WESTON SOLUTIONS, INC. SI-GW-02	Drilling/Lithologic Log	PAGE 1 OF 3

Job Name	Blades, Delaware	Boring No.	B-GW-02	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-16-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	46 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. (feet)	Visual Description (Grass surface)	Field Instrument Readings
	1	N/A	1.2	Pale brown well sorted fine sand, trace silt, dry, loose	N/A
2				SAA	
	2		1.2	Pale reddish brown well sorted subangular medium sand, trace silt, wet @ 5', loose	
4					
	3		1.5		
6				Light grayish brown well sorted medium subangular sand, wet, loose	
	4		1.0		
8				Light grayish brown poorly sorted f-c subangular sand, loose, wet	
	5		1.9		
10				SAA, grades to light gray	
	6		2.0		
12				12-13.7 = SAA	
	7		1.7	13.7-14 = Medium gray silt, slight plasticity, soft, some very fine sand, moist	
14				1' of sluff, medium gray clay, high plasticity, medium firm moist	
	8		0.9		
16				SAA, 1' of sluff	
	9		1.3		
18				SAA but soft	
	10		1.7		

WESTON SOLUTIONS, INC. SI 64-02 **Drilling/Lithologic Log** PAGE 2 OF 3

Job Name	Blades, Delaware	Boring No.	B-64-SB-02	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-16-2019	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	46 (ft bgs)		
Drill Foreman		Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-58		

Ex. 4 CBI

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description	Field Instrument Readings
20	11	N/A	2.0	20-21.4 = SAA 21.4-22 = light gray poorly sorted f-c subangular sand, loose, wet	N/A
22	12		1.5	0.5' of slough, very light gray well-sorted subangular medium sand, trace silt, light reddish yellow color layer from 23.2-23.7'	
24	13		2.0	Light gray well sorted f-c-medium subangular sand, loose, wet	
26	14		2.0	SAA	
28	15		2.0	28.0-29.0: medium gray well sorted medium subangular sand, some silt, slight plasticity, wet, soft 29.0-29.6 = light gray well sorted f-m sand trace silt, wet, loose 29.6-30 = SAA but light grayish brown	
30	16		2.0	medium gray well sorted f-m sand, trace well-rounded fine gravel, trace silt, loose, wet	
32	17		2.0	32.0-32.6 = SAA 32.6-34 = light gray poorly sorted f-c subangular sand, some subrounded f-c gravel, loose, wet	
34	18		2.0	medium gray poorly sorted f-c subangular sand, very dense, trace silt, wet	
36	19		2.0	36.0-36.2 = SAA 36.2-38.2 = light gray poorly sorted f-c subangular sand, some f-c well rounded gravel, very dense, wet	
38				38.40 = SAA	

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WESTON SOLUTIONS, INC. SIGW-02	Drilling/Lithologic Log	PAGE 3 OF 7

Job Name	Blades, Delaware	Boring No.	~~SIGW-02~~ SIGW-02	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-16-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	46 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description	Field Instrument Readings
40	~~20~~ 21	N/A ~~1.8~~	1.8	40-41.8 = SAA 41.8-42 = very light gray well sorted fine subangular sand, loose, wet	N/A
42	22		1.9	42-44 = SAA	
44	23			44-46 = SAA	
46				End of Boring @ 46' Installed 2" PVC well (Sch. 40) 10-slot screen 35-45' bgs. #1 sand 33-45' bgs Bentonite 31-33' bgs Grout (portland cement - bentonite to surface	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 1 OF 2	
Job Name	Blades, Delaware	Boring No.	SEG-04	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-16-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	36 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. feet	Visual Description	Field Instrument Readings
				Grass surface	
	1	N/A	1.6	0.0-0.6 = Dark brownish gray well sorted fine subangular sand, some silt, some subangular fine gravel, loose, moist; trace silt	N/A
2				0.6-2.0 = Dark brownish gray well sorted fine sand, trace silt, loose, moist	
	2		1.6	wet @ 2'. very light brown well sorted fine sand; little silt, loose, wet	
4					
	3		2.0	SAA	
6					
	4		2.0	SAA	
8				8.0-8.8 = SAA; 8.8-9.8 = very pale brown well sorted medium subangular sand, trace silt, loose, wet, layer of light reddish yellow color from 9.8-10.0'	
	5		2.0		
10				light brownish gray well sorted medium subangular sand, dark grayish brown color from 10.5-10.6' light reddish yellow color from 11.5-11.7'. 11.7-12 = light yellowish gray well sorted subangular fine sand; loose, wet	
	6		2.0		
12				12.0-12.4 = Black poorly sorted fine subangular sand, some silt, slight plasticity, medium dense, no odor	
	7		2.0	12.4-12.0 = light gray well sorted fine sand, some silt, slight plasticity, dense, wet; 13.0 = Dark gray clay, silt, high plasticity, trace very fine sand, moist	
14					
	8		0.6	SAA, 1.5' of slough	
16					
	9		0.2	SAA, 1.8' of slough	
18					
	10		0.3	SAA, 1.7' of slough	

