MORETRENCH

DATE: 10/13/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-1
GS (EL)	190.49
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	127.76	EL
Depth to TOR:	127.83	EL
Time Start:	8:41	
Time Finish:	9:53	
Drilling Duration:	0:57	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	127.83	EL
6 in/min Pull Rate to:	135.47	EL
8 in/min Pull Rate to:	165.63	EL
12 in/min Pull Rate to:	187.50	EL
Depth to Top of JGC:	187.50	EL
Time Start:	10:55	
Time Finish:	12:23	
Grouting Duration:	1:23	h:mm

Summary:

Constructed JG Height:	59.67	ft
Number of Overlaps:	4	

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	59.34' Till
60 ft	62.66' TOR

Notes:

Sampled at 20' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/8/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-2
GS (EL)	190.32
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:		
Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	126.41	EL
Depth to TOR:	128.74	EL
Time Start:	12:34 p.m.	
Time Finish:	12:47 p.m.	
Drilling Duration:	0:13	h:mm
Grouting Parameters:		
Depth to Bottom of JGC:	126.41	EL
6 in/min Pull Rate to:	136.51	EL
8 in/min Pull Rate to:	165.32	EL
12 in/min Pull Rate to:	187.04	EL
Depth to Top of JGC:	187.04	EL
Time Start:	12:48 p.m.	
Time Finish:	2:27 p.m.	
Grouting Duration:	2:21	h:mm
Summary:		
Constructed JG Height:	60.99	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	
	Sand
10 ft	
20 ft	
	Sand / Silty sand
30 ft	
40 ft	
	Sand
50 ft	
	TOT (54.89)
60 ft	TOR (61.58)

Notes:

Technican Signature: Joel Holden

MORETRENCH

DATE: 10/9/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny/Rainy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-3
GS (EL)	190.52
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	190.52	EL
Depth to Bottom of ISS:	136.40	EL
Depth of Nozzle:	126.00	EL
Depth to TOR:	126.00	EL
Time Start:	12:53	
Time Finish:	14:01	
Drilling Duration:	1:08	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	126.00	EL
6 in/min Pull Rate to:	140.98	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	140.98	EL
Time Start:	14:04	
Time Finish:	14:36	
Grouting Duration:	0:32	h:mm

Summary:

Constructed JG Height:	14.98	ft
Number of Overlaps:	4	

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	54.12' Sand (1:24pm)
	54.14' Till
60 ft	
	64.52' TOR
70 ft	
80 ft	

Notes:

Technican Signature: Joel Holden

MORETRENCH

DATE: 10/8/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Partly Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-3A
GS (EL)	190.18
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	127.88	EL
Depth to TOR:	127.92	EL
Time Start:	14:54	
Time Finish:	15:18	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	127.88	EL
6 in/min Pull Rate to:	133.83	EL
8 in/min Pull Rate to:	165.18	EL
12 in/min Pull Rate to:	187.19	EL
Depth to Top of JGC:	187.19	EL
Time Start:	15:53	
Time Finish:	17:22	
Grouting Duration:	1:29	h:mm

Summary:

Constructed JG Height:	59.31	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	58.85' Till
60 ft	62.26' TOR

Notes:

Technican Signature: Joel Holden

MORETRENCH

DATE: 10/16/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-4
GS (EL)	190.38
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	190.38	EL
Depth to Bottom of ISS:	137.38	EL
Depth of Nozzle:	126.40	EL
Depth to TOR:	126.50	EL
Time Start:	9:05	
Time Finish:	9:38	
Drilling Duration:	0:33	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	126.40	EL
6 in/min Pull Rate to:	140.41	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	140.41	EL
Time Start:	9:39	
Time Finish:	10:09	
Grouting Duration:	0:30	h:mm

Summary:

Constructed JG Height:	14.01	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' ISS
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	53' Till (9:30am)
60 ft	63.88' TOR

Notes:

Partial thru 8Q3, ISS Bot EL 135.52
MTA ISS Bot EL137.38
Grout to EL 140.38

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 10/19/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cold
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-5
GS (EL)	190.4
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	130.26	EL
Depth to TOR:	130.34	EL
Time Start:	11:21	
Time Finish:	11:46	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	130.34	EL
6 in/min Pull Rate to:	135.05	EL
8 in/min Pull Rate to:	165.53	EL
12 in/min Pull Rate to:	187.48	EL
Depth to Top of JGC:	187.48	EL
Time Start:	11:47	
Time Finish:	13:15	
Grouting Duration:	1:28	h:mm

Summary:

Constructed JG Height:	57.14	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand/ Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	55.63' Till
60 ft	60.06' TOR

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/20/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cold
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.48		

Element ID No.	SI-6
GS (EL)	190.74
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	132.67	EL
Depth to TOR:	132.71	EL
Time Start:	9:24	
Time Finish:	9:50	
Drilling Duration:	0:26	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	132.71	EL
6 in/min Pull Rate to:	134.77	EL
8 in/min Pull Rate to:	165.85	EL
12 in/min Pull Rate to:	187.89	EL
Depth to Top of JGC:	187.89	EL
Time Start:	10:10	
Time Finish:	11:32	
Grouting Duration:	1:22	h:mm

Summary:

Constructed JG Height:	55.18	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Soil/Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	56.26' Till
	58.03' TOR
60 ft	

Notes:

Sampled at 40' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/21/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-7
GS (EL)	190.18
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	133.26	EL
Depth to TOR:	133.33	EL
Time Start:	8:19	
Time Finish:	8:34	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	133.33	EL
6 in/min Pull Rate to:	137.06	EL
8 in/min Pull Rate to:	165.54	EL
12 in/min Pull Rate to:	187.23	EL
Depth to Top of JGC:	187.23	EL
Time Start:	8:35	
Time Finish:	9:55	
Grouting Duration:	1:20	h:mm

Summary:

Constructed JG Height:	53.90	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	54.71' Till
	56.85' TOR
60 ft	

Notes:

Technican Signature: Matthew Calvi

MORETRENCH

DATE: 10/22/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.48		

Element ID No.	SI-8
GS (EL)	190.16
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	134.65	EL
Depth to Bottom:	134.65	EL
Time Start:	7:56	
Time Finish:	8:26	
Drilling Duration:	0:30	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	134.65	EL
6 in/min Pull Rate to:	139.01	EL
8 in/min Pull Rate to:	165.52	EL
12 in/min Pull Rate to:	187.17	EL
Depth to Top of JGC:	187.17	EL
Time Start:	8:27	
Time Finish:	9:48	
Grouting Duration:	1:21	h:mm

Summary:

Constructed JG Height:	52.52	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	52.88' Till
60 ft	

Notes:

Technican Signature: Matthew Calvi

MORETRENCH

DATE: 10/23/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cool, Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-9
GS (EL)	189.65
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	NA	EL
Depth to TOR:	NA	EL
Time Start:	11:04	
Time Finish:	11:36	
Drilling Duration:	0:32	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	NA	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	NA	EL
Time Start:	NA	
Time Finish:	NA	
Grouting Duration:	NA	h:mm

Summary:

Constructed JG Height:		ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Sand/Soil
	10 in/min
10 ft	
	5-10 in/min
20 ft	15-20 in/min
30 ft	40-50 in/min
	50-60 in/min
40 ft	5-10 in/min
	8 in/min
50 ft	50.68' Till
	53.79' Abandoning Hole
60 ft	

Notes:

Drilled through cementitious material for entire hole. Consulted with Parson's and decided to abandon hole and relocate. Stopped drilling at 11:36am.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/26/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear, Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.45		

Element ID No.	SI-9a
GS (EL)	190.17
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	190.17	EL
TOR:	132.93	EL
Time Start:	8:45	
Time Finish:	9:33	
Drilling Duration:	0:48	h:mm

Grouting Parameters:

Bottom of JGC:	190.17	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	190.17	EL
Time Start:	NA	
Time Finish:	NA	
Grouting Duration:	NA	h:mm

Summary:

Constructed JG Height:	0.00	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
10 ft	20-25 in/min
	15-20 in/min
20 ft	10-15 in/min
	25-30 in/min
30 ft	25-30 in/min
	10-15 in/min
40 ft	9 in/min
	15 in/min
50 ft	10 in/min
	54.55' Till (9:26am)
	57.24' TOR
60 ft	

Notes:

Encountered cementitious material from ground surface to bedrock. Consulted with Parson's and agreed to abandon hole and tremie grout on the way out.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/23/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Partly Cloudy,Cool
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.47	

Element ID No.	SI-10
GS (EL)	189.52
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	133.06	EL
Depth to TOR:	133.07	EL
Time Start:	11:43	
Time Finish:	11:55	
Drilling Duration:	0:12	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	133.07	EL
6 in/min Pull Rate to:	140.73	EL
8 in/min Pull Rate to:	164.59	EL
12 in/min Pull Rate to:	186.60	EL
Depth to Top of JGC:	186.60	EL
Time Start:	11:56	
Time Finish:	13:16	
Grouting Duration:	1:20	h:mm

Summary:

Constructed JG Height:	53.53	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	50.06' Till
	56.45' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/30/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-11
GS (EL)	189.94
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	134.95	EL
TOR:	134.96	EL
Time Start:	13:33	
Time Finish:	14:00	
Drilling Duration:	0:27	h:mm

Grouting Parameters:

Bottom of JGC:	134.96	EL
6 in/min Pull Rate to:	140.07	EL
8 in/min Pull Rate to:	165.05	EL
12 in/min Pull Rate to:	187.05	EL
Top of JGC:	187.05	EL
Time Start:	14:00	
Time Finish:	15:18	
Grouting Duration:	1:18	h:mm

Summary:

Constructed JG Height:	52.09	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	41.96' Cementitious Material??
	10-15 in/min
50 ft	50.84' Till
	54.98' TOR
60 ft	

Notes:

No return during drilling from 0' bgs to 43' bgs.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/30/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-12
GS (EL)	189.95
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	135.03	EL
TOR:	135.04	EL
Time Start:	15:30	
Time Finish:	15:43	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Bottom of JGC:	135.04	EL
6 in/min Pull Rate to:	141.06	EL
8 in/min Pull Rate to:	164.99	EL
12 in/min Pull Rate to:	187.03	EL
Top of JGC:	187.03	EL
Time Start:	15:46	
Time Finish:	17:02	
Grouting Duration:	1:16	h:mm

Summary:

Constructed JG Height:	51.99	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	49.29' Till
	54.91' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/3/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity			

Element ID No.	SI-13
GS (EL)	189.54
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	139.83	EL
TOR:	138.33	EL
Time Start:	12:47	
Time Finish:	13:39	
Drilling Duration:	0:52	h:mm

Grouting Parameters:

Bottom of JGC:	189.54	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	189.54	EL
Time Start:	NA	
Time Finish:	14:51	
Grouting Duration:	NA	h:mm

