APPENDIX A

Soil Boring Logs

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-3B

PROJECT: Old Erie Canal Supplemental FS					SHEET 1 OF 3	
CLIENT: General Electric Company / Parker Hannifin Corporation					JOB NO. 39892.001.102	
DRILLING CONTRACTOR: Parratt Wolff Inc.					MEAS. PT. ELEV. 393.91 NGVD 29	
PURPOSE: Bedrock Well Installation					GROUND ELEV. 394.15	
DRILLING METHOD: Hollow Stem Auger		SAMPLE	CORE	CASING	DATUM	Ground Surface
DRILL RIG TYPE: CME 75	TYPE	Split Spoon	NA	Steel	DATE STARTED	11/10/06
GROUND WATER DEPTH:	DIA.	1.5"	NA	4"	DATE FINISHED	11/16/06
MEASURING POINT: TOC	WEIGHT	140 lbs.			DRILLER	JOE PERCY
DATE OF MEASUREMENT:	FALL	30"			INSPECTOR	P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1					SEE BORING LOG FOR MW-3S 0-2' bg	
2						
3						
4						
5						
6						
7						
8						
9						
10						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-3B

PROJECT: Old Erie Canal Supplemental FS | SHEET 2 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation | JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/ Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11						
12					12.0	
13	S1	20 35 50 —	1.5/1.5	CL	Rd Br SCy a s cmf G Reddish-brown silty CLAY and some coarse medium fine Gravel NO RECOVERY	PID 0.0 DRY COMPACT NO ODOR
14					14.0	
15	S2	20 50 —	1/1	CL	Rd Br SCy a s cmf G 15.0 NO RECOVERY	PID 0.0 DRY COMPACT NO ODOR
16		—			16.0	
17	S3	36 50 —	1/20	CL	Rd Br SCy a s cmf G	PID 0.0 DRY COMPACT NO ODOR
18		—			18.0	
19	S4	36 50 —	1/1	CL	Rd Br SCy a s cmf G 19.0 NO RECOVERY	PID 0.0 DRY COMP. NO ODOR
20		—			20.0	
21		30 60 80 75	2/2	CL	Rd Br SCy a s cmf G	PID 0.0 DRY COMP. NO ODOR
22					22.0	

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-3B

PROJECT: Old Erie Canal Supplemental FS

SHEET 3 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/ Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
23		75 45 50 —	0.5/0.75	CL	Rd Br Sdy a s cmf G	PID 0.0 DRY compACT No odor
24					— — — — — — — 24.0	
		50 125	1/1	CL	Rd Br Sdy sa s cnf G Reddish-brown silty CLAY and some coarse medium fine Gravel 25.0	PID 0.0 DRY COMPACT No odor BEDROCK @ 25' bg EOB 25.0' bg
25		—				
26		—				
27						
28						
29						
30						
31						
32						
33						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-4C

PROJECT: Old Erie Canal Supplemental FS					SHEET 1 OF 1
CLIENT: General Electric Company / Parker Hannifin Corporation					JOB NO. 39892.001.102
DRILLING CONTRACTOR: Parratt Wolff Inc.					MEAS. PT. ELEV. 392.81 NAVD 29
PURPOSE: Bedrock Well Installation					GROUND ELEV. 393.27
DRILLING METHOD: Hollow Stem Auger		SAMPLE	CORE	CASING	DATUM Ground Surface
DRILL RIG TYPE: CME 75	TYPE	Split Spoon	NA	Steel	DATE STARTED 11/8/06
GROUND WATER DEPTH:	DIA.	1.5"	NA	4"	DATE FINISHED ~~11/9/06~~ 11/17/06
MEASURING POINT: TOC	WEIGHT	140 lbs.			DRILLER Joe Percy
DATE OF MEASUREMENT:	FALL	30"			INSPECTOR P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
					SEE BORING LOG MW-4B	
					0 - 40' bg	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-5B

PROJECT: Old Erie Canal Supplemental FS					SHEET 1 OF 3	
CLIENT: General Electric Company / Parker Hannifin Corporation					JOB NO. 39892.001.102	
DRILLING CONTRACTOR: Parratt Wolff Inc.					MEAS. PT. ELEV. 392.85 NAVD 29	
PURPOSE: Bedrock Well Installation					GROUND ELEV. 393.19	
DRILLING METHOD: Hollow Stem Auger		SAMPLE	CORE	CASING	DATUM	Ground Surface
DRILL RIG TYPE: CME 75	TYPE	Split Spoon	NA	Steel	DATE STARTED	11/9/06
GROUND WATER DEPTH:	DIA.	1.5"	NA	4"	DATE FINISHED	11/17/06
MEASURING POINT: TOC	WEIGHT	140 lbs.			DRILLER	JOE PERCY
DATE OF MEASUREMENT:	FALL	30"			INSPECTOR	P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
					SEE BORING LOG FOR MW-5S 0-12' bg	
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-5B

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/ Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11					SEE BORING LOG MW-5S	
12					12.0	
13	S1	12 29 29 38	1/2	CL	RdBr $Cy a s cmfG Reddish-brown silty CLAY and some coarse medium fine Gravel	PID 0.0 SATURATED COMPACT NO ODOR
14					14.0	
15	S2	33 35 35 39	1.5/2	CL	Rd Br $Cy a s cm G	PID 7.0 SAT. COMPACT NO ODOR
16					16.0	
17	S3	50	0.5/0.5	CL	RdBr $Cy a s cm G NO RECOVERY	PID 0.0 SAT. COMPACT NO ODOR
18					18.0	
19	S4	25 50	0.5/1	CL	RdBr $Cy a s cm G NO RECOVERY	PID 5.7 ppm SAT. COMPACT NO ODOR SOME BEDROCK FRAG
20					20.0	
21	S5	8 18 34 40	2/2	CL	RdBr $Cy a l mf G	PID 0.0 SAT. COMPACT NO ODOR
22					22.0	

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-5B

PROJECT: Old Erie Canal Supplemental FS

SHEET 3 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
23	S6	30 28 30 35	1/2	CL	RdBr & Cy a l mf G	PID 0.0 SAT. COMPACT NO ODOR
24					24.0	
25	S7	30 34 35 50	1.5/2	CL	RdBr & Cy a l mf G Reddish-brown silty CLAY and little medium fine Gravel	PID 0.0 SAT. COMPACT NO ODOR
26					26.0	BEDROCK @ 25.9' EOB 26' bg
27						
28						
29						
30						
31						
32						
33						
34						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-6B

PROJECT: Old Erie Canal Supplemental FS	SHEET 1 OF 3
CLIENT: General Electric Company / Parker Hannifin Corporation	JOB NO. 39892.001.102
DRILLING CONTRACTOR: Parratt Wolff Inc.	MEAS. PT. ELEV. 396.99 NAVD 29
PURPOSE: Bedrock Well Installation	GROUND ELEV. 395.09
DRILLING METHOD: Hollow Stem Auger	DATUM Ground Surface
DRILL RIG TYPE: CME 75	DATE STARTED 11/13/06
GROUND WATER DEPTH:	DATE FINISHED 11/15/06
MEASURING POINT: TOC	DRILLER JOE PERCY
DATE OF MEASUREMENT:	INSPECTOR P. D'Annibale

	SAMPLE	CORE	CASING
TYPE	Split Spoon	NA	Steel
DIA.	1.5"	NA	4"
WEIGHT	140 lbs.		
FALL	30"		

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration	Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	S1	3 10 10 6	2/2		SP	Br mfS a $, 0, rts Brown medium fine SAND and Silt, organic roots	PID 1.7 ppm DRY SOFT NO ODOR
2						2.0	
3	S2	8 5 7 7	0.5/2		SP	Br mf S a $, 0	PID 0.8 ppm DRY SOFT NO ODOR
4						4.0	
5		0 0 0 1					NO RECOVERY
6						6.0	
7	S3	4 7 13 13	1/2		SP	Br-GyBr mf S a $, lCy, t cmf G Brown to grayish-brown medium fine SAND and Silt, little clay; trace coarse medium fine gravel	PID 0.0 ppm MOIST - SATURATED SOFT NO ODOR
8						8.0	
9		2 1 2 2					NO RECOV.
10							

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-6B

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11	S4	2 2 3 3	0.25/2	CL	GyBr $Cy, t cG Grayish-brown silty CLAY, trace coarse Gravel 12.0	PID 0.0 ppm MOIST SOFT NO ODOR
12						
13	S5	4 3 4 4	0.25/2	CL	GyBr $Cy, tcG 14.0	PID 7.4 SATURATED SOFT NO ODOR
14						
15	S6	0 – – –	1.5/2	CL	Gy $Cy, t cG 16.0	PID 333 ppm SATURATED SOFT SLIGHT ODOR (SAMPLE)
16						
17	S7	25 45 50 –	1.5/1.5	CL	GyBr $Cy, t cG 17.0 RdBr $Cy a cmf G Reddish-brown silty CLAY and coarse medium fine Gravel 18.0	PID 724 (SAMPLE) SAT SOFT SLIGHT ODOR PID 234 SAT. COMPACT NO ODOR TILL
18						
19	S8	50 50 – –	1/1	CL	RdBr $Cy a cmf G 20.0	PID 8.2 SAT. COMPACT NO ODOR
20						
21	S9	40 50 – –	0.5/1	CL	RdBr $Cy a cmf G 22.0	PID 14.2 SATURATED COMPACT NO ODOR
22						

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	BORING NO. MW-6B
PROJECT: Old Erie Canal Supplemental FS		SHEET 3 OF 3
CLIENT: General Electric Company / Parker Hannifin Corporation		JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/ Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
23	S10	50 / 65 / 100 / ~~100~~ WD	1.5 / 1.5	CL	RdBr & Cy - cmfG	PID 4.0 ppm SATURATED COMPACT NO ODOR
24					24.0	
25	S11	45 / 62 / 85 / 100	1.5 / 2	CL	RdBr & Cy - cmfG Reddish-brown silty CLAY and coarse medium fine Gravel	PID 5.1 ppm SAT. COMPACT NO ODOR
26					26.0	BEDROCK @ 25.9' bg EOB 26' bg
27						
28						
29						
30						
31						
32						
33						
34						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-13S

PROJECT: Old Erie Canal Supplemental FS	SHEET 1 OF 2
CLIENT: General Electric Company / Parker Hannifin Corporation	JOB NO. 39892.001.102
DRILLING CONTRACTOR: Parratt Wolff Inc.	MEAS. PT. ELEV. 391.53 NGVD 29
PURPOSE: Overburden Well Installation	GROUND ELEV. 389.67
DRILLING METHOD: Hollow Stem Auger	DATUM Ground Surface
DRILL RIG TYPE: ~~CME~~ D50	DATE STARTED 11/2/06
GROUND WATER DEPTH: 3.05	DATE FINISHED 11/2/06
MEASURING POINT: TOC	DRILLER MARK EAVES
DATE OF MEASUREMENT: 11/8/06	INSPECTOR P. D'Annibale