WESTON SOLUTIONS, INC. — **Drilling/Lithologic Log** — PAGE 2 OF 2

Job Name	Blades, Delaware	Boring No.	SS6W-04	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-16-18	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	36 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
20		N/A			N/A
	11		0.9	20.0-20.6 = SAA (clay) 20.6-20.9 = light reddish ~~brown~~ yellow poorly sorted vf-m subangular sand, some silt, wet, loose	
22					
	12		2.0	poorly sorted f-c subangular sand, light reddish yellow, some silt, loose, wet; darker reddish yellow color layers from 23.6'-23.7' and 23.8'-23.9'	
24					
	13		2.0	light brownish gray well sorted f-m subangular sand, trace silt, dense, wet	
26					
	14		0.6	SAA	
28					
	15		1.2	SAA, light reddish yellow mottling from 29.6'-30.0'	
30					
	16		1.4	SAA, no mottling	
32					
	17		1.6	32.0-33.6 = SAA; 33.6-34.0 = light gray clay, high plasticity, soft, moist	
34					
	18		0.2	SAA (clay), 1.8' of slough	
36					
	19			End of Boring @ 36'	
38					

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 1 OF 3	
Job Name	Blades, Delaware	Boring No.	SIGW-06	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-17-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	42 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
	1	N/A	1.6	0-1.0 = Dark grayish brown poorly sorted f-c subangular sand, some silt, some angular fine gravel, loose, moist 1.0-2.0 - light reddish brown well sorted fine sand, loose, moist	N/A
2	2		1.2	SAA	
4	3		1.4	SAA	
6	4		1.8	6.0-7.0 = SAA, 7.0-8.0 = light gray clay, high plasticity, medium firm, wet?	
8	5		1.2	0.8' of slough, 8.0-8.8 = SAA; 8.8-9.0 = light gray well sorted fine sand, loose, wet	
10	6		1.4	SAA, some light reddish yellow mottling and very fine (less than 1 mm thick) dark gray horizontal lamination	9.7
12	7		2.0	SAA, grades to light yellowish red color	
14	8		1.8	14.0-15.6 = light brown well sorted fine sand, loose, wet 15.6-16.0 = light reddish brown poorly sorted f-c subangular sand, trace silt, some well-rounded fine gravel, loose, wet	
16	9		2.0	16.0-17.6 = SAA, 17.6-18.0 = dark gray high plasticity clay, soft, moist	
18	10		0.0	2' of f-c sand slough	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 2 OF 3	
Job Name	Blades, Delaware	Boring No.	SIEW-06	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-17-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	42 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
20		N/A			N/A
	11		1.6	Medium gray clay, soft, high plasticity wet, trace fine sand	
22				Appears to be sand slough; lower 1" is	
	12		2.0	clay as above, driller says augers have been staying open and clear, doesn't seem to be slough based on spoon behavior	
24					
	13		2.0	Lower 3" is soft dark gray clay as above; fine sand in upper 1'7" may slough	
26					
	14		1.6	Light gray well sorted fine sand, some silt, some subrounded fine-coarse gravel, some yellowish red mottling, dense, wet	
28					
	15		2.0	SAA	
30					
	16		0.9	SAA	
32					
	17		1.0	SAA	
34					
	18		1.0	SAA	
36					
	19		1.8	SAA	
38					

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 3 OF 3	
Job Name	Blades, Delaware	Boring No.	SI-GW-06	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-17-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	42 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
40		N/A		38.0 - 38.4 38.4-38.8 ~~40.0-40.4~~ = SAA; ~~40.4-40.8~~ = medium gray clay, soft, high plasticity, wet	N/A
	20		0.8		
42			1.0	40.0-42.0 - medium gray clay, high plasticity, soft, wet	
	21				
44				End of Boring @ 42'	
	22				
46					
	23				
48					