Summary:

Constructed JG Height:	0.00	ft
Number of Overlaps:		

Depth	Notes
0 ft	0' Cementitious Material
	15-20 in/min
10 ft	20-25 in/min
	25-30 in/min
20 ft	15-20 in/min
	20-25 in/min
30 ft	10-15 in/min
	10-15 in/min
40 ft	15-20 in/min
	43.53' Till (1:14pm) 4 in/min
	1-2 in/min
	20-25 in/min
50 ft	51.21' TOR
60 ft	

Notes:

Encountered cementitious material from ground surface to bedrock. Consulted with Parsons and WRSCompass
Instructed by Parsons to drill to bedrock and tremie grout hole.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/9/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Cool, Clear
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.47	

Element ID No.	SI-13A
GS (EL)	190.36
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	135.58	EL
TOR:	135.61	EL
Time Start:	7:42	
Time Finish:	8:45	
Drilling Duration:	1:03	h:mm

Grouting Parameters:

Bottom of JGC:	135.61	EL
6 in/min Pull Rate to:	143.10	EL
8 in/min Pull Rate to:	148.01	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	148.01	EL
Time Start:	8:46	
Time Finish:	9:09	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	12.40	ft
Number of Overlaps:	4	

Depth	Notes
0 ft	ISS Auger Column 8-Q-7
10 ft	
20 ft	
30 ft	
40 ft	
	47.59' Till (8:27)
50 ft	
	54.75' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-Q-7, Bot EL 144.73

MTA Bot EL 142.77

Grout to EL 147.73

53' - 1.60; 48' - 1.54; 43' - 1.47

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/4/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Cool,Clear
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	SI-14
GS (EL)	190.12
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	135.35	EL
TOR:	135.37	EL
Time Start:	7:35	
Time Finish:	8:10	
Drilling Duration:	0:35	h:mm

Grouting Parameters:

Bottom of JGC:	135.37	EL
6 in/min Pull Rate to:	147.17	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	147.17	EL
Time Start:	8:18	
Time Finish:	8:41	
Grouting Duration:	0:23	h:mm

Summary:

Constructed JG Height:	11.80	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Cementitious Material
10 ft	15-20 in/min
	15-20 in/min
20 ft	15-20 in/min (7:48am)
30 ft	10-15 in/min
40 ft	5-10 in/min (7:58am)
	46.09' Till (8:01am)
50 ft	5-10 in/min
	54.75' TOR
60 ft	

Notes:

Encountered cementitious material from ground surface to Till layer at 46.09' bgs. NAPL present in Till.
Consulted with Parson's and WRSCompass, agreed to grout from bedrock to 43' bgs.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/4/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cool, Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-15
GS (EL)	189.42
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	134.76	EL
TOR:	134.77	EL
Time Start:	9:38	
Time Finish:	9:59	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	135.15	EL
6 in/min Pull Rate to:	145.95	EL
8 in/min Pull Rate to:	164.42	EL
12 in/min Pull Rate to:	186.47	EL
Top of JGC:	186.47	EL
Time Start:	10:41	
Time Finish:	11:57	
Grouting Duration:	1:16	h:mm

Summary:

Constructed JG Height:	51.32	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
	43.72' Till
50 ft	
	54.65' TOR
60 ft	

Notes:

No return during drilling from 9' - 49'

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/4/09 - 11/5/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cool,Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-16
GS (EL)	189.64
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	134.69	EL
TOR:	134.70	EL
Time Start:	12:48	
Time Finish:	13:06	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Bottom of JGC:	134.70	EL
6 in/min Pull Rate to:	142.68	EL
8 in/min Pull Rate to:	165.07	EL
12 in/min Pull Rate to:	186.72	EL
Top of JGC:	186.72	EL
Time Start:	See Below	
Time Finish:	See Below	
Grouting Duration:	1:22	h:mm

Summary:

Constructed JG Height:	52.02	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Wet grout --> JGC SI-15
10 ft	
20 ft	
30 ft	
40 ft	42.81' Cobble?
50 ft	47.41' Till
60 ft	54.94' TOR

Notes:

Slag silo shutoff switch malfunctioned during grouting. Filled mixer with slag. Shut down operations at 1:36pm to empty tank and clean out. (41.40' bgs)

Grouted from 1:07 - 1:36 (29 min)

11/5/09 --> Redrilled from 7:25 - 7:53 to depth of 42.13' bgs

--> Grouted from 7:53 - 8:46 (53 min)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/10/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-17
GS (EL)	189.9
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.90	EL
Bottom of ISS:	148.25	EL
Nozzle:	138.59	EL
TOR:	138.59	EL
Time Start:	7:41	
Time Finish:	8:40	
Drilling Duration:	0:59	h:mm

Grouting Parameters:

Bottom of JGC:	138.59	EL
6 in/min Pull Rate to:	149.80	EL
8 in/min Pull Rate to:	152.96	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	152.96	EL
Time Start:	8:43	
Time Finish:	9:11	
Grouting Duration:	0:28	h:mm

Summary:

Constructed JG Height:	14.37	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' ISS Auger Column 8-Q-10
10 ft	
20 ft	
30 ft	
40 ft	41.65' Till (8:27)
50 ft	51.31' TOR
60 ft	

Notes:

Partial thru ISS Auger Column 8-Q-10, Bot EL 149.06
MTA Bot EL148.25
Grout to EL 152.06

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 11/11/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Partly Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.45		

Element ID No.	SI-18
GS (EL)	189.72
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	137.82	EL
TOR:	137.83	EL
Time Start:	7:44	
Time Finish:	8:30	
Drilling Duration:	0:46	h:mm

Grouting Parameters:

Bottom of JGC:	137.83	EL
6 in/min Pull Rate to:	146.91	EL
8 in/min Pull Rate to:	164.98	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	164.98	EL
Time Start:	8:32	
Time Finish:	9:22	
Grouting Duration:	0:50	h:mm

Summary:

Constructed JG Height:	27.15	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Cementitious Material
	30-35 in/min
10 ft	20-25 in/min
	20-25 in/min
20 ft	10-15 in/min
	8-10 in/min
30 ft	10-15 in/min
	5-8 in/min
40 ft	
	45.33' Till (8:11)
50 ft	51.89' TOR
60 ft	

Notes:

43' - 1.56; 38' - 1.66; 35' - 1.67; 32' - 1.66; 29' - 1.61; 26' - 1.49

Sampled at 30' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/11/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Partly Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-19
GS (EL)	189.94
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	138.73	EL
TOR:	138.74	EL
Time Start:	10:33	
Time Finish:	11:15	
Drilling Duration:	0:42	h:mm

Grouting Parameters:

Bottom of JGC:	138.74	EL
6 in/min Pull Rate to:	146.08	EL
8 in/min Pull Rate to:	150.77	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	150.77	EL
Time Start:	11:16	
Time Finish:	11:44	
Grouting Duration:	0:28	h:mm

Summary:

Constructed JG Height:	12.03	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' ISS Auger Column 4-AJ-19
10 ft	
20 ft	
30 ft	
40 ft	42.28' Sand (11:09)
	44.03' Till
50 ft	51.20' TOR
60 ft	

Notes:

Partial thru ISS Auger column 4-AJ-19, Bot EL 146.12
MTA Bot EL 147.66
Grout to EL 150.66

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/11/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Partly Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-20
GS (EL)	189.67
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	138.61	EL
TOR:	138.63	EL
Time Start:	12:02	
Time Finish:	12:17	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	138.63	EL
6 in/min Pull Rate to:	147.48	EL
8 in/min Pull Rate to:	164.70	EL
12 in/min Pull Rate to:	186.68	EL
Top of JGC:	186.68	EL
Time Start:	12:18	
Time Finish:	13:29	
Grouting Duration:	1:11	h:mm

Summary:

Constructed JG Height:	48.05	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Cementitious Material
	4' Sand
10 ft	
20 ft	
30 ft	
40 ft	42.38' Till
50 ft	51.04' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/11/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	
		1	

Element ID No.	SI-21
GS (EL)	189.93
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	139.86	EL
TOR:	139.91	EL
Time Start:	14:23	
Time Finish:	15:06	
Drilling Duration:	0:43	h:mm

Grouting Parameters:

Bottom of JGC:	139.91	EL
6 in/min Pull Rate to:	149.71	EL
8 in/min Pull Rate to:	155.35	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	155.35	EL
Time Start:	15:07	
Time Finish:	15:36	
Grouting Duration:	0:29	h:mm

Summary:

Constructed JG Height:	15.44	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	ISS Auger Column 8' Test 4
10 ft	
20 ft	
30 ft	
	37.67' Sand (2:45)
40 ft	40.38' Till
50 ft	50.02' TOR
60 ft	

Notes:

Partial thru SS Auger 8' Test 4, Bot EL 150.94
MTA Bot EL 152.26
Grout to EL 155.26

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/11/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-22
GS (EL)	189.86
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	138.55	EL
TOR:	138.56	EL
Time Start:	15:49	
Time Finish:	16:12	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	138.56	EL
6 in/min Pull Rate to:	149.24	EL
8 in/min Pull Rate to:	164.91	EL
12 in/min Pull Rate to:	187.01	EL
Top of JGC:	187.01	EL
Time Start:	16:13	
Time Finish:	17:25	
Grouting Duration:	1:12	h:mm

Summary:

Constructed JG Height:	48.45	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	Layers of cementitious material and sands
10 ft	(3:53pm)
20 ft	(3:57pm)
30 ft	(4:03pm)
40 ft	40.64' Till
50 ft	51.30' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/13/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-23
GS (EL)	189.74
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.74	EL
Bottom of ISS:	153.41	EL
Nozzle:	143.64	EL
TOR:	148.47	EL
Time Start:	7:38	
Time Finish:	8:34	
Drilling Duration:	0:53	h:mm

Grouting Parameters:

Bottom of JGC:	143.64	EL
6 in/min Pull Rate to:	157.72	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	157.72	EL
Time Start:	8:35	
Time Finish:	9:05	
Grouting Duration:	0:30	h:mm

Summary:

Constructed JG Height:	14.08	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	ISS Auger Column 7-U-17
10 ft	
20 ft	
30 ft	
	36.33' Sand (8:11)
	37.29' Till
40 ft	41.27' TOR??
	46.10' Total Depth
50 ft	
60 ft	

Notes:

Encountered what appeared to be rock at ~41' bgs. Surrounding columns had lower bedrock elevations.
Drilled to 46' bgs.

