

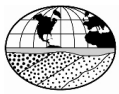
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: B-1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/21/19 - 2/21/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 245.5	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
245.5					Topsoil = 2 in.				
245.3					Alluvial, light brown-orange, fine, SANDY LEAN CLAY, stiff, moist, CL	12	1+5+4+3	18	
241.5	5		B1		Contains quartz	11	2+3+5+5	22	
239.5					Alluvial, gray-orange, fine, SANDY FAT CLAY, stiff, moist, CH	9	2+3+4+4	19	
237.5					Alluvial, orange-pink, medium to coarse, WELL GRADED SAND WITH GRAVEL, dense, moist, SW	9	2+3+4+13	23	
235.5	10		B2		Alluvial, green-gray, FAT CLAY, firm, moist, CH	31	6+12+11+3	17	
233.5					Stiff	7	2+2+3+3	22	
	15		B1			9	2+3+4+5	22	
						9	2+3+4+5	24	
227.0	20				Alluvial, green-gray, fine to medium, CLAYEY SAND, loose, moist, SC	5	2+2+2	5	
	25		B2			5	1+2+2	18	
	30				Bottom of Borehole at 30.0 ft.	5	1+2+2	18	
215.5									
	35								
	40								

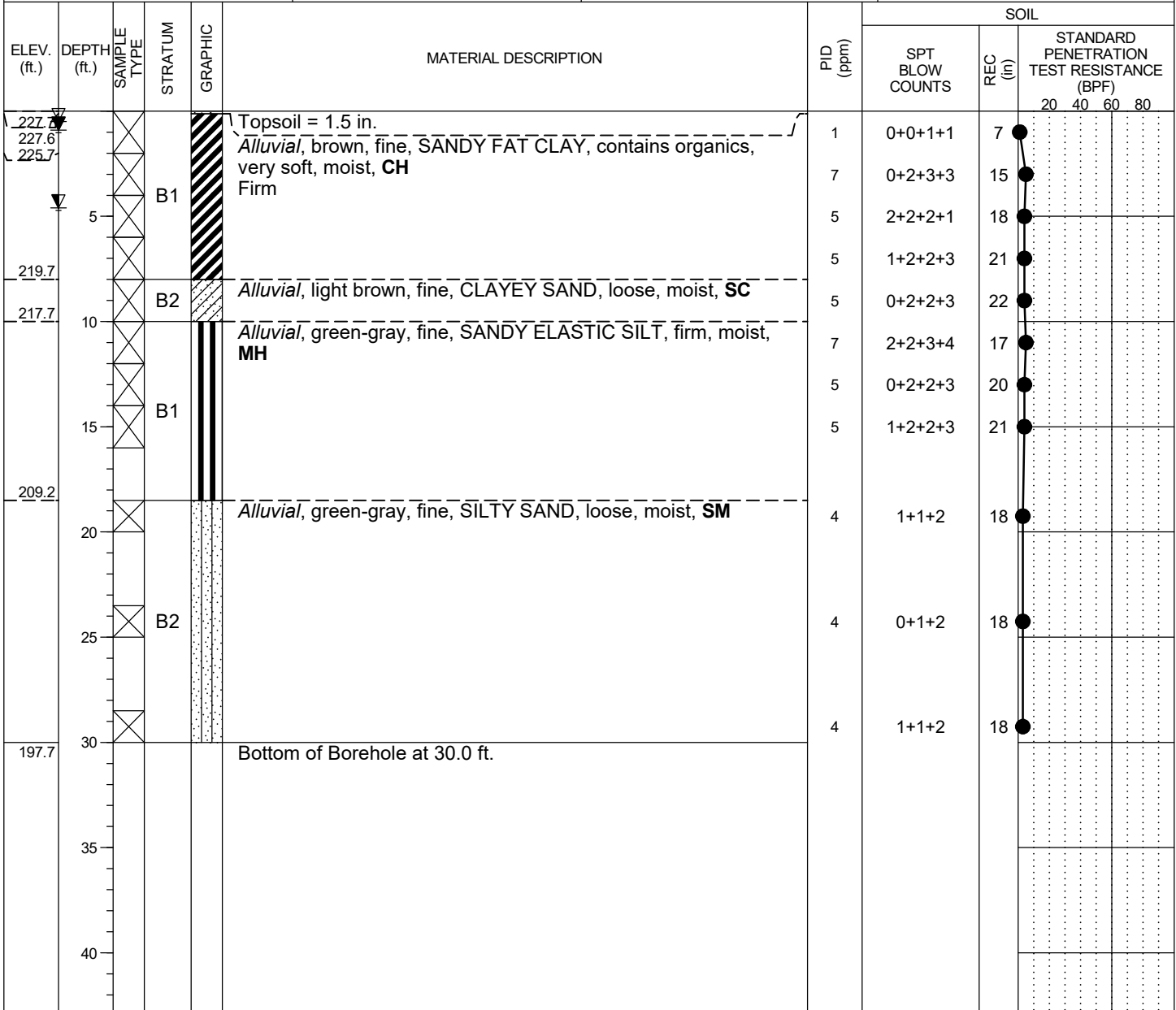
GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	9.0	ft.	ELEV.	236.5	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	8.5	ft.	ELEV.	237.0			
2/22/2019	3.1	ft.	ELEV.	242.4			
			CAVED:	27.7	ft.	ELEV.	217.8
			CAVED:	8.6	ft.	ELEV.	236.9

REMARKS: Latitude: 38.79010°
Longitude: -76.86249°
Offset 69 ft E into treeline.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



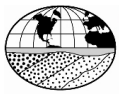
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis	BORING NUMBER: B-2 SHEET 1 OF 1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates	
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman	DATES DRILLED: 2/5/19 - 2/5/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 227.7	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer	DRILL RIG: CME 55



GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	0.5	ft.	ELEV.	227.2	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	4.6	ft.	ELEV.	223.1			
2/6/2019 11:49:04 AM	0.9	ft.	ELEV.	226.8			
			CAVED:	18.2	ft.	ELEV.	209.5
			CAVED:	17.3	ft.	ELEV.	210.4

REMARKS: Latitude: 38.79010°
Longitude: -76.86116°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



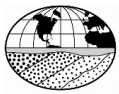
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: B-3
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman	DATES DRILLED: 2/6/19 - 2/7/19	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 245.2	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer	DRILL RIG: CME 55	

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
245.2			B1		Topsoil = 1 in.	5	1+2+2+1	11	
245.1					<i>Alluvial</i> , brown, fine, SANDY LEAN CLAY WITH GRAVEL, firm, moist, CL	1	0+0+1+1	11	
243.2					<i>Alluvial</i> , brown, fine to medium, CLAYEY SAND, very loose, moist, SC	7	1+2+3+3	10	
241.2	5		B2		<i>Alluvial</i> , brown-orange, fine, POORLY GRADED SAND, loose, moist, SP	16	5+6+6+6	5	
239.2					<i>Alluvial</i> , brown, fine to medium, CLAYEY SAND, medium dense, moist, SC	5	0+2+2+2	17	
237.2	10				Orange, fine, loose	4	1+1+2+2	17	
233.2			B1		<i>Alluvial</i> , orange-gray, SANDY FAT CLAY, soft, moist, CH	3	0+1+1+1	24	
231.2	15				<i>Alluvial</i> , green-gray, fine, CLAYEY SAND, very loose, moist, SC	1	0+0+1+2	24	
227.2			B2		Loose	4	1+1+2	18	
221.7	20								
					<i>Alluvial</i> , green-gray, SANDY FAT CLAY, firm, moist, CH	5	1+2+2	18	
	25		B1						
						8	1+3+3	18	
215.2	30				Bottom of Borehole at 30.0 ft.				
	35								
	40								

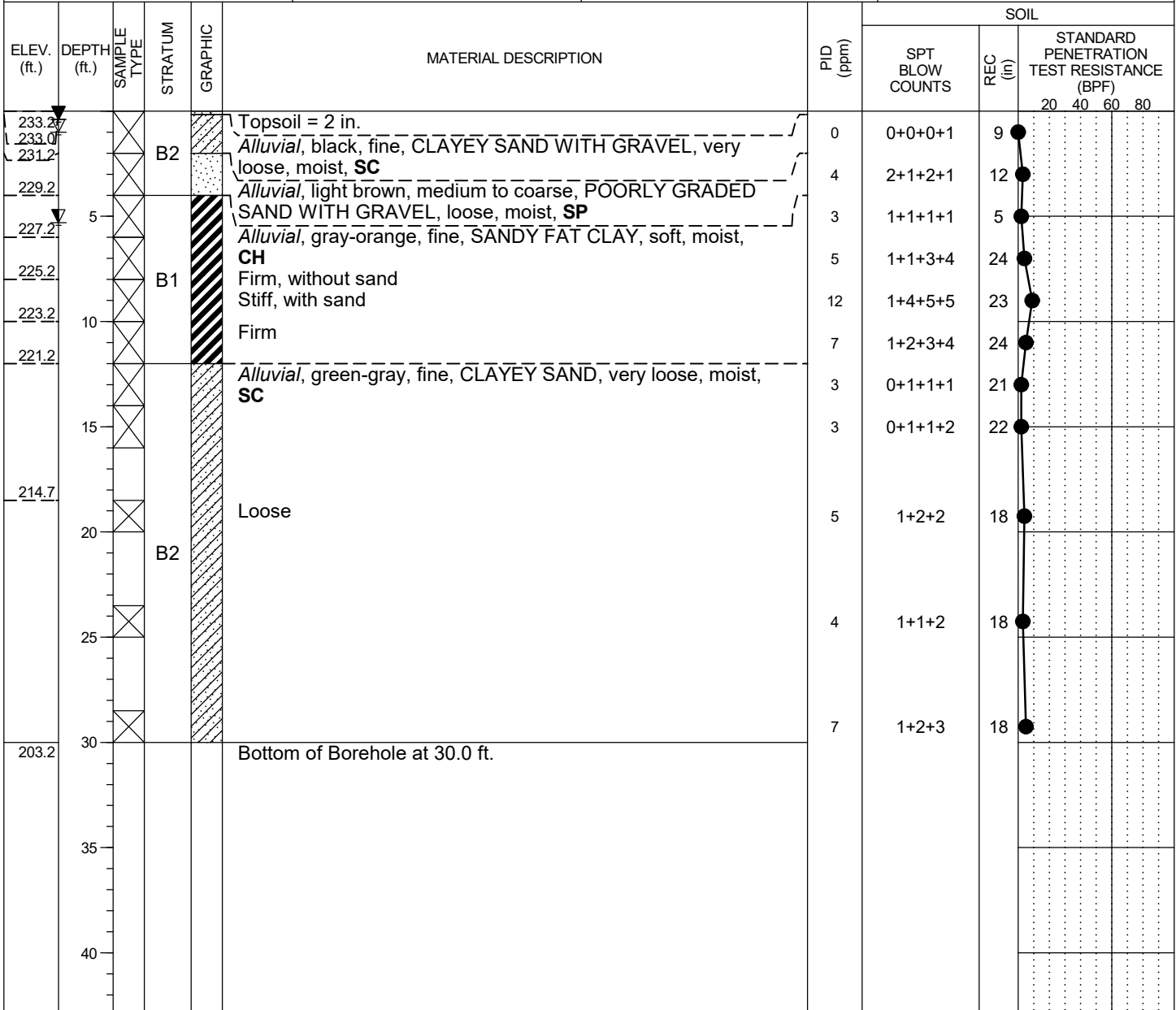
GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	2.5	ft.	ELEV.	242.7	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	3.5	ft.	ELEV.	241.7			
2/8/2019	2.2	ft.	ELEV.	243.0			
			CAVED:	22.9	ft.	ELEV.	222.3
			CAVED:	5.3	ft.	ELEV.	239.9

REMARKS: Latitude: 38.79004°
Longitude: -76.85971°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



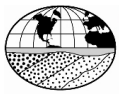
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: B-4
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/6/19 - 2/6/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 233.2	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	1.0	ft.	ELEV.	232.2	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	5.3	ft.	ELEV.	227.9			
2/7/2019 11:20:50 AM	0.4	ft.	ELEV.	232.8			
			CAVED:	28.2	ft.	ELEV.	205.0
			CAVED:	27.4	ft.	ELEV.	205.8

REMARKS: Latitude: 38.78952°
Longitude: -76.86252°
Offset 110 ft E due to base groundwater monitoring well.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



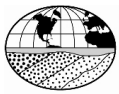
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: B-5
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/5/19 - 2/5/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 234.3	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)	MC (%)
234.3					Topsoil = 3 in.					
234.1			B2		Alluvial, brown, medium, CLAYEY SAND WITH GRAVEL, loose, moist, SC	8	1+3+3+3	19		
232.3					Medium dense	13	5+6+4+4	15		
230.3			B1		Alluvial, brown-orange, SANDY FAT CLAY, firm, moist, CH	7	3+2+3+3	7		
228.3	5		B2		Alluvial, light brown-orange, fine, CLAYEY SAND, loose, moist, SC	5	2+2+2+2	24		
226.3					Alluvial, light gray-orange, SANDY SILT, soft, moist, ML	4	0+2+1+1	11		41.9
224.3	10				Alluvial, gray-orange, SANDY FAT CLAY, soft, moist, CH	4	1+2+1+1	19		
222.3					Green-gray	4	1+1+2+2	15		
	15					4	1+2+1+1	14		
215.8			B1		Alluvial, dark gray, SANDY FAT CLAY, soft, moist, CH	4	0+1+2	14		49.1
210.8	20				Firm	7	2+2+3	18		
	25									
204.3	30				Bottom of Borehole at 30.0 ft.	4	0+1+2	18		
	35									
	40									

GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	10.0	ft.	ELEV.	224.3	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	9.0	ft.	ELEV.	225.3			
2/6/2019 11:49:23 AM	7.4	ft.	ELEV.	226.9			
			CAVED:	11.5	ft.	ELEV.	222.8
			CAVED:	11.4	ft.	ELEV.	222.9

REMARKS: Latitude: 38.78954°
Longitude: -76.86113°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



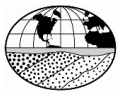
PROJECT: JBA HCP & EOD				LOGGED BY: K. Davis		BORING NUMBER: B-6	
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Connelly & Associates			
OWNER/CLIENT: Wiley Wilson				DRILLER: J. Leatherman		DATES DRILLED: 2/7/19 - 2/8/19	
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 257.7		DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55	

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
257.7					Topsoil = 2 in.				
257.5			B1		Alluvial, brown, fine, FAT CLAY WITH SAND, soft, moist, CH	3	0+1+1+1	16	
255.7					Alluvial, brown, fine, SANDY LEAN CLAY, very stiff, moist, CL	24	5+8+10+11	21	
253.7	5				Contains quartz	27	5+9+11+16	14	
251.7			B2		Alluvial, gray-pink, fine, CLAYEY SAND, medium dense, moist, SC	25	6+8+11+19	17	
249.7					Alluvial, gray-pink and white, medium, POORLY GRADED SAND WITH GRAVEL, very dense, moist, SP	67	11+50/6	9	
247.7	10				Alluvial, light gray and light brown, fine to coarse, CLAYEY SAND WITH GRAVEL, very dense, moist, contains quartz, SC	60	9+20+25+31	15	
245.7					Alluvial, light brown and white, medium to coarse, POORLY GRADED SAND WITH GRAVEL, moist, contains quartz, SP	79	5+29+30+29	12	
243.7	15				Dense	49	7+21+16+15	13	
					Loose, wet				
239.2	20		B1			4	3+2+1	7	
234.2						3	1+1+1	16	
229.2	25				Very soft	0	0+0+0	18	
227.7	30				Bottom of Borehole at 30.0 ft.				