	SAMPLE	CORE	CASING
TYPE	Split Spoon	NA	NA
DIA.	1.5"	NA	NA
WEIGHT	140 lbs.		
FALL	30"		

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	S-1	2 4 8 8	1.0/2.0	CL	Br $Cy o s rts Brown silty CLAY, organic some roots 2.0	PID: 0.0 ppm Moist SEMI-COMPACT
2						
3	S-2	4 6 11	1.75/2	CL	Br $Cy o s roots 3.5	PID: 0.0 ppm moist SEMI-COMPACT
4		8		CL	Gy-RdBr Cy Gray to Reddish-Brown CLAY 4.0	PID: 0.0 ppm moist COMPACT
5		3 4 6 6	0/2		NO RECOVERY 6.0	
6						
7		3	0/2		NO RECOVERY 8.0	SATURATED
8	S-3	19 14	1.75/2	CL	Gy-RdBr Cy 9.0	PID: 0.0 ppm SATURATED> COMPACT
9		18 20		GP	Gy cm $G s Cy Gray coarse, medium silty GRAVEL, some Clay	
10						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-13S

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 2

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11	S-4	19 20 24 17	19/20	GP	Gy cm G l $Cy 12.0	PID = 0.0 ppm SATURATED LOOSE
12 13	S-5	16 16 12 11	1.5/20	GP	Gy cmf G l $Cy 14.0	PID = 0.0 ppm SATURATED LOOSE
14 15	S-6	47 24 20 19	0.5/2	GP	Gy cmf G l $Cy 16.0	PID = 0.0 ppm SATURATED LOOSE
16 17	S-7	6 9 9 8	0.5/20	GP CL	Gy cmf G l $Cy 17.5 RdBr $Cy Reddish-brown silty CLAY 18.0	PID = 0.0 ppm SATURATED LOOSE TOP OF TILL @ 17.5' bg
18 19 20	S-8				No RECOVERY 20.0	BEDROCK @ 19.8' bg EOB 20' bg
21 22						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-14S

PROJECT: Old Erie Canal Supplemental FS	SHEET 1 OF 3
CLIENT: General Electric Company / Parker Hannifin Corporation	JOB NO. 39892.001.102
DRILLING CONTRACTOR: Parratt Wolff Inc.	MEAS. PT. ELEV. 391.39 NGVD 29
PURPOSE: Overburden Well Installation	GROUND ELEV. 389.27
DRILLING METHOD: Hollow Stem Auger	DATUM Ground Surface
DRILL RIG TYPE: TRACK	DATE STARTED 11/6/06
GROUND WATER DEPTH: 5.51	DATE FINISHED 11/6/06
MEASURING POINT: TOC	DRILLER SOE PERCY
DATE OF MEASUREMENT: 11/8/06	INSPECTOR P. D'Annibale

	SAMPLE	CORE	CASING
TYPE	Split Spoon	NA	NA
DIA.	1.5"	NA	NA
WEIGHT	140 lbs.		
FALL	30"		

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	S1	1 4 3 3	2/2	SC CL	Br-Tn Cy$, o, s rts Brown to tan clayey SILT, organic, some roots 2.0	PID 0.0 ppm MOIST COMPACT NO ODOR
3	S2	5 3 2 2	0.5/2	SC CL	Br-Tn Cy$, o, s rts 4.0	PID 0.0 ppm MOIST COMPACT NO ODOR
5	S3	12 7 3 3	0.5/2	CL	Gy Cy Gray CLAY 6.0	PID 0.0 ppm MOIST COMPACT NO ODOR
7	S4	4 7 3 7	2/2	CL CL	Gy Cy 7.5 Gy Cy $ Gray clayey SILT 8.0	PID 0.0 ppm MOIST COMPACT NO ODOR PID 0.0 ppm SAT. COMPACT NO ODOR
9	S5	5 6 8 8	0.5/2	CL	Gy Cy $ 10.0	PID 3.1 ppm MOIST - SAT. COMPACT NO ODOR

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-145

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/ Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11	S6	3 6 12 33	1/2	GP	Gy cmf G a S, s Gy S Gray coarse, medium, fine GRAVEL and Silt, some clayey silt	PID: 103 ppm SATURATED LOOSE ODOR COLLECT SAMPLE
12					12.0	
13	S7	11 12 16 20	2/2	GP	Gy cmf G a S	PID 374 ppm SAT. LOOSE ODOR COLLECT SAMPLE
14					14.0	
15	S8	2 5 5 9	0.5/2	GP	Gy cmf G a S	PID 28.7ppm SATURATED LOOSE SLIGHT ODOR
16					18.0	
17	S9	20 17 20 30	2.0/2.	GP	Gy cmf G a S	PID 12.8ppm SATURATED LOOSE No ODOR
18					18.0	
19	S10	21 15 12 6	2/2	GP	Gy cmf G a S	PID 203 ppm SAT. LOOSE ODOR SAMPLE COLLECTED
20					20.0	
21	S11	10 13 20 6	1.75/2	GP	Gy cmf G a S	PID 117 ppm SAT. LOOSE ODOR SAMPLE COLLECTED
22					22.0	

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-145

PROJECT: Old Erie Canal Supplemental FS

SHEET 3 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
	S12	50	0.5/2	CL	Gy-RdGy Cy $ s mf G Gray to Reddish-gray clayey SILT, some medium fine Gravel Glacial Till	COMPACT 0.0 P.I.D NO ODOR EOB 22.5'bg
23						
24						
25						
26						
27						
28						
29						
30						
31						
32						
33						
34						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-15S

PROJECT: Old Erie Canal Supplemental FS						SHEET 1 OF 2
CLIENT: General Electric Company / Parker Hannifin Corporation						JOB NO. 39892.001.102
DRILLING CONTRACTOR: Parratt Wolff Inc.						MEAS. PT. ELEV. 390.12 NAVD 29
PURPOSE: Overburden Well Installation						GROUND ELEV. 388.40
DRILLING METHOD: Hollow Stem Auger		SAMPLE	CORE	CASING		DATUM Ground Surface
DRILL RIG TYPE: TRACK	TYPE	Split Spoon	NA	NA		DATE STARTED 11/7/06
GROUND WATER DEPTH: 2.19	DIA.	1.5"	NA	NA		DATE FINISHED 11/7/06
MEASURING POINT: TOC	WEIGHT	140 lbs.				DRILLER JOE PERCY
DATE OF MEASUREMENT: 11/8/06	FALL	30"				INSPECTOR P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	S1	0 0 0	1/20	CL	DkBr-Gy Cy$, O, s rts Dark Brown to gray clayey SILT, organic, some roots	PID 0.0 VERY MOIST SOFT NO ODOR
2	—	1	—	—	2.0	~~NO RECOVERY~~
3	S2	0 0 7 3	2/2	CL	DkBr-Gy Cy$, O 4.0	PID 0.0 SATURATED SOFT NO ODOR
5	S3	3 1 2 3	0.5/2	GP	DkGy cmf G a $ Dark gray coarse medium fine GRAVEL and silt 6.0	PID 0.0 SAT. LOOSE NO ODOR
7	S4	3 5 5 6	1/2	GP CL	DkGy cmf G a $ RdBr $Cy? 8.0	PID 0.0 ppm SAT. loose NO ODOR
9	S5	14 20 20 15	1/2	GP	DkGy - RdGy cmf G a s$	PID 1.7 ppm SAT. LOOSE (PID) COMPACT NO ODOR
10						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-15S

PROJECT: Old Erie Canal Supplemental FS | SHEET 2 OF 2

CLIENT: General Electric Company / Parker Hannifin Corporation | JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/ Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11	S6	22 18 28 28	1.75/2	GP	Dk Gy - Md Gy cmf G a s $	PID 7.0 SAT. COMPACT NO ODOR
12					12.0	
12	S7	16 23	1.5/20	GP	Dk Gy cmf G a s $	PID 0.0 SAT COMPACT No ODOR
13		33 41		CL	13.0 Gy Rd $ Cy a l G Grayish-red silty CLAY and little Gravel	PID 2.6 SAT. COMPACT NO ODOR
14					14.0	EOB ~~15~~ 14.0' bg
15						
16						
17						
18						
19						
20						
21						
22						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-165

PROJECT: Old Erie Canal Supplemental FS	SHEET 1 OF 1
CLIENT: General Electric Company / Parker Hannifin Corporation	JOB NO. 39892.001.102
DRILLING CONTRACTOR: Parratt Wolff Inc.	MEAS. PT. ELEV. 397.30 NGVD 29
PURPOSE: Overburden Well Installation	GROUND ELEV. 398.01
DRILLING METHOD: Hollow Stem Auger	DATUM Ground Surface
DRILL RIG TYPE: ~~CME~~ D50	DATE STARTED 11/2/06
GROUND WATER DEPTH: 2.97	DATE FINISHED 11/2/06
MEASURING POINT: TOC	DRILLER MARK EAVES
DATE OF MEASUREMENT: 11/3/06	INSPECTOR P. D'Annibale

	SAMPLE	CORE	CASING
TYPE	Split Spoon	NA	NA
DIA.	1.5"	NA	NA
WEIGHT	140 lbs.		
FALL	30"		

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
					ASPHALT	
1	S-1	3 4 50	0.5/2	CL	RdBr SCy	0.0 PID DRY COMPACT
2					CONCRETE & REBAR	
3			NA	NA		
4		10			RdBr SCy s cm G	12.5 PID MOIST TO SATURATED COMPACT WATER TABLE AT ~4' bg
5	S-2	10 22	1/2	CL		
6		25 30			RdBr SCy s cm G	0.0 PID SATURATED COMPACT
7		36 36	1/2	CL		
8		38 12			RdBr SCy s cm G	0.4 PID SATURATED COMPACT
9		12 33	1.5/2	CL		
10		40			(GLACIAL TILL)	EOB 10' bg

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-16B

PROJECT: Old Erie Canal Supplemental FS	SHEET 1 OF 3
CLIENT: General Electric Company / Parker Hannifin Corporation	JOB NO. 39892.001.102
DRILLING CONTRACTOR: Parratt Wolff Inc.	MEAS. PT. ELEV. 397.69 NGVD 29
PURPOSE: Bedrock Well Installation	GROUND ELEV. 398.18
DRILLING METHOD: Hollow Stem Auger	DATUM Ground Surface
DRILL RIG TYPE: CME 75	DATE STARTED 11/14/06
GROUND WATER DEPTH:	DATE FINISHED 11/15/06
MEASURING POINT: TOC	DRILLER JOE PERCY
DATE OF MEASUREMENT:	INSPECTOR P. D'Annibale

	SAMPLE	CORE	CASING
TYPE	Split Spoon	NA	Steel
DIA.	1.5"	NA	4"
WEIGHT	140 lbs.		
FALL	30"		