Sampled at 35' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/13/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-24
GS (EL)	189.55
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	145.52	EL
TOR:	145.57	EL
Time Start:	10:23	
Time Finish:	10:49	
Drilling Duration:	0:26	h:mm

Grouting Parameters:

Bottom of JGC:	145.57	EL
6 in/min Pull Rate to:	154.08	EL
8 in/min Pull Rate to:	164.62	EL
12 in/min Pull Rate to:	186.60	EL
Top of JGC:	186.60	EL
Time Start:	10:50	
Time Finish:	11:51	
Grouting Duration:	1:01	h:mm

Summary:

Constructed JG Height:	41.03	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	35.65' Till
40 ft	43.98' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/13/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-25
GS (EL)	189.49
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	147.76	EL
TOR:	149.01	EL
Time Start:	12:10	
Time Finish:	12:32	
Drilling Duration:	0:22	h:mm

Grouting Parameters:

Bottom of JGC:	147.76	EL
6 in/min Pull Rate to:	155.20	EL
8 in/min Pull Rate to:	164.52	EL
12 in/min Pull Rate to:	186.50	EL
Top of JGC:	186.50	EL
Time Start:	12:33	
Time Finish:	13:27	
Grouting Duration:	0:54	h:mm

Summary:

Constructed JG Height:	38.74	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	Sand/Soil
10 ft	
20 ft	
30 ft	
	35.78' Till
40 ft	40.48' TOR??
	41.73' Total Depth
50 ft	
60 ft	

Notes:

Encountered what appeared to be rock at 40.48'. Anticipated rock was lower, drilled to 41.73'.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/13/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-26
GS (EL)	189.44
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	147.34	EL
TOR:	147.34	EL
Time Start:	14:24	
Time Finish:	14:56	
Drilling Duration:	0:32	h:mm

Grouting Parameters:

Bottom of JGC:	147.34	EL
6 in/min Pull Rate to:	154.21	EL
8 in/min Pull Rate to:	164.51	EL
12 in/min Pull Rate to:	186.49	EL
Top of JGC:	186.49	EL
Time Start:	14:56	
Time Finish:	15:53	
Grouting Duration:	0:57	h:mm

Summary:

Constructed JG Height:	39.15	ft
Number of Overlaps:	4	

Depth	Notes
0 ft	0' Sand/Soil
	Layers of cementitious material
10 ft	
20 ft	
30 ft	
	35.46' Till
40 ft	
	42.10' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/14/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Raining
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.43		

Element ID No.	SI-27
GS (EL)	189.63
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	154.36	EL
TOR:	154.37	EL
Time Start:	9:32	
Time Finish:	9:53	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Bottom of JGC:	154.37	EL
6 in/min Pull Rate to:	158.69	EL
8 in/min Pull Rate to:	164.60	EL
12 in/min Pull Rate to:	186.78	EL
Top of JGC:	186.78	EL
Time Start:	9:55	
Time Finish:	10:37	
Grouting Duration:	0:42	h:mm

Summary:

Constructed JG Height:	32.41	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	31.75' Till
	35.26' TOR
40 ft	
50 ft	
60 ft	

Notes:

Sampled at 25' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/14/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-28
GS (EL)	189.78
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.48	EL
TOR:	156.51	EL
Time Start:	10:50	
Time Finish:	11:12	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Bottom of JGC:	156.51	EL
6 in/min Pull Rate to:	159.66	EL
8 in/min Pull Rate to:	164.88	EL
12 in/min Pull Rate to:	186.89	EL
Top of JGC:	186.89	EL
Time Start:	11:12	
Time Finish:	11:51	
Grouting Duration:	0:39	h:mm

Summary:

Constructed JG Height:	30.38	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	9' Cementitious Material
	10' Sand/Soil
20 ft	
30 ft	30.27' Till
	33.27' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/24/09
SHEET: 1 OF 1
SHIFT: 1st **2nd** 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-29
GS (EL)	189.47
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	155.87	EL
TOR:	155.87	EL
Time Start:	15:32	
Time Finish:	16:04	
Drilling Duration:	0:32	h:mm

Grouting Parameters:

Bottom of JGC:	155.87	EL
6 in/min Pull Rate to:	162.50	EL
8 in/min Pull Rate to:	164.47	EL
12 in/min Pull Rate to:	186.48	EL
Top of JGC:	186.48	EL
Time Start:	16:05	
Time Finish:	16:46	
Grouting Duration:	0:41	h:mm

Summary:

Constructed JG Height:	30.61	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
	28.57' Till
30 ft	
	33.60' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: AEB/MM

MORETRENCH

DATE: 11/24/09
SHEET: 1 OF 1
SHIFT: 1st **2nd** 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-30
GS (EL)	189.16
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	155.66	EL
TOR:	155.66	EL
Time Start:	16:58	
Time Finish:	17:18	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	155.66	EL
6 in/min Pull Rate to:	162.19	EL
8 in/min Pull Rate to:	164.23	EL
12 in/min Pull Rate to:	186.24	EL
Top of JGC:	186.24	EL
Time Start:	17:21	
Time Finish:	18:00	
Grouting Duration:	0:39	h:mm

Summary:

Constructed JG Height:	30.58	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	28.74' Till
	33.50' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: AEB/MM

MORETRENCH

DATE: 11/24/09
SHEET: 1 OF 1
SHIFT: 1st **2nd** 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-31
GS (EL)	188.95
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.27	EL
TOR:	156.27	EL
Time Start:	20:22	
Time Finish:	21:03	
Drilling Duration:	0:41	h:mm

Grouting Parameters:

Bottom of JGC:	156.27	EL
6 in/min Pull Rate to:	164.56	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.00	EL
Top of JGC:	186.00	EL
Time Start:	21:04	
Time Finish:	21:43	
Grouting Duration:	0:39	h:mm

Summary:

Constructed JG Height:	29.73	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	25.91' Till 32.68' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: AEB/MM

MORETRENCH

DATE: 12/2/09
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Overcast
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-32
GS (EL)	189.27
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.27	EL
Bottom of ISS:	171.07	EL
Nozzle:	156.69	EL
TOR:	156.70	EL
Time Start:	12:13	
Time Finish:	12:38	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Bottom of JGC:	156.70	EL
6 in/min Pull Rate to:	163.38	EL
8 in/min Pull Rate to:	164.30	EL
12 in/min Pull Rate to:	186.28	EL
Top of JGC:	186.28	EL
Time Start:	12:44	
Time Finish:	13:23	
Grouting Duration:	0:39	h:mm

Summary:

Constructed JG Height:	29.58	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Cementitious Material
10 ft	
	18.20' Sand (12:30pm)
20 ft	
	27.39' Till
30 ft	
	32.57' TOR
40 ft	
50 ft	
60 ft	

Notes:

Encountered cementitious material from ground surface to a depth of 18.20' bgs. 12:13pm - 12:30pm

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/4/09
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Clear
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.47	

Element ID No.	SI-33
GS (EL)	188.08
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.78	EL
TOR:	156.79	EL
Time Start:	9:43	13:30
Time Finish:	9:59	13:49
Drilling Duration:	0:35	h:mm

Grouting Parameters:

Bottom of JGC:	156.79	EL
6 in/min Pull Rate to:	163.15	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	184.86	EL
Top of JGC:	184.86	EL
Time Start:	13:50	
Time Finish:	14:27	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	28.07	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
	25.5' Till
30 ft	31.29' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/2/09
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Raining
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	SI-34
GS (EL)	189.2
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.20	EL
TOR:	157.20	EL
Time Start:	20:06	
Time Finish:	20:30	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	156.20	EL
6 in/min Pull Rate to:	160.90	EL
8 in/min Pull Rate to:	164.23	EL
12 in/min Pull Rate to:	186.31	EL
Top of JGC:	186.31	EL
Time Start:	20:32	8:43
Time Finish:	20:48	9:13
Grouting Duration:	0:46	h:mm

Summary:

Constructed JG Height:	30.11	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	28.34' Till
	32.00' TOR
40 ft	
50 ft	
60 ft	

Notes:

Jetted from 33' bgs to 23' bgs before problems were encountered with Silo switches. Jetted from 8:32pm - 8:48pm.

12/4/2009

Redrill hole from 8:13 - 8:20 to a depth of 29.10' bgs. Start jetting at 8:43. 8 in/min --> 24.87'

12 in/min --> 2.89' Finish jetting at 9:13am

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/15/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	44 AND RAIN
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-35
GS (EL)	188.05
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Nozzle:	159.18	EL
TOR:	159.25	EL
Time Start:	9:06	
Time Finish:	9:20	
Drilling Duration:	0:14	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	159.18	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.05	EL
12 in/min Pull Rate to:	185.06	EL
Depth to Top of JGC:	185.06	EL
Time Start:	9:21	
Time Finish:	9:52	
Grouting Duration:	0:31	h:mm

Summary:

Constructed JG Height:	25.88	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	25 feet dense material & cobbles
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/15/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	44 and rains
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI 36
GS (EL)	188.31
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Nozzle:	163.12	EL
TOR:	163.12	EL
Time Start:	12:19	
Time Finish:	12:34	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	163.12	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.46	EL
Depth to Top of JGC:	185.46	EL
Time Start:	12:35	
Time Finish:	12:59	
Grouting Duration:	0:24	h:mm

Summary:

Constructed JG Height:	22.34	ft
Number of Overlaps:	4	

Depth	Notes
0 ft	
10 ft	
	25 ft. cobbles & dense material
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Stephen Hawkins

MORETRENCH

DATE: 3/15/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	44 rain
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SI-37
GS (EL)	188.69
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	176.19	EL
Nozzle:	163.95	EL
TOR:	164.67	EL
Time Start:	1:55	
Time Finish:	2:13	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	163.95	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	182.19	EL
Depth to Top of JGC:	182.19	EL
Time Start:	2:14	
Time Finish:	2:33	
Grouting Duration:	0:19	h:mm

Summary:

Constructed JG Height:	18.24	ft
Number of Overlaps:	4	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Drilled .54 extra feet of rock due to the rock depth estamates

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/16/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 and clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-38
GS (EL)	188.84
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Nozzle:	163.87	EL
TOR:	164.54	EL
Time Start:	9:15	
Time Finish:	9:27	
Drilling Duration:	0:12	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	163.87	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	181.79	EL
Depth to Top of JGC:	181.79	EL
Time Start:	9:27	
Time Finish:	9:47	
Grouting Duration:	0:20	h:mm

Summary:

Constructed JG Height:	17.92	ft
Number of Overlaps:	4	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3-16-201
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 AND CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.47	

Element ID No.	SI-39
GS (EL)	188.26
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Nozzle:	163.72	EL
TOR:	163.76	EL
Time Start:	10:53	
Time Finish:	11:10	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	163.72	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	181.34	EL
Depth to Top of JGC:	181.34	EL
Time Start:	11:10	
Time Finish:	11:30	
Grouting Duration:	0:20	h:mm

Summary:

Constructed JG Height:	17.62	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Steve Hawkins