GROUND WATER LEVELS:				SAMPLE TYPES:	
ENCOUNTERED: <u>18.0</u> ft. ELEV. <u>239.7</u> NOT ENCOUNTERED UPON COMPLETION 2/14/2019: NOT ENCOUNTERED				<input checked="" type="checkbox"/> SPT	
CAVED: <u>12.8</u> ft. ELEV. <u>244.9</u> CAVED: <u>14.5</u> ft. ELEV. <u>243.2</u>					

REMARKS: Latitude: 41.33430°
 Longitude: -80.28716°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



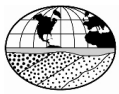
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: B-7
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/6/19 - 2/6/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 217.2	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)	MC (%)
217.2	0				Topsoil = 2.5 in.					
217.0	0.2		B2		Alluvial, brown, fine to coarse, CLAYEY SAND, very loose, wet, SC	3	1+1+1+1	11		
215.2	2.0					3	0+1+1+1	3		
213.2	4.0		B1		Brown-orange, medium, moist					
211.2	6.0				Alluvial, light gray, SANDY LEAN CLAY, soft, moist, CL	3	0+1+1+1	9		35.3
209.2	8.0				Very soft	1	0+0+1+2	19		
207.2	10.0				Alluvial, dark gray, CLAYEY SAND, loose, moist, SC	4	1+1+2+2	21		48.2
205.2	12.0					5	1+2+2+1	24		
203.2	14.0				Very loose	1	0+0+1+1	24		
198.7	19.0		B2		Alluvial, light orange, fine, SILTY SAND, loose, moist, SM	5	1+2+2	18		46.1
193.7	24.0				Green-gray	5	1+2+2	18		
187.2	30.0				Bottom of Borehole at 30.0 ft.	4	1+1+2	18		

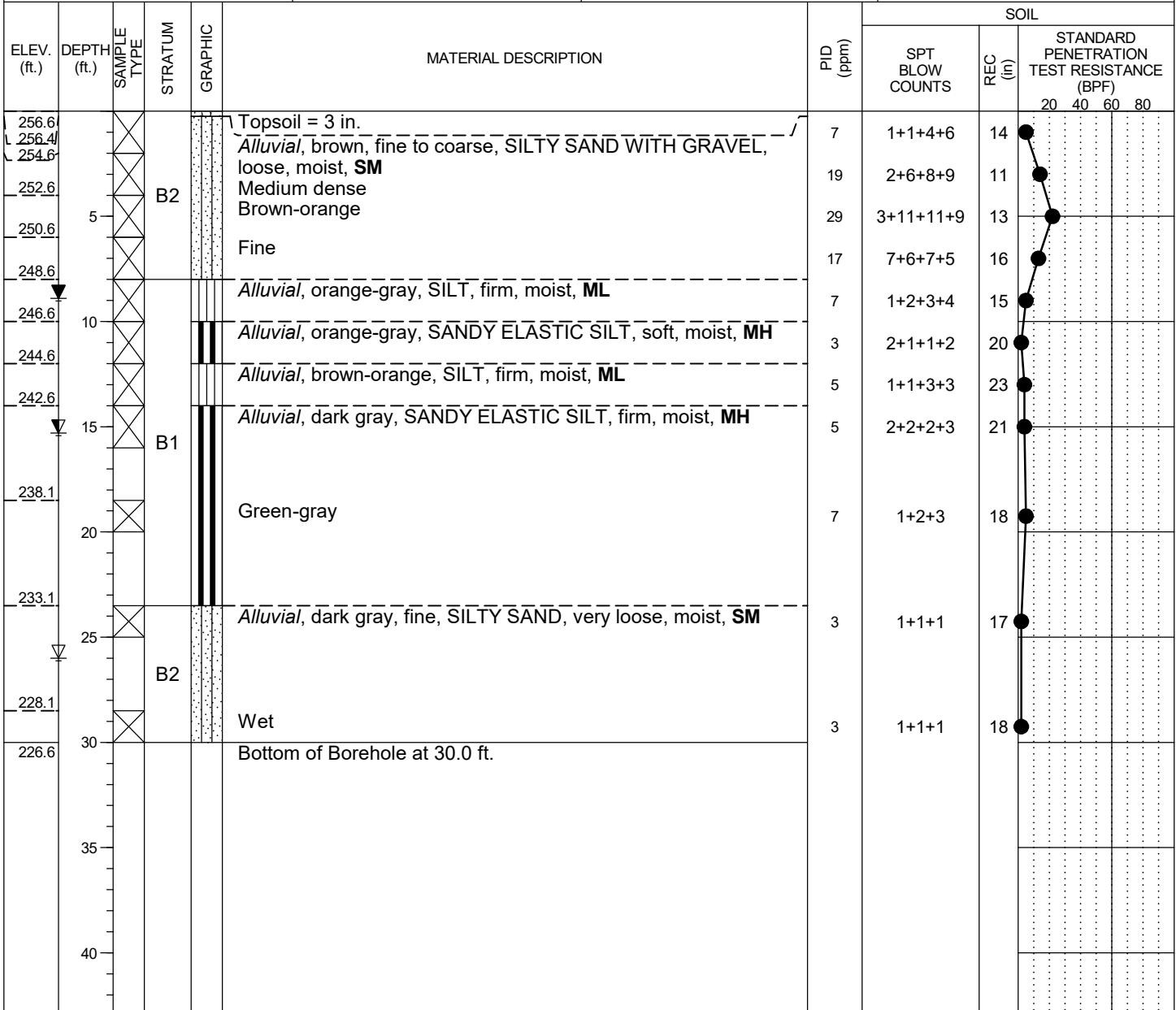
GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	4.0 ft. ELEV. 213.2	<input checked="" type="checkbox"/> SPT	
UPON COMPLETION:	1.1 ft. ELEV. 216.1		
2/7/2019 11:20:24 AM	0.9 ft. ELEV. 216.3		
CAVED: 27.5 ft. ELEV. 189.7			
CAVED: 18.7 ft. ELEV. 198.5			

REMARKS: Latitude: 38.78891°
Longitude: -76.86255°
Offset 50 ft NE due to perimeter fence and excessively soft ground.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



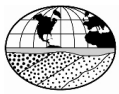
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: B-8
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/5/19 - 2/6/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 256.6	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



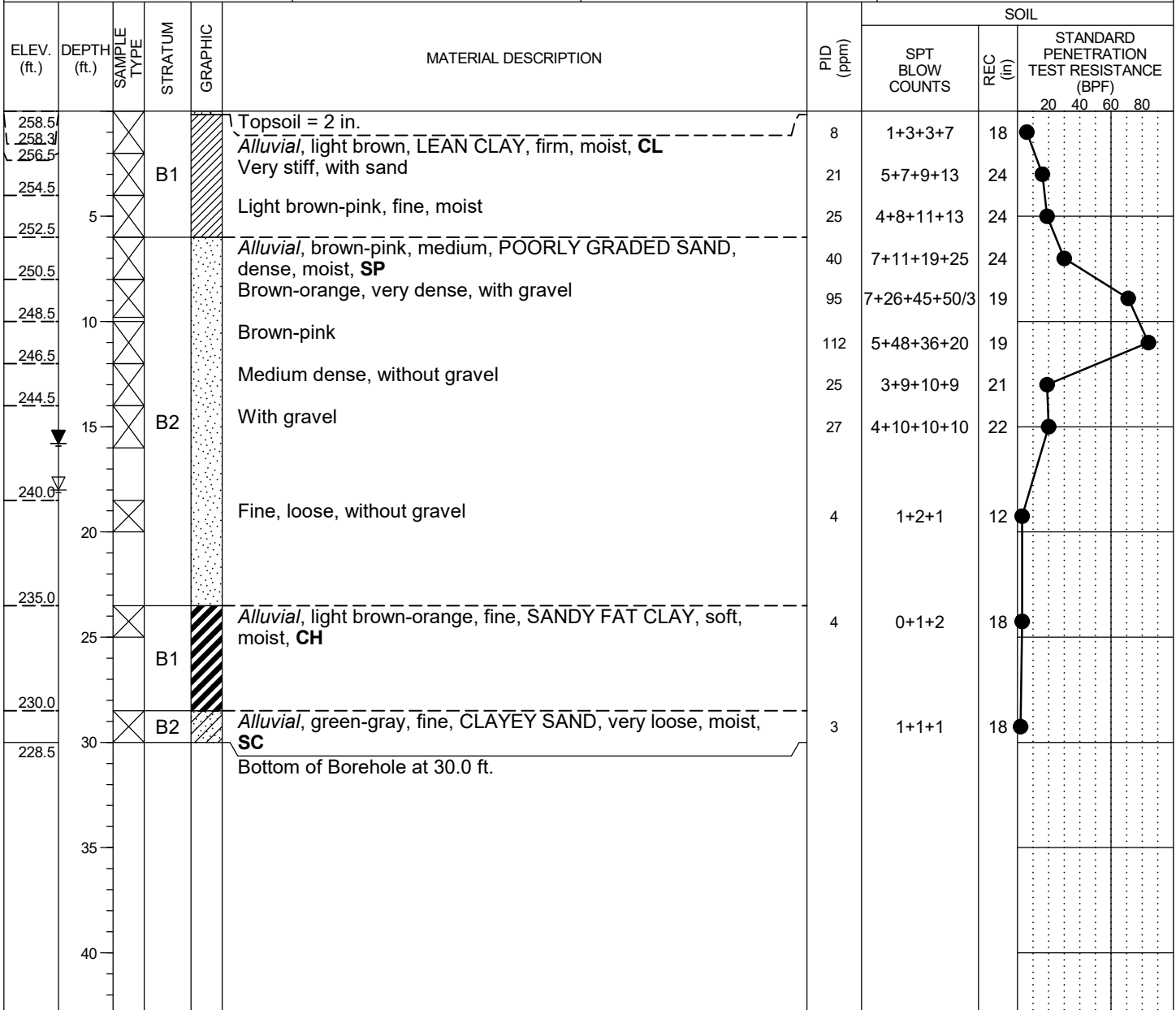
GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	26.0	ft.	ELEV.	230.6	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	15.3	ft.	ELEV.	241.3			
2/7/2019 11:19:57 AM	8.9	ft.	ELEV.	247.7			
			CAVED:	16.1	ft.	ELEV.	240.5
			CAVED:	15.8	ft.	ELEV.	240.8

REMARKS: Latitude: 38.7889634°
Longitude: -76.8616646°
Offset 37 ft NE to avoid the perimeter fence.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



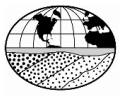
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: B-9
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/4/19 - 2/4/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 258.5	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



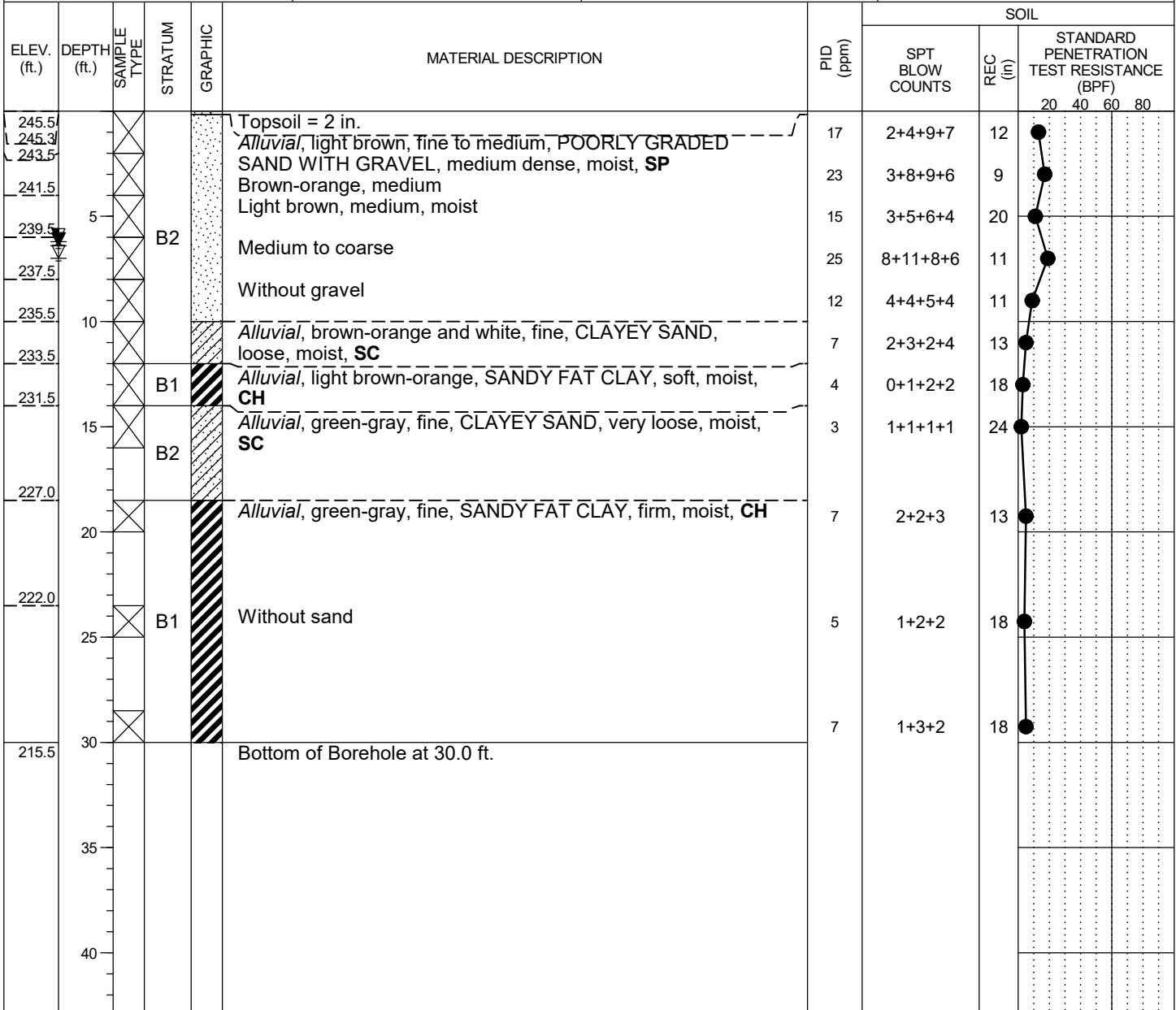
GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	18.0	ft.	ELEV.	240.5	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	15.8	ft.	ELEV.	242.7			
2/5/2019 10:33:35 AM	15.8	ft.	ELEV.	242.7			
			CAVED:	16.3	ft.	ELEV.	242.2
			CAVED:	16.3	ft.	ELEV.	242.2

REMARKS: Latitude: 38.78914°
Longitude: -76.85933°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



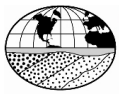
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: BC-1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/4/19 - 2/4/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 245.5	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