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 1 OF 5	
Job Name	Blades, Delaware	Boring No.	SI-GW-08	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-18-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	44 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description (Grass surface)	Field Instrument Readings
	1	N/A	1.5	Dark grayish brown well sorted fine sand, loose, dry, some silt, 0.4-0.8 = poorly sorted f-c subangular gravel, some silt, loose, dry, 0.8-2.0 = medium grayish brown fine sand, some silt loose	N/A
2					
	2		1.2	Light yellowish brown well sorted fine sand, subangular, some silt, loose, moist	
4					
	3		1.0	SAA, wet	
6					
	4		1.6	6-7.2: SAA; 7.2-8.0: very light gray well sort fine sand, subangular, little silt loose, wet	
8					
	5		2.0	SAA	
10					
	6		2.0	SAA, grades to very light brown well sorted f-m sand, subangular, loose, wet	
12					
	7		2.0	SAA; 13.0-14.0 = medium gray clay, high plasticity, soft, wet	
14					
	8		1.4	SAA grades to medium firm	
16					
	9		0.6	SAA, soft; 1.4' of sand, loose	
18					
	10		1.0	SAA; 19.6-20.0 = well sorted subangular medium sand, some silt, light reddish brown	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log	PAGE 2 OF 3		
Job Name	Blades, Delaware	Boring No.	SI-GW-08	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-18-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	44 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
20	11	N/A	1.0	SAA, grades to light gray	N/A
22	12		1.8	light gray well sorted f-m sand subangular, some silt, dense, wet, light reddish yellow from 23.6-23.9'	
24	13		1.6	SAA, 25.8-26.0 = very light gray f-c well rounded gravel and poorly sorted f-c sand, some silt, dense, wet	
26	14		1.2	SAA, some yellowish red mottling, 1' of sand slough	
28	15		0	No recovery	
30	16		1.2	light gray poorly sorted, f-c sand, subangular, some fine sub angular gravel, some silt, dense wet	
32	17		1.4	SAA light yellowish red color from 33.8-33.9'	
34	18		1.3	SAA, trace shell fragments	
36	19		1.7	SAA, grades to light gray well sorted fine sand little silt, dense, wet, ~~sand~~ some dark gray horizontal color layers	
38	20		1.2	SAA	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 3 OF 3	
Job Name	Blades, Delaware	Boring No.	SI 6w-08	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-18-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	44 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
		N/A			N/A
40	21		2.0	SAA, trace subrounded fine gravel, dense	
42	22		2.0	SAA; 42.0-43.0 = dark brownish gray clay, soft, high plasticity, wet	
44	23			End of boring @ 44'	
46					

WESTON SOLUTIONS, INC.			Drilling/Lithologic Log	PAGE 1 OF 3	
Job Name	Blades, Delaware	Boring No.	SI6W-10	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-18-2018-10-19-18	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	44 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. feet	Visual Description	Field Instrument Readings
	1	N/A	1.6	Dark brownish gray well sorted very fine sand, loose some silt, roots, moist; 1.0-2.0 = light yellowish brown well sorted subangular fine sand, some silt, loose, moist	N/A
2	2		1.6	SAA	
4	3		1.5	SAA	
6	4		1.7	SAA, grades to well sorted fine subangular sand, little silt, light gray w/ reddish yellow mottling, loose, moist	
8	5		2.0	light gray well sorted fine subangular sand, little silt, some small subrounded gravel, medium dense, wet	
10	6		1.4	Medium gray clay, very firm, high plasticity, moist; 11.6-12 = light gray well sorted subangular medium sand, loose, wet	
12	7		1.4	Light reddish yellow well sorted fine sand, some silt, some subrounded fine gravel, ~~some~~ trace shell fragments, dense, wet	
14	8		0.2	light gray very firm high plasticity clay, moist; 1.8' of sand appears to be slough	
16	9		0.5	light reddish gray well sort fine sand subangular, medium dense, wet (slough)	
18	10		1.0	light gray clay, medium firm, high plasticity, wet, 1' of slough	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 2 OF 3	
Job Name	Blades, Delaware	Boring No.	SI GW-10	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-18-2018 – 10-19-18	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	44 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. feet	Visual Description	Field Instrument Readings
20		N/A			N/A
	11		0.3	SAA, 1.7' of sand slough	
22	12		1.6	medium brown well sorted vf-f sand, some silt, dense, wet; 23.4-24.0 = well sorted vf-F sand, light brownish red, dense, wet, some silt	
24	13		2.0	SAA	
26	14		0.6	SAA, 1.0' of sand slough	
28	15		1.7	light brownish gray well sorted fine sand, subangular, some silt, dense, wet	
30	16		1.2	SAA	
32	17		1.8	SAA	
34	18		1.8	SAA	
36	19		1.6	SAA	
38					

0.4 SAA

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 3 OF 3	
Job Name	Blades, Delaware	Boring No.	SEG-10	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-18-18 – 10-19-18	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	44 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
40		N/A			N/A
	20		1.6	SAA	
42					
	21		1.0	SAA	
44				End of Boring @ 44'	