Predr MORETRENCH

DATE: 3/16/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-40
GS (EL)	188.37
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Nozzle:	163.47	EL
TOR:	163.47	EL
Time Start:	11:49	
Time Finish:	11:58	
Drilling Duration:	0:09	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	163.47	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	182.14	EL
Depth to Top of JGC:	182.14	EL
Time Start:	11:59	
Time Finish:	12:19	
Grouting Duration:	0:20	h:mm

Summary:

Constructed JG Height:	18.67	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/16/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	
Client: WRS Compass		Engineer: Parsons	

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SI-41
GS (EL)	188.12
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Nozzle:	162.00	EL
TOR:	162.02	EL
Time Start:	12:45	
Time Finish:	13:01	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	162.00	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.12	EL
12 in/min Pull Rate to:	176.14	EL
Depth to Top of JGC:	176.14	EL
Time Start:	1:02	
Time Finish:	1:17	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	14.14	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

PRE-DRILLED

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/16/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.47	

Element ID No.	SI-42
GS (EL)	188.36
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Nozzle:	161.95	EL
TOR:	161.96	EL
Time Start:	1:28	
Time Finish:	1:48	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	161.95	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.36	EL
12 in/min Pull Rate to:	174.48	EL
Depth to Top of JGC:	174.48	EL
Time Start:	1:49	
Time Finish:	2:02	
Grouting Duration:	0:13	h:mm

Summary:

Constructed JG Height:	12.53	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

PRE-DRILLED

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/16/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 and clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.49		

Element ID No.	SI-43
GS (EL)	188.3
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Nozzle:	162.10	EL
TOR:	162.10	EL
Time Start:	2:15	
Time Finish:	3:07	
Drilling Duration:	0:52	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	162.10	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.30	EL
12 in/min Pull Rate to:	180.59	EL
Depth to Top of JGC:	180.59	EL
Time Start:	3:08	
Time Finish:	3:28	
Grouting Duration:	0:20	h:mm

Summary:

Constructed JG Height:	18.49	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes: This was a pre-drilled hole
Two obstructions were hit when drilled for jetting

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/17/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	47 CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.48	

Element ID No.	SI-44
GS (EL)	188.91
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Nozzle:	162.56	EL
TOR:	162.60	EL
Time Start:	8:50	
Time Finish:	9:11	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	162.56	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.91	EL
12 in/min Pull Rate to:	176.25	EL
Depth to Top of JGC:	176.25	EL
Time Start:	9:12	
Time Finish:	9:27	
Grouting Duration:	0:15	h:mm

Summary:

Constructed JG Height:	13.69	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

PREDRILLED

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/17/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.48	

Element ID No.	SI-45
GS (EL)	189.14
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Nozzle:	162.89	EL
TOR:	162.94	EL
Time Start:	9:36	
Time Finish:	9:51	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	162.89	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.14	EL
12 in/min Pull Rate to:	176.67	EL
Depth to Top of JGC:	176.67	EL
Time Start:	9:52	
Time Finish:	10:08	
Grouting Duration:	0:16	h:mm

Summary:

Constructed JG Height:	13.78	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

PRE-DRILLED

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/17/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 AND CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.48	

Element ID No.	SI-46
GS (EL)	189.38
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	167.88	EL
Nozzle:	163.69	EL
TOR:	164.00	EL
Time Start:	11:15	
Time Finish:	11:50	
Drilling Duration:	0:35	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	163.69	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.38	EL
12 in/min Pull Rate to:	172.45	EL
Depth to Top of JGC:	172.45	EL
Time Start:	11:50	
Time Finish:	11:59	
Grouting Duration:	0:09	h:mm

Summary:

Constructed JG Height:	8.76	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
	DENSE MATERIAL AT 24.5 FEET
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/17/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 and clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.48		

Element ID No.	SI-47
GS (EL)	190.01
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	165.01	EL
Nozzle:	161.60	EL
TOR:	161.61	EL
Time Start:	12:15	
Time Finish:	12:46	
Drilling Duration:	0:31	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	161.60	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.01	EL
12 in/min Pull Rate to:	168.13	EL
Depth to Top of JGC:	168.13	EL
Time Start:	12:47	
Time Finish:	12:57	
Grouting Duration:	0:10	h:mm

Summary:

Constructed JG Height:	6.53	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/17/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.48		

Element ID No.	SI-48
GS (EL)	190.16
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	173.16	EL
Nozzle:	162.01	EL
TOR:	162.06	EL
Time Start:	1:12	
Time Finish:	1:41	
Drilling Duration:	0:29	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	162.01	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.16	EL
12 in/min Pull Rate to:	180.16	EL
Depth to Top of JGC:	180.16	EL
Time Start:	1:42	
Time Finish:	2:04	
Grouting Duration:	0:22	h:mm

Summary:

Constructed JG Height:	18.15	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

THIS COLUMN WAS PULLED TO A HIGHER DEPTH DUE TO A SOFT ZONE AT 13.5 TO 16.5 FEET DEEP+A1

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 3/17/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	50 CLEAR
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.48		

Element ID No.	SI-49
GS (EL)	190.27
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	171.27	EL
Nozzle:	162.15	EL
TOR:	162.37	EL
Time Start:	2:20	
Time Finish:	2:44	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	162.15	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.27	EL
12 in/min Pull Rate to:	174.33	EL
Depth to Top of JGC:	174.33	EL
Time Start:	2:44	
Time Finish:	3:09	
Grouting Duration:	0:25	h:mm

Summary:

Constructed JG Height:	12.18	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 10/2/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-1
GS (EL)	189.96
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	124.93	EL
Depth to TOR:	126.66	EL
Time Start:	12:28	
Time Finish:	12:54	
Drilling Duration:	0:26	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	124.93	EL
6 in/min Pull Rate to:	132.87	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.52	EL
Depth to Top of JGC:	186.52	EL
Time Start:	12:56	
Time Finish:	14:09	
Grouting Duration:	1:13	h:mm

Summary:

Constructed JG Height:	61.59	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Soil/Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	57.5' Till
60 ft	
	63.3' TOR
	65.03' Drilled to depth
70 ft	
80 ft	

Notes:

Hit rock at 63.3' (EL 126.66). Drilled to 65.03' (EL 124.96) because WRSCompass and Parsons anticipated rock was at EL 124. EL 126.66 at 12:45. EL 124.96 at 12:54

Lost return at 6' bgs. Stopped jetting at 3.44' bgs because hole opened up from surface down and there was no more material to cut.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/7/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny/ Windy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-2
GS (EL)	190.1
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:		
Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	127.99	EL
Depth to TOR:	128.05	EL
Time Start:	8:25 a.m.	
Time Finish:	8:44 a.m.	
Drilling Duration:	0:19	h:mm

Grouting Parameters:		
Depth to Bottom of JGC:	127.99	EL
6 in/min Pull Rate to:	136.25	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	187.15	EL
Depth to Top of JGC:	187.15	EL
Time Start:	8:45 a.m.	
Time Finish:	9:57 a.m.	
Grouting Duration:	1:12	h:mm

Summary:		
Constructed JG Height:	59.16	ft
Number of Overlaps:	3	

Depth	**Notes**
0 ft	Sand
10 ft	
20 ft	Silty sand
30 ft	
40 ft	
50 ft	TOT (54.86)
60 ft	TOR (61.06)

Notes: Changed pull rate 6in./min. to 12in./min. at 53.86

Technican Signature: Joel Holden

MORETRENCH

DATE: 10/5/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.53		

Element ID No.	SO-3
GS (EL)	189.41
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	125.07	EL
Depth to TOR:	127.58	EL
Time Start:	12:51	
Time Finish:	13:17	
Drilling Duration:	0:26	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	125.07	EL
6 in/min Pull Rate to:	134.43	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	186.46	EL
Depth to Top of JGC:	186.46	EL
Time Start:	13:22	
Time Finish:	14:36	
Grouting Duration:	1:14	h:mm

Summary:

Constructed JG Height:	61.39	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	55.40' Till
60 ft	
	61.83' TOR
	64.34' Drilled to
70 ft	
80 ft	

Notes:

MTA encountered rock at EL 127.58 (1:00pm). WRSCompass and Parsons anticipated rock at EL 124.
Drilled to EL125.07 (1:17pm)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/2/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity			

Element ID No.	SO-4
GS (EL)	190.03
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	190.03	EL
Depth to TOR:	190.03	EL
Time Start:	15:10	
Time Finish:		
Drilling Duration:	#######	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	190.03	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Depth to Top of JGC:	190.03	EL
Time Start:		
Time Finish:		
Grouting Duration:	0:00	h:mm

Summary:

Constructed JG Height:	0.00	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	
	1.5' Obstruction encountered. Concrete slab??
	Pulled off hole and moved to next location.
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Started drilling at 3:10pm. Encountered obstruction at 1.5' bgs. Pulled off hole and moved to next location, SO-7.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/8/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-4
GS (EL)	190
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	128.35	EL
Depth to TOR:	128.53	EL
Time Start:	9:30	
Time Finish:	9:41	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	128.35	EL
6 in/min Pull Rate to:	136.73	EL
8 in/min Pull Rate to:	165.00	EL
12 in/min Pull Rate to:	187.08	EL
Depth to Top of JGC:	187.08	EL
Time Start:	9:53	
Time Finish:	11:30	
Grouting Duration:	1:32	h:mm

Summary:

Constructed JG Height:	58.73	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	55.77' Till
60 ft	61.47' TOR

Notes:

Sampled at 50' bgs

Technican Signature: Joel Holden

MORETRENCH

DATE: 10/7/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny/Windy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-5
GS (EL)	189.46
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	128.40	EL
Depth to TOR:	128.41	EL
Time Start:	11:41	
Time Finish:	12:03	
Drilling Duration:	0:22	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	128.41	EL
6 in/min Pull Rate to:	137.57	EL
8 in/min Pull Rate to:	164.46	EL
12 in/min Pull Rate to:	186.54	EL
Depth to Top of JGC:	186.54	EL
Time Start:	12:20	
Time Finish:	14:07	
Grouting Duration:	1:47	h:mm

Summary:

Constructed JG Height:	58.13	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	54.39' Till
60 ft	61.05' TOR

Notes:

No return during drilling from 0' - 57.55'

Technican Signature: Joel Holden

MORETRENCH

DATE: 10/6/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.49		

Element ID No.	SO-6
GS (EL)	190
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	128.42	EL
Depth to TOR:	131.18	EL
Time Start:	13:37	
Time Finish:	13:58	
Drilling Duration:	0:21	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	128.42	EL
6 in/min Pull Rate to:	134.55	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	187.15	EL
Depth to Top of JGC:	187.15	EL
Time Start:	13:59	
Time Finish:	15:06	
Grouting Duration:	1:07	h:mm