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration	Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1						ASPHALT	
						SEE BORING LOG MW-16S 0-9' bg	
2							
3							
4							
5							
						6.0	
6				1/2	CL	Rd Br $Cy a cmf G	
						Reddish-brown silty CLAY and coarse medium fine Gravel 7.0	
7		27		1/2	CL	Rd Br $Cy a cmf G	COMPACT DRY
8	S1	60		1/2			NO ODOR
						9.0	
9		21		1/2	CL	Rd Br $Cy a cmf G	PID 4.5 ppm COMPACT DRY NO ODOR
	S2	72					
10							

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. MW-16B

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 3

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/ Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
		-				
		-				
11					11.0	
		37	1/12	CL	Rdbr $Cy a cmf G	PID 0.0
	S3	50				DRY COMPACT
12		-				NO ODOR
		-				
13					13.0	
		50	0.5/2.0	CL	RdBr $Cy a cmf G	P.D 0.9
	S4	-				DRY COMPACT
14		-				NO ODOR
		-				
15					16.0	
		7			Rd Br $Cy a cmf G	PID 0.0
		40	1/1.5	CL		DRY COMPACT
16	S5	50				NO ODER
		-				
17					17.5	
		47	0.75/1.5		RdBr $Cy a cmf G	PID 0.0
	S6	90		CL		DRY COMPACT
18		50				NO ODOR
		-				
19					19.0	
		31			Rdbr $Cy a cmf G	PID 0.0
		50	2/2	CL		DRY. SLIGHTLY MOIST
20	S7	61				COMPACT
		50				NO ODOR
21					21.0	
		20	1.5/1.5	CL	RLBr $Cy a cmf G	PID 0.0
	S8	56				MOIST
22						COMPACT NO ODOR

O'BRIEN & GERE ENGINEERS, INC.	TEST BORING LOG	BORING NO. MW-16B
PROJECT: Old Erie Canal Supplemental FS		SHEET 3 OF 3
CLIENT: General Electric Company / Parker Hannifin Corporation		JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
		75				
		—			23.0	
23		45			Rd Br & Cy a cmf G	P.D 1.2
24	S9	50	1/1.5	CL		MOIST
		95				COMPACT
		—			25.0	NO ODOR
25		60			Rd Br & Cy a cmf G	P.D 0.0
26	S10	60	2/2	CL		MOIST
		65				COMPACT
		65			27.0	NO ODOR
27		27	2/		Rd Br & Cy a cmf G	P.D 0.0
28	S11	40		CL		MOIST
		42	2			COMPACT
		45			29.0	NO ODOR
29		50	0.5	CL	Rd Br & Cy a cmf G	P.D 0.0
30	S12	80	/1			MOIST
		—				COMPACT
		—			31.0	NO ODOR
31		110	0.25/0.5	CL	Rd Br & Cy a cmf G	P.D 0.0
32	S13	—			Reddish-brown silty CLAY and coarse medium fine Gravel	MOIST
		—				COMPACT
		—			33.0	NO ODOR
33						BEDROCK @ 31' bg
						EOB 31' bg
34						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. TMW-1

PROJECT: Old Erie Canal Supplemental FS					SHEET 1 OF 2
CLIENT: General Electric Company / Parker Hannifin Corporation					JOB NO. 39892.001.102
DRILLING CONTRACTOR: Parratt Wolff Inc.					MEAS. PT. ELEV. 399.11 NGVD 29
PURPOSE: Overburden Well Installation					GROUND ELEV. 398.09
DRILLING METHOD: Hollow Stem Auger		SAMPLE	CORE	CASING	DATUM Ground Surface
DRILL RIG TYPE: D50	TYPE	Split Spoon	NA	NA	DATE STARTED 11/3/06
GROUND WATER DEPTH: 3.93	DIA.	1.5"	NA	NA	DATE FINISHED 11/3/06
MEASURING POINT: TOC	WEIGHT	140 lbs.			DRILLER MARK EAVES
DATE OF MEASUREMENT: 11/8/06	FALL	30"			INSPECTOR P. D'Annibale

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
		2		SP	Br - Tn mfS, some Brown to tan medium fine SAND	DRY COMPACT
1	S1	2	1.0/2	SP	Bl-Gy cmf G, s S Black to gray coarse medium fine GRAVEL, some Silt	0.0 PID DRY COMPACT
		4				
2		4			2.0	
		1			Bl-Gy cmf G, s S	0.0 PID SATURATED LOOSE
3	S2	2	0.5/2	SP		
		1				
4		3			4.0	
		2		SP	Bl-Gy cmf G, s S	0.0 PID SATURATED LOOSE
5	S3	4	1.0/2.5		5.0	
		6		CL	Gy-Tn Cy Gray to tan CLAY	SATURATED COMPACT
6		6			6.0	
		6		SP	Bl-Gy cmf G, s S Black to gray coarse medium fine GRAVEL, some Silt	0.0 PID
7	S4	8	1.0/2.0		7.0	LOOSE SATURATED
		6		CL	Gy-Tn Cy Gray to tan CLAY	
8		10			8.0	
		10		SP	Bl-Gy cmf G, s S	0.0 PID
9	S5	14	2/2		9.0	LOOSE SATURATED
		19		CL	Gy-Tn Cy	
10		21			10.0	

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. TMW-1

PROJECT: Old Erie Canal Supplemental FS

SHEET 2 OF 2

CLIENT: General Electric Company / Parker Hannifin Corporation

JOB NO. 39892.001.102

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
		27		GP	Bl-Gy cmf G 10.5	0.0 PID
11	S6	39	2/12	CL	Ciy-Tn Cy 11.0	SAT.
		50		CiP	Bl-Gy cmf G 11.5	LOOSE
12				CL	Gy-Tn Cy 12.0	
		38		CL	Gy-Tn Cy	0.0 PID
13	S7	50	1/2		13.0	SATURATED LOOSE
				CL	Rd Gy & Cy Reddish-gray silty CLAY	0.0 PID
					14.0	DRY - COMPACT
14						EOB 14' bg
15						
16						
17						
18						
19						
20						
21						
22						

O'BRIEN & GERE ENGINEERS, INC.

TEST BORING LOG

BORING NO. TMW-2

PROJECT: Old Erie Canal Supplemental FS	SHEET 1 OF 1
CLIENT: General Electric Company / Parker Hannifin Corporation	JOB NO. 39892.001.102
DRILLING CONTRACTOR: Parratt Wolff Inc.	MEAS. PT. ELEV. 399.91 NGVD 29
PURPOSE: Overburden Well Installation	GROUND ELEV. 398.82
DRILLING METHOD: Hollow Stem Auger	DATUM Ground Surface
DRILL RIG TYPE: D50	DATE STARTED 11/3/06
GROUND WATER DEPTH: 4.48	DATE FINISHED 11/3/06
MEASURING POINT: TOC	DRILLER MARK EAVES
DATE OF MEASUREMENT: 11/8/06	INSPECTOR P. D'Annibale

	SAMPLE	CORE	CASING
TYPE	Split Spoon	NA	NA
DIA.	1.5"	NA	NA
WEIGHT	140 lbs.		
FALL	30"		

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration / Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1	S1	2 5 10 6	1.0 / 2.0	GP	Br-Tn mf S, O Brown to tan medium fine SAND, organic 2.0	0.0 PID DRY COMPACT
2		11			No Recovery	GRAVEL IN SPLIT SPOON
3	/		/			
4					4.0	
5	S2	6 10	1.75 / 2.0	GP	Gy cmf G Gray coarse medium fine GRAVEL 5.0	
		11 12		CL	RdBr SCy Reddish-brown silty CLAY 6.0	0.0 PID MOIST COMPACT EOB: 6' bg
6						
7						
8						
9						
10						

O'BRIEN & GERE ENGINEERS, INC. 435 New Karner Road Albany, New York 12205	**CORE LOG**	Hole No.: MW-3B	Job No.: 39892.001.102
		Sheet 1 of 1	Date Started: 11/16/06
Project: Old Erie Canal Supplemental FS	Drilling Contractor: Parratt Wolff Inc.		Date Finished: 11/16/06
Client: General Electric Company / Parker Hannifin	Driller: Joe Percy		Total Depth: 39'
Purpose: Bedrock Well Installation	Geologist: P. D'Annibale		Ground Elev.: 394.15 NGVD 1929
Location: Clyde, New York	Length of Casing: 29.0'		S.W.L.:
Hole Location: S of facility along walk path (near RR)	Casing Size: 6"/4"	Core Size: 3 3/4"	Inclination/Bearing:

Formation Member Unit	Run No. Time: Start/ Stop	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
				Boring advanced through overburden utilizing 4 1/4" HSA. Top of bedrock at 25.0' bgs. Set 4" steel casing to 29.0' bgs. See soil boring log MW-3B for soil description.			
Upper Silurian	1035 1 1128	10.6	29.0' 30.0'	Greenish-gray shale, fine to medium grained, horizontal bedding, occasional horizontal fractures, few vertical fractures	4.9	98	86.7%
	1148 2 1218	6		Gray to dark gray shale, fine to medium grained, horizontal bedding, some horizontal fractures.			
			35.0'	Greenish-gray to gray shale, fine to medium grained, horizontal bedding. Frequent horizontal fractures and occasional gypsum partings and stringers	5.0	100	97%
			40.0'	End of core @ 39.0' bgs.			

O'BRIEN & GERE ENGINEERS, INC. 435 New Karner Road Albany, New York 12205	**CORE LOG**	Hole No.: MW-4C	Job No.: 39892.001.102
		Sheet 1 of 1	Date Started: 11/17/06
Project: Old Erie Canal Supplemental FS	Drilling Contractor: Parratt Wolff Inc.		Date Finished: 11/17/06
Client: General Electric Company / Parker Hannifin	Driller: Joe Percy		Total Depth: 50'
Purpose: Bedrock Well Installation	Geologist: P. D'Annibale		Ground Elev.: 393.27 NGVD 1929
Location: Clyde, New York	Length of Casing: 40'		S.W.L.:
Hole Location: S of facility along walkpath	Casing Size: ~~6"~~ 4"	Core Size: 3 3/4"	Inclination/Bearing:

Formation Member Unit	Run No. Time: Start/ Stop	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
				Boring advanced through overburden utilizing 4 1/4" HSA. Top of bedrock at 26.0' bgs. Set 4" steel casing to 40.0' bgs. See soil boring log MW-4C for soil description.			
	1022		40.0'				
	1	2.2		Greenish-gray shale, fine grained, horizontal bedding, frequent horizontal fractures, some gypsum partings and stringers	2.4	48	17%
	1033		45.0'				
	1050			Gray shale, fine-grained, horizontal bedding. Frequent horizontal fractures			
Upper Silurian	2	8		Greenish gray shale, fine grained, horizontal bedding, numerous fractures with bedding	4.9	98	21%
	1130		50.0'				
				End of coring at 50.0' bgs			

