details: 207-B5

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684139.5
Easting: 611410.6
Elevation: 12.14
Total Depth: 20.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
				1	●	Black of SAND and GRAVEL, some Silt, trace Brick, Metal and Cinder.			
				2	●	Light brown mf SAND, some Gravel and Silt, trace Brick, Cinder			
				3	●	Red brown of SAND, some Gravel and Silt, trace Cinder, Brick and Clay.			
				4	●	Black of SAND and GRAVEL, some Silt, trace Cinder, Brick and Seashells.			
				5	■	BRICK and CONCRETE.			
				6	●	Black of SAND and GRAVEL, some Silt, little Cinder, trace Brick.			
				7	●	Brown SILT, some of Sand, little Brick and Gravel, trace Cinder.			
				8	●	GRAVEL and brown SILT, some of Sand, little Brick, trace Cinder.			
				9	●	GRAVEL, some Ceramic, little Silt and Cinder.			
				10	●				

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start:
 Date Finish:
 Checked By: JT
 Sheet 1 of 2

Soil Boring/Well Details: 207-B5

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684139.5
Easting: 611410.6
Elevation: 12.14
Total Depth: 20.0

Water Level:
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
				11		Brown SILT (peat-like), some brown mf Sand, trace Cinder and Wood.			
				12					
				13			4	Brown mf SAND, some Silt, trace Cinder and Seashells.	
				14		Meadowmat.			
				15					
				16			5	Gray SILT, some Gravel, trace Clay.	
				17		Gray SILT, some red Shale, trace Clay.			
				18					
				19			6	Red SHALE, red cf Sand, some Silt.	
				20					

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302




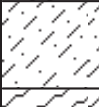
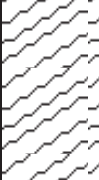


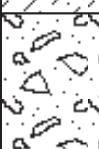

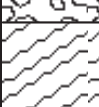

Casing Diameter: NA
 Date Start:
 Date Finish:
 Checked By: JT
 Sheet: 2 of 2

Soil Boring/Well Details: 207-B5-1

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684147.8
Easting: 611403.4
Elevation: 10.9
Total Depth: 15.0

Water Level: 7 feet
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: ED

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)	
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description				Formation
207-B5-1 5.5-6.0		40		0.0	1		Brown topsoil, some gravel			
				0.0	1		Black SAND, some Gravel, little ashes, little Silt			
				0.0	2		Brown SAND, little Silt, little Gravel			
				0.0	3		Reddish brown Silty SAND, little blue Clay, trace gravel, trace coal			
				0.0	4		Brown Clayey SILT, some to trace Gravel, little cinders, trace gray coarse sand			Saturated
				0.0	5		Black Silty CLAY, some Gravel, trace cinders			Moist
				0.0	6		Brown Silty SAND, some Gravel, trace wood, trace cinders			Saturated
				0.0	7		Black Silty SAND and GRAVEL, some coal, little cinders, trace wood, trace metal			Moist
				0.0	8		Brown SILT, some Gravel, little coal and cinders, trace wood			Wet
				0.0	9		Black GRAVEL, little Silt and Sand, trace coal, trace wood			Moist
0.0	10		Brown Clayey SILT, little Gravel							

Drilling Company: EMC
 Driller: Ryan Zyjack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

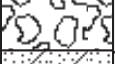
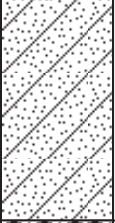


Casing Diameter: NA
 Date Start: 7-18-12
 Date Finish: 7-18-12
 Checked By: ED
 Sheet 1 of 2

Soil Boring/Well Details: 207-B5-1

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684147.8
Easting: 611403.4
Elevation: 10.9
Total Depth: 15.0

Water Level: 7 feet
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: ED

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description			
				11		Reddish brown GRAVEL, little Silty Sand			
			0.0	12		Brown Clayey SAND, trace gravel, trace wood		Wet	
		50	0.0	13		Peat			
			0.0	14				Moist to saturated	
				15					
				16					
				17					
				18					
				19					
				20					

Drilling Company: EMC
 Driller: Ryan Zyjack
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 7-18-12
 Date Finish: 7-18-12
 Checked By: ED
 Sheet: 2 of 2

Soil Boring/Well Details: 207-B6

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684193.5
Easting: 611405.6
Elevation: 12.53
Total Depth: 15.0

Water Level: 6.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		36	0.0	1		Dark brown of SAND and GRAVEL, some Silt, trace Wood, Cinder and Brick.			
				2		Brown of SAND and GRAVEL, some Silt, trace Wood and Cinders.			
				3					
				4					
				5		Brown of SAND and GRAVEL, some Silt, little Cinder, moist.			
				6		Brown of SAND and GRAVEL, some Silt, trace Cinder, moist.			
		33.5	0.0	7		2	Brown SILT and GRAVEL, some Cinders, wet.		
				8		GRAVEL, some Silt and of Sand, trace Cinder, saturated.			
				9		Red SHALE, saturated.			
				10		3	Brown SILT and of SAND, some Gravel, little Cinder, moist.		
				11		Brown mf SAND, some Silt, trace Gravel, wet.			
		58	0.0	12		Meadowmat.			
				13		4			
				14					
				15			Light brown SILT and of SAND, some red Shale, little Gravel.		