Summary:

Constructed JG Height:	58.73	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	56.85' Till
60 ft	58.82' TOR
	63.08' Drilled to
70 ft	
80 ft	

Notes:

MTA encountered rock at EL 131.18 (1:44pm)
WRSCompass and Parson's anticipated rock at EL 127.
Drilled to EL 126.92 (1:58pm)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/2/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Cloudy
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.47	

Element ID No.	SO-7
GS (EL)	189.88
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	130.00	EL
Depth to TOR:	133.00	EL
Time Start:	15:42	
Time Finish:	16:07	
Drilling Duration:	0:25	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	130.00	EL
6 in/min Pull Rate to:	139.85	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	187.12	EL
Depth to Top of JGC:	187.12	EL
Time Start:	16:07	
Time Finish:	17:16	
Grouting Duration:	1:09	h:mm

Summary:

Constructed JG Height:	57.12	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Soil/Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	54.19' Till
	56.88' TOR (3:54)
60 ft	59.88' Drilled to depth (4:07)

Notes:

MTA encountered rock at EL 56.88' bgs, EL 133. WRSCompass and Parson's anticipated Rock was EL 130.
Directed to drill to EL 130. Extra drill time = 13 min. Extra grout time = 6 min

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/7/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	sunny/windy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-8
GS (EL)	189.95
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:			Depth	Notes
Depth to Top of ISS:	NA	EL	***0 ft***	Sand
Depth to Bottom of ISS:	NA	EL		
Depth of Nozzle:	132.00	EL		
Depth to TOR:	135.19	EL		
Time Start:	2:25 p.m.		***10 ft***	
Time Finish:	2:57 p.m.			
Drilling Duration:	0:32	h:mm		
Grouting Parameters:			***20 ft***	Sand
Depth to Bottom of JGC:	132.00	EL		
6 in/min Pull Rate to:	140.49	EL		
8 in/min Pull Rate to:	164.95	EL		
12 in/min Pull Rate to:	187.10	EL	***30 ft***	
Depth to Top of JGC:	187.10	EL		
Time Start:	2:59 p.m.			
Time Finish:	4:38 p.m.			
Grouting Duration:	2:21	h:mm	***40 ft***	Sand / Silty Sand
Summary:				
Constructed JG Height:	55.10	ft		
Number of Overlaps:	2		***50 ft***	TOT (50.46)
				TOR (54.76)
			60 ft	

Notes: Drill bit clugged from 2:27 p.m.- 2:32 p.m.
Drilled (TOR) from 54.76 to 57.95 (2:42 p.m. - 2:57 p.m.)
From 3:23 p.m. had to stop grouting due to slag delivery shoot.
Started to grout again at 3:33 p.m.
Specific gravity at 41.40 = 1.67
Turned pump off at 3:49 p.m. to change filter screens on Tecniwell pump.
Started to grout at 3:50 p.m.

Technican Signature: Joel Holden

MORETRENCH

DATE: 10/5/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.51		

Element ID No.	SO-9
GS (EL)	189.82
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	132.93	EL
Depth to TOR:	132.97	EL
Time Start:	15:43	
Time Finish:	15:53	
Drilling Duration:	0:10	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	132.97	EL
6 in/min Pull Rate to:	137.10	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	187.00	EL
Depth to Top of JGC:	187.00	EL
Time Start:	15:54	
Time Finish:	16:56	
Grouting Duration:	1:02	h:mm

Summary:

Constructed JG Height:	54.03	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	53.57' Till
	56.85' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/9/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny/Rainy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.48		

Element ID No.	SO-10
GS (EL)	190.08
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	132.73	EL
Depth to TOR:	132.77	EL
Time Start:	15:12	
Time Finish:	15:34	
Drilling Duration:	0:22	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	132.73	EL
6 in/min Pull Rate to:	138.59	EL
8 in/min Pull Rate to:	165.08	EL
12 in/min Pull Rate to:	187.13	EL
Depth to Top of JGC:	187.13	EL
Time Start:	15:34	
Time Finish:	17:04	
Grouting Duration:	1:30	h:mm

Summary:

Constructed JG Height:	54.40	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Sand
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
	53.99' Till
	57.31' TOR
60 ft	

Notes:

Sampled at 20' bgs

Technican Signature: Joel Holden

MORETRENCH

DATE: 10/20/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cool, Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-11
GS (EL)	190.53
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	134.69	EL
Depth to TOR:	134.73	EL
Time Start:	14:21	
Time Finish:	14:52	
Drilling Duration:	0:31	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	134.73	EL
6 in/min Pull Rate to:	140.01	EL
8 in/min Pull Rate to:	165.71	EL
12 in/min Pull Rate to:	187.61	EL
Depth to Top of JGC:	187.61	EL
Time Start:	14:52	
Time Finish:	16:12	
Grouting Duration:	1:20	h:mm

Summary:

Constructed JG Height:	52.88	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/ Soil
10 ft	
20 ft	
30 ft	
40 ft	
	9 in/min
50 ft	
	53.76' Till
	55.80' TOR
60 ft	

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 10/6/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.49		

Element ID No.	SO-12
GS (EL)	190.27
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	134.79	EL
Depth to TOR:	134.80	EL
Time Start:	15:25	
Time Finish:	15:41	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	134.80	EL
6 in/min Pull Rate to:	140.27	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	187.42	EL
Depth to Top of JGC:	187.42	EL
Time Start:	15:42	
Time Finish:	16:54	
Grouting Duration:	1:12	h:mm

Summary:

Constructed JG Height:	52.62	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Sand/ Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	50.38' Till
	55.47' TOR
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/22/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.49	

Element ID No.	SO-13
GS (EL)	189.35
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	135.02	EL
Depth to TOR:	135.13	EL
Time Start:	14:50	
Time Finish:	15:08	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.13	EL
6 in/min Pull Rate to:	143.19	EL
8 in/min Pull Rate to:	164.38	EL
12 in/min Pull Rate to:	186.46	EL
Depth to Top of JGC:	186.46	EL
Time Start:	15:08	
Time Finish:	16:26	
Grouting Duration:	1:18	h:mm

Summary:

Constructed JG Height:	51.33	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Sand/ Soil
10 ft	
20 ft	
30 ft	
40 ft	
	48.58' Till
50 ft	
	54.22' TOR
60 ft	

Notes:

Technican Signature: Matthew Calvi

MORETRENCH

DATE: 10/23/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cool, Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-14
GS (EL)	190.28
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	135.13	EL
Depth to TOR:	135.34	EL
Time Start:	14:03	
Time Finish:	14:15	
Drilling Duration:	0:12	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	135.34	EL
6 in/min Pull Rate to:	141.56	EL
8 in/min Pull Rate to:	165.39	EL
12 in/min Pull Rate to:	187.29	EL
Depth to Top of JGC:	187.29	EL
Time Start:	14:16	
Time Finish:	15:50	
Grouting Duration:	1:34	h:mm

Summary:

Constructed JG Height:	51.95	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	48.78' Till
	54.94' TOR
60 ft	

Notes:

Beginning at 3:30pm (13.52' bgs), tiltometer lights kept turning on and off. Everytime light came on, grouting had to stop until light turned off. 10.75' bgs @ 3:42. 2.99' bgs @ 3:50. Addtl 10 minutes spent grouting.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/28/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Heavy Rain
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.47	

Element ID No.	SO-15
GS (EL)	190.32
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	136.42	EL
TOR:	136.42	EL
Time Start:	8:21	
Time Finish:	8:51	
Drilling Duration:	0:30	h:mm

Grouting Parameters:

Bottom of JGC:	136.42	EL
6 in/min Pull Rate to:	147.44	EL
8 in/min Pull Rate to:	165.32	EL
12 in/min Pull Rate to:	187.47	EL
Top of JGC:	187.47	EL
Time Start:	8:51	
Time Finish:	10:15	
Grouting Duration:	1:24	h:mm

Summary:

Constructed JG Height:	51.05	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	44.45' Till
50 ft	53.90' TOR
60 ft	

Notes:

Operations shut down for day after completion of this hole.

Technican Signature: Matt Calvi

MORETRENCH

DATE: 11/2/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SO-16
GS (EL)	189.77
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	140.82	EL
TOR:	140.82	EL
Time Start:	8:35	
Time Finish:	8:50	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	140.82	EL
6 in/min Pull Rate to:	145.58	EL
8 in/min Pull Rate to:	164.84	EL
12 in/min Pull Rate to:	186.82	EL
Top of JGC:	186.82	EL
Time Start:	8:55	
Time Finish:	10:02	
Grouting Duration:	1:07	h:mm

Summary:

Constructed JG Height:	46.00	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
	44.67' Till
50 ft	48.95' TOR
60 ft	

Notes:

Standby by 7:15 - 7:58am because tiltometer light was on.

Sampled at 20' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/30/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.47	

Element ID No.	SO-17
GS (EL)	189.87
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	134.95	EL
TOR:	134.99	EL
Time Start:	8:33	
Time Finish:	8:48	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	134.99	EL
6 in/min Pull Rate to:	144.92	EL
8 in/min Pull Rate to:	165.17	EL
12 in/min Pull Rate to:	186.88	EL
Top of JGC:	186.88	EL
Time Start:	8:48	
Time Finish:	10:17	
Grouting Duration:	1:18	h:mm

Summary:

Constructed JG Height:	51.89	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
	45.27' Till
50 ft	
	54.88' TOR
60 ft	

Notes:

Sampled at 30' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/26/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Cool, Clear
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.45	

Element ID No.	SO-18
GS (EL)	189.35
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	137.15	EL
TOR:	137.16	EL
Time Start:	10:29	
Time Finish:	10:48	
Drilling Duration:	0:19	h:mm

Grouting Parameters:

Bottom of JGC:	137.16	EL
6 in/min Pull Rate to:	146.98	EL
8 in/min Pull Rate to:	164.35	EL
12 in/min Pull Rate to:	186.50	EL
Top of JGC:	186.50	EL
Time Start:	10:49	
Time Finish:	13:45	
Grouting Duration:	1:09	h:mm

Summary:

Constructed JG Height:	49.34	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	43.17' Till (10:37)
50 ft	52.19' TOR
60 ft	

Notes:

11:21am - shut down b/c of tiltometer lights blinking.