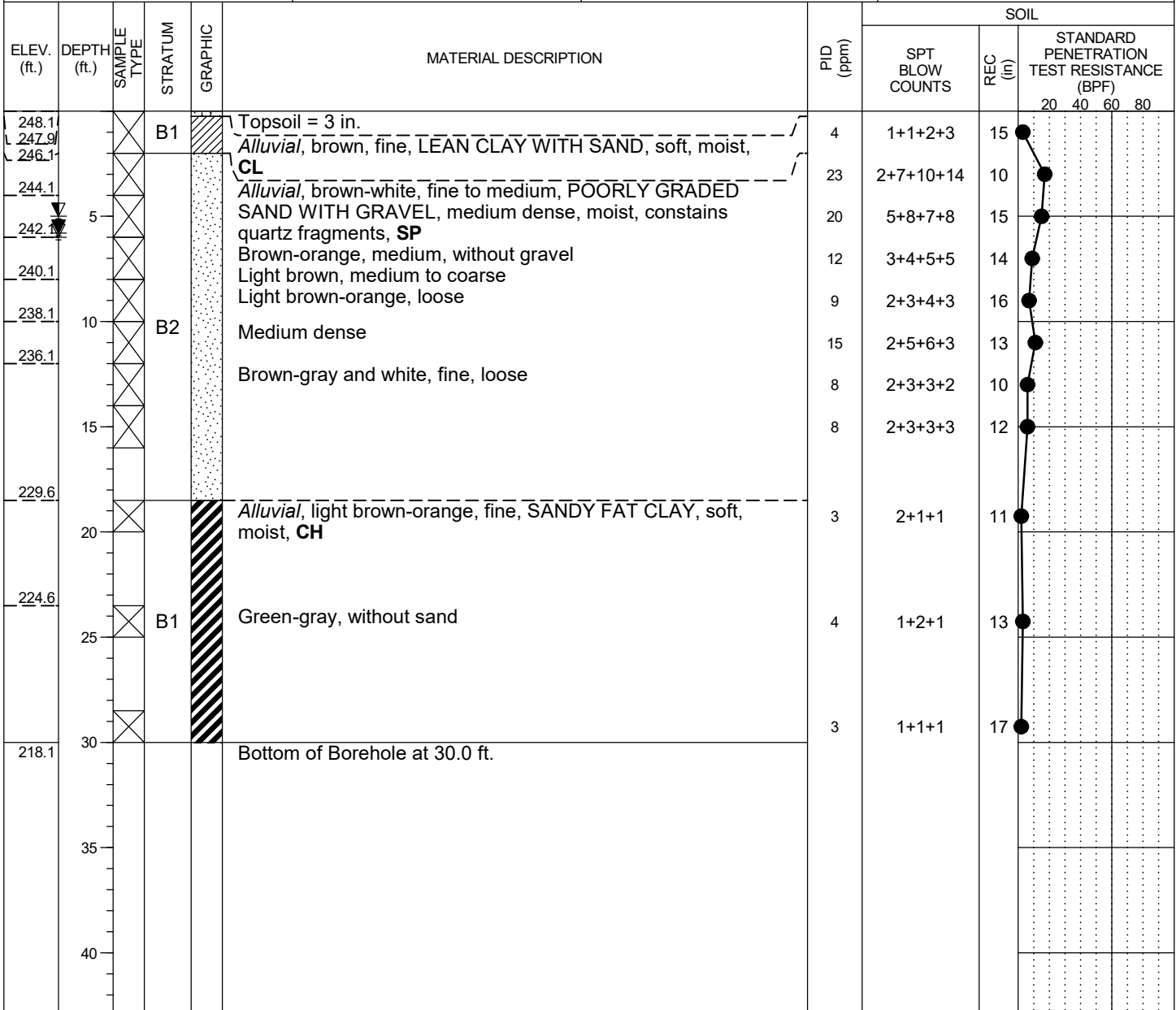
GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	7.0	ft.	ELEV.	238.5	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	6.2	ft.	ELEV.	239.3			
2/5/2019 10:34:15 AM	6.4	ft.	ELEV.	239.1			
			CAVED:	8.5	ft.	ELEV.	237.0
			CAVED:	7.5	ft.	ELEV.	238.0

REMARKS: Latitude: 38.78905°
Longitude: -76.86060°
Offset 43 ft NW to avoid perimeter fence.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



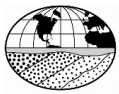
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: BC-2
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/4/19 - 2/4/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 248.1	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



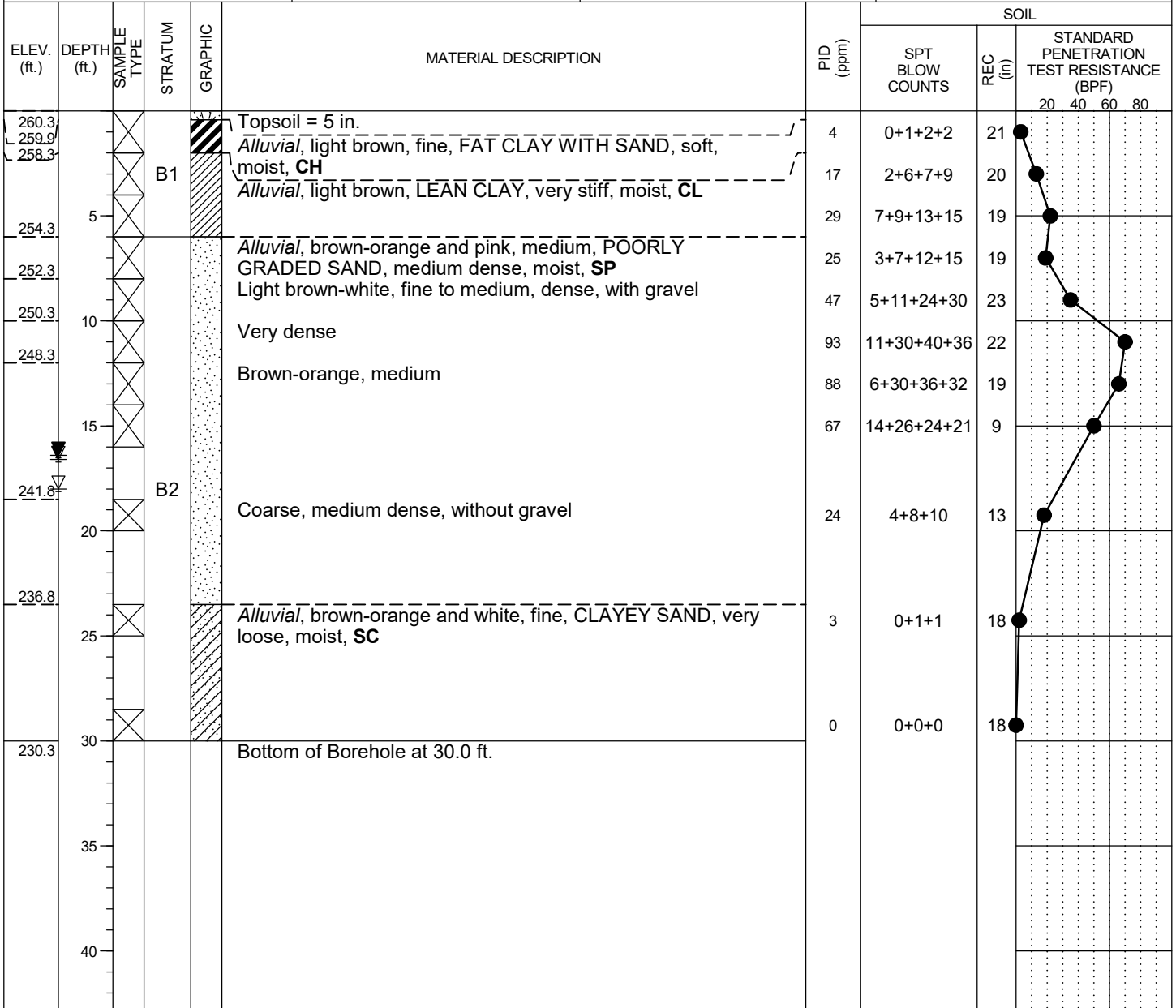
GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	6.0	ft.	ELEV.	242.1	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	5.0	ft.	ELEV.	243.1			
2/5/2019 10:33:54 AM	5.8	ft.	ELEV.	242.3			
			CAVED:	5.8	ft.	ELEV.	242.3
			CAVED:	5.9	ft.	ELEV.	242.2

REMARKS: Latitude: 38.78904°
Longitude: -76.86007°
Offset 40 ft NW to avoid perimeter fence.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



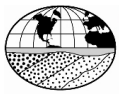
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: BC-3
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/4/19 - 2/4/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 260.3	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



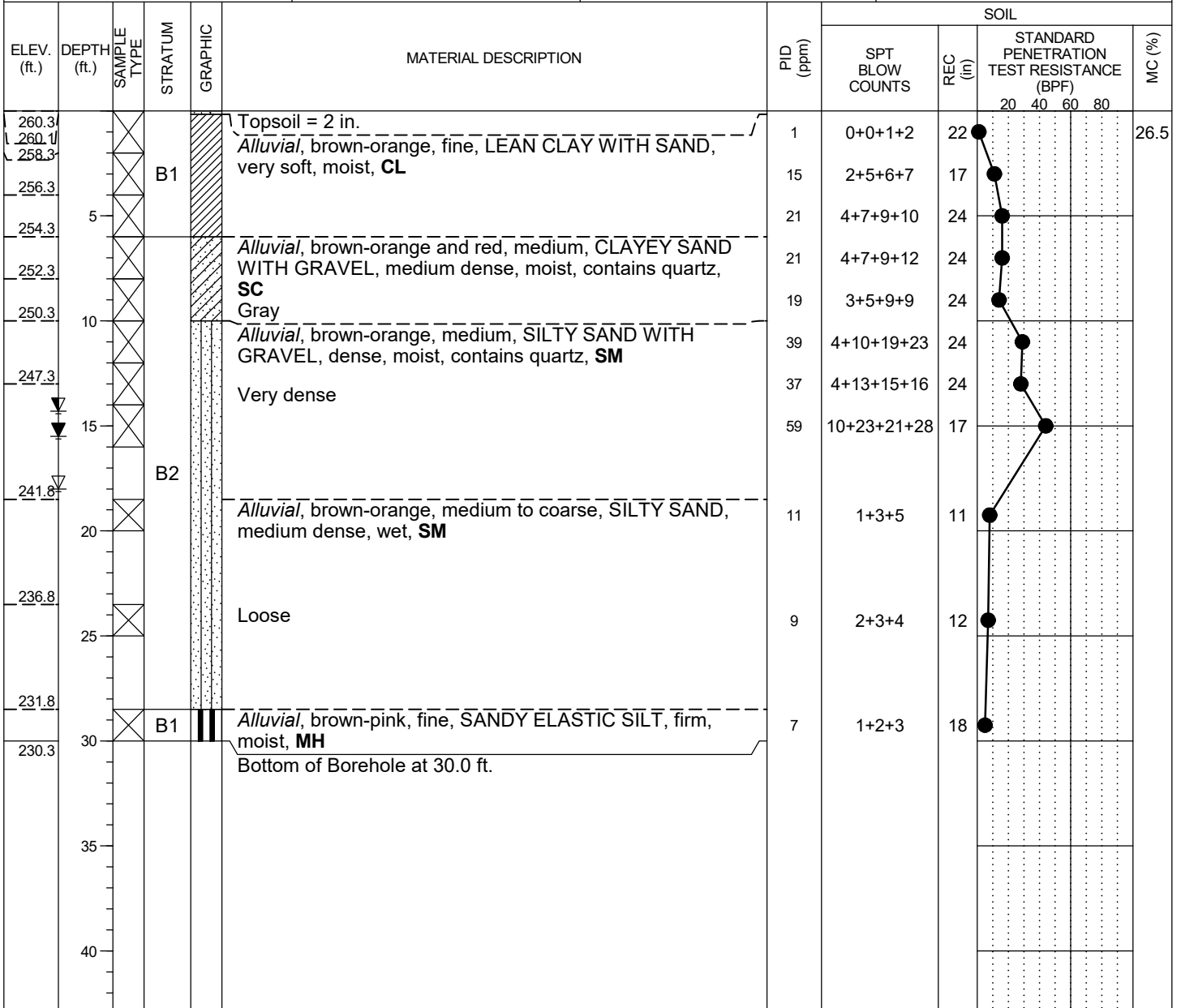
GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	18.0	ft.	ELEV.	242.3	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	16.6	ft.	ELEV.	243.7			
2/5/2019 10:33:12 AM	16.4	ft.	ELEV.	243.9			
			CAVED:	16.6	ft.	ELEV.	243.7
			CAVED:	16.9	ft.	ELEV.	243.4

REMARKS: Latitude: 38.78910°
Longitude: -76.85869°
Offset 21 ft NE to avoid perimeter fence.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



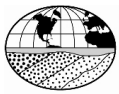
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: BC-4
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman	DATES DRILLED: 2/1/19 - 2/1/19	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 260.3	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer	DRILL RIG: CME 55	



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED: 18.0 ft. ELEV. 242.3		SPT	
UPON COMPLETION: 14.3 ft. ELEV. 246.0	CAVED: 16.1 ft. ELEV. 244.2		
2/4/2019 15.5 ft. ELEV. 244.8	CAVED: 16.0 ft. ELEV. 244.3		

REMARKS: Latitude: 38.78919°
Longitude: -76.85808°
Offset 53 ft NW to avoid MSA fence. Collected bulk sample from 0'-5'.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



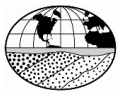
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis	BORING NUMBER: EOD-1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates	
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman	DATES DRILLED: 2/7/19 - 2/7/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 261.7	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer	DRILL RIG: CME 55

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
261.7 261.6					Topsoil = 1 in. Alluvial, brown, medium, CLAYEY SAND, loose, moist, SC	5	1+2+2+2	12	
257.7 255.7	5		B2		Alluvial, orange, fine, POORLY GRADED SAND, medium dense, moist, SP Orange-gray	8 13	1+2+4+6 2+4+6+6	14 16	
253.7 251.7	10		B1		Alluvial, orange-gray, SANDY FAT CLAY, firm, moist, CH Soft	13 7	2+5+5+5 2+2+3+3	14 20	
249.7 247.7	15		B2		Alluvial, green-gray, fine, CLAYEY SAND, very loose, moist, SC Loose	4 1	1+1+2+3 0+0+1+1	19 23	
243.2	20					4	1+1+2+1	24	
238.2	25		B1		Alluvial, green-gray, fine, FAT CLAY WITH SAND, soft, moist, CH Without sand	4	0+1+2	18	
233.2	30				With sand	4	0+1+2	18	
231.7	30				Bottom of Borehole at 30.0 ft.				

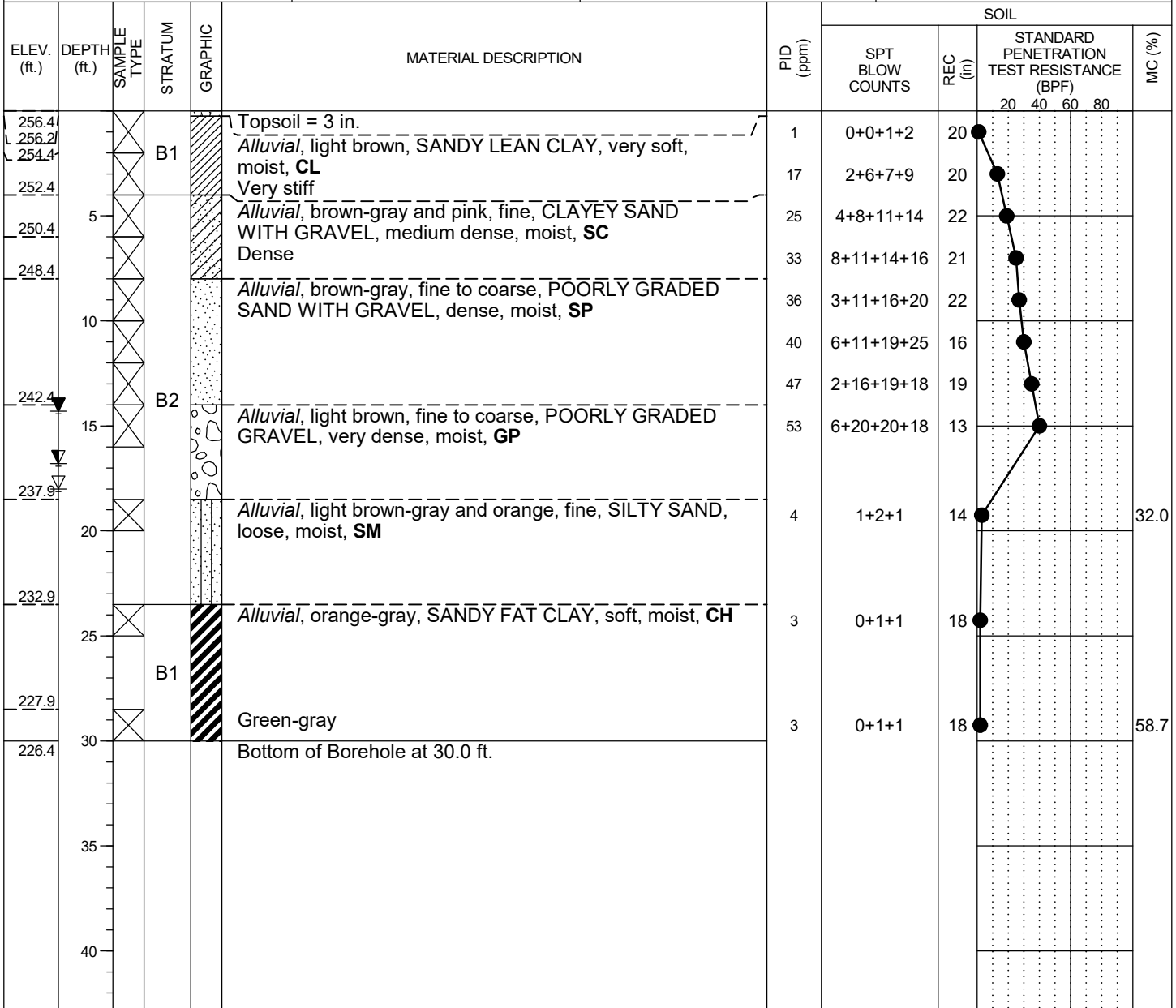
GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED: 1.0 ft. ELEV. 260.7		<input checked="" type="checkbox"/> SPT	
UPON COMPLETION: 5.2 ft. ELEV. 256.5	CAVED: 7.0 ft. ELEV. 254.7		
2/8/2019 12:15:00 PM 0.3 ft. ELEV. 261.4	CAVED: 2.7 ft. ELEV. 259.0		