WESTON SOLUTIONS, INC.			Drilling/Lithologic Log		PAGE 1 OF 2
Job Name	Blades, Delaware	Boring No.	SIGW-12	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-22-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	46 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
0	1	N/A	1.6	Dark gray well sorted fine sand, some silt, roots, loose, dry; 1.0-1.8 = SAA but medium brownish gray; 1.8-2.0 = SAA but light yellowish brown w/ reddish yellow mottling	N/A
2	2		1.5	SAA	
4	3		1.7	SAA	
6	4		1.8	6.0-6.2 SAA; wet @ 6.2; 6.2-8.0 = light yellowish brown well sorted medium subangular sand, some silt, loose, wet	
8	5		1.6	SAA, trace well rounded fine gravel	
10	6		1.4	SAA; 11.8-12.0 = light reddish yellow clay, soft, high plasticity, wet	
12	7		1.4	SAA; grades to medium gray; 1.0' of sand slough	
14	8		1.3	SAA	
16	9		1.2	16.0-17.0 = SAA; 17.0-17.6 = dark gray well sorted fine sand, some silt, dense, wet; 17.6-18.0 = light reddish brown well sorted fine sand some silt, dense, wet	
18	10			SAA, grades to dark brownish gray clay, medium to high plasticity, wet	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 2 OF 3	
Job Name	Blades, Delaware	Boring No.	SIG-W-12	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-22-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	46 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
20		N/A		medium yellowish brown well sorted vf-f sand, some clay, moderate plasticity, wet; 21.8-22.0: very light gray well sorted fine sand, some silt, dense, wet	N/A
	11		1.8		
22				22.0-22.2: SAA; 22.2-24: very light gray clay, soft, high plasticity, wet	
	12		1.8		
24				SAA; 26.6-26.0: well sorted very fine sand, reddish yellow, some silt, dense, wet	
	13		1.2		
26				SAA; 27.0-28.0: very light gray well sorted f-m subangular sand dense, wet	
	14		1.8		
28				SAA, grades to light yellowish brown / fine sand slough	
	15		1.0		
30					
	16		1.2	SAA, 0.8' of clayey sand slough → light yellowish brown well sorted fine sand, dense, wet	
32					
	17		1.0	poorly sorted f-c subangular sand little-some silt, very dense, wet; interbedded color layers light grayish brown, light reddish yellow, and dark gray; trace seashell	
34				34.0-34.8: pale yellowish brown poorly sorted some silt f-vc subangular sand, very dense, wet; 34.8-36: well sorted very fine sand, little-some silt, dense, wet, alternating / interbedded light brownish gray and dark gray color layers	
	18		1.4		
36					
	19		1.2	SAA, continued interbedded light / dark layers, dense	
38					
	20		1.2	light brownish gray poorly sorted f-vc subangular to subrounded sand, some silt, very dense, wet, becomes light yellowish brown @ 39.6'	

WESTON SOLUTIONS, INC.			Drilling/Lithologic Log	PAGE 3 OF 3	
Job Name	Blades, Delaware	Boring No.	SI GW-12	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-22-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	46' (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
		N/A			N/A
40				very light gray well sorted subangular medium sand, little silt, very dense;	
	21		1.6	1" thick layer of reddish brown clayey sand @ 41.0	
42				42.0-43.0: medium brownish grayey poorly sorted f-c subangular sand, some clay, slight plasticity, trace black subangular gravel fragments; 43.0-44.0: light brownish gray well sorted medium sub angular sand, dense, wet	
	22				
44					
	23		1.6	light brownish gray poorly sorted f-c sand, subangular, little silt, very dense, wet	
46					
				End of Boring @ 46' bgs	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 1 OF 3	
Job Name	Blades, Delaware	Boring No.	SIGW-13	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-23-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	52 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
				Grass surface	
	1	N/A	2.0	Dark grayish brown well sorted fine sand some silt, loose, moist; 1.2-2.0 = light yellowish brown well sorted fine sand, little silt, loose, moist yellowish red mottling	N/A
2					
	2		1.6	SAA	
4					
	3		1.4	SAA, wet @ 5'; 5.2-6.0 = light yellowish brown well sorted medium subangular sand, little silt, loose, wet	
6					
	4		1.4	SAA; 7.0-8.0 = light gray well sorted medium sand, little silt, loose, wet	
8					
	5		1.9	SAA	
10					
	6		2.0	SAA	
12					
	7		1.2	SAA; 13.6-14.0 = dark gray clay, medium firm, high plasticity, wet, 1" thick layer of yellowish red well sorted medium subangular sand with some silt overlying clay upper contact	
14					
	8		0.6	SAA; 1.2' of sand slough	
16					
	9		0.6	SAA; 1.4' of sand slough	
18					
	10		1.0	Dark gray well sorted medium sand and high plasticity clay; wet; 19.6-20.0 = yellowish red well sorted medium subangular sand, some clay, wet, slight plasticity	