1:01pm - OK given to continue. 1:08pm - drill steel back to depth to contiue grouting

Sampled at 30' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/27/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy, Rain
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SO-18A
GS (EL)	189.41
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	189.41	EL
Bottom of ISS:	146.47	EL
Nozzle:	137.58	EL
TOR:	137.58	EL
Time Start:	11:10	
Time Finish:	12:12	
Drilling Duration:	1:02	h:mm

Grouting Parameters:

Bottom of JGC:	137.58	EL
6 in/min Pull Rate to:	147.97	EL
8 in/min Pull Rate to:	164.44	EL
12 in/min Pull Rate to:	186.56	EL
Top of JGC:	186.56	EL
Time Start:	12:12	
Time Finish:	13:24	
Grouting Duration:	1:12	h:mm

Summary:

Constructed JG Height:	48.98	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Semi solid grout
10 ft	
20 ft	
30 ft	
40 ft	42.94' Sand/Till (11:58am)
50 ft	51.83' TOR
60 ft	

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 11/2/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SO-19
GS (EL)	188.54
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	138.67	EL
TOR:	138.67	EL
Time Start:	11:12	
Time Finish:	11:35	
Drilling Duration:	0:23	h:mm

Grouting Parameters:

Bottom of JGC:	138.67	EL
6 in/min Pull Rate to:	148.28	EL
8 in/min Pull Rate to:	163.64	EL
12 in/min Pull Rate to:	185.59	EL
Top of JGC:	185.59	EL
Time Start:	11:12	
Time Finish:	15:23	
Grouting Duration:	1:18	h:mm

Summary:

Constructed JG Height:	46.92	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	
	41.37' Till
50 ft	49.87' TOR
60 ft	

Notes:

Ran out of slag at 12:02pm. Product delievery and continued grouting at 2:55pm. (2hrs 53m)

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/29/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-20
GS (EL)	188.15
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	139.17	EL
TOR:	139.17	EL
Time Start:	8:08	
Time Finish:	8:28	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	139.17	EL
6 in/min Pull Rate to:	146.45	EL
8 in/min Pull Rate to:	163.15	EL
12 in/min Pull Rate to:	185.16	EL
Top of JGC:	185.16	EL
Time Start:	9:37	
Time Finish:	10:47	
Grouting Duration:	1:10	h:mm

Summary:

Constructed JG Height:	45.99	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	43.43' Till
	48.98' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/10/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cool, Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-21
GS (EL)	188.71
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	141.96	EL
TOR:	141.96	EL
Time Start:	10:30	
Time Finish:	10:54	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	141.96	EL
6 in/min Pull Rate to:	149.50	EL
8 in/min Pull Rate to:	163.81	EL
12 in/min Pull Rate to:	185.82	EL
Top of JGC:	185.82	EL
Time Start:	10:55	
Time Finish:	11:58	
Grouting Duration:	1:03	h:mm

Summary:

Constructed JG Height:	43.86	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	41.40' Till
	46.75' TOR
50 ft	
60 ft	

Notes:

Sampled at 20' bgs

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 10/30/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.47	

Element ID No.	SO-22
GS (EL)	188.07
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	142.14	EL
TOR:	142.61	EL
Time Start:	11:17	
Time Finish:	11:30	
Drilling Duration:	0:13	h:mm

Grouting Parameters:

Bottom of JGC:	142.14	EL
6 in/min Pull Rate to:	148.27	EL
8 in/min Pull Rate to:	163.10	EL
12 in/min Pull Rate to:	185.12	EL
Top of JGC:	185.12	EL
Time Start:	11:31	
Time Finish:	12:35	
Grouting Duration:	1:04	h:mm

Summary:

Constructed JG Height:	42.98	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	40.48' Till
	45.46' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/27/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy, Rain
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-23
GS (EL)	189.48
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	148.34	EL
TOR:	148.34	EL
Time Start:	14:20	
Time Finish:	14:34	
Drilling Duration:	0:14	h:mm

Grouting Parameters:

Bottom of JGC:	148.34	EL
6 in/min Pull Rate to:	151.68	EL
8 in/min Pull Rate to:	164.51	EL
12 in/min Pull Rate to:	186.49	EL
Top of JGC:	186.49	EL
Time Start:	14:34	
Time Finish:	15:27	
Grouting Duration:	0:53	h:mm

Summary:

Constructed JG Height:	38.15	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
40 ft	41.14' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 11/2/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SO-24
GS (EL)	188.3
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	145.52	EL
TOR:	145.52	EL
Time Start:	15:52	
Time Finish:	16:07	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	145.52	EL
6 in/min Pull Rate to:	155.89	EL
8 in/min Pull Rate to:	164.94	EL
12 in/min Pull Rate to:	185.45	EL
Top of JGC:	185.45	EL
Time Start:	16:09	
Time Finish:	17:09	
Grouting Duration:	1:00	h:mm

Summary:

Constructed JG Height:	39.93	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	
	36.70' Till
40 ft	
	42.78' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/29/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear,Cool
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.48		

Element ID No.	SO-25
GS (EL)	188.6
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	145.23	EL
TOR:	145.23	EL
Time Start:	12:09	
Time Finish:	12:27	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Bottom of JGC:	145.23	EL
6 in/min Pull Rate to:	155.66	EL
8 in/min Pull Rate to:	163.73	EL
12 in/min Pull Rate to:	185.61	EL
Top of JGC:	185.61	EL
Time Start:	12:27	
Time Finish:	13:26	
Grouting Duration:	0:59	h:mm

Summary:

Constructed JG Height:	40.38	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	34.70' Till
40 ft	43.37' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/10/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cool, Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SO-26
GS (EL)	188.5
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	146.47	EL
TOR:	146.47	EL
Time Start:	13:06	
Time Finish:	13:35	
Drilling Duration:	0:29	h:mm

Grouting Parameters:

Bottom of JGC:	146.47	EL
6 in/min Pull Rate to:	158.53	EL
8 in/min Pull Rate to:	163.93	EL
12 in/min Pull Rate to:	185.58	EL
Top of JGC:	185.58	EL
Time Start:	13:37	
Time Finish:	14:39	
Grouting Duration:	1:02	h:mm

Summary:

Constructed JG Height:	39.11	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	33.19' Till
40 ft	42.03' TOR
50 ft	
60 ft	

Notes:

Technican Signature: Steve Hawkins

MORETRENCH

DATE: 11/3/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Sunny
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.45	

Element ID No.	SO-27
GS (EL)	188.21
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	147.66	EL
TOR:	147.67	EL
Time Start:	8:54	
Time Finish:	9:09	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	147.67	EL
6 in/min Pull Rate to:	155.34	EL
8 in/min Pull Rate to:	163.51	EL
12 in/min Pull Rate to:	185.36	EL
Top of JGC:	185.36	EL
Time Start:	9:16	
Time Finish:	10:08	
Grouting Duration:	0:52	h:mm

Summary:

Constructed JG Height:	37.69	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	33.59' Till
40 ft	40.54' TOR
50 ft	
60 ft	

Notes:

Standby from 7:00 - 7:50am waiting for approval to work because of tiltometer light

Sampled at 20' bgs

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/29/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.47	

Element ID No.	SO-28
GS (EL)	189.14
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	151.51	EL
TOR:	151.51	EL
Time Start:	13:58	
Time Finish:	14:15	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Bottom of JGC:	151.51	EL
6 in/min Pull Rate to:	156.50	EL
8 in/min Pull Rate to:	164.17	EL
12 in/min Pull Rate to:	186.19	EL
Top of JGC:	186.19	EL
Time Start:	14:15	
Time Finish:	15:06	
Grouting Duration:	0:51	h:mm

Summary:

Constructed JG Height:	34.68	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	34.24' Till
	37.63' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/10/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cool, Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-29
GS (EL)	188.29
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	153.55	EL
TOR:	153.55	EL
Time Start:	14:54	
Time Finish:	15:12	
Drilling Duration:	0:18	h:mm

Grouting Parameters:

Bottom of JGC:	153.55	EL
6 in/min Pull Rate to:	156.56	EL
8 in/min Pull Rate to:	163.32	EL
12 in/min Pull Rate to:	185.40	EL
Top of JGC:	185.40	EL
Time Start:	15:13	
Time Finish:	15:57	
Grouting Duration:	0:44	h:mm

Summary:

Constructed JG Height:	31.85	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	33.42' Till
	34.74' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 10/29/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.48		

Element ID No.	SO-30
GS (EL)	188.76
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.48	EL
TOR:	156.48	EL
Time Start:	15:31	
Time Finish:	15:39	
Drilling Duration:	0:08	h:mm

Grouting Parameters:

Bottom of JGC:	156.48	EL
6 in/min Pull Rate to:	161.27	EL
8 in/min Pull Rate to:	169.40	EL
12 in/min Pull Rate to:	185.84	EL
Top of JGC:	185.84	EL
Time Start:	15:39	
Time Finish:	16:25	
Grouting Duration:	0:46	h:mm

Summary:

Constructed JG Height:	29.36	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	29.45' Till
	32.38' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/7/09
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Cloudy
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	SO-30A
GS (EL)	189.03
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	189.03	EL
TOR:	189.03	EL
Time Start:		
Time Finish:		
Drilling Duration:	0:00	h:mm

Grouting Parameters:

Bottom of JGC:	189.03	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	NA	EL
Top of JGC:	189.03	EL
Time Start:		
Time Finish:		
Grouting Duration:	0:00	h:mm

Summary:

Constructed JG Height:	0.00	ft
Number of Overlaps:		

Depth	Notes
0 ft	
	OBSTRUCTION AT 1' BGS
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

7:25pm - Starting drilling hole, encountered obstruction at 1' bgs. Appears to be a concrete footer. Consulted with WRSC and Parson's; agreed to field move hole approx 1' to the Southeast and redrill. Began drilling new location at 7:43pm. Obstruction encountered again. Abandoning hole and having surveyors lay out next cluster of holes.