REMARKS: Latitude: 38.78994°
Longitude: -76.86025°
Offset 3 ft NE due to soft ground and debris.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



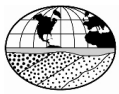
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: EOD-2
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman	DATES DRILLED: 2/8/19	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 256.4	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer	DRILL RIG: CME 55	



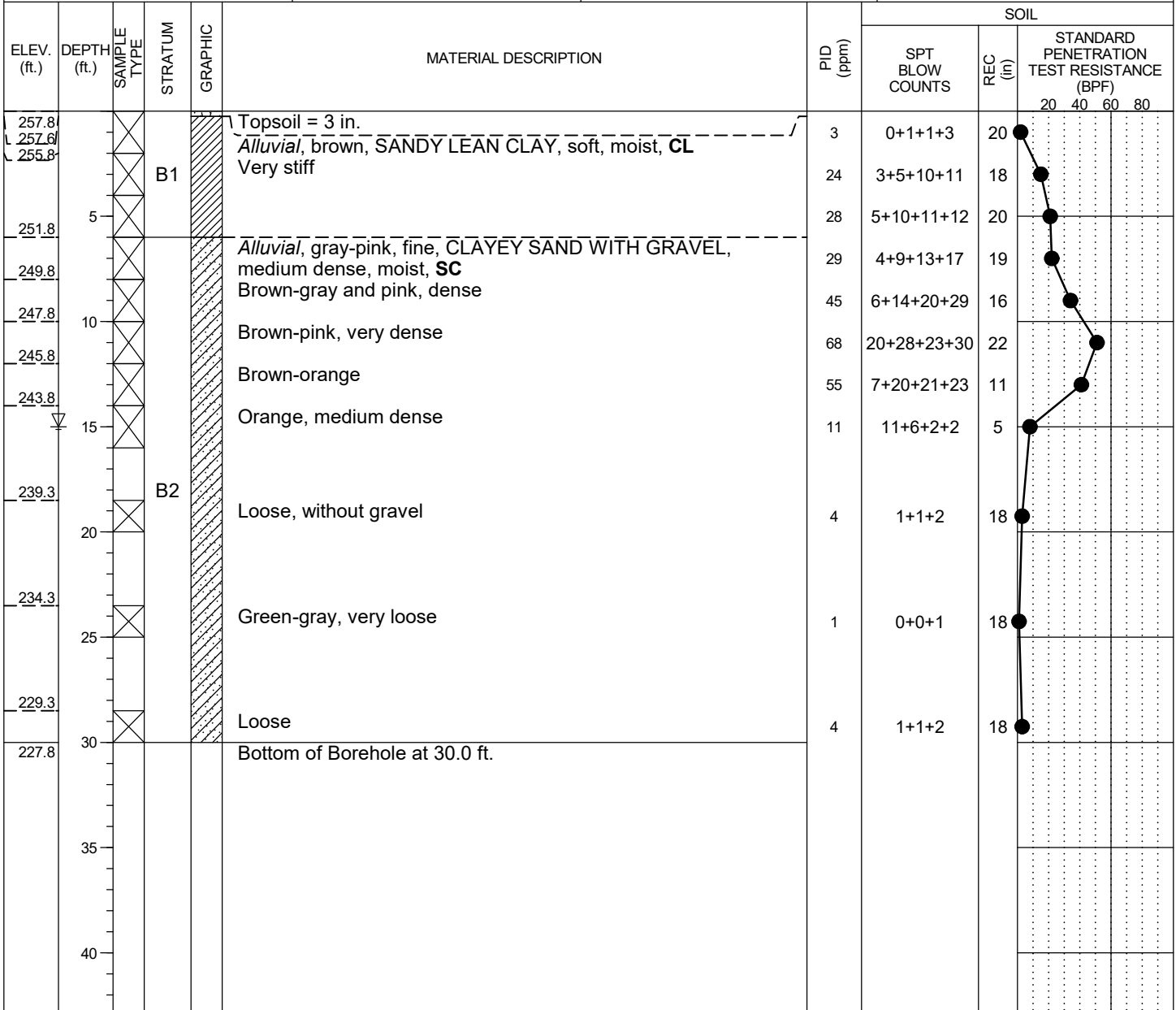
GROUND WATER LEVELS:				SAMPLE TYPES:	
ENCOUNTERED:	18.0	ft.	ELEV. 238.4		SPT
UPON COMPLETION:	16.8	ft.	ELEV. 239.6		
2/13/2019 12:15:53 PM	14.3	ft.	ELEV. 242.1		

REMARKS: Latitude: 38.79046°
Longitude: -76.85973°
Offset 4 ft SE due to soft ground and debris.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



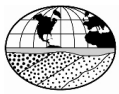
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: FT-1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/8/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 257.8	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



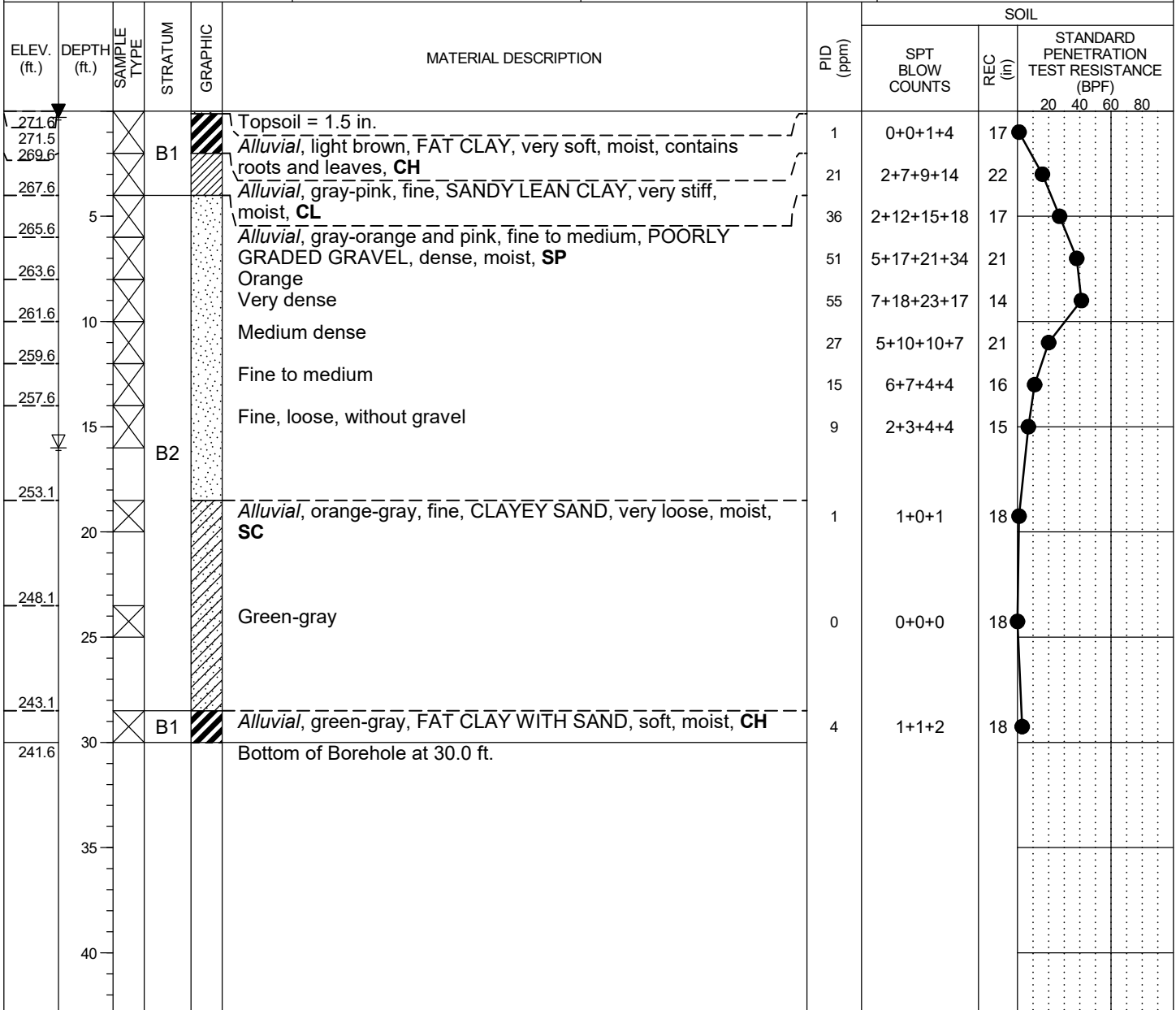
GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED: <u>15.0</u> ft. ELEV. <u>242.8</u> NOT ENCOUNTERED UPON COMPLETION 2/13/2019 12:15:13 PM: NOT ENCOUNTERED		<input checked="" type="checkbox"/> SPT	
CAVED: <u>12.6</u> ft. ELEV. <u>245.2</u> CAVED: <u>12.3</u> ft. ELEV. <u>245.5</u>			

REMARKS: Latitude: 38.79028°
Longitude: -76.85941°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



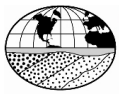
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: FT-2
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/7/19 - 2/7/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 271.6	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



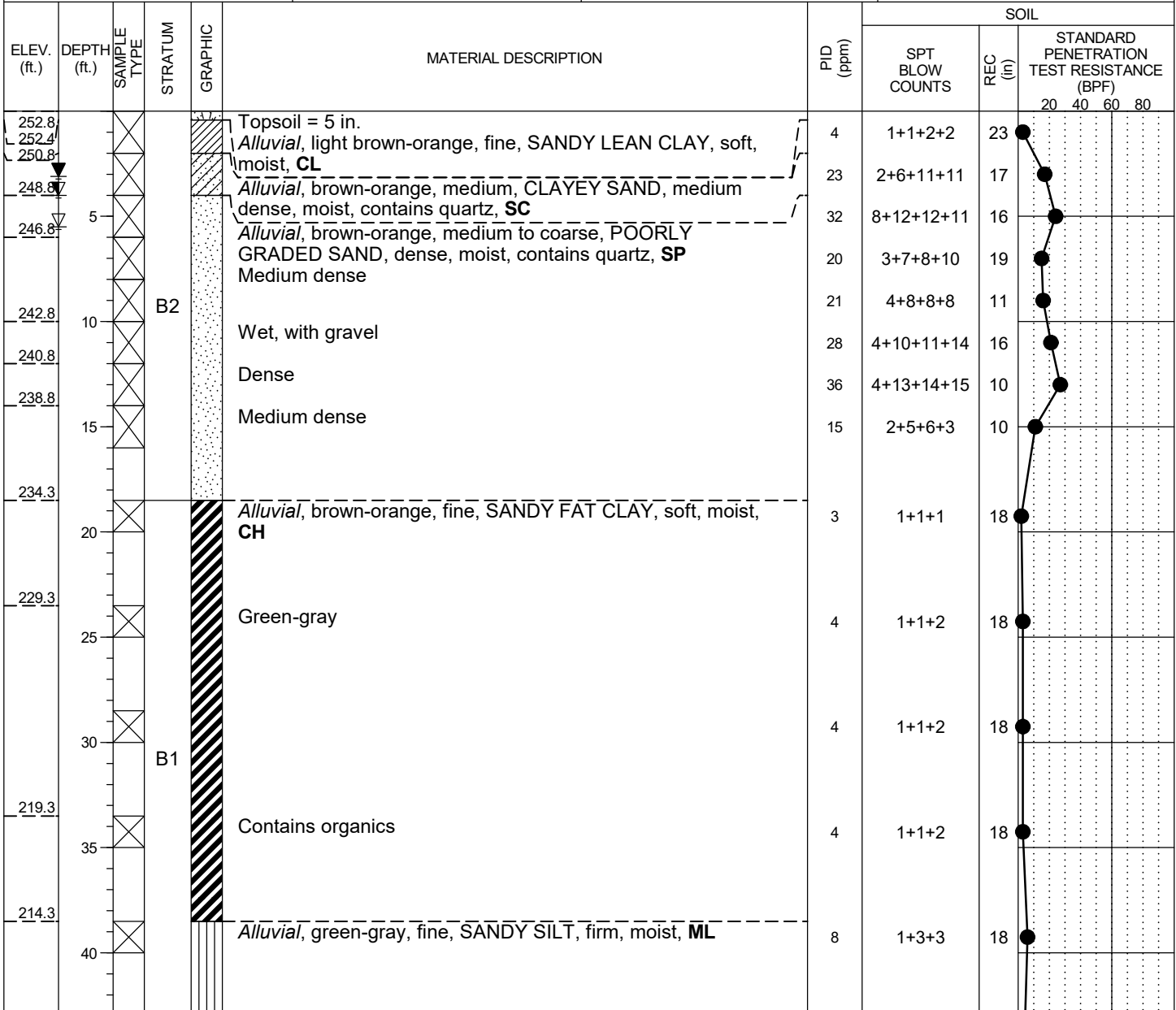
GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	16.0 ft. ELEV. 255.6	<input checked="" type="checkbox"/> SPT	
NOT ENCOUNTERED UPON COMPLETION			
2/8/2019	0.3 ft. ELEV. 271.3	CAVED:	9.5 ft. ELEV. 262.1
		CAVED:	2.7 ft. ELEV. 268.9

REMARKS: Latitude: 38.78985°
Longitude: -76.85944°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



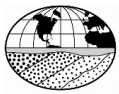
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: HCP-1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 1/23/19 - 1/23/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 252.8	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:				SAMPLE TYPES:	
ENCOUNTERED:	5.5 ft.	ELEV. 247.3		ENCOUNTERED:	5.5 ft. ELEV. 247.3
UPON COMPLETION:	4.0 ft.	ELEV. 248.8	CAVED:	8.3 ft.	ELEV. 244.5
1/25/2019 11:19:58 AM	3.1 ft.	ELEV. 249.7	CAVED:	7.7 ft.	ELEV. 245.1

REMARKS: Latitude: 38.79261°
Longitude: -76.85947°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



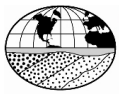
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis	BORING NUMBER: HCP-1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates	
SHEET 2 OF 2			

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
204.3	45	X			Alluvial, green-gray, fine, SANDY SILT, firm, moist, ML (continued)	5	1+2+2	18	
	50	X			Alluvial, green-gray, fine, SANDY ELASTIC SILT, soft, moist, MH	4	1+1+2	18	
	55	X	B1			3	1+1+1	18	
192.8	60	X			Bottom of Borehole at 60.0 ft.	5	1+2+2	18	
	65								
	70								
	75								
	80								
	85								
	90								

GROUND WATER LEVELS:				SAMPLE TYPES:	
ENCOUNTERED:	5.5	ft.	ELEV.	247.3	<input checked="" type="checkbox"/> SPT
UPON COMPLETION:	4.0	ft.	ELEV.	248.8	
1/25/2019 11:19:58 AM	3.1	ft.	ELEV.	249.7	

REMARKS: Latitude: 38.79261° Longitude: -76.85947°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



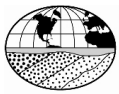
PROJECT: JBA HCP & EOD				LOGGED BY: K. Davis		BORING NUMBER: HCP-2	
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Connelly & Associates			
OWNER/CLIENT: Wiley Wilson				DRILLER: J. Leatherman		DATES DRILLED: 1/29/19 - 1/29/19	
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 259.5		DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55	