WESTON SOLUTIONS, INC. | Drilling/Lithologic Log | PAGE 2 OF 3

Job Name	Blades, Delaware	Boring No.	SIGW-13	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-23-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	52 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
		N/A			N/A
20	11		0.8	medium gray well sorted medium subangular sand, some clay, slight plasticity, soft, yellowish red mottling, wet	
22	12		2.0	light to medium brownish gray well sorted medium subangular sand, some clay, slight plasticity yellowish red mottling, wet; 23.6-24.0 = light gray clay, medium firm, high plasticity, wet	
24	13		1.2	SAA; 25.6-26.0 = light gray well sorted medium subangular sand, dense, wet, some soft clay, trace yellowish red mottling, slight plasticity	
26	14			SAA, grades to well sorted fine subangular sand, some silt, light gray, trace reddish yellow mottling, loose, wet	
28	15		1.9	light gray well sorted vf-f sand, some silt, dense, wet	
30	16		2.0	SAA; 31.2-32.0 = light brownish gray clay, medium firm, high plasticity, wet	
32	17		2.0	SAA, grades to soft, wet, high plasticity dark brownish gray clay, 33.4-34.0 = well sorted subangular medium sand, some silt, medium dense, light gray with horizontal yellowish red laminations	
34	18		1.0	light gray to light brownish gray poorly sorted f-c subangular sand, some poorly sorted wellrounded f-c gravel, some silt, dense, wet, some reddish yellow mottling	
36	19		1.6	SAA, grades to poorly sorted f-c subangular sand, some clay soft, wet; 37.6-38.0 = dark brownish gray clay, medium firm, high plasticity, wet	
38	20			SAA, 39.4-40.0 = well sorted fine subangular sand, some silt, dense, yellowish red	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 3 OF 3	
Job Name	Blades, Delaware	Boring No.	SFGW-13	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-23-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	52 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. feet	Visual Description	Field Instrument Readings
		N/A			N/A
40				40.0-41.0= dark brownish gray soft high plasticity clay, wet; 41.0-42.0= very light gray well sorted fine sand, some silt, dense, wet, reddish yellow underlying clay @ clay/sand contact	
	21		1.6		
42				light gray to light brownish gray well sorted subangular fine sand, some silt, loose, wet, trace yellowish red mottling	
	22		1.6		
44				medium brownish gray well sorted fine subangular sand, some clay, slight plasticity, soft; 45.4-46.0= light yellow well sorted fine subangular sand, some silt, dense, wet	
	23		1.6		
46					
	24		1.2	SAA	
48				SAA; 1.0' of sand clay	
	25		0.8		
50					
	26		1.0	SAA	
52				End of Boring @ 52'	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 1 OF 1	
Job Name	Blades, Delaware	Boring No.	SFGW-14	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-23-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	18 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. feet	Visual Description	Field Instrument Readings
				Grass Surface	
	1	N/A	1.8	very dark grayish brown, well sorted fine subangular sand, loose, some silt, moist; 1.0-1.6 = light yellowish brown well sorted fine subangular sand, little silt, loose, moist; 1.6-2.0 = very dark grayish brown well sorted fine subangular sand, loose, moist, some silt	N/A
2	2		1.8	SAA; 2.2-4.0 = light grayish brown well sorted fine subangular sand, little silt, loose, moist	
4	3		1.6	light yellowish brown - light reddish yellow well sorted fine subangular sand, little silt, loose, moist	
6	4		1.6	wet @ 7'; light brownish gray well sorted subangular medium sand, little silt, loose, reddish yellow mottling	
8	5		1.6	SAA	
10	6		1.8	SAA, grades to poorly sorted f-c subangular sand	
12	7		1.9	light brownish gray poorly sorted f-c subangular sand, some silt, trace subangular f-m gravel, dense, wet	
14				SAA; 14.4-15.2 = yellowish red clay, firm, high plasticity, wet; 15.2-16.0 = dark gray clay, firm, high plasticity, wet	
16			0.6	SAA; 1.4' of sand slough	
18				End of boring @ 18'	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 1 OF 3	
Job Name	Blades, Delaware	Boring No.	SIGW-17	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-25-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	46 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
				Grass surface	
	1	N/A		Hand cleared to 5' bgs; very dark brown/dk gray well sorted very fine sand, some silt, moist; 1-2' = well sorted fine subangular sand, some silt; loose, moist, light brownish gray, some rubbish yellow mottling; 2-3' = very dark gray well sorted fine subangular sand; loose, moist, some silt. 3-5' = well sorted fine subangular sand light yellowish brown; some silt, loose, moist	N/A
2	2				
4	3				
6	4			SAA	
8	5			light grayish brown; well sorted fine subangular sand, some silt/clay, slight plasticity; loose, wet @ 8'; some yellowish red mottling	
10	6		1.9	SAA	
12	7		2.0	light reddish brown poorly sorted f-vc subangular sand little silt, dense, wet; 13.6-14.0 = light gray well sorted fine subangular sand, little silt, dense, wet	
14	8		2.0	light yellowish brown poorly sorted f-c subangular sand, some silt, dense, wet; 15.4-16.0 = light gray well sorted fine subangular sand, little silt, dense, wet	
16	9		1.6	very pale brown well sorted medium subangular sand, trace silt, dense, wet	
18	10		1.9	pale brown poorly sorted f-vc subangular sand little silt, trace well rounded fine gravel, dense, wet; clay layer 19.6-19.8', light gray, high plasticity, firm, moist	