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/3/09
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SO-31
GS (EL)	188.61
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.49	EL
TOR:	157.19	EL
Time Start:	11:32	
Time Finish:	11:48	
Drilling Duration:	0:16	h:mm

Grouting Parameters:

Bottom of JGC:	156.49	EL
6 in/min Pull Rate to:	158.49	EL
8 in/min Pull Rate to:	163.64	EL
12 in/min Pull Rate to:	185.62	EL
Top of JGC:	185.62	EL
Time Start:	11:51	
Time Finish:	12:27	
Grouting Duration:	0:36	h:mm

Summary:

Constructed JG Height:	29.13	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	30.73' Till
	31.42' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/7/09
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Cloudy
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	SO-31A
GS (EL)	189.05
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	154.37	EL
TOR:	154.38	EL
Time Start:	17:20	
Time Finish:	17:37	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Bottom of JGC:	154.38	EL
6 in/min Pull Rate to:	159.26	EL
8 in/min Pull Rate to:	164.02	EL
12 in/min Pull Rate to:	186.20	EL
Top of JGC:	186.20	EL
Time Start:	17:38	
Time Finish:	18:20	
Grouting Duration:	0:42	h:mm

Summary:

Constructed JG Height:	31.82	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	Debris??
	3.5' Sand/Soil
10 ft	5:26pm
20 ft	
30 ft	29.78' Till (5:29pm)
	34.67' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 11/24/09
SHEET: 1 OF 1
SHIFT: 1st **2nd** 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SO-32
GS (EL)	189.38
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	155.72	EL
TOR:	155.72	EL
Time Start:	19:02	
Time Finish:	19:26	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	155.72	EL
6 in/min Pull Rate to:	163.40	EL
8 in/min Pull Rate to:	166.15	EL
12 in/min Pull Rate to:	186.53	EL
Top of JGC:	186.53	EL
Time Start:	19:27	
Time Finish:	20:04	
Grouting Duration:	0:37	h:mm

Summary:

Constructed JG Height:	30.81	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	27.94' Till 33.66' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/7/09
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Cloudy
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	SO-32A
GS (EL)	189.41
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	153.58	EL
TOR:	153.59	EL
Time Start:	15:51	
Time Finish:	16:15	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	153.59	EL
6 in/min Pull Rate to:	160.09	EL
8 in/min Pull Rate to:	164.41	EL
12 in/min Pull Rate to:	186.46	EL
Top of JGC:	186.46	EL
Time Start:	16:18	
Time Finish:	17:03	
Grouting Duration:	0:45	h:mm

Summary:

Constructed JG Height:	32.87	ft
Number of Overlaps:	3	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	29.32' Till (4:01pm)
	35.82' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/2/09
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Overcast
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-33
GS (EL)	189.21
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	157.09	EL
TOR:	157.10	EL
Time Start:	13:37	
Time Finish:	13:52	
Drilling Duration:	0:15	h:mm

Grouting Parameters:

Bottom of JGC:	157.09	EL
6 in/min Pull Rate to:	161.21	EL
8 in/min Pull Rate to:	164.28	EL
12 in/min Pull Rate to:	186.29	EL
Top of JGC:	186.29	EL
Time Start:	13:52	
Time Finish:	14:28	
Grouting Duration:	0:36	h:mm

Summary:

Constructed JG Height:	29.20	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Sand/Soil
10 ft	
20 ft	
30 ft	29.5' Till
	32.11' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/2/09
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Overcast
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	SO-34
GS (EL)	189.38
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	154.88	EL
TOR:	154.88	EL
Time Start:	15:00	
Time Finish:	15:24	
Drilling Duration:	0:24	h:mm

Grouting Parameters:

Bottom of JGC:	154.88	EL
6 in/min Pull Rate to:	160.95	EL
8 in/min Pull Rate to:	164.41	EL
12 in/min Pull Rate to:	186.49	EL
Top of JGC:	186.49	EL
Time Start:	15:25	
Time Finish:	16:09	
Grouting Duration:	0:44	h:mm

Summary:

Constructed JG Height:	31.61	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Footing??
	6' Sand (3:10pm)
10 ft	
20 ft	
30 ft	28.5' Till
	34.50' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/2/09
SHEET: 1 OF 1
SHIFT: 1st | 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP
Location: 12 Water Street, White Plains NY 10601	Weather: Raining
Client: WRS Compass	Engineer: Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
	Water	380	lit
	Cement	95	kg
	Slag	285	kg
	Specific Gravity	1.46	

Element ID No.	SO-35
GS (EL)	189.15
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.65	EL
TOR:	156.66	EL
Time Start:	16:41	
Time Finish:	17:01	
Drilling Duration:	0:20	h:mm

Grouting Parameters:

Bottom of JGC:	156.66	EL
6 in/min Pull Rate to:	161.02	EL
8 in/min Pull Rate to:	164.12	EL
12 in/min Pull Rate to:	186.20	EL
Top of JGC:	186.20	EL
Time Start:	17:02	
Time Finish:	17:40	
Grouting Duration:	0:38	h:mm

Summary:

Constructed JG Height:	29.54	ft
Number of Overlaps:	1	

Depth	Notes
0 ft	0' Footing
	3.70' Sand/Soil (4:46pm)
10 ft	
20 ft	
30 ft	29.52' Till
	32.50' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 12/2/09
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Raining
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-36
GS (EL)	189.4
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.40	EL
TOR:	156.40	EL
Time Start:	18:50	
Time Finish:	19:07	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Bottom of JGC:	156.40	EL
6 in/min Pull Rate to:	160.27	EL
8 in/min Pull Rate to:	164.43	EL
12 in/min Pull Rate to:	186.41	EL
Top of JGC:	186.41	EL
Time Start:	19:08	
Time Finish:	19:48	
Grouting Duration:	0:40	h:mm

Summary:

Constructed JG Height:	30.01	ft
Number of Overlaps:	2	

Depth	Notes
0 ft	0' Footing
	8.96' Sand/Soil (6:54pm)
10 ft	
20 ft	
30 ft	29.22' Till
	33.00' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/5/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-37
Grout Mix:	Water	380	lit		GS (EL)	188.83
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	156.13	EL
TOR:	156.16	EL
Time Start:	19:46	
Time Finish:	19:54	
Drilling Duration:	0:08	h:mm

Grouting Parameters:

Bottom of JGC:	156.16	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.83	EL
12 in/min Pull Rate to:	185.84	EL
Top of JGC:	185.84	EL
Time Start:	19:57	
Time Finish:	20:37	
Grouting Duration:	0:40	h:mm

Summary:

Constructed JG Height:	29.68	ft

Depth	Notes
0 ft	Pre-drilled
10 ft	
20 ft	
30 ft	32.67' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/8/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-38
Grout Mix:	Water	380	lit		GS (EL)	188.72
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	159.72	EL
TOR:	159.72	EL
Time Start:	7:43	
Time Finish:	7:52	
Drilling Duration:	0:09	h:mm

Grouting Parameters:

Bottom of JGC:	159.72	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.72	EL
12 in/min Pull Rate to:	185.83	EL
Top of JGC:	185.83	EL
Time Start:	7:55	
Time Finish:	8:28	
Grouting Duration:	0:33	h:mm

Summary:

Constructed JG Height:	26.11	ft

Depth	Notes
0 ft	Pre-drilled
10 ft	
20 ft	
30 ft	29.00' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/8/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-39
Grout Mix:	Water	380	lit		GS (EL)	188.84
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	161.08	EL
TOR:	161.59	EL
Time Start:	8:36	
Time Finish:	8:47	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Bottom of JGC:	161.59	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.84	EL
12 in/min Pull Rate to:	185.85	EL
Top of JGC:	185.85	EL
Time Start:	8:48	
Time Finish:	9:19	
Grouting Duration:	0:31	h:mm

Summary:

Constructed JG Height:	24.26	ft

Depth	Notes
0 ft	Pre-drilled
10 ft	
20 ft	
	27.25' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/8/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-40
Grout Mix:	Water	380	lit		GS (EL)	188.93
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	162.91	EL
TOR:	162.93	EL
Time Start:	10:21	
Time Finish:	10:30	
Drilling Duration:	0:09	h:mm

Grouting Parameters:		
Bottom of JGC:	162.93	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.93	EL
12 in/min Pull Rate to:	186.01	EL
Top of JGC:	186.01	EL
Time Start:	10:30	
Time Finish:	10:55	
Grouting Duration:	0:25	h:mm

Summary:		
Constructed JG Height:	23.08	ft

Depth	Notes
0 ft	Pre-drilled
10 ft	
20 ft	
	26.00' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/8/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-41
Grout Mix:	Water	380	lit		GS (EL)	188.74
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	162.79	EL
TOR:	162.84	EL
Time Start:	11:22	
Time Finish:	11:34	
Drilling Duration:	0:12	h:mm

Grouting Parameters:		
Bottom of JGC:	162.84	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.85	EL
Top of JGC:	185.85	EL
Time Start:	11:35	
Time Finish:	12:02	
Grouting Duration:	0:27	h:mm

Summary:		
Constructed JG Height:	23.01	ft

Depth	**Notes**
0 ft	Pre-drilled
10 ft	
20 ft	
	25.90' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/8/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-42
Grout Mix:	Water	380	lit		GS (EL)	188.59
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	161.42	EL
TOR:	161.49	EL
Time Start:	13:36	
Time Finish:	13:46	
Drilling Duration:	0:10	h:mm
Grouting Parameters:		
Bottom of JGC:	161.49	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.59	EL
12 in/min Pull Rate to:	183.28	EL
Top of JGC:	183.28	EL
Time Start:	13:47	
Time Finish:	14:12	
Grouting Duration:	0:25	h:mm
Summary:		
Constructed JG Height:	21.79	ft

Depth	Notes
0 ft	Pre-drilled
10 ft	
20 ft	
	27.10' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/9/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-43
Grout Mix:	Water	380	lit		GS (EL)	188.60
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.5			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	162.71	EL
TOR:	163.40	EL
Time Start:	7:04	
Time Finish:	7:17	
Drilling Duration:	0:13	h:mm

Grouting Parameters:		
Bottom of JGC:	163.40	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	185.61	EL
Top of JGC:	185.61	EL
Time Start:	7:18	
Time Finish:	7:42	
Grouting Duration:	0:24	h:mm

Summary:		
Constructed JG Height:	22.21	ft

Depth	Notes
0 ft	Pre-drilled
10 ft	
20 ft	
	25.20' TOR
	27.39' Final Depth
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/9/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-44
Grout Mix:	Water	380	lit		GS (EL)	188.79
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.5			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	163.36	EL
TOR:	163.39	EL
Time Start:	8:00	
Time Finish:	8:15	
Drilling Duration:	0:15	h:mm

Grouting Parameters:		
Bottom of JGC:	163.39	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	180.62	EL
Top of JGC:	180.62	EL
Time Start:	8:15	
Time Finish:	8:34	
Grouting Duration:	0:19	h:mm

Summary:		
Constructed JG Height:	17.23	ft

Depth	**Notes**
0 ft	Pre-drilled
10 ft	
20 ft	
	25.40' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/9/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-45
Grout Mix:	Water	380	lit		GS (EL)	188.65
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	161.19	EL
TOR:	161.25	EL
Time Start:	9:02	
Time Finish:	9:11	
Drilling Duration:	0:09	h:mm

Grouting Parameters:		
Bottom of JGC:	161.25	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	179.66	EL
Top of JGC:	179.66	EL
Time Start:	9:12	
Time Finish:	9:33	
Grouting Duration:	0:21	h:mm

Summary:		
Constructed JG Height:	18.41	ft

Depth	Notes
0 ft	Pre-drilled
10 ft	
20 ft	
30 ft	27.40' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/9/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-46
Grout Mix:	Water	380	lit		GS (EL)	188.55
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	162.93	EL
TOR:	162.95	EL
Time Start:	9:44	
Time Finish:	9:53	
Drilling Duration:	0:09	h:mm
Grouting Parameters:		
Bottom of JGC:	162.95	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	NA	EL
12 in/min Pull Rate to:	180.10	EL
Top of JGC:	180.10	EL
Time Start:	9:54	
Time Finish:	10:12	
Grouting Duration:	0:18	h:mm
Summary:		
Constructed JG Height:	17.15	ft