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL					
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)			
										20	40	60
259.5					Topsoil = 2 in.							
259.3			B1		Alluvial, light brown, LEAN CLAY, firm, moist, CL	5	1+2+2+2	15				
257.5					Alluvial, light brown, fine, SANDY SILT, stiff, moist, contains quartz, ML	15	2+4+7+10	22				
255.5	5				Very stiff	16	2+5+7+9	24				
253.5			B2		Alluvial, brown-pink, medium, POORLY GRADED GRAVEL WITH SAND, medium dense, moist, contains quartz, GP	23	4+9+8+11	23				
251.5					Dense	35	8+13+13+15	22				
249.5	10				Very dense	53	10+19+21+22	16				
247.5			B2		Alluvial, brown-orange, medium, POORLY GRADED SAND, medium dense, wet, SP	20	5+8+7+2	16				
246.0					Light brown, fine to medium	16	2+5+7+10	21				
	15					25	6+9+10	18				
236.0			B1		Alluvial, gray-white, fine to medium, CLAYEY SAND, loose, moist, SC	4	2+1+2	8				
231.0						3	0+1+1	18				
226.0						7	2+2+3	18				
	20		B1									
	35											
	40											

GROUND WATER LEVELS:				SAMPLE TYPES:				
ENCOUNTERED:	13.0	ft.	ELEV. 246.5				SPT	
UPON COMPLETION:	7.0	ft.	ELEV. 252.5	CAVED:	12.5	ft.		ELEV. 247.0
1/30/2019 11:56:32 AM	9.4	ft.	ELEV. 250.1	CAVED:	12.6	ft.		ELEV. 246.9

REMARKS: Latitude: 38.79235°
 Longitude: -76.85878°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

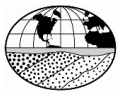


PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: HCP-2 SHEET 2 OF 2
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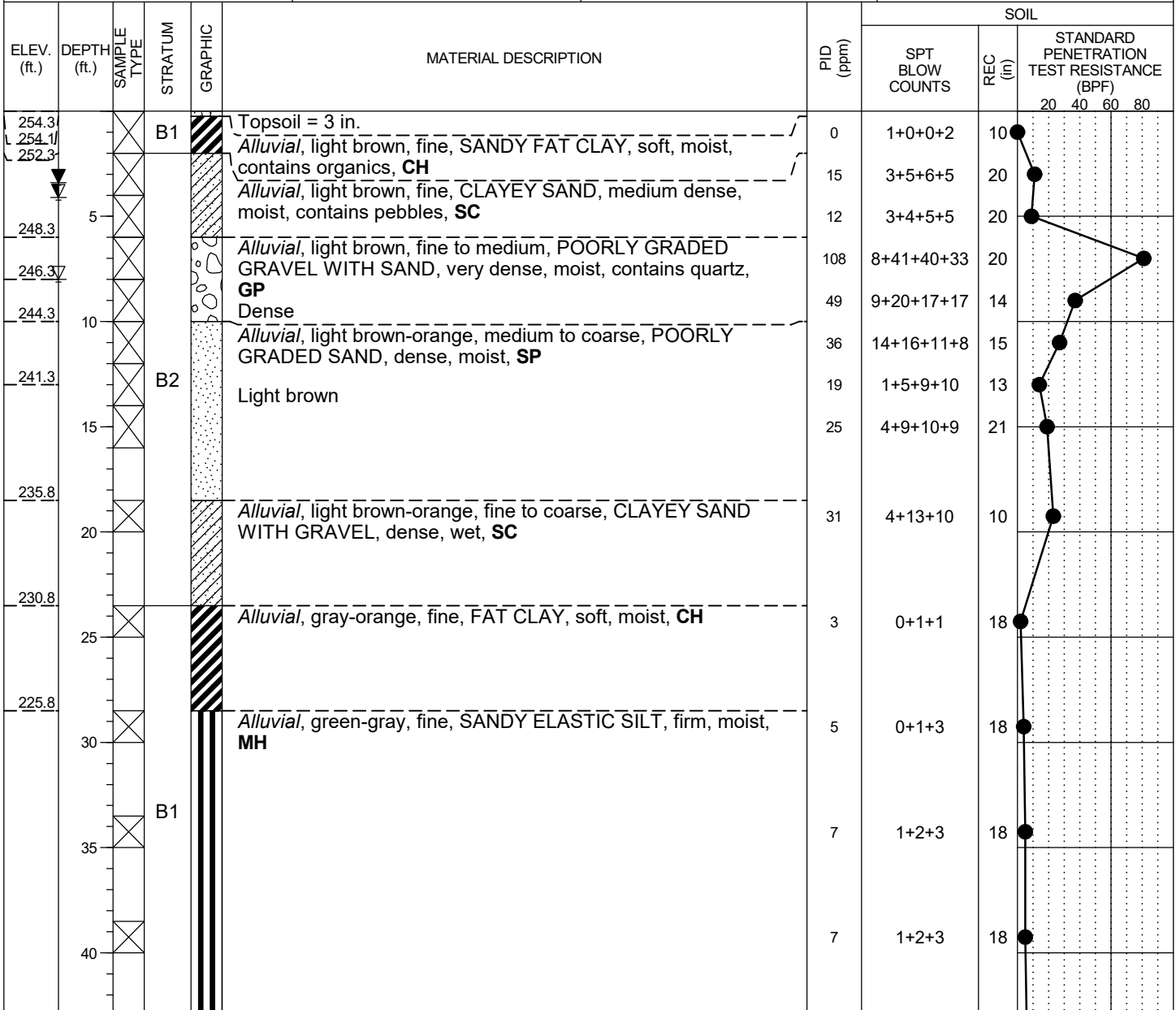
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
	45	X	B1		Alluvial, green-gray, fine, SANDY ELASTIC SILT, soft, moist, MH (continued)	8	1+3+3	18	●
	50	X				8	2+3+3	18	●
	55	X				5	0+2+2	18	●
	60	X				5	1+2+2	18	●
199.5	60				Bottom of Borehole at 60.0 ft.				
	65								
	70								
	75								
	80								
	85								
	90								

GROUND WATER LEVELS: <div style="display: flex; justify-content: space-between;"> <div> ▽ ENCOUNTERED: <u>13.0</u> ft. ELEV. <u>246.5</u> ▼ UPON COMPLETION: <u>7.0</u> ft. ELEV. <u>252.5</u> ▼ 1/30/2019 11:56:32 AM <u>9.4</u> ft. ELEV. <u>250.1</u> </div> <div> CAVED: <u>12.5</u> ft. ELEV. <u>247.0</u> CAVED: <u>12.6</u> ft. ELEV. <u>246.9</u> </div> </div>	SAMPLE TYPES: <div style="text-align: center;"> <input checked="" type="checkbox"/> SPT </div>
---	---

REMARKS: Latitude: 38.79235°
Longitude: -76.85878°



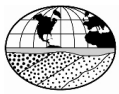
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: HCP-3
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 1/30/19 - 1/30/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 254.3	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	8.0	ft.	ELEV.	246.3	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	4.1	ft.	ELEV.	250.2			
1/31/2019 9:45:14 AM	3.4	ft.	ELEV.	250.9			
			CAVED:	9.9	ft.	ELEV.	244.4
			CAVED:	9.2	ft.	ELEV.	245.1

REMARKS: Latitude: 38.79179°
Longitude: -76.85875°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



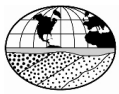
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis	BORING NUMBER: HCP-3
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates	
SHEET 2 OF 2			

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
	45	X			<i>Alluvial, green-gray, fine, SANDY ELASTIC SILT, firm, moist, MH (continued)</i>	8	2+2+4	18	
205.8	50	X	B1		Soft	4	2+1+2	11	
	55	X				4	1+1+2	18	
195.8	60	X			Firm	7	1+2+3	18	
194.3					Bottom of Borehole at 60.0 ft.				
	65								
	70								
	75								
	80								
	85								
	90								

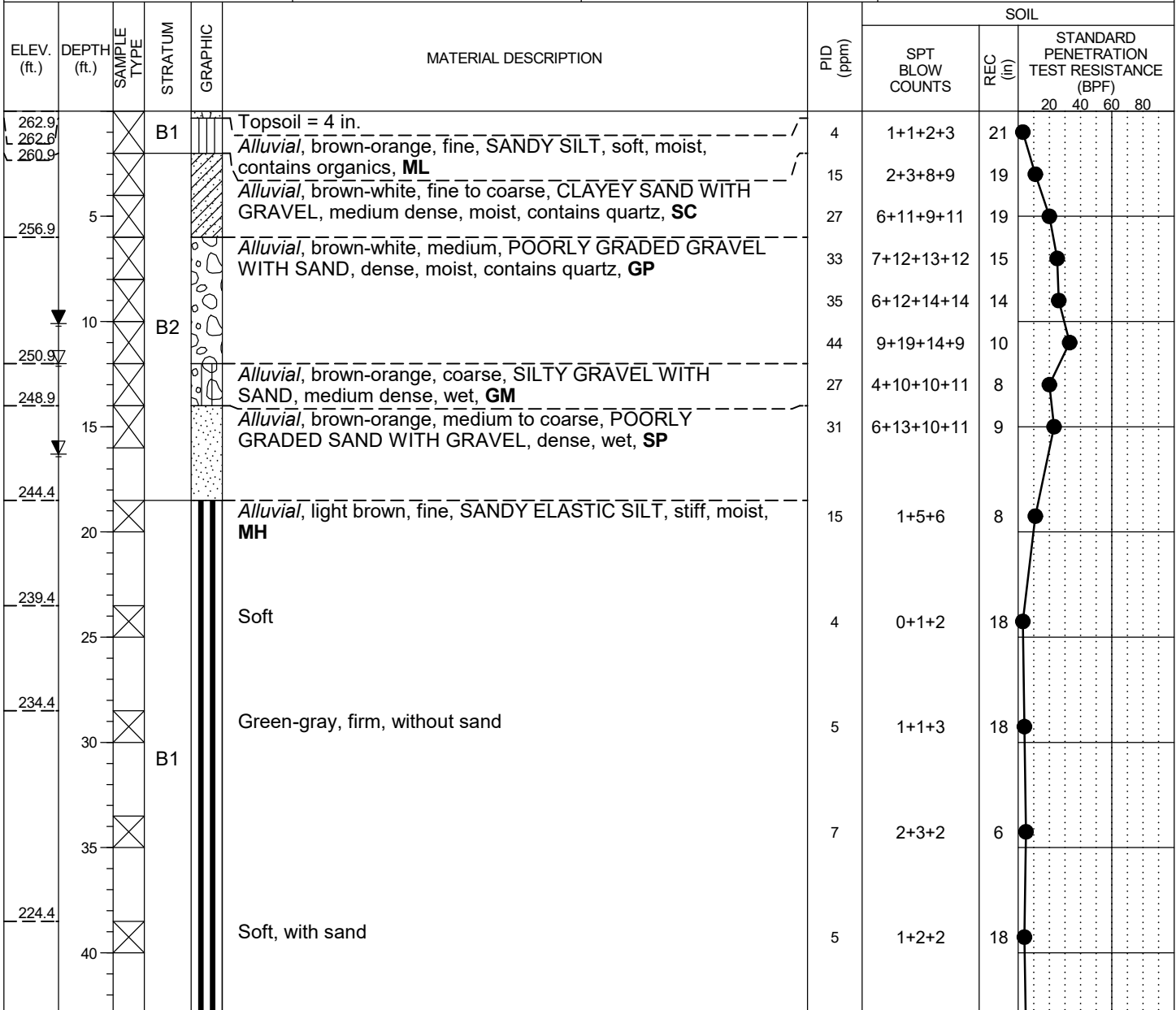
GROUND WATER LEVELS:				SAMPLE TYPES:	
ENCOUNTERED:	8.0	ft.	ELEV.	246.3	<input checked="" type="checkbox"/> SPT
UPON COMPLETION:	4.1	ft.	ELEV.	250.2	
1/31/2019 9:45:14 AM	3.4	ft.	ELEV.	250.9	

REMARKS: Latitude: 38.79179° Longitude: -76.85875°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



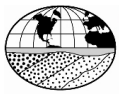
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: HCP-4
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 1/30/19 - 1/31/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 262.9	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	12.0	ft.	ELEV.	250.9	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	16.3	ft.	ELEV.	246.6			
2/1/2019	10.1	ft.	ELEV.	252.8			
			CAVED:	18.3	ft.	ELEV.	244.6
			CAVED:	10.9	ft.	ELEV.	252.0

REMARKS: Latitude: 38.79120°
Longitude: -76.85872°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



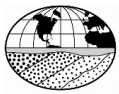
PROJECT:	JBA HCP & EOD	LOGGED BY:	K. Davis	BORING NUMBER: HCP-4
LOCATION:	Joint Base Andrews, Maryland	DRILLING CONTRACTOR:	Connelly & Associates	
				SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
	45	X			Alluvial, light brown, fine, SANDY ELASTIC SILT, stiff, moist, MH (continued)	7	2+2+3	18	
	50	X				3	0+1+1	18	
209.4	55	X	B1		Very soft	1	0+0+1	18	
204.4	60	X			Dark gray, firm	5	1+2+2	18	
202.9					Bottom of Borehole at 60.0 ft.				
	65								
	70								
	75								
	80								
	85								
	90								

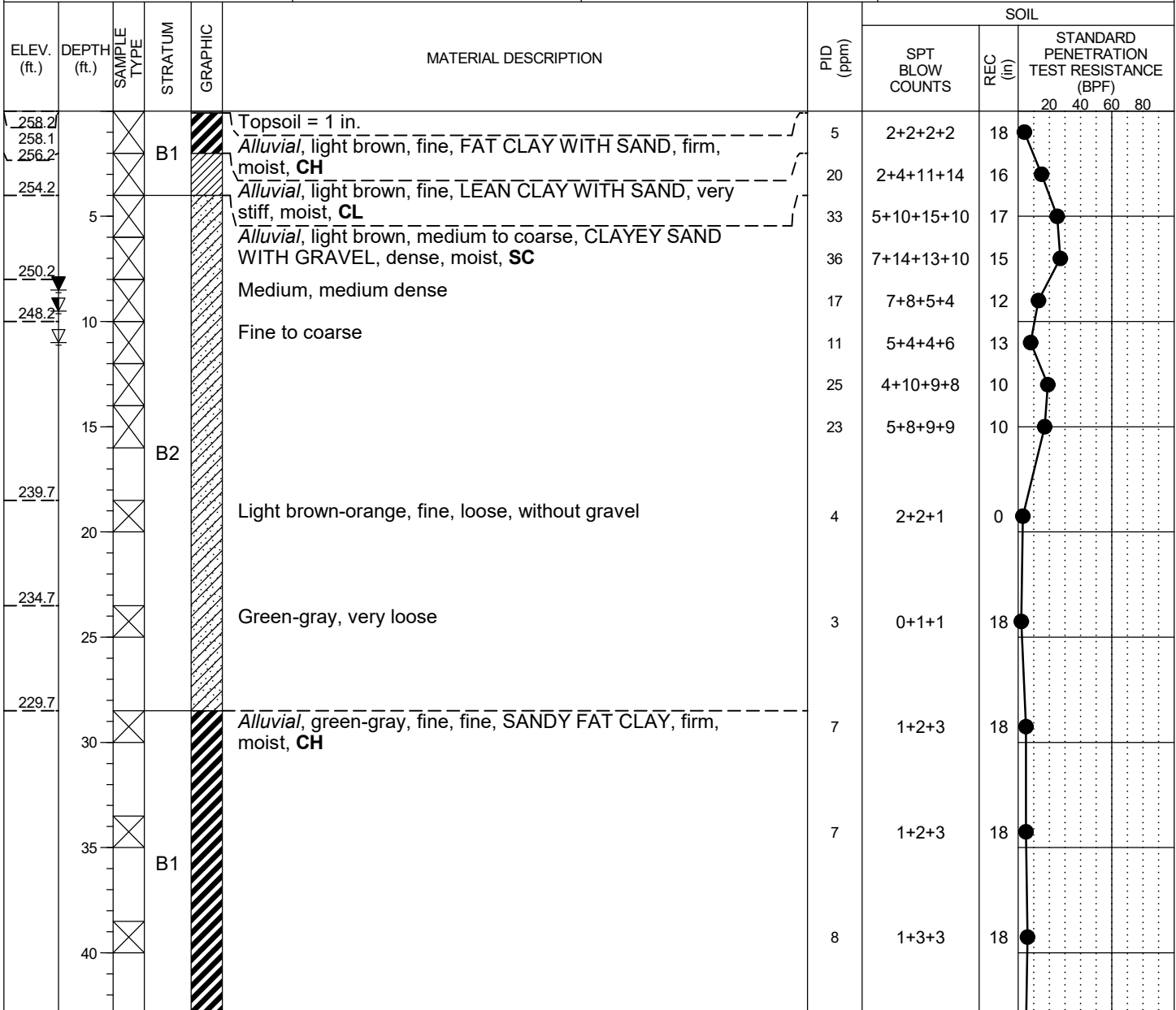
GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	12.0	ft.	ELEV.	250.9	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	16.3	ft.	ELEV.	246.6			
2/1/2019	10.1	ft.	ELEV.	252.8			
			CAVED:	18.3	ft.	ELEV.	244.6
			CAVED:	10.9	ft.	ELEV.	252.0