O'BRIEN & GERE ENGINEERS, INC. 435 New Karner Road Albany, New York 12205	**CORE LOG**	Hole No.: MW-5B	Job No.: 39892.001.102
		Sheet 1 of 1	Date Started: 11/16/06
Project: Old Erie Canal Supplemental FS	Drilling Contractor: Parratt Wolff Inc.		Date Finished: 11/17/06
Client: General Electric Company / Parker Hannifin	Driller: Joe Percy		Total Depth: 39.2'
Purpose: Bedrock Well Installation	Geologist: P. D'Annibale		Ground Elev.: 393.19' NGVD 1929
Location: Clyde, New York	Length of Casing: 39.0'		S.W.L.:
Hole Location: S of facility along walk path	Casing Size: 6" 4"	Core Size: 3 3/4"	Inclination/Bearing:

Formation / Member / Unit	Run No. / Time: Start / Stop	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery: Length	Core Recovery: Percent	RQD
				Boring advanced through overburden utilizing 4½" HSA. Top of bedrock at 25.9' bgs. Set 4" Steel casing to 29.0' bgs. See soil boring log MW-5B for soil description.			
			29.0'				
	1348 1 1420	6.4	30.0'	Greenish gray Shale, fine grained, horizontal bedding, highly fractured with bedding, few to some gypsum partings	2	40	0%
	1440 2 1500	4.0	35.0'	Greenish gray shale, fine grained, horizontal bedding, highly fractured with bedding	2	40	0%
Upper Silurian			39.0'	End of coring at 39.2' bgs			

O'BRIEN & GERE ENGINEERS, INC. 435 New Karner Road Albany, New York 12205	**CORE LOG**	Hole No.: MW-68	Job No.: 39892.001.102
		Sheet 1 of 1	Date Started: 11/15/06
Project: Old Erie Canal Supplemental FS	Drilling Contractor: Parratt Wolff Inc.		Date Finished: 11/15/06
Client: General Electric Company / Parker Hannifin	Driller: Joe Percy		Total Depth: 39.4'
Purpose: Bedrock Well Installation	Geologist: P. D'Annibale		Ground Elev.: 395.09 NGVD 1929
Location: Clyde, New York	Length of Casing: 39.4'		S.W.L.:
Hole Location: Near hydrogen tank, SW of facility	Casing Size: 6" 4"	Core Size: 3 3/4"	Inclination/Bearing:

Formation Member Unit	Run No. Time: Start/ Stop	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery Length	Core Recovery Percent	RQD
				Boring advanced through overburden utilizing 4 1/4" HSA. Top of bedrock at 25.9' bgs. Set 4" steel casing to 29.0' bgs. See soil boring log MW-68 for soil description.			
Upper Silurian	1321 1 1418	11.4	29.0' 30.0'	Greenish gray to gray shale, fine grained, horizontal bedding, frequent horizontal fractures, gypsum stringers	5	100	82.1%
	1434 2 1458	4.8	35.0' 39.0'	Greenish gray to gray shale, fine grained, horizontal bedding, occasional horizontal fractures	5	100	29.6%
				End of coring at 39.4' bgs.			

O'BRIEN & GERE ENGINEERS, INC.
435 New Karner Road
Albany, New York 12205

CORE LOG

Hole No.: MW-16B | Sheet 1 of 1 | Job No.: 39892.001.102 | Date Started: 11/15/06

Project: Old Erie Canal Supplemental FS | Drilling Contractor: Parratt Wolff Inc. | Date Finished: 11/15/06

Client: General Electric Company / Parker Hannifin | Driller: Joe Percy | Total Depth: 44.0'

Purpose: Bedrock Well Installation | Geologist: P. D'Annibale | Ground Elev.: 398.18 NGVD 1929

Location: Clyde, New York | Length of Casing: 44.1' | S.W.L.:

Hole Location: ~50' SSW of facility | Casing Size: 6" 4" | Core Size: 3 3/4" | Inclination/Bearing:

Formation / Member / Unit	Run No. / Time: Start / Stop	Pen. Rate (min. per foot)	Depth Scale	Lithologic Description (include in order: ROCK TYPE, color, grain size, texture, bedding, fracture & minerals.)	Core Recovery: Length	Core Recovery: Percent	RQD
				Boring advanced through overburden utilizing 4¼" HSA. Top of bedrock at 31.0' bgs. Set 4" steel casing to 34.0' bgs. See soil boring log MW-16B for soil description.			
	0847 1 1035	9.4	34.5' 35.5'	Greenish gray shale, fine grained, horizontal bedding, numerous fractures with bedding. Vertical fractures from 36.5 to 37.0 and from 37.58 to 37.83.	4.75	95	52.9%
	1048 2 1124	7.4	40.5'	Greenish gray shale, fine grained, horizontal bedding, numerous fractures with bedding	4.5	100	42.5%
				Dark gray shale, fine grained, horizontal bedding, numerous horizontal fractures			
				End of coring at 44.0' bgs.			

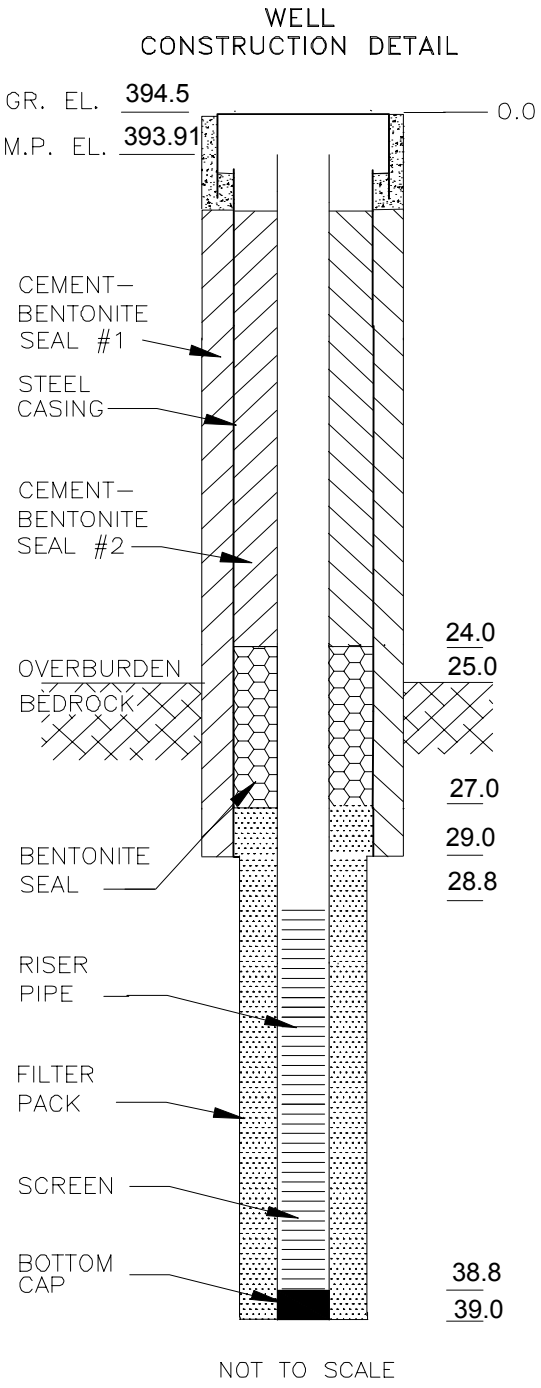
APPENDIX B

Monitoring Well Completion Logs

WELL COMPLETION LOG

Well ID: **MW-3B**

Project:	Old Erie Canal Supplemental FS	**Client:**	Parker-Hannifin
Location:	Clyde, New York	**Date Drilled:**	11/16/2006
Project No.:	39892.001.102	**Date Developed:**	11/17 - 21/06



Form-040

Inspection Notes:

Inspector:	P. D'Annibale
Drilling Contractor:	Parratt-Wolff, Inc.
Type of Well:	Monitoring Well

Static Water Level (ft bmp):	8.19	Date:	11/28/06
Measuring Point:	TOC		
Total Depth of Well (ft bmp):	38.54		

Drilling Method - Overburden:

Type:	HSA	Diameter:	4 1/4" ID
Casing:	4" Steel		

Sampling Method - Overburden:

Type:	Split Spoon	Diameter:	2" OD
Weight:	140 #	Fall:	30"
Interval:	12.0' - 26.0'		

Drilling Method - Bedrock:

Type:	HX diamond bit	Diameter:	3 3/4" OD
Casing:	NA		

Sampling Method - Bedrock:

Type:	HX Core	Diameter:	3 3/4" OD
Interval:	29.0' - 39.0'		

Riser Pipe Left in Place:

Material:	Sch. 40 PVC	Diameter:	2" ID
Length:	28.5'	Joint Type:	Flush Thread

Screen:

Material:	Sch. 40 PVC	Diameter:	2" ID
Slot Size:	0.010	Joint Type:	Flush Thread

Filter Pack:

Type:	Sand	Grade:	# 0 Morie
Interval:	27.0' - 39.0'		

Seal(s):

Type:	Cement-Bentonite Seal #1	Interval:	0.0' - 29.0'
Type:	Bentonite Seal	Interval:	24.0'-27.0'
Type:		Interval:	

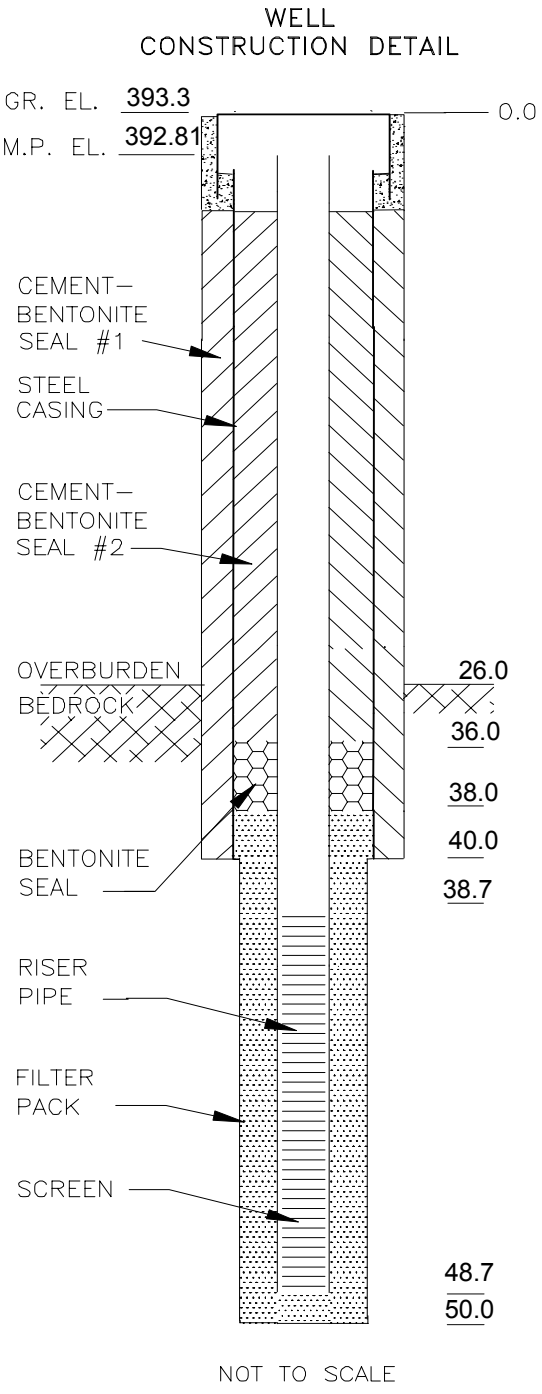
Locking Casing: [X] Yes [ ] No

O'BRIEN & GERE ENGINEERS, INC.