Depth	Notes
0 ft	Pre-drilled
10 ft	
20 ft	
	25.60' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/9/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-47
Grout Mix:	Water	380	lit		GS (EL)	188.43
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	NA	EL
Nozzle:	161.13	EL
TOR:	161.13	EL
Time Start:	11:29	
Time Finish:	11:35	
Drilling Duration:	0:06	h:mm

Grouting Parameters:		
Bottom of JGC:	161.13	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.43	EL
12 in/min Pull Rate to:	185.51	EL
Top of JGC:	185.51	EL
Time Start:	11:36	
Time Finish:	12:04	
Grouting Duration:	0:28	h:mm

Summary:		
Constructed JG Height:	24.38	ft

Depth	Notes
0 ft	Pre-drilled
10 ft	
20 ft	
	27.30' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/9/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-48
Grout Mix:	Water	380	lit		GS (EL)	189.22
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.49			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	179.06	EL
Nozzle:	161.82	EL
TOR:	161.82	EL
Time Start:	12:13	
Time Finish:	12:27	
Drilling Duration:	0:14	h:mm
Grouting Parameters:		
Bottom of JGC:	161.82	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.22	EL
12 in/min Pull Rate to:	182.26	EL
Top of JGC:	182.26	EL
Time Start:	12:27	
Time Finish:	12:53	
Grouting Duration:	0:26	h:mm
Summary:		
Constructed JG Height:	20.44	ft

Depth	Notes
0 ft	Excavator ISS Cell
10 ft	10.16' Sand/Soil (12:23pm)
20 ft	
30 ft	27.40' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/10/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-49
Grout Mix:	Water	380	lit		GS (EL)	189.01
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	174.51	EL
Nozzle:	162.01	EL
TOR:	162.01	EL
Time Start:	7:51	
Time Finish:	8:15	
Drilling Duration:	0:24	h:mm
Grouting Parameters:		
Bottom of JGC:	162.01	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.01	EL
12 in/min Pull Rate to:	177.52	EL
Top of JGC:	177.52	EL
Time Start:	8:16	
Time Finish:	8:34	
Grouting Duration:	0:18	h:mm
Summary:		
Constructed JG Height:	15.51	ft

Depth	Notes
0 ft	Excavator ISS Cell
10 ft	
	14.50' Sand/Soil (8:04am)
20 ft	
	27.00' TOR
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/10/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-50
Grout Mix:	Water	380	lit		GS (EL)	189.89
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	174.89	EL
Nozzle:	160.99	EL
TOR:	160.99	EL
Time Start:	8:55	
Time Finish:	9:18	
Drilling Duration:	0:23	h:mm
Grouting Parameters:		
Bottom of JGC:	160.99	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.89	EL
12 in/min Pull Rate to:	177.91	EL
Top of JGC:	177.91	EL
Time Start:	9:19	
Time Finish:	10:16	
Grouting Duration:	0:20	h:mm
Summary:		
Constructed JG Height:	16.92	ft

Depth	Notes
0 ft	Excavator ISS Cell
10 ft	
	15.00' Sand/Soil (9:14am)
20 ft	
30 ft	28.90' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/10/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-51
Grout Mix:	Water	380	lit		GS (EL)	190.23
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	171.93	EL
Nozzle:	160.83	EL
TOR:	160.83	EL
Time Start:	11:33	
Time Finish:	12:02	
Drilling Duration:	0:29	h:mm

Grouting Parameters:

Bottom of JGC:	160.83	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.23	EL
12 in/min Pull Rate to:	174.94	EL
Top of JGC:	174.94	EL
Time Start:	12:03	
Time Finish:	12:23	
Grouting Duration:	0:20	h:mm

Summary:

Constructed JG Height:	14.11	ft

Depth	Notes
0 ft	Excavator ISS Cell
10 ft	
	18.30' Sand/Soil (11:52am)
20 ft	
30 ft	29.40' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/10/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm
Grout Mix:	Water	380	lit	
	Cement	95	kg	
	Slag	285	kg	
	Specific Gravity	1.47		

Element ID No.	SO-52
GS (EL)	190.39
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Top of ISS:	NA	EL
Bottom of ISS:	172.09	EL
Nozzle:	161.19	EL
TOR:	161.19	EL
Time Start:	12:45	
Time Finish:	13:11	
Drilling Duration:	0:26	h:mm

Grouting Parameters:

Bottom of JGC:	161.19	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.39	EL
12 in/min Pull Rate to:	175.13	EL
Top of JGC:	175.13	EL
Time Start:	13:11	
Time Finish:	13:31	
Grouting Duration:	0:20	h:mm

Summary:

Constructed JG Height:	13.94	ft

Depth	Notes
0 ft	Excavator ISS Cell
10 ft	
	18.30' Sand/Soil (1:05pm)
20 ft	
30 ft	29.20' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 3/10/10
SHEET: 1 OF 1
SHIFT: 1st 2nd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Clear
Client: WRS Compass		Engineer:	Parsons

Working Parameters	**Element Type:**	**Col**		**Nozzle Dia:** 6mm	Element ID No.	SO-53
Grout Mix:	Water	380	lit		GS (EL)	190.56
	Cement	95	kg		Rotation Speed (rpm)	12
	Slag	285	kg		Grout Pressure (Bar)	400
	Specific Gravity	1.47			Grout Flow (gal/min)	98
					Air Pressure (Bar)	7

Drilling Parameters:		
Top of ISS:	NA	EL
Bottom of ISS:	173.26	EL
Nozzle:	159.95	EL
TOR:	159.96	EL
Time Start:	13:56	
Time Finish:	14:11	
Drilling Duration:	0:15	h:mm
Grouting Parameters:		
Bottom of JGC:	159.96	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	165.56	EL
12 in/min Pull Rate to:	177.76	EL
Top of JGC:	177.76	EL
Time Start:	14:12	
Time Finish:	14:39	
Grouting Duration:	0:27	h:mm
Summary:		
Constructed JG Height:	17.80	ft

Depth	Notes
0 ft	Excavator ISS Cell
10 ft	
	17.30' Sand/Soil (2:10pm)
20 ft	
30 ft	30.60' TOR
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: Andrew Buttitta

MORETRENCH

DATE: 4/6/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	69 & Sunny
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SO-54
GS (EL)	189.88
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	174.08	EL
Depth of Nozzle:	164.08	EL
Depth to Bottom:	162.58	EL
Time Start:	8:09	
Time Finish:	8:35	
Drilling Duration:	0:26	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	164.06	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.88	EL
12 in/min Pull Rate to:	175.56	EL
Depth to Top of JGC:	175.74	EL
Time Start:	8:35	
Time Finish:	8:54	
Grouting Duration:	0:19	h:mm

Summary:

Constructed JG Height:	11.68	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Pump off @ 8:39Am to reset scale

8:41AM - Pump off to reset scale.

Technican Signature: John Stanbury

MORETRENCH

DATE: 4/6/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SO-55
GS (EL)	189.8
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	174.00	EL
Depth of Nozzle:	161.50	EL
Depth to Bottom:	160.00	EL
Time Start:	9:06	
Time Finish:	9:34	
Drilling Duration:	0:28	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	161.45	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.80	EL
12 in/min Pull Rate to:	177.50	EL
Depth to Top of JGC:	177.60	EL
Time Start:	9:34	
Time Finish:	9:52	
Grouting Duration:	0:18	h:mm

Summary:

Constructed JG Height:	16.15	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: John Stanbury

MORETRENCH

DATE: 4/6/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-56
GS (EL)	189.28
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	177.28	EL
Depth of Nozzle:	161.33	EL
Depth to Bottom:	159.83	EL
Time Start:	11:07	
Time Finish:	11:18	
Drilling Duration:	0:11	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	161.33	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.28	EL
12 in/min Pull Rate to:	178.78	EL
Depth to Top of JGC:	179.24	EL
Time Start:	11:18	
Time Finish:	11:38	
Grouting Duration:	0:20	h:mm

Summary:

Constructed JG Height:	17.91	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

Technican Signature: John Stanbury

MORETRENCH

DATE: 4/6/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.47		

Element ID No.	SO-57
GS (EL)	189.14
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	176.64	EL
Depth of Nozzle:	162.24	EL
Depth to Bottom:	160.74	EL
Time Start:	11:52	
Time Finish:	13:26	
Drilling Duration:	1:34	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	162.24	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	164.14	EL
12 in/min Pull Rate to:	180.80	EL
Depth to Top of JGC:	180.94	EL
Time Start:	13:26	
Time Finish:	13:47	
Grouting Duration:	0:21	h:mm

Summary:

Constructed JG Height:	18.70	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

12:04pm - Broke off drill steel
Hole had to be relocated 1' to the north
Jet up to 9.5 - 8.34 as per Parsons

Technican Signature: John Stanbury

MORETRENCH

DATE: 4/6/10
SHEET: 1 OF 1
SHIFT: 1st 2nd 3rd

Drilling and Grout Log

Job No.: 83-4545	Project Name: White Plains Former MGP		
Location: 12 Water Street, White Plains NY 10601		Weather:	Cloudy
Client: WRS Compass		Engineer:	Parsons

Working Parameters **Element Type: Col** **Nozzle Dia:** 6mm

Grout Mix:			
Water	380	lit	
Cement	95	kg	
Slag	285	kg	
Specific Gravity	1.46		

Element ID No.	SO-58
GS (EL)	188.88
Rotation Speed (rpm)	12
Grout Pressure (Bar)	400
Grout Flow (gal/min)	98
Air Pressure (Bar)	7

Drilling Parameters:

Depth to Top of ISS:	NA	EL
Depth to Bottom of ISS:	NA	EL
Depth of Nozzle:	161.18	EL
Depth to Bottom:	159.68	EL
Time Start:	14:08	
Time Finish:	14:25	
Drilling Duration:	0:17	h:mm

Grouting Parameters:

Depth to Bottom of JGC:	161.12	EL
6 in/min Pull Rate to:	NA	EL
8 in/min Pull Rate to:	163.88	EL
12 in/min Pull Rate to:	185.96	EL
Depth to Top of JGC:	185.96	EL
Time Start:	14:25	
Time Finish:	15:00	
Grouting Duration:	0:35	h:mm

Summary:

Constructed JG Height:	24.84	ft
Number of Overlaps:	0	

Depth	Notes
0 ft	
10 ft	
20 ft	
30 ft	
40 ft	
50 ft	
60 ft	

Notes:

2:54pm - Pump off to clean screen

Technican Signature: John Stanbury