REMARKS: Latitude: 38.79120°
Longitude: -76.85872°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



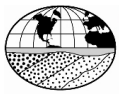
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: HCP-5
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/14/19 - 2/14/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 258.2	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



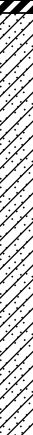




GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	11.0	ft.	ELEV.	247.2	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	9.5	ft.	ELEV.	248.7			
2/15/2019 2:49:48 PM	8.5	ft.	ELEV.	249.7			
			CAVED:	11.2	ft.	ELEV.	247.0
			CAVED:	10.5	ft.	ELEV.	247.7

REMARKS: Latitude: 38.79124°
Longitude: -76.85947°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



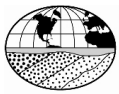
PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: HCP-5 SHEET 2 OF 2
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ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL					
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)			
									20	40	60	80
214.7	45	X	B2		Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC	7	2+2+3	18				
	50	X				7	1+2+3	18				
	55	X				5	1+2+2	18				
	60	X				9	2+3+4	18				
198.2	60				Bottom of Borehole at 60.0 ft.							
	65											
	70											
	75											
	80											
	85											
	90											

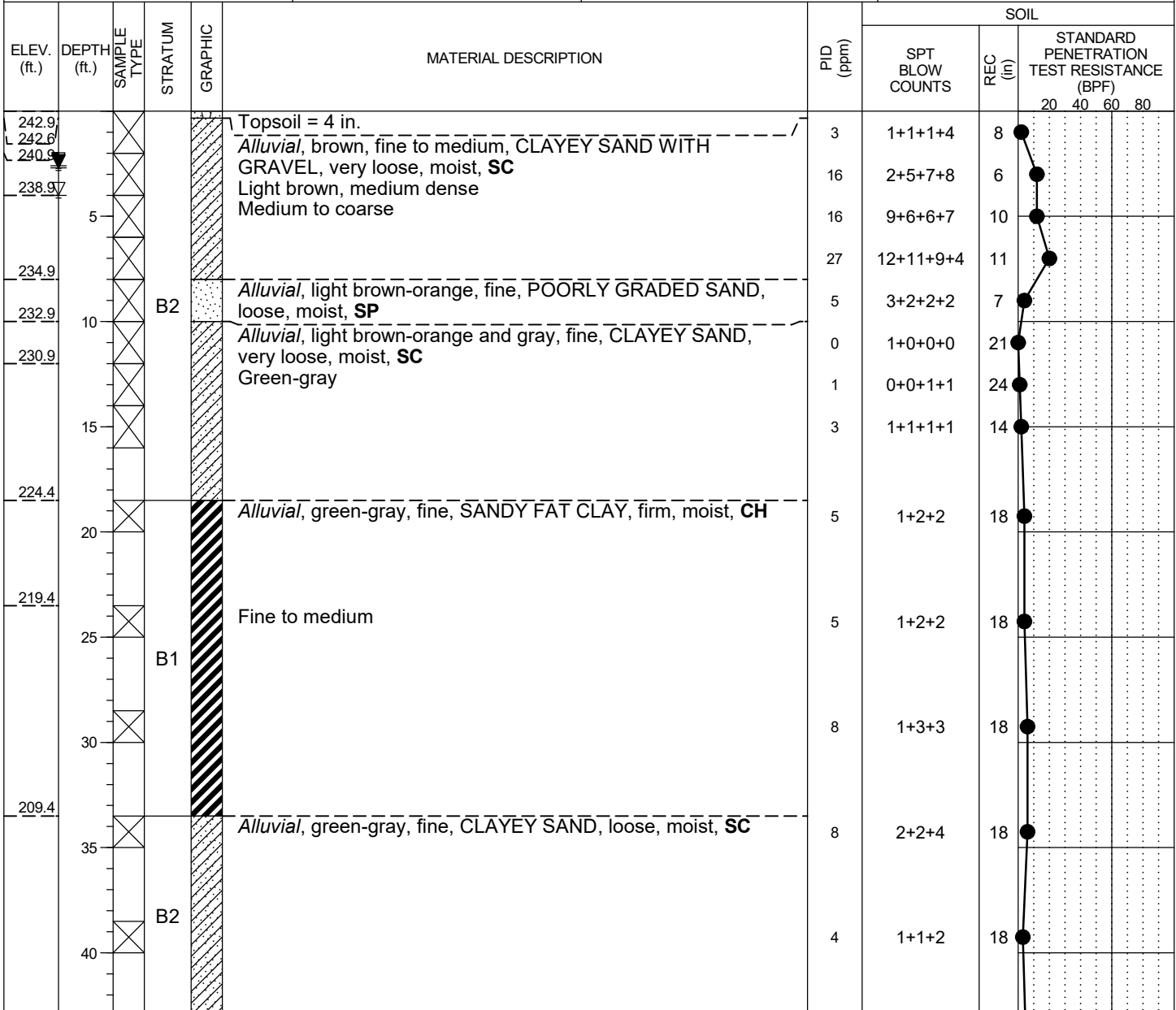
GROUND WATER LEVELS: <div style="display: flex; justify-content: space-between;"> <div> ▽ ENCOUNTERED: <u>11.0</u> ft. ELEV. <u>247.2</u> ▼ UPON COMPLETION: <u>9.5</u> ft. ELEV. <u>248.7</u> ▼ 2/15/2019 2:49:48 PM <u>8.5</u> ft. ELEV. <u>249.7</u> </div> <div> CAVED: <u>11.2</u> ft. ELEV. <u>247.0</u> CAVED: <u>10.5</u> ft. ELEV. <u>247.7</u> </div> </div>	SAMPLE TYPES: <div style="text-align: center;"> <input checked="" type="checkbox"/> SPT </div>
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REMARKS: Latitude: 38.79124°
Longitude: -76.85947°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



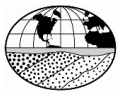
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: HCP-6
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/13/19 - 2/13/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 242.9	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	4.0	ft.	ELEV.	238.9	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	2.6	ft.	ELEV.	240.3			
2/14/2019 12:54:10 PM	2.7	ft.	ELEV.	240.2			
			CAVED:	4.5	ft.	ELEV.	238.4
			CAVED:	19.9	ft.	ELEV.	223.0

REMARKS: Latitude: 38.79123°
Longitude: -76.86054°
Offset 2 ft NE to avoid large tree stumps.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



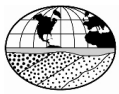
PROJECT: JBA HCP & EOD	LOGGED BY: K. Davis	BORING NUMBER: HCP-6
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Connelly & Associates	SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL						
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)				
									20	40	60	80	
	45	<div></div>	B2	<div></div>	Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC (continued)	7	2+2+3	18	<div></div>	<div></div>	<div></div>	<div></div>	
	50	<div></div>		<div></div>			7	2+2+3	18	<div></div>	<div></div>	<div></div>	<div></div>
189.4	55	<div></div>		Medium dense			11	2+3+5	18	<div></div>	<div></div>	<div></div>	<div></div>
184.4	60	<div></div>		Loose			7	1+2+3	18	<div></div>	<div></div>	<div></div>	<div></div>
182.9	60				Bottom of Borehole at 60.0 ft.								
	65												
	70												
	75												
	80												
	85												
	90												

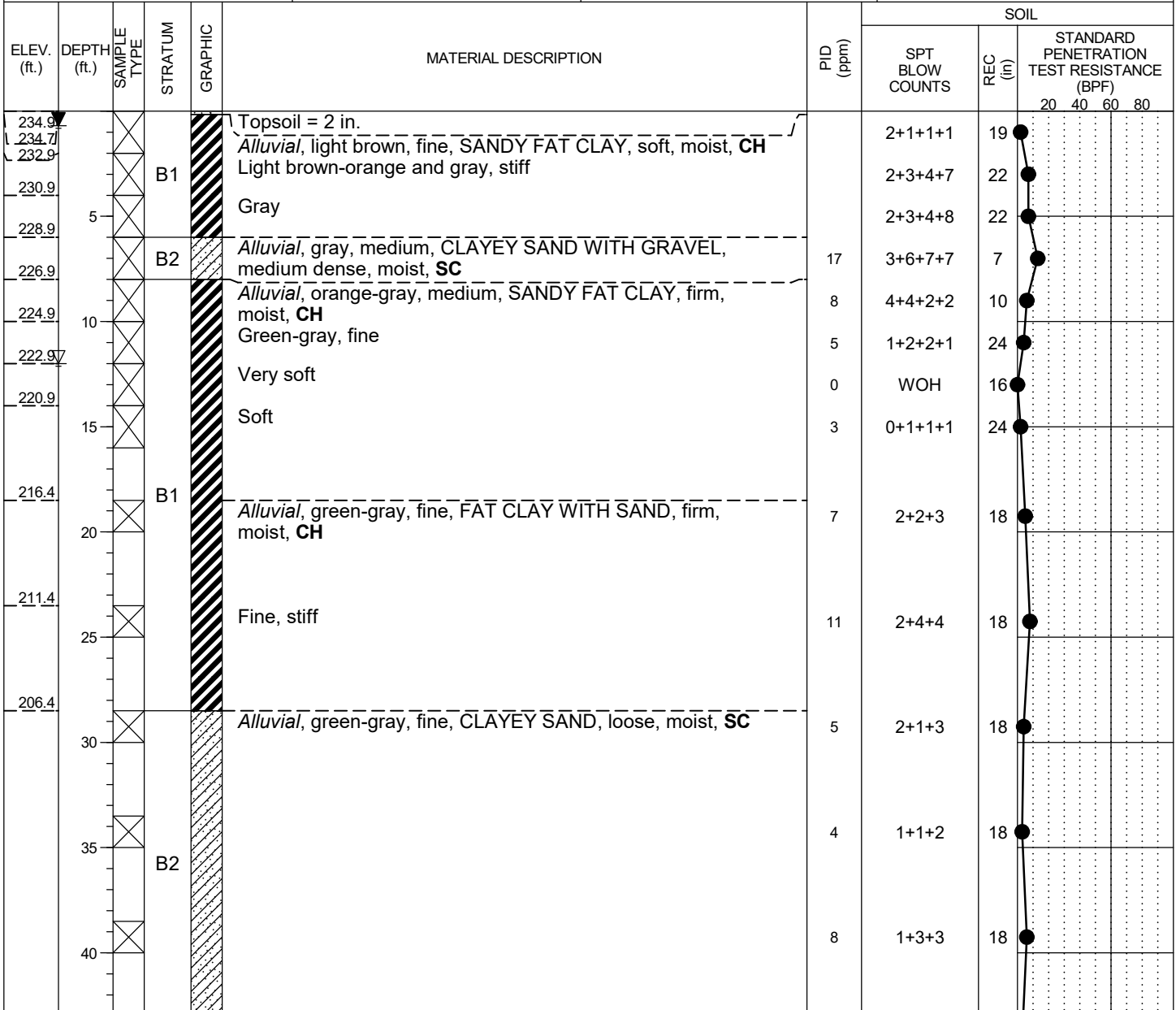
GROUND WATER LEVELS: <div style="display: flex; justify-content: space-between;"> <div> ▽ ENCOUNTERED: <u>4.0</u> ft. ELEV. <u>238.9</u> ▼ UPON COMPLETION: <u>2.6</u> ft. ELEV. <u>240.3</u> ▼ 2/14/2019 12:54:10 PM <u>2.7</u> ft. ELEV. <u>240.2</u> </div> <div> CAVED: <u>4.5</u> ft. ELEV. <u>238.4</u> CAVED: <u>19.9</u> ft. ELEV. <u>223.0</u> </div> </div>	SAMPLE TYPES: <div style="text-align: center;"> SPT </div>
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REMARKS: Latitude: 38.79123° Longitude: -76.86054° Offset 2 ft NE to avoid large tree stumps.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



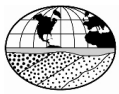
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: HCP-7
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/15/19 - 2/18/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 234.9	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	12.0	ft.	ELEV.	222.9	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	50.0	ft.	ELEV.	184.9			
2/19/2019	0.7	ft.	ELEV.	234.2			
			CAVED:	90.0	ft.	ELEV.	144.9
			CAVED:	5.5	ft.	ELEV.	229.4

REMARKS: Latitude: 38.79177°
Longitude: -76.86056°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: HCP-7 SHEET 2 OF 3
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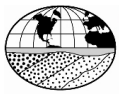
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL	
							SPT BLOW COUNTS	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
	45	X			<i>Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC (continued)</i>	4	2+1+2	18
	50	X				7	2+2+3	18
	55	X				7	1+2+3	18
176.4	60	X			Medium dense	16	4+4+8	18
	65	X				11	2+3+5	18
	70	X	B2			11	3+3+5	18
161.4	75	X			Loose	9	2+3+4	18
156.4	80	X			Medium dense	12	3+4+5	18
151.4	85	X			Loose	9	3+3+4	18
146.4	90	X			Medium dense	11	3+4+4	18

GROUND WATER LEVELS: ▽ ENCOUNTERED: <u>12.0</u> ft. ELEV. <u>222.9</u> ▽ UPON COMPLETION: <u>50.0</u> ft. ELEV. <u>184.9</u> CAVED: <u>90.0</u> ft. ELEV. <u>144.9</u> ▽ 2/19/2019 <u>0.7</u> ft. ELEV. <u>234.2</u> CAVED: <u>5.5</u> ft. ELEV. <u>229.4</u>	SAMPLE TYPES: <div style="border: 1px solid black; width: 20px; height: 20px; margin: 5px; display: flex; align-items: center; justify-content: center;">X</div> SPT
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REMARKS: Latitude: 38.79177° Longitude: -76.86056°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA LOGS.GPJ GEOCONCEPTS 20170216.GDT 4/25/19

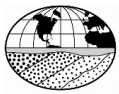


PROJECT:	JBA HCP & EOD	LOGGED BY:	K. Davis	BORING NUMBER:	HCP-7
LOCATION:	Joint Base Andrews, Maryland	DRILLING CONTRACTOR:	Connelly & Associates	SHEET 3 OF 3	