WESTON SOLUTIONS, INC.			Drilling/Lithologic Log	PAGE 2 OF 3	
Job Name	Blades, Delaware	Boring No.	SI GW-17	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-25-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	46 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
		N/A			N/A
20	11		1.8	SAA, increasing clay content with depth, grades to soft, low plasticity with some yellowish red mottling; 21.8-22.0: light gray well sorted fine subangular sand, some clay, slight plasticity, trace well rounded fine gravel, wet	
22	12		2.0	light gray poorly sorted f-vc sand, subangular, some silt, some well-rounded f-m gravel, dense, wet, horizontal yellowish red coloration layers	
24	13		1.8	SAA; 25.6-25.8: light gray to yellowish red well sorted fine sand and soft clay, moderate plasticity, wet; 25.8-26.0: well sorted fine subangular sand, little silt, trace well rounded fine gravel, dense, wet	
26	14		1.6	light brownish gray well sorted medium sand, trace silt, less dense, wet; 27.6-28.0: light brownish gray well sorted fine sand, subangular, little clay, slight plasticity, dense, wet, light reddish yellow mottling	
28	15		1.8	light gray well sorted medium sand, subangular, trace silt, loose, wet	
30	16		1.0	SAA	
32	17		1.6	SAA; 33.8-34.0: light gray well sorted f-c sand some silt, some subrounded f-m gravel, dense, wet	
34	18		1.0	SAA, increasing gravel content with depth, horizontal reddish yellow layers from 35.6-35.8'	
36	19		1.2	light gray well sorted f-m subangular sand, some silt, some f-m subrounded gravel, horizontal reddish yellow color lamination, dense, wet	
38				SAA, reddish yellow bands absent	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 3 OF 7	
Job Name	Blades, Delaware	Boring No.	SFGW-17	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-25-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	46 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. feet	Visual Description	Field Instrument Readings
40		N/A			N/A
	21		1.0	very light gray well sorted medium subangular sand, some silt, dense, wet; 41.6-42.0 = poorly sorted f-c subangular sand, some silt, some f-c subangular gravel, medium gray with yellowish red mottling, dense, wet	
42					
	22		0.8	SAA, trace seashell fragments, 1.2' of sand/gravel slough	
44					
	23		2.0	SAA; 44.6-46.0 = dark ~~gray~~ gray clay, soft, high plasticity, wet	
46					
				End of boring @	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 1 OF 4	
Job Name	Blades, Delaware	Boring No.	SIGW-18	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-29-18	Drilling Method	Mud Rotary		
Drilling Co.	Talon Drilling Co.	Completion Depth	96 (ft bgs)		
Drill Foreman		Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Ex. 4 CBI

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. feet	Visual Description (Grass surface)	Field Instrument Readings
	1	0' BDE-SO-04 @1400 + Dup	1.6	Black well sorted fine sand, subangular, some silt, some coarse angular gravel, moist, loose; 10-20% yellowish brown well sorted fine sand, little silt, loose, moist; Hollow stem auger to 8' bgs	N/A
2	2		1.4	SAA	
4	3	BDE-SO-05 @1410 + MS/MSD	1.4	SAA	
6	4		1.2	wet @ 6'; light gray well sorted fine sand subangular, loose, some silt, reddish yellow mottling; wet	
8				Advanced mud rotary tooling to 40' bgs	
40	5		1.0	poorly sorted F-C subangular sand, some well rounded fine gravel, little silt, dense, wet; light gray, dark gray, and yellowish red color lamination	
44	6		1.8	SAA; 45.0-46.0: dark gray clay, high plasticity, soft, wet	
46	7		1.7	SAA	
48	8		1.9	SAA, medium firm	
50	9		2.0	SAA	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 2 OF 4	
Job Name	Blades, Delaware	Boring No.	STGW-18	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-30-18	Drilling Method	Mud Rotary		
Drilling Co.	Talon Drilling Co.	Completion Depth	96 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description	Field Instrument Readings
52		N/A			N/A
	10		2.0	SAA	
54					
	11		1.8	SAA, trace wood fiber	
56					
	12		2.0	SAA; 57.8-58.0 = well sorted subangular medium sand, some clay, slight plasticity, yellowish red, wet	
58					
	13		0.0	No recovery	
60					
	14		0.8	well sorted fine subangular sand, some silt, medium reddish gray, dense, wet	
62					
	15		0.4	SAA	
64					
	16		0.8	well sorted fine subangular sand, some silt, light brownish gray, dense, wet	
66					
	17		1.2	SAA; 67.6-68.0 = well sorted fine sand, some silt, brownish yellow, dense, wet	
68					
	18		1.2	SAA but light gray, 69.8-70.0 = brownish yellow	
70					
	19		0.8	well sorted fine subangular sand, some silt, light brownish gray, dense, wet	