WELL COMPLETION LOG

Well ID: MW-4C

Project:	Old Erie Canal Supplemental FS	**Client:**	Parker-Hannifin
Location:	Clyde, New York	**Date Drilled:**	11/17/2006
Project No.:	39892.001.102	**Date Developed:**	11/20/2006



Form-042

Inspection Notes:

Inspector: P. D'Annibale
Drilling Contractor: Parratt-Wolff, Inc.
Type of Well: Monitoring Well

Static Water Level (ft bmp): -1.06 Date: 11/28/06
Measuring Point: TOC
Total Depth of Well (ft bmp): 48.23

Drilling Method - Overburden:

Type: HSA Diameter: 4 1/4" ID
Casing: 4" Steel

Sampling Method - Overburden:

Type: NA Diameter: NA
Weight: NA Fall: NA
Interval: NA

Drilling Method - Bedrock:

Type: HX diamond bit Diameter: 3 3/4" OD
Casing: NA

Sampling Method - Bedrock:

Type: HX Core Diameter: 3 3/4" OD
Interval: 40.0' - 50.0'

Riser Pipe Left in Place:

Material: Sch. 40 PVC Diameter: 2" ID
Length: 38.2' Joint Type: Flush Thread

Screen:

Material: Sch. 40 PVC Diameter: 2" ID
Slot Size: 0.010 Joint Type: Flush Thread

Filter Pack:

Type: Sand Grade: # 0 Morie
Interval: 38.0 - 50.0'

Seal(s):

Type: Cement-Bentonite Seal #1 Interval: 0.0' - 40.0'
Type: Bentonite Seal Interval: 36.0'-38.0'
Type: Interval:

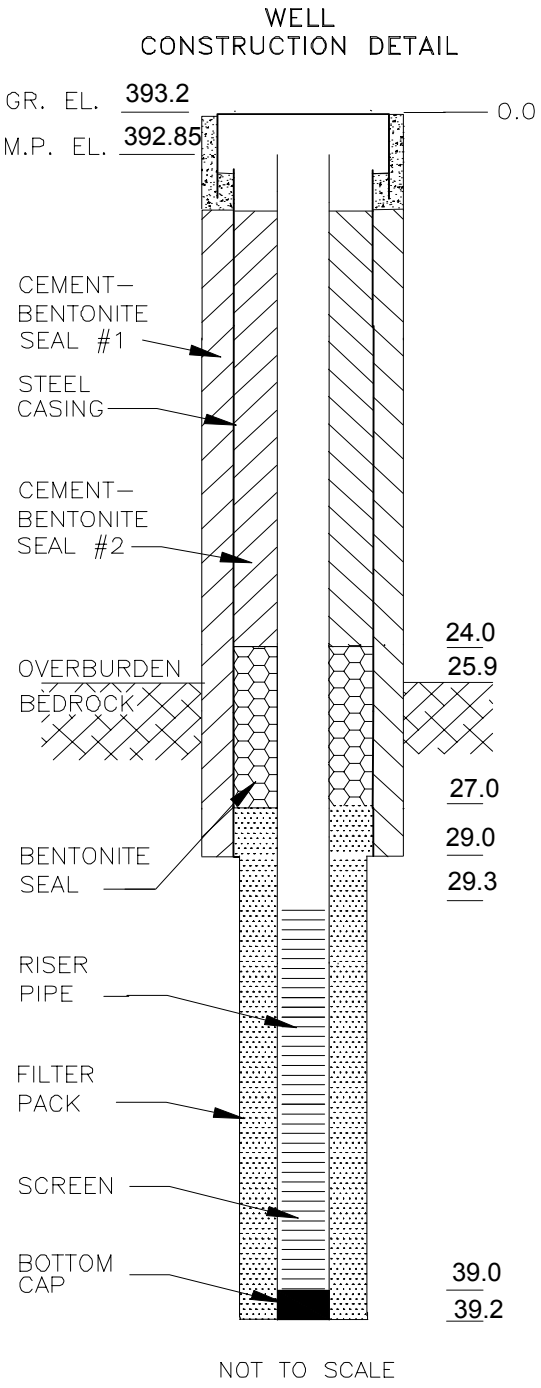
Locking Casing: [X] Yes [ ] No

O'BRIEN & GERE ENGINEERS, INC.

WELL COMPLETION LOG

Well ID: **MW-5B**

Project:	Old Erie Canal Supplemental FS	**Client:**	Parker-Hannifin
Location:	Clyde, New York	**Date Drilled:**	11/16/2006
Project No.:	39892.001.102	**Date Developed:**	11/20 - 21/06



Form-040

Inspection Notes:

Inspector:	P. D'Annibale
Drilling Contractor:	Parratt-Wolff, Inc.
Type of Well:	Monitoring Well
Static Water Level (ft bmp):	NA Date:
Measuring Point:	TOC
Total Depth of Well (ft bmp):	38.91

Drilling Method - Overburden:

Type:	HSA	Diameter:	4 1/4" ID
Casing:	4" Steel		

Sampling Method - Overburden:

Type:	Split Spoon	Diameter:	2" OD
Weight:	140 #	Fall:	30"
Interval:	12.0' - 26.0'		

Drilling Method - Bedrock:

Type:	HX diamond bit	Diameter:	3 3/4" OD
Casing:	NA		

Sampling Method - Bedrock:

Type:	HX Core	Diameter:	3 3/4" OD
Interval:	29.0' - 39.2'		

Riser Pipe Left in Place:

Material:	Sch. 40 PVC	Diameter:	2" ID
Length:	28.9'	Joint Type:	Flush Thread

Screen:

Material:	Sch. 40 PVC	Diameter:	2" ID
Slot Size:	0.010	Joint Type:	Flush Thread

Filter Pack:

Type:	Sand	Grade:	# 0 Morie
Interval:	27.0' - 39.2'		

Seal(s):

Type:	Cement-Bentonite Seal #1	Interval:	0.0' - 29.0'
Type:	Bentonite Seal	Interval:	24.0'-27.0'
Type:		Interval:	

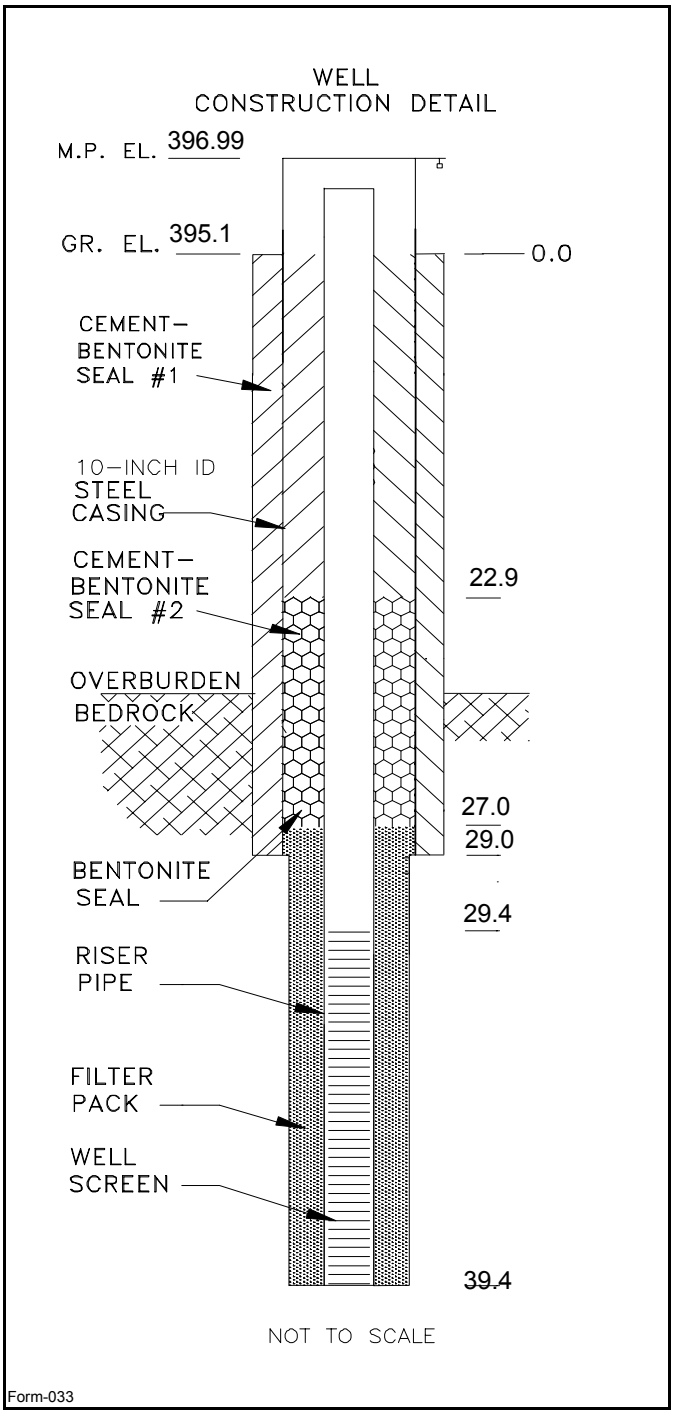
Locking Casing: [X] Yes [ ] No

O'BRIEN & GERE ENGINEERS, INC.