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start:
 Date Finish:
 Checked By: JT
 Sheet 1 of 1

Soil Boring/Well Details: 207-B8

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684099.0
Easting: 611449.0
Elevation: 12.03
Total Depth: 15.0

Water Level: 7.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		47	0.0	1	1	Light mf SAND, some Silt, little Gravel, trace Roots, Concrete and Cinder.			
				2		Dark Brown cf SAND, some Silt and Gravel, trace Roots, Wood and Cinder.			
				3		Black cf SAND and GRAVEL, some Silt, trace Cinder and Slag.			
				4		Light brown mf SAND and SILT, little Gravel, trace Cinder and Glass.			
				5		Brown cf SAND and red SHALE, some Silt, Gravel and Cinder.			
				6		Brown cf SAND and SILT, some Gravel, trace Cinder.			
				7	2	Reddish brown cf SAND and GRAVEL, some Silt, little red Shale.			
		49.5	0.0	8		Brown SILT and GRAVEL, wet.			
				9		Dark brown SILT and GRAVEL, some cf Sand, trace Glass and Cinders, wet.			

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start:
 Date Finish:
 Checked By: JT
 Sheet 1 of 2

Soil Boring/Well Details: 207-B8

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684099.0
Easting: 611449.0
Elevation: 12.03
Total Depth: 15.0

Water Level: 7.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE				Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description	Formation			
				3		Pale brown SILT and GRAVEL, some of Sand and Cinder. Chalky in texture, wet.				
				10		Brown SILT, some Gravel, trace Cinder and red Ceramic, moist.				
				11		Brown SILT, some of Sand and Gravel, trace Cinder, Metal, red Ceramic and Wood.				
				12		Red SHALE.				
		46	0.0	13		Brown mf SAND, some Silt.				
				4		Meadowmat.				
				14						
				15						
				5						
				16						
				17						
				18						

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start:
 Date Finish:
 Checked By: JT
 Sheet: 2 of 2

Soil Boring/Well Details: 207-B9

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684130.7
Easting: 611454.4
Elevation: 12.05
Total Depth: 15.0

Water Level: 7.0
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/vm)	Symbol	Description			
			0.0	0.0		Brown mf SAND and ROOTS, some Silt and Wood, trace Glass.			
			96.4	1					
		48		2		Light brown mf SAND, some Gravel and Silt, trace Slag and Cinder.			
			0.0	3	1	Brown black cf SAND and GRAVEL, some Silt and Slag, little Cinder, trace red Shale.			
				4					
				5		Brown cf SAND and GRAVEL, some Silt, little Slag and Cinder, trace turquoise f Sand			
				6					
		54	0.0	7	2	Brown cf SAND and GRAVEL, some Silt, little red Shale, moist to wet.			
				8					
				9		Brown cf SAND and GRAVEL, some Silt, little Cinder.			
				10	3	Brown cf SAND and GRAVEL, some Silt, trace red Shale, moist.			
				11					
				12		Dark brown SILT, some Wood.			
		55	0.0	13	4	Brown mf SAND, some Silt.			
				14		Meadowmat.			
				15					

Drilling Company: EMC
Driller: Mike Morris
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start:
Date Finish:
Checked By: JT
Sheet 1 of 1

Soil Boring/Well Details: 207-B18

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684065.9
Easting: 611435.4
Elevation: 12.37
Total Depth: 17.5

Water Level: 1.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE			Remarks	Well Completion Details	Elevation (Ft. MSL)
Sample #	Blow Counts	Recovery (inches)	VOC (PPM)	Depth (ft/m)	Symbol	Description			
		48	0.0	1	1	GRAVEL, some black cf Sand, little Silt, trace Metal.			
				2	1	Dark brown cf SAND and SILT, some Gravel, trace Wood, moist.			
				3	1	Brown cf SAND and light brown mf SAND, some Gravel and Silt, trace Wood and Cinder, wet.			
				4	1	Light brown mf SAND and SILT, trace Cinder and Gravel, wet to saturated.			
				5	1	Brown SILT, some cf Sand and Gravel, little Clay, trace Cinder, wet.			
				6	1	Brown SILT and cf SAND, some Gravel, trace Clay and Cinder.			
				7	2	Brown cf SAND and SILT, some Gravel, trace Cinder, moist.			
		36	0.0	8	2	Brown SILT and GRAVEL, some cf Sand, trace Cinder, saturated.			
				9	2	Dark brown SILT, some Gravel, trace Cinder and Glass, saturated.			
				10	3				

Drilling Company: EMC
Driller: Mike Morris
Drilling Method: Geoprobe
Auger Size: NA
Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
Date Start: 5/12/2011
Date Finish: 5/12/2011
Checked By: JT
Sheet 1 of 2

Soil Boring/Well Details: 207-B18

Project No: B080-64
Project: PPG-Berry Lane
Client: JCRA
Location: Jersey City, NJ

Northing: 684065.9
Easting: 611435.4
Elevation: 12.37
Total Depth: 17.5

Water Level: 1.5
Sampling Method: Geoprobe
Sample Interval: See Log
Logged By: JES

SAMPLE				SUBSURFACE PROFILE				Remarks	Well Completion Details	Elevation (Ft.)
Sample #	Blow Counts	Recovery	VOC (PPM)	Depth	Symbol	Description	Formation			
		42	0.0	11		Dark brown SILT and GRAVEL, little Cinder, saturated.				
				12		Dark brown SILT and GRAVEL, some Wood, little Cinder, trace Brick.				
				13		Dark brown SILT (peat-like), little Gravel, trace Wood and Cinder.				
				13	4	Meadowmat.				
				14						
				15						
				16						
				17	5	Light gray SILT and brown PEAT, some Clay.				
		25	0.0	17		Light gray SILT, some Clay.				
				18						
				19						
				20						
					6					

Drilling Company: EMC
 Driller: Mike Morris
 Drilling Method: Geoprobe
 Auger Size: NA
 Hole Diameter: 3"

DRESDNER ROBIN
 371 Warren Street
 P.O. Box 38
 Jersey City, NJ 07302

Casing Diameter: NA
 Date Start: 5/12/2011
 Date Finish: 5/12/2011
 Checked By: JT
 Sheet: 2 of 2