WESTON SOLUTIONS, INC. | Drilling/Lithologic Log | PAGE 3 OF 4

Job Name	Blades, Delaware	Boring No.	SEGW-18	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-30-18	Drilling Method	Mud Rotary		
Drilling Co.	Talon Drilling Co.	Completion Depth	96 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
		N/A			N/A
72	20		1.2	SAA 73.2-74.0 ft yellowish red soft clay and fine subangular sand, medium plasticity, wet	
74	21		1.4	well sorted fine subangular sand, some silt, dense, wet light yellowish red, 1" thick layer of light gray soft high plasticity clay @ 75.2'	
76	22		0.8	reddish brown well sorted fine sand, some silt, subangular, dense, wet	
78	23		0.8	well sorted fine sand, some silt, dense, wet, medium brownish gray, becomes reddish yellow @ 79.6'	
80	24		0.6	SAA, becomes pinkish red @ 81.6'	
82	25		0.6	SAA	
84	26		0.6	reddish brown well sorted subangular fine sand, some silt, very dense, wet	
86	27		0.6	SAA	
88	28		0.6	SAA, very dense	
90					

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 4 OF 4	
Job Name	Blades, Delaware	Boring No.	SFGW-18	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-30-2018	Drilling Method	Mud Rotary		
Drilling Co.	Talon Drilling Co.	Completion Depth	96 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
90		N/A			N/A
	29		0.6	SAA	
92					
	30		1.0	SAA	
94					
	31		0.8	SAA, yellowish red mottling	
96					
				End of Boring @ 96'	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 1 OF 2
Job Name	Blades, Delaware	Boring No.	SSGW-19	Groundwater Levels
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date / Depth
Date Drilled	8-24-2008	Drilling Method	HSA	
Drilling Co.	Talon Drilling Co.	Completion Depth	22 (ft bgs)	
Drill Foreman	Ex. 4 CBI	Location	Blades, DE	
Logged By		Drill Rig Type	Mobile B-59	

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Foot	Visual Description	Field Instrument Readings
				Gross Surface	
	1	N/A	1.6	Medium grayish brown well sorted fine subangular sand, some silt, some subangular fine gravel, loose, moist ~~reddish~~ 0.6-2.0: reddish brown well sorted fine subangular sand, loose, moist	N/A
2					
	2		1.0	SAA, grades to light yellowish brown	
4					
	3		1.6	light yellowish brown well sorted subangular fine sand, little silt, loose, moist	
6					
	4		1.7	SAA	
8					
	5		1.6	very light gray well sorted fine sand, subangular, trace silt, loose, moist, reddish yellow mottling	
10					
	6		2.0	SAA, grades to subangular medium sand, subangular, trace silt, loose, wet @ ~11'	
12					
	7		0.6	SAA	
14					
	8		1.2	light to medium gray poorly sorted f-c subangular sand, some silt, some f-c subrounded gravel, firm, wet, trace reddish yellow mottling	
16					
	9		1.8	SAA	
18					
	10		1.3	light gray poorly sorted f-c subangular sand, little silt, loose, wet; 19.0-20.0 = light gray well sorted fine subangular sand, loose, wet, trace silt	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 2 OF 2	
Job Name	Blades, Delaware	Boring No.	SFGW-19	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-24-2018	Drilling Method	HSA		
Drilling Co.	Talon Drilling Co.	Completion Depth	22 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
		N/A			N/A
20					
	11		0.4	SAA	
22					
				End of Boring @ 22'	

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 1 OF 5	
Job Name	Blades, Delaware	Boring No.	SLGW-20	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-31-2018	Drilling Method	Mud Rotary		
Drilling Co.	Talon Drilling Co.	Completion Depth	76 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Grass Surface

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec.	Visual Description	Field Instrument Readings
	1	BDE-SO-02 @ 1245	0.6	Dark gray well sorted fine sand, some silt, moist, loose, ~~random~~ subangular, hollow stem auger to 12' bgs	N/A
2	2		0.6	SAA; 3.0-4.0= reddish yellow well sorted fine sand, some silt, moist, loose, subangular	
4	3		1.0	SAA	
6	4		1.2	SAA	
8	5	BDE-SO-03 @ 1300	1.2	SAA	
10	6		1.6	wet @ 10; light brownish gray well sorted fine sand, some silt, loose, subangular, faint reddish yellow mottling, converted to mud rotary @ 12'	
12	7		1.0	SAA	
14	8		1.6	light brownish gray poorly sorted fine subangular sand and fine subangular gravel, some silt, loose, wet, 15.2-16.0= light gray well sorted fine sand, loose, wet	
16	9		1.0	SAA, 6" of sand/gravel slough	
18	10		1.0	SAA, 6" of sand/gravel slough	