WELL COMPLETION LOG

Well ID: MW-6B

Project:	Old Erie Canal Supplemental FS	**Client:**	Parker-Hannifin
Location:	Clyde, New York	**Date Drilled:**	11/15/2006
Project No.:	39892.001.102	**Date Developed:**	11/16/2006



Form-033

Inspection Notes:

Inspector:	P. D'Annibale
Drilling Contractor:	Parratt- Wolff, Inc.
Type of Well:	Monitoring Well

Static Water Level (ft bmp):	9.00	Date:	11/28/06
Measuring Point:	TOC		
Total Depth of Well (ft bmp):	41.26		

Drilling Method - Overburden:

Type:	HSA	Diameter:	4 1/4" ID
Casing:	4" Steel		

Sampling Method - Overburden:

Type:	Split Spoon	Diameter:	2" OD
Weight:	140 #	Fall:	30"
Interval:	0.0' - 26.0'		

Drilling Method - Bedrock:

Type:	HX diamond bit	Diameter:	3 3/4" OD
Casing:	NA		

Sampling Method - Bedrock:

Type:	HX Core	Diameter:	3 3/4" OD
Interval:	29.0' - 39.4'		

Riser Pipe Left in Place:

Material:	Sch 40 PVC	Diameter:	2" ID
Length:	31.3'	Joint Type:	Flush Thread

Screen:

Material:	Sch 40 PVC	Diameter:	2" ID
Slot Size:	0.010	Joint Type:	Flush Thread

Filter Pack:

Type:	Sand	Grade:	# 0 Morie
Interval:	27.0' - 39.3'		

Seal(s):

Type:	Cement-Bentonite Seal #1	Interval:	0.0'-29.0'
Type:	Bentonite Seal	Interval:	22.9'-27.0'
Type:		Interval:	

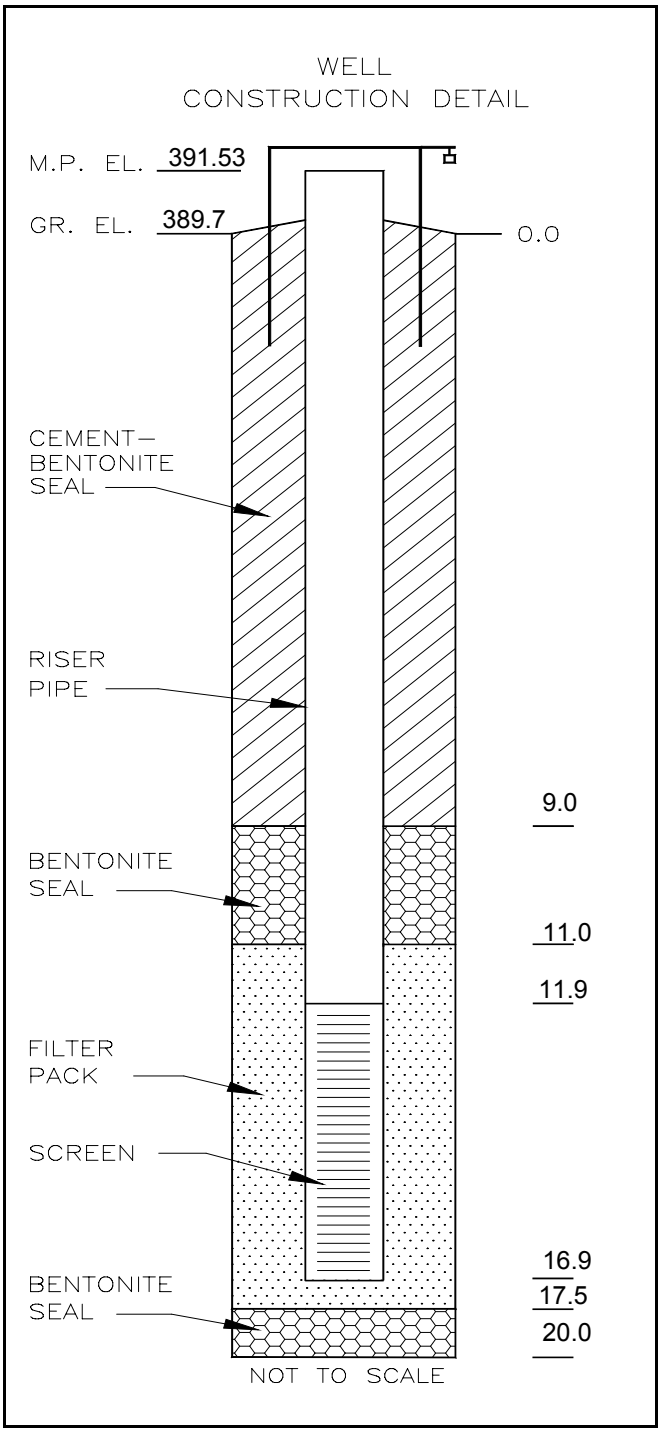
Locking Casing: [X] Yes [ ] No

O'BRIEN & GERE ENGINEERS, INC.

WELL COMPLETION LOG

Well ID: MW-13S

Project:	Old Erie Canal Supplemental GW	**Client:**	Parker-Hannifin
Location:	Clyde, New York	**Date Drilled:**	11/2/2006
Project No.:	39892.001.102	**Date Developed:**	11/14/2006



Inspection Notes:

Inspector: P. D'Annibale
Drilling Contractor: Parratt-Wolff, Inc
Type of Well: Monitoring Well

Static Water Level (ft bmp): 3.05 Date: 11/8/06
Measuring Point: Top of PVC
Total Depth of Well (ft bmp): 18.71

Drilling Method - Overburden:

Type: HSA Diameter: 4 1/4 " ID
Casing: NA

Sampling Method - Overburden:

Type: Split-Spoon Diameter: 2" OD
Weight: 140 # Fall: 30"
Interval: 0.0'-20.0'

Riser Pipe Left in Place:

Material: Sch 40 PVC Diameter: 2" ID
Length: 13.7' Joint Type: Flush Thread

Screen:

Material: Sch 40 PVC Diameter: 2" ID
Slot Size: 0.010 Joint Type: Flush Thread

Filter Pack:

Type: Sand Grade: # 0 Morie
Interval: 11.0'-17.5'

Seal(s):

Type:	Cement-Bentonite	Interval:	0.0'-2.5'
Type:	Bentonite Pellets	Interval:	9.0'-11.0'
Type:	Bentonite Pellets	Interval:	17.5'-20.0'

Locking Casing: [X] Yes [ ] No

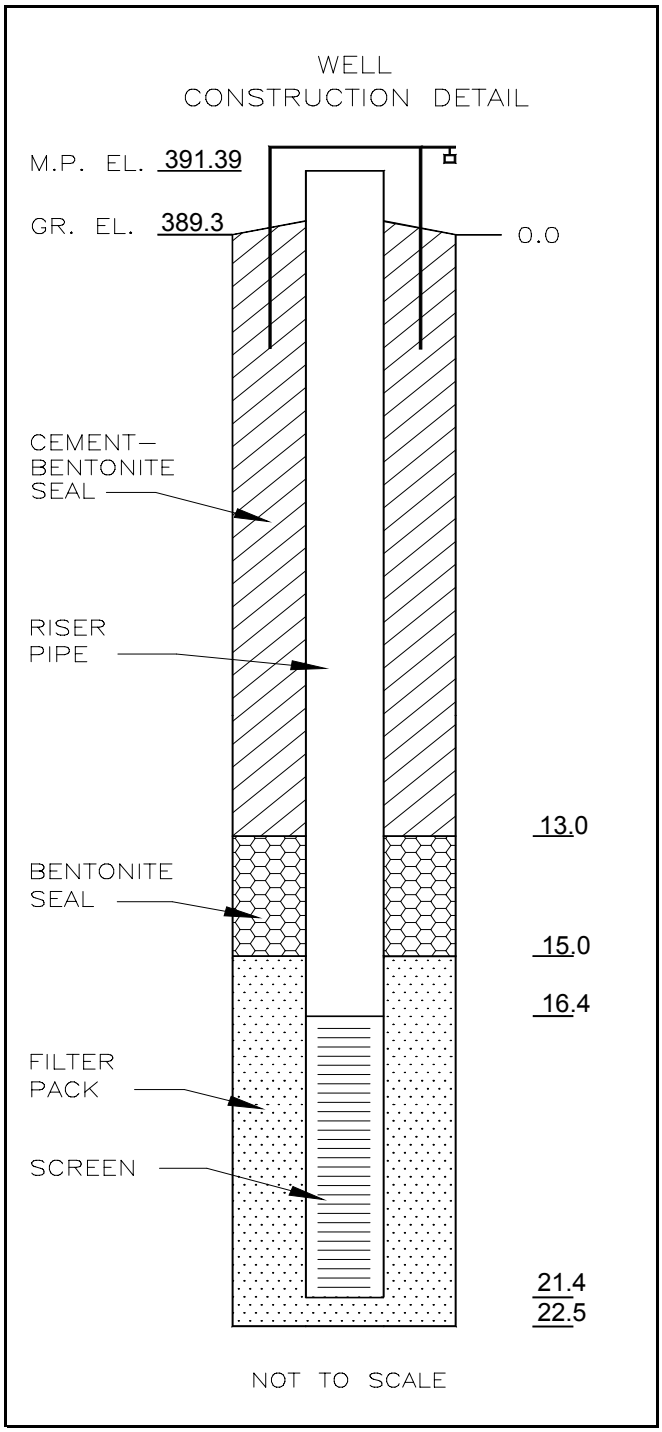
O'BRIEN & GERE ENGINEERS, INC.

Form 002

WELL COMPLETION LOG

Well ID: **MW-14S**

Project:	Old Erie Canal Supplemental GW	**Client:**	Parker-Hannifin
Location:	Clyde, New York	**Date Drilled:**	11/6/2006
Project No.:	39892.001.102	**Date Developed:**	11/15/2006



Inspection Notes:

Inspector: P. D'Annibale
Drilling Contractor: Parratt-Wolff, Inc.
Type of Well: Monitoring Well

Static Water Level (ft bmp): 5.51 Date: 11/8/06
Measuring Point: Top of PVC
Total Depth of Well (ft bmp): 23.55

Drilling Method - Overburden:

Type: HSA Diameter: 4¼" ID
Casing: NA

Sampling Method - Overburden:

Type: Split-Spoon Diameter: 2" OD
Weight: 140 # Fall: 30"
Interval: 0.0'-22.5'

Riser Pipe Left in Place:

Material: Sch 40 PVC Diameter: 2" ID
Length: 18.5' Joint Type Flush Thread

Screen:

Material: Sch 40 PVC Diameter: 2" ID
Slot Size: 0.010 Joint Type Flush Thread

Filter Pack:

Type: Sand Grade: #0 Morie
Interval: 15.0'-22.5'

Seal(s):

Type: Cement-Bentonite Interval: 0.0'-13.0'
Type: Bentonite Pellets Interval: 13.0'-15.0'
Type: Interval:

Locking Casing: [X] Yes [ ] No

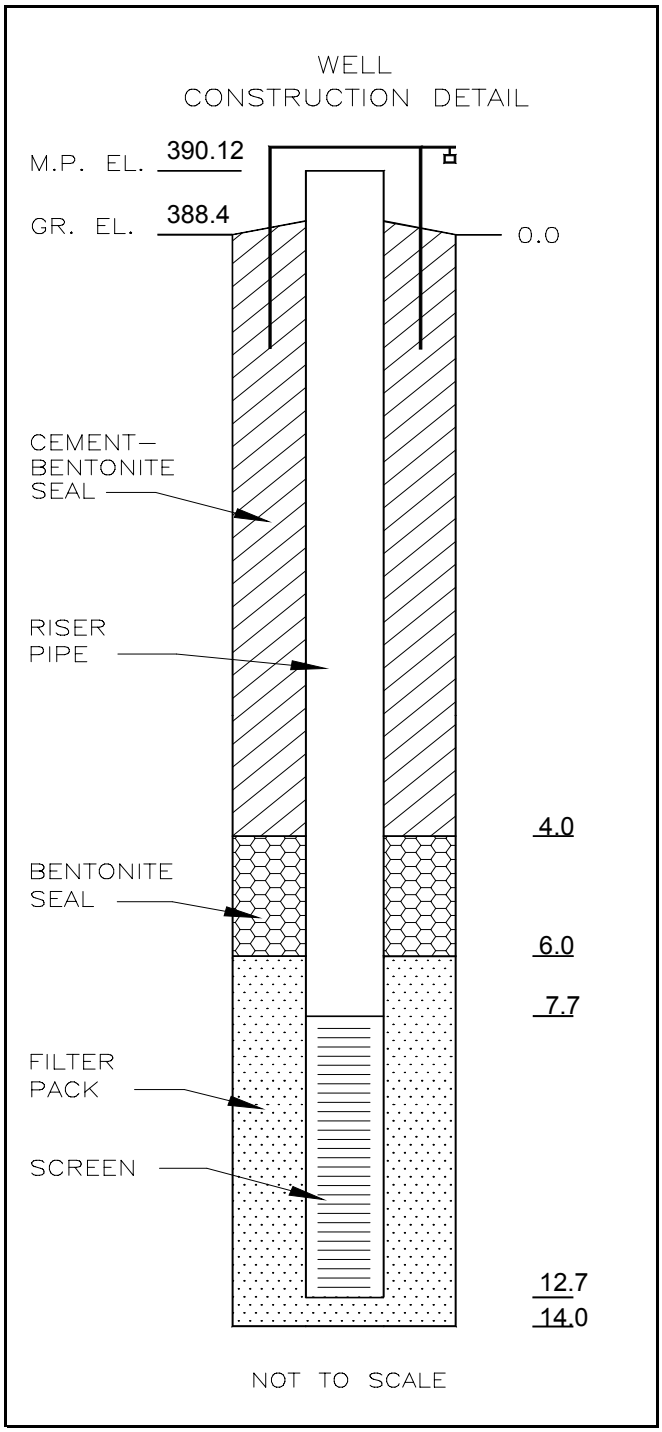
O'BRIEN & GERE ENGINEERS, INC.

Form 001

WELL COMPLETION LOG

Well ID: **MW-15S**

Project:	Old Erie Canal Supplemental GW	**Client:**	Parker-Hannifin
Location:	Clyde, New York	**Date Drilled:**	11/7/2006
Project No.:	39892.001.102	**Date Developed:**	11/15/2006



Inspection Notes:

Inspector: P. D'Annibale
Drilling Contractor: Parratt-Wolff, Inc.
Type of Well: Monitoring Well

Static Water Level (ft bmp): 2.19 Date: 11/8/06
Measuring Point: Top of PVC
Total Depth of Well (ft bmp): 14.42

Drilling Method - Overburden:

Type: HSA Diameter: 4¼" ID
Casing: NA

Sampling Method - Overburden:

Type: Split-Spoon Diameter: 2" OD
Weight: 140 # Fall: 30"
Interval: 0.0'-14.0'

Riser Pipe Left in Place:

Material: Sch 40 PVC Diameter: 2" ID
Length: 9.4' Joint Type Flush Thread

Screen:

Material: Sch 40 PVC Diameter: 2" ID
Slot Size: 0.010 Joint Type Flush Thread

Filter Pack:

Type: Sand Grade: #0 Morie
Interval: 6.0'-14.0'

Seal(s):

Type: Cement-Bentonite Interval: 0.0' - 4.0'
Type: Bentonite Pellets Interval: 4.0' - 6.0'
Type: Interval:

Locking Casing: [X] Yes [ ] No

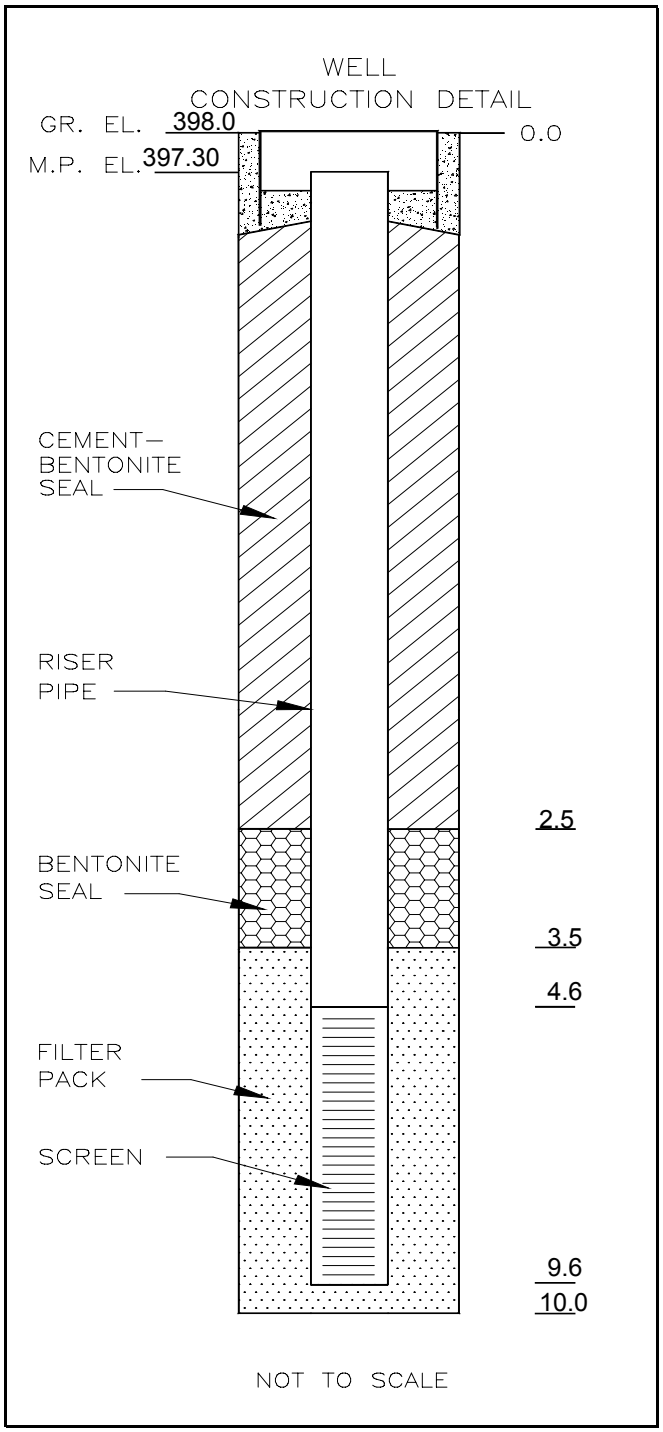
O'BRIEN & GERE ENGINEERS, INC.

Form 001

WELL COMPLETION LOG

Well ID: MW-16S

Project:	Old Erie Canal Supplemental GW	**Client:**	Parker-Hannifin
Location:	Clyde, New York	**Date Drilled:**	11/2/2006
Project No.:	39892.001.102	**Date Developed:**	11/14/2006



Inspection Notes:

Inspector: P. D'Annibale
Drilling Contractor: Parratt-Wolff, Inc.
Type of Well: Monitoring Well

Static Water Level (ft bmp): 2.97 Date: 11/8/06
Measuring Point: Top of PVC
Total Depth of Well (ft bmp): 8.92

Drilling Method - Overburden:

Type: HSA Diameter: 4 1/4 " ID
Casing: NA

Sampling Method - Overburden:

Type: Split-Spoon Diameter: 2" OD
Weight: 140 # Fall: 30"
Interval: 0.0'-10.0'

Riser Pipe Left in Place:

Material: Sch 40 PVC Diameter: 2" ID
Length: 3.9' Joint Type: Flush Thread

Screen:

Material: Sch 40 PVC Diameter: 2" ID
Slot Size: 0.010 Joint Type: Flush Thread

Filter Pack:

Type: Sand Grade: # 0 Morie
Interval: 3.5'-10.0'

Seal(s):

Type: Cement-Bentonite Interval: 0.0' - 2.5'
Type: Bentonite Pellets Interval: 2.5' - 3.5'
Type: Interval:

Locking Casing: [X] Yes [ ] No

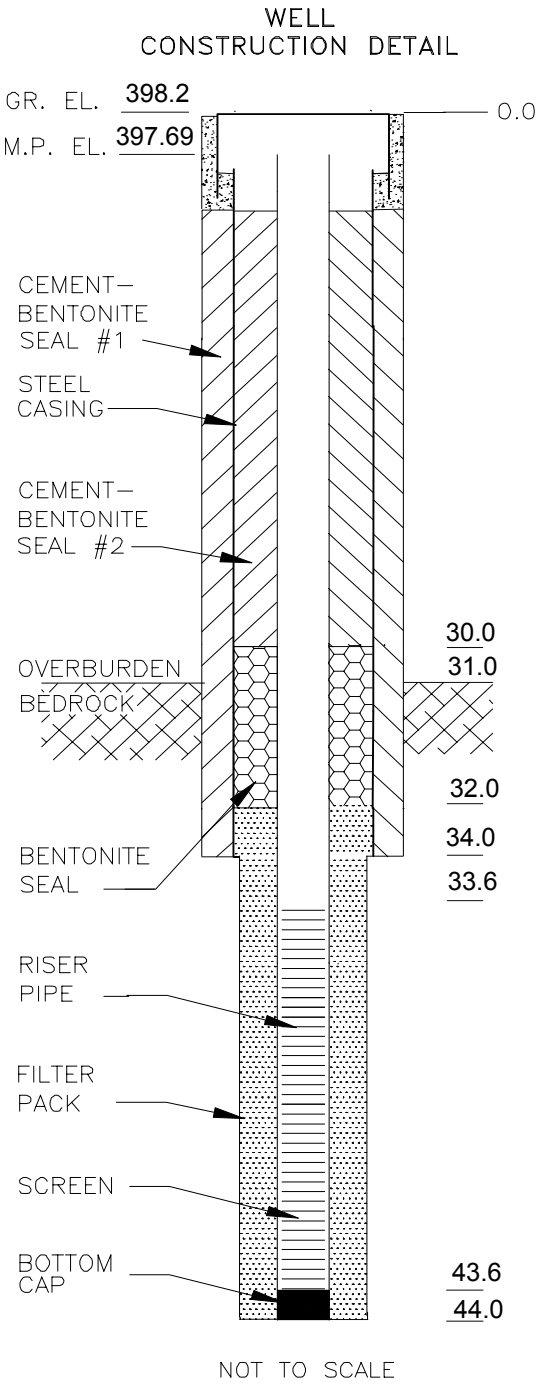
O'BRIEN & GERE ENGINEERS, INC.