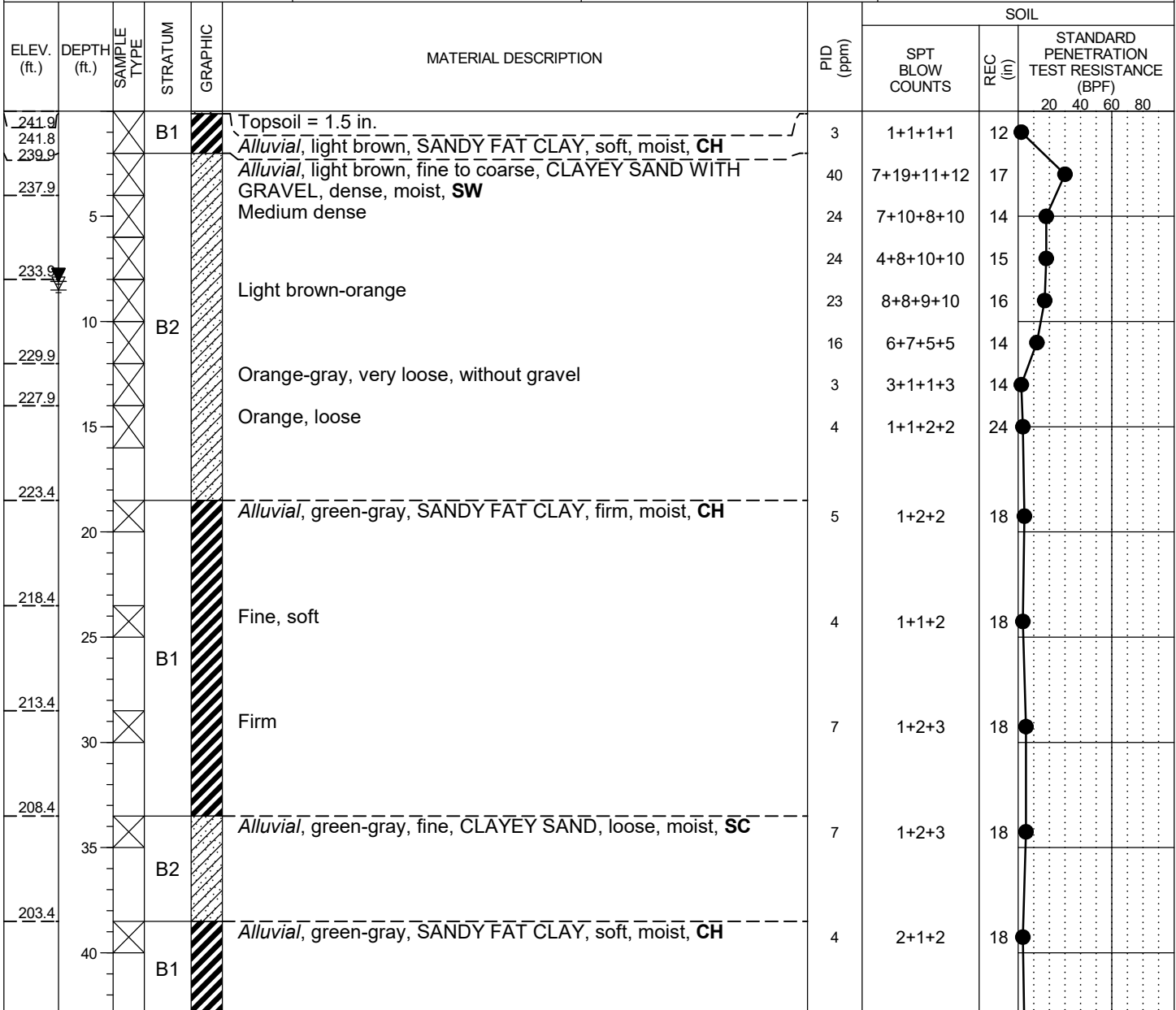
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)
									20 40 60 80
	95	X	B2		Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC (continued)	23	4+8+9	18	
136.4									
134.9	100	X			Dense	32	5+10+14	18	
					Bottom of Borehole at 100.0 ft.				
	105								
	110								
	115								
	120								
	125								
	130								
	135								
	140								

GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: 12.0 ft. ELEV. 222.9 ▼ UPON COMPLETION: 50.0 ft. ELEV. 184.9 ▼ 2/19/2019 0.7 ft. ELEV. 234.2	☒ SPT CAVED: 90.0 ft. ELEV. 144.9 CAVED: 5.5 ft. ELEV. 229.4

REMARKS: Latitude: 38.79177°
Longitude: -76.86056°



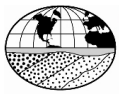
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: HCP-8
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman	DATES DRILLED: 2/18/19	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 241.9	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer	DRILL RIG: CME 55	



GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	8.5	ft.	ELEV. 233.4		<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	8.1	ft.	ELEV. 233.8	CAVED: 10.4		ft.	ELEV. 231.5
2/21/2019	8.1	ft.	ELEV. 233.8	CAVED: 12.4		ft.	ELEV. 229.5

REMARKS: Latitude: 38.79230°
Longitude: -76.86056°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: HCP-8 SHEET 2 OF 3
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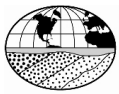
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL						
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)				
									20	40	60	80	
198.4	45		B1		Alluvial, green-gray, SANDY FAT CLAY, soft, moist, CH (continued) Firm	5	1+2+2	18					
193.4	50							Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC	5	1+2+2	18		
188.4	55		B2		Fine to medium, medium dense	13	3+3+7	18					
183.4	60				Fine, loose	7	1+3+2	18					
	65					7	2+2+3	18					
	70					9	2+3+4	18					
168.4	75				Medium dense	7	3+5+6	18					
163.4	80				Loose	12	3+4+5	18					
	85					7	1+2+3	18					
153.4	90				Medium dense	16	3+4+8	18					

GROUND WATER LEVELS: ▽ ENCOUNTERED: <u>8.5</u> ft. ELEV. <u>233.4</u> ▼ UPON COMPLETION: <u>8.1</u> ft. ELEV. <u>233.8</u> CAVED: <u>10.4</u> ft. ELEV. <u>231.5</u> ▼ 2/21/2019 <u>8.1</u> ft. ELEV. <u>233.8</u> CAVED: <u>12.4</u> ft. ELEV. <u>229.5</u>	SAMPLE TYPES: <div style="border: 1px solid black; width: 20px; height: 20px; display: flex; align-items: center; justify-content: center;">X</div> SPT
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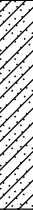
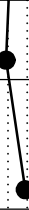
REMARKS: Latitude: 38.79230° Longitude: -76.86056°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA LOGS.GPJ GEOCONCEPTS 20170216.GDT 4/25/19

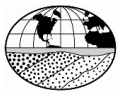


PROJECT:	JBA HCP & EOD	LOGGED BY:	K. Davis	BORING NUMBER: HCP-8
LOCATION:	Joint Base Andrews, Maryland	DRILLING CONTRACTOR:	Connelly & Associates	
				SHEET 3 OF 3

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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	95	X	B2		Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC (continued)	12	2+4+5	18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
141.9	100	X						25	6+8+11	18																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	8.5	ft.	ELEV. 233.4				
UPON COMPLETION:	8.1	ft.	ELEV. 233.8	CAVED:	10.4	ft.	ELEV. 231.5
2/21/2019	8.1	ft.	ELEV. 233.8	CAVED:	12.4	ft.	ELEV. 229.5

REMARKS: Latitude: 38.79230°
Longitude: -76.86056°



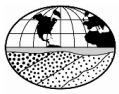
PROJECT: JBA HCP & EOD				LOGGED BY: K. Davis				BORING NUMBER: MSA-1			
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Connelly & Associates				SHEET 1 OF 1			
OWNER/CLIENT: Wiley Wilson				DRILLER: J. Leatherman				DATES DRILLED: 1/25/19 - 1/25/19			
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 261.2		DRILLING METHOD: 3.25 ID HSA; Automatic Hammer				DRILL RIG: CME 55			

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)
								20 40 60 80	
261.2			B1		Topsoil = 4 in.	5	1+2+2+2	15	
260.9					<i>Alluvial</i> , brown, fine, SANDY SILT, firm, moist, ML	17	4+5+8+10	17	
259.2					Very stiff				
257.2	5		B2		<i>Alluvial</i> , orange-brown, fine, SILTY SAND, medium dense, moist, SM	20	4+5+10+15	20	
255.2					<i>Alluvial</i> , brown-white, medium, POORLY GRADED GRAVEL WITH SAND, dense, moist, contains quartz, GP	47	6+15+20+28	21	
253.2					Very dense	63	8+21+26+28	21	
251.2	10				<i>Alluvial</i> , brown-red, medium, POORLY GRADED SAND WITH GRAVEL, very dense, moist, contains quartz, SP	60	13+23+22+31	18	
249.2					Orange-brown	91	12+31+37+15	17	
247.2	15				<i>Alluvial</i> , brown, fine to coarse, CLAYEY SAND WITH GRAVEL, dense, wet, contains quartz, SC	33	8+10+15+15	21	
242.7					<i>Alluvial</i> , brown-orange, fine, SANDY SILT, soft, moist, ML	4	1+1+2	15	
237.7	20		B1		Very soft	1	0+0+1	18	
232.7					<i>Alluvial</i> , green-gray, fine, SANDY ELASTIC SILT, soft, moist, MH	3	0+1+1	18	
231.2	30		Bottom of Borehole at 30.0 ft.						

GROUND WATER LEVELS:				SAMPLE TYPES:			
	ENCOUNTERED:	14.0 ft.	ELEV. 247.2				
	UPON COMPLETION:	8.0 ft.	ELEV. 253.2	CAVED:	12.2 ft.	ELEV. 249.0	
	1/28/2019 4:14:22 PM	7.4 ft.	ELEV. 253.8	CAVED:	13.4 ft.	ELEV. 247.8	

REMARKS: Latitude: 38.79299°
 Longitude: -76.85860°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



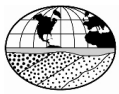
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: MSA-2
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 1/25/19 - 1/25/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 257.3	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	P.D. (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
257.3					Topsoil = 2 in.	7	1+3+2+4	22	
257.1					Alluvial, brown-orange, fine, SANDY LEAN CLAY, firm, moist, contains organics, CL	12	1+3+6+7	15	
255.3					Stiff				
253.3	5				Alluvial, brown-red, medium, CLAYEY SAND WITH GRAVEL, medium dense, moist, SC	24	3+7+11+12	18	
251.3					Contains quartz	20	6+6+9+11	17	
249.3					Alluvial, brown-white, medium to coarse, POORLY GRADED SAND, medium dense, moist, SP	23	4+8+9+11	21	
247.3	10				Dense	35	5+13+13+13	24	
245.3			B2		Medium dense, wet	27	7+10+10+10	19	
243.3	15				Brown-orange	13	9+5+5+4	10	
238.8	20				Alluvial, light brown, fine, CLAYEY SAND, loose, wet, SC	8	2+2+4	9	
233.8	25				Alluvial, light brown-orange, fine, SANDY ELASTIC SILT, very soft, wet, MH	1	0+0+1	8	
228.8	30		B1		Green-gray, soft	3	1+1+1	18	
227.3					Bottom of Borehole at 30.0 ft.				

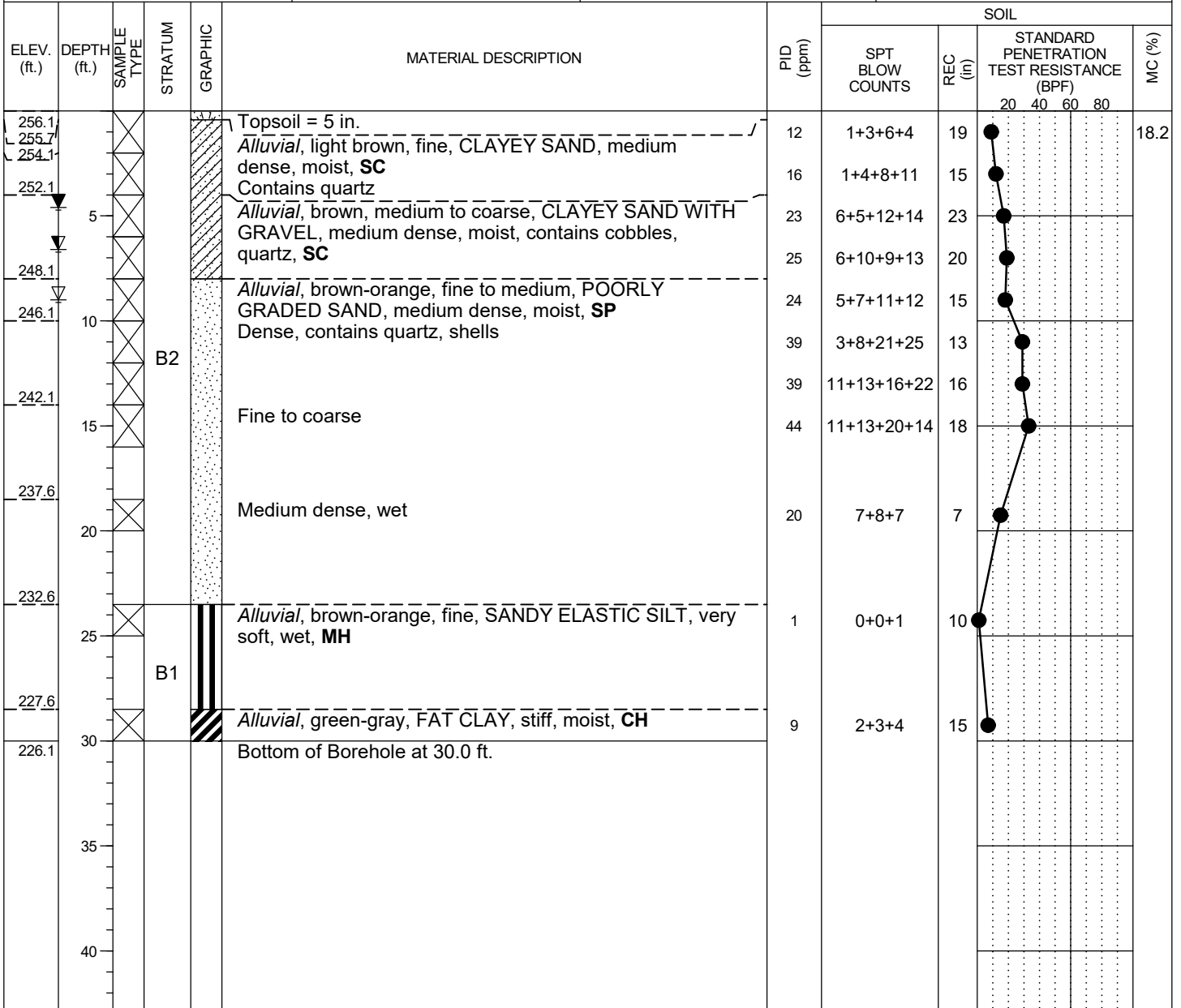
GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	9.5 ft. ELEV. 247.8	<input checked="" type="checkbox"/> SPT	
UPON COMPLETION:	6.8 ft. ELEV. 250.5		
1/28/2019 4:26:48 PM	7.6 ft. ELEV. 249.7		
	CAVED: 16.7 ft. ELEV. 240.6		
	CAVED: 12.8 ft. ELEV. 244.5		

REMARKS: Latitude: 38.79265° Longitude: -76.85881°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



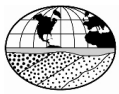
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: MSA-3
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 1/25/19 - 1/25/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 256.1	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



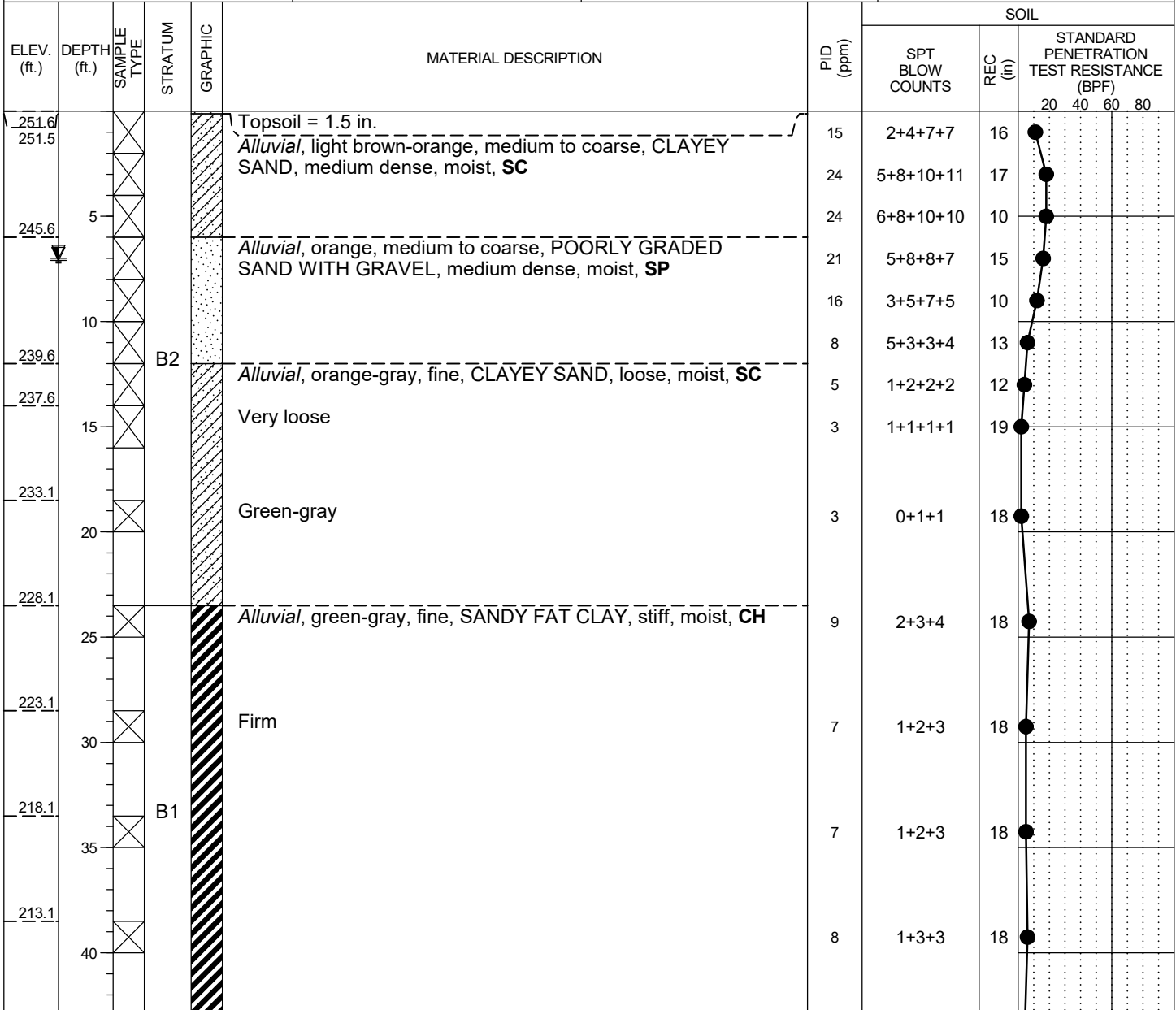
GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	9.0	ft.	ELEV.	247.1	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	6.6	ft.	ELEV.	249.5			
1/28/2019 4:14:46 PM	4.6	ft.	ELEV.	251.5			
			CAVED:	9.9	ft.	ELEV.	246.2
			CAVED:	9.7	ft.	ELEV.	246.4