WESTON SOLUTIONS, INC. — **Drilling/Lithologic Log** — PAGE 2 OF 5

Job Name	Blades, Delaware	Boring No.	SB6W-20	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-31-2018	Drilling Method	Mud Rotary		
Drilling Co.	Talon Drilling Co.	Completion Depth	76 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile-B59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
20		N/A			N/A
	11		1.0	light brownish gray f-c subangular sand, little silt, dense wet	
22					
	12		1.0	light yellowish brown f-c subangular sand, some f-c subrounded gravel, some silt, dense, wet	
24					
	13		1.0	SAA	
26					
	14		1.2	light gray well sorted fine subangular sand, some clay, slight plasticity, soft, wet	
28					
	15		0.0	No Recovery	
30					
	16		1.0	light brownish gray poorly sorted f-c subangular sand, some subangular fine gravel, some silt, dense, wet	
32					
	17		0.8	light brownish gray well sorted subangular fine sand, little silt, dense, wet	
34					
	18		0.8	light brownish gray well sorted f-m subangular sand, some silt, trace well rounded fine gravel, dense, wet, 1/8" thick reddish yellow color lamination @ 35.5'	
36					
	19		0.8	Dark gray to light yellowish brown poorly sorted f-c subangular-angular sand, some silt, trace shell fragments very dense, wet	
38					

WESTON SOLUTIONS, INC. — **Drilling/Lithologic Log** — PAGE 3 OF 5

Job Name	Blades, Delaware	Boring No.	SEGW-20	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-31-2018	Drilling Method	Mud Rotary		
Drilling Co.	Talon Drilling Co.	Completion Depth	76 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
38		N/A			N/A
	20		1.2	light brownish gray poorly sorted f-c subangular sand, some well rounded f-c gravel, some silt, dense, wet; 39.6-40.0= light gray well sorted fine subangular sand, dense, wet	
40	21		1.2	light brownish gray poorly sorted f-c subangular sand, some well rounded f-c gravel, some silt, dense, wet; 41.6-42.0= light gray well sorted fine subangular sand, dense, wet	
42	22		0.8	yellow well sorted f-m subangular sand, dense, wet	
44	23		1.0	SAA; 45.6-45.8= Firm clay, high plasticity, reddish yellow to black, wet; 45.8-46.0= light yellowish gray poorly sorted f-c subangular sand, little silt, dense, wet	
46	24		1.2	Dark gray very firm clay, high plasticity, wet	
48	25		0.8	SAA	
50	26		0.6	SAA medium firm	
52	27		0.2	SAA	
54	28		2.0	SAA	
56					

WESTON SOLUTIONS, INC. Drilling/Lithologic Log PAGE 4 OF 5

Job Name	Blades, Delaware	Boring No.	SSGW-20	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	10-31-18	Drilling Method	Mud Rotary		
Drilling Co.	Talon Drilling Co.	Completion Depth	76 (ft bgs)		
Drill Foreman		Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-57		

Ex. 4 CBI

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings	
56		N/A			N/A	
	29		2.0	SAA		
58						
	30		2.0	SAA		
60						
	31		2.0	SAA; 61.8-62.0 = reddish yellow high plasticity clay, firm, little fine subangular sand, wet		
62						
	32		0.2	yellowish red well sorted medium sand, subangular, some silt, dense, wet		S
64						
	33		0.8	SAA		
66						
	34		0.6	SAA		
68				SAA; 69.6-70.0 = light brownish yellow soft clay, high plasticity, wet		C
	35		1.2			
70						
	36		0.0	No recovery, circulation loss		HP
72						
	37		1.8	Dark gray soft high plasticity clay some very fine sand, wet		C
74						

WESTON SOLUTIONS, INC.		Drilling/Lithologic Log		PAGE 5 OF 5	
Job Name	Blades, Delaware	Boring No.	SE GW-20	Groundwater Levels	
Job No.	30250.012.003.0207.00	Well Type	Monitoring	Date	Depth
Date Drilled	11-1-2018	Drilling Method	Mud Rotary		
Drilling Co.	Talon Drilling Co.	Completion Depth	76 (ft bgs)		
Drill Foreman	Ex. 4 CBI	Location	Blades, DE		
Logged By		Drill Rig Type	Mobile B-59		

Depth ft BGS	Sample No.	Sample Interval Collected	% Rec. Feet	Visual Description	Field Instrument Readings
		N/A			N/A
74			1.4	SAA	
	38				
76				End of boring @ 76'	
	39				
78					
	40				
80					
	41				
82					
	42				
84					
	43				
86					
	44				
88					
	45				
90					
	46				
92					