Form 005

WELL COMPLETION LOG

Well ID: **MW-16B**

Project:	Old Erie Canal Supplemental FS	**Client:**	Parker-Hannifin
Location:	Clyde, New York	**Date Drilled:**	11/15/2006
Project No.:	39892.001.102	**Date Developed:**	11/16, 21/06



Form-040

Inspection Notes:

Inspector:	P. D'Annibale
Drilling Contractor:	Parratt-Wolff, Inc.
Type of Well:	Monitoring Well

Static Water Level (ft bmp):	3.88	Date:	11/28/06
Measuring Point:	TOC		
Total Depth of Well (ft bmp):	43.13		

Drilling Method - Overburden:

Type:	HSA	Diameter:	4 1/4" ID
Casing:	4" Steel		

Sampling Method - Overburden:

Type:	Split Spoon	Diameter:	2" OD
Weight:	140 #	Fall:	30"
Interval:	9.0' - 31.0'		

Drilling Method - Bedrock:

Type:	HX diamond bit	Diameter:	3 3/4" OD
Casing:	NA		

Sampling Method - Bedrock:

Type:	HX Core	Diameter:	3 3/4" OD
Interval:	34.0' - 44.0'		

Riser Pipe Left in Place:

Material:	Sch. 40 PVC	Diameter:	2" ID
Length:	33.1'	Joint Type:	Flush Thread

Screen:

Material:	Sch. 40 PVC	Diameter:	2" ID
Slot Size:	0.010	Joint Type:	Flush Thread

Filter Pack:

Type:	Sand	Grade:	# 0 Morie
Interval:	32.0' - 44.0'		

Seal(s):

Type:	Cement-Bentonite Seal #1	Interval:	0.0' - 34.0'
Type:	Bentonite Seal	Interval:	30.0'-32.0'
Type:		Interval:	

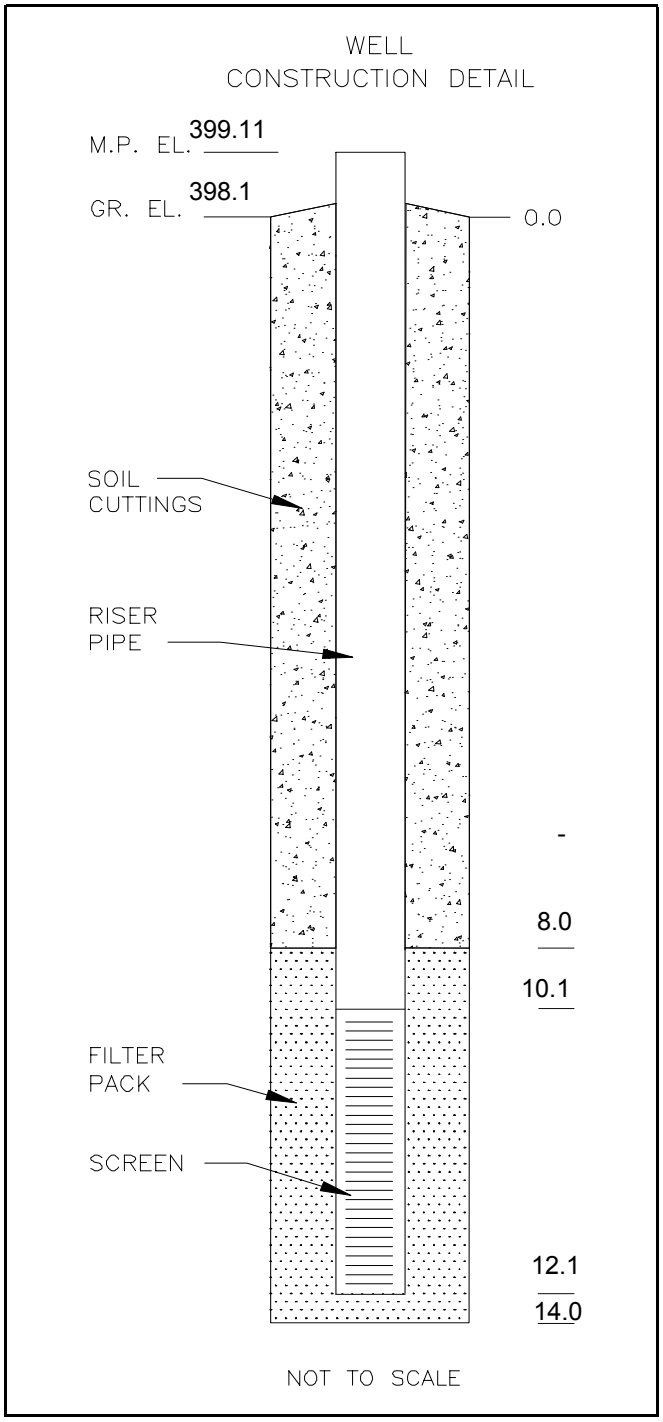
Locking Casing: [X] Yes [ ] No

O'BRIEN & GERE ENGINEERS, INC.

WELL COMPLETION LOG

Well ID: TMW-1

Project:	Old Erie Canal Supplemental GW	**Client:**	Parker-Hannifin
Location:	Clyde, New York	**Date Drilled:**	11/3/2006
Project No.:	39892.001.102	**Date Developed:**	11/14, 20/2006



Inspection Notes:

Inspector: P. D'Annibale
Drilling Contractor: Parratt-Wolff, Inc
Type of Well: Temporary Monitoring Well

Static Water Level (ft bmp): 3.93 Date: 11/8/06
Measuring Point: Top of PVC
Total Depth of Well (ft bmp): 13.09

Drilling Method - Overburden:

Type: HSA Diameter: 4 1/4 " ID
Casing: NA

Sampling Method - Overburden:

Type: Split-Spoon Diameter: 2" OD
Weight: 140 # Fall: 30"
Interval: 0.0'-14.0'

Riser Pipe Left in Place:

Material: Sch 40 PVC Diameter: 2" ID
Length: 11.1' Joint Type Flush Thread

Screen:

Material: Sch 40 PVC Diameter: 2" ID
Slot Size: 0.010 Joint Type Flush Thread

Filter Pack:

Type: Sand Grade: # 0 Morie
Interval: 8.0'-14.0'

Seal(s):

Type: Cement-Bentonite Interval: NA
Type: Bentonite Pellets Interval: NA
Type: Interval:

Locking Casing: ☐ Yes ☒ No

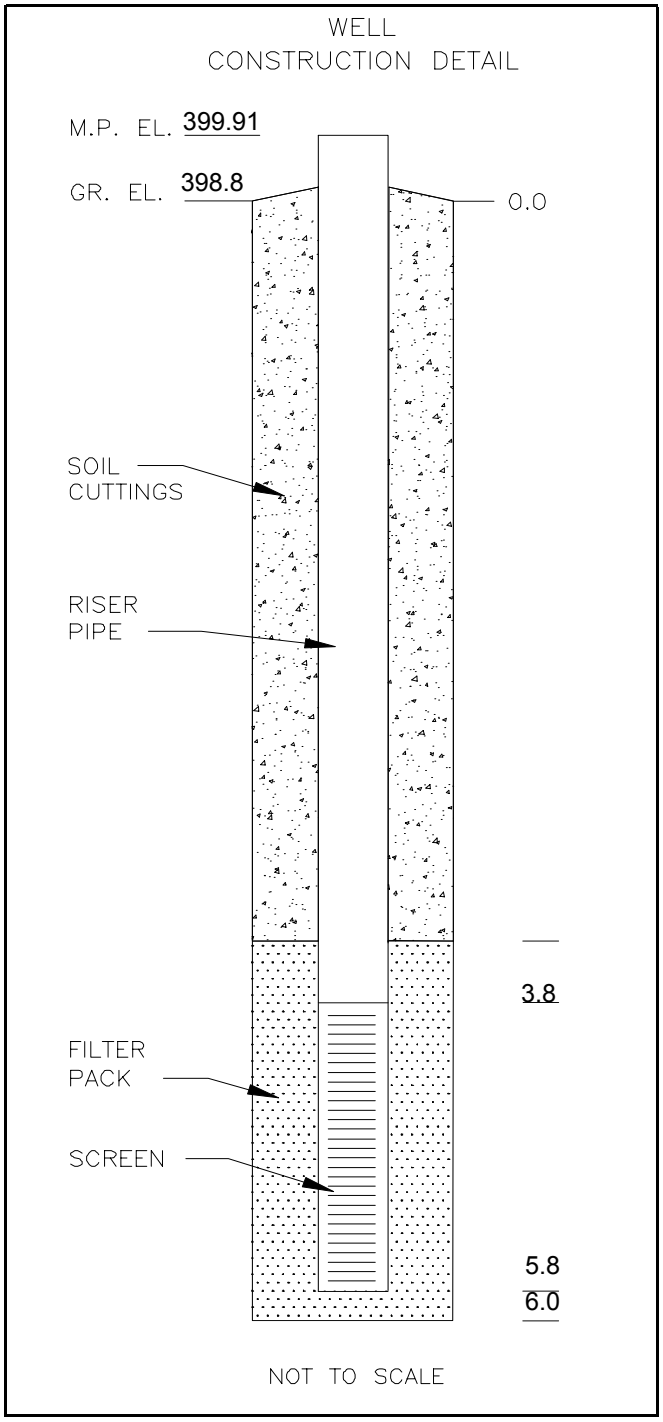
O'BRIEN & GERE ENGINEERS, INC.

Form 003

WELL COMPLETION LOG

Well ID: TMW-2

Project:	Old Erie Canal Supplemental GW	**Client:**	Parker-Hannifin
Location:	Clyde, New York	**Date Drilled:**	11/3/2006
Project No.:	39892.001.102	**Date Developed:**	11/14/2006



Inspection Notes:

Inspector: P. D'Annibale
Drilling Contractor: Parratt-Wolff, Inc
Type of Well: Temporary Monitoring Well

Static Water Level (ft bmp): 4.48 Date: 11/8/06
Measuring Point: Top of PVC
Total Depth of Well (ft bmp): 6.86

Drilling Method - Overburden:

Type: HSA Diameter: 4 1/4 " ID
Casing: NA

Sampling Method - Overburden:

Type: Split-Spoon Diameter: 2" OD
Weight: 140 # Fall: 30"
Interval: 0.0'-6.0'

Riser Pipe Left in Place:

Material: Sch 40 PVC Diameter: 1" ID
Length: 4.9' Joint Type Flush Thread

Screen:

Material: Sch 40 PVC Diameter: 1" ID
Slot Size: 0.010 Joint Type Flush Thread

Filter Pack:

Type: Backfill Grade:
Interval: 0.0'-6.0'

Seal(s):

Type: Interval:
Type: Interval:
Type: Interval:

Locking Casing: ☐ Yes ☒ No

O'BRIEN & GERE ENGINEERS, INC.

Form 003