REMARKS: Latitude: 38.79288°
Longitude: -76.85922°
Offset 3 ft NW due to trees. Collected bulk sample from 0'-5'.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



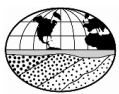
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: T-1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/22/19 - 2/22/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 251.6	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	7.0 ft. ELEV. 244.6	<input checked="" type="checkbox"/> SPT	
UPON COMPLETION:	7.1 ft. ELEV. 244.5		
CAVED: 13.1 ft. ELEV. 238.5			

REMARKS: Latitude: 38.79758°
Longitude: -76.86095°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



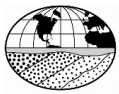
PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: T-1 SHEET 2 OF 2
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ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL					
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)			
									20	40	60	80
208.1	45	<div></div>	B2	<div></div>	Alluvial, green-gray, fine to medium, CLAYEY SAND, loose, moist, SC	5	1+2+2	18	<div></div>	<div></div>	<div></div>	<div></div>
203.1	50	<div></div>				5	1+2+2	18	<div></div>	<div></div>	<div></div>	<div></div>
198.1	55	<div></div>				7	1+2+3	18	<div></div>	<div></div>	<div></div>	<div></div>
193.1	60	<div></div>				7	1+2+3	18	<div></div>	<div></div>	<div></div>	<div></div>
191.6					Bottom of Borehole at 60.0 ft.							
	65											
	70											
	75											
	80											
	85											
	90											

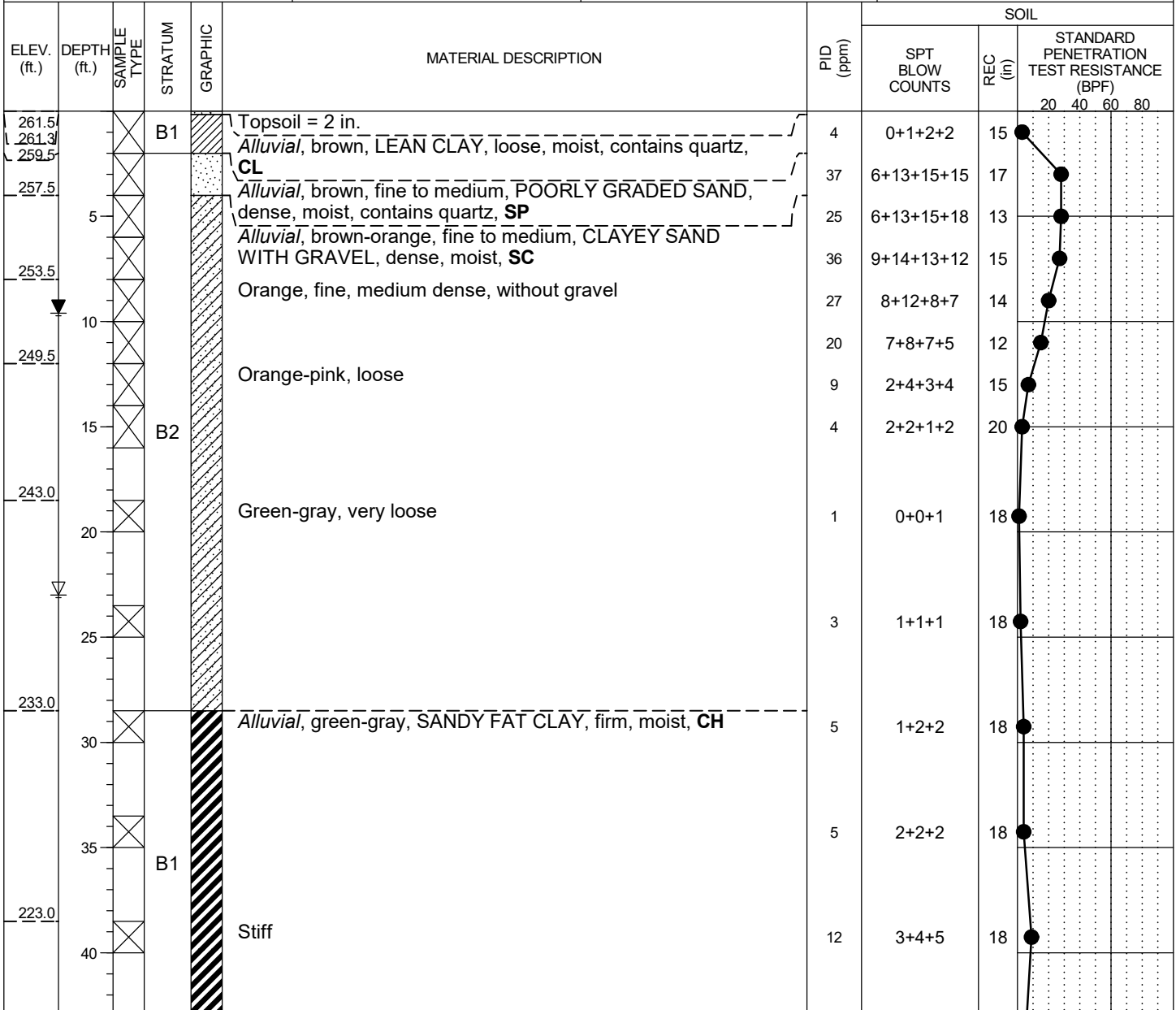
GROUND WATER LEVELS: <input checked="" type="checkbox"/> ENCOUNTERED: <u>7.0</u> ft. ELEV. <u>244.6</u> <input checked="" type="checkbox"/> UPON COMPLETION: <u>7.1</u> ft. ELEV. <u>244.5</u> CAVED: <u>13.1</u> ft. ELEV. <u>238.5</u>	SAMPLE TYPES: <input checked="" type="checkbox"/> SPT
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REMARKS: Latitude: 38.79758° Longitude: -76.86095°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



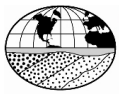
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: T-10
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/8/19 - 2/13/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 261.5	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



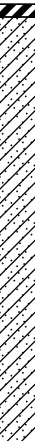
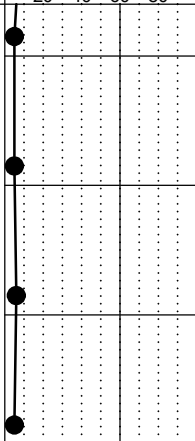
GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	23.0 ft. ELEV. 238.5	<input checked="" type="checkbox"/> SPT	
NOT ENCOUNTERED UPON COMPLETION			
2/14/2019	9.6 ft. ELEV. 251.9		
	CAVED: 12.7 ft. ELEV. 248.8		
	CAVED: 10.9 ft. ELEV. 250.6		

REMARKS: Latitude: 38.79076°
Longitude: -76.86026°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



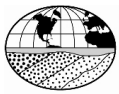
PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: T-10 SHEET 2 OF 2
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ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)	
									20	40
218.0	45	X	B2		Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC	7	1+2+3	18		
	50	X				7	2+2+3	18		
	55	X				8	1+3+3	18		
	60	X				7	2+2+3	18		
201.5	60				Bottom of Borehole at 60.0 ft.					
	65									
	70									
	75									
	80									
	85									
	90									

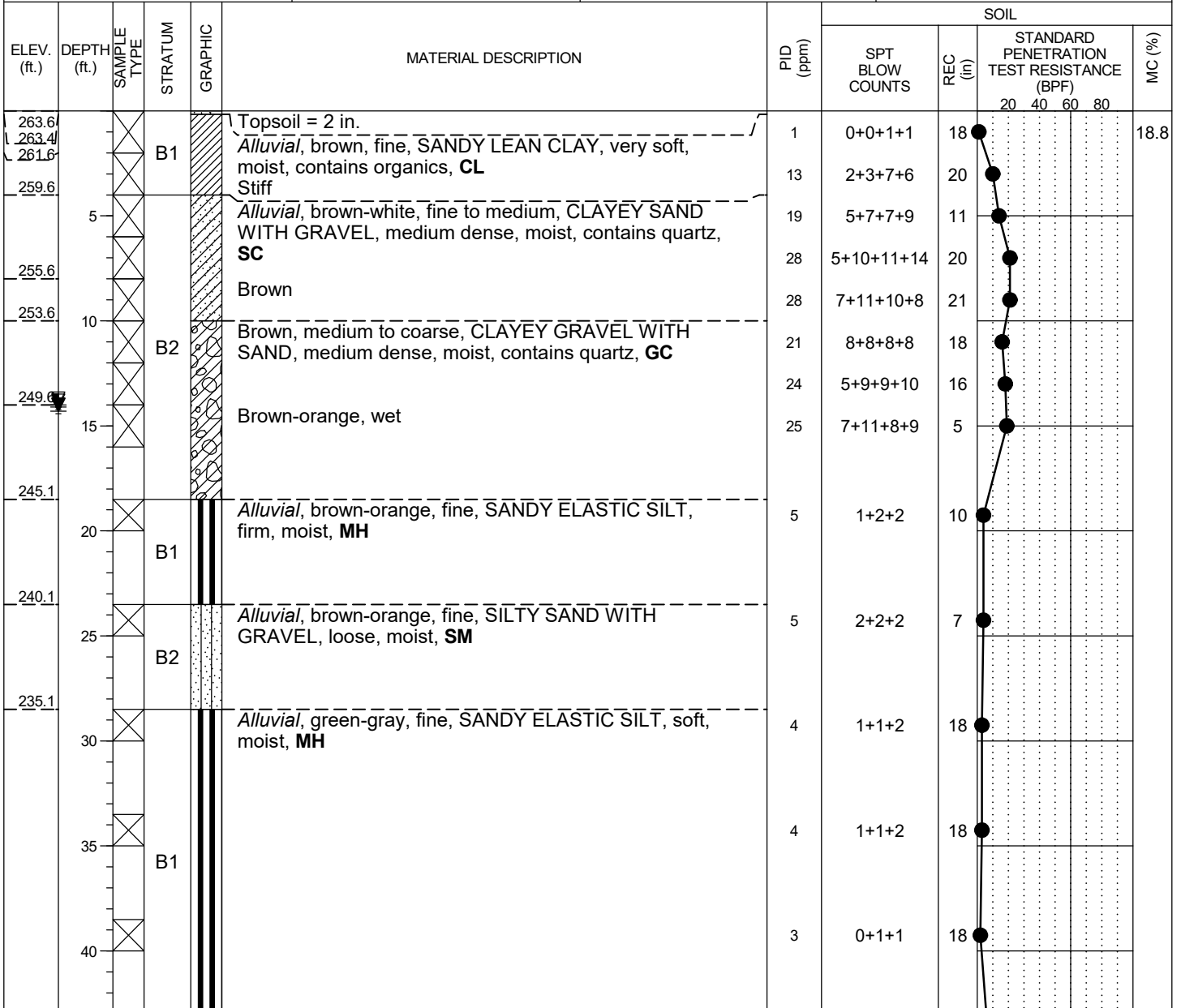
GROUND WATER LEVELS: <div style="display: flex; justify-content: space-between;"> <div> ENCOUNTERED: <u>23.0</u> ft. ELEV. <u>238.5</u> NOT ENCOUNTERED UPON COMPLETION </div> <div> CAVED: <u>12.7</u> ft. ELEV. <u>248.8</u> </div> </div> <div style="display: flex; justify-content: space-between;"> <div> 2/14/2019 <u>9.6</u> ft. ELEV. <u>251.9</u> </div> <div> CAVED: <u>10.9</u> ft. ELEV. <u>250.6</u> </div> </div>	SAMPLE TYPES: <div style="text-align: center;"> <input checked="" type="checkbox"/> SPT </div>
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REMARKS: Latitude: 38.79076°
Longitude: -76.86026°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: T-11
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 1/31/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 263.6	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:

☒ ENCOUNTERED: 14.0 ft. ELEV. 249.6
☒ UPON COMPLETION: 14.1 ft. ELEV. 249.5
☒ 2/4/2019 9:29:23 AM 14.3 ft. ELEV. 249.3

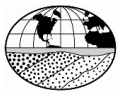
CAVED: 18.4 ft. ELEV. 245.2
 CAVED: 14.8 ft. ELEV. 248.8

SAMPLE TYPES:



REMARKS: Latitude: 38.79074°
Longitude: -76.85868°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



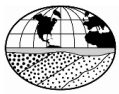
PROJECT: JBA HCP & EOD	LOGGED BY: K. Davis	BORING NUMBER: T-11
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Connelly & Associates	SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL						
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)				MC (%)
									20	40	60	80	
220.1	45	X	B1	<div><div></div><div></div><div></div><div></div></div>	Alluvial, green-gray, fine, SANDY ELASTIC SILT, soft, moist, MH (continued) Stiff Firm	9	2+3+4	18	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></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GROUND WATER LEVELS: <div style="display: flex; justify-content: space-between;"> <div> ▽ ENCOUNTERED: <u>14.0</u> ft. ELEV. <u>249.6</u> ▼ UPON COMPLETION: <u>14.1</u> ft. ELEV. <u>249.5</u> ▼ 2/4/2019 9:29:23 AM <u>14.3</u> ft. ELEV. <u>249.3</u> </div> <div> CAVED: <u>18.4</u> ft. ELEV. <u>245.2</u> CAVED: <u>14.8</u> ft. ELEV. <u>248.8</u> </div> </div>	SAMPLE TYPES: <div style="text-align: center;"> <input checked="" type="checkbox"/> SPT </div>
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REMARKS: Latitude: 38.79074°
Longitude: -76.85868°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



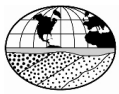
PROJECT: JBA HCP & EOD				LOGGED BY: K. Davis		BORING NUMBER: T-12	
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Connelly & Associates			
OWNER/CLIENT: Wiley Wilson				DRILLER: J. Leatherman		DATES DRILLED: 1/22/19 - 1/22/19	
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 244.1		DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55	

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL				
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)		
							20	40	60	80	
244.1			B1		Topsoil = 5 in.	5	0+2+2+2	5			
243.7					<i>Alluvial</i> , black, fine, SANDY SILT, contains organics, firm, moist, ML	7	5+3+2+3	8			
240.1			B2		<i>Alluvial</i> , orange, fine, POORLY GRADED SAND, loose, moist, SP	9	2+3+4+3	12			
238.1	5				<i>Alluvial</i> , orange, fine, CLAYEY SAND, loose, moist, SC	4	1+2+1+2	18			
236.1					<i>Alluvial</i> , orange, SANDY FAT CLAY, soft, moist, CH	3	0+1+1+1	23			
232.1	10				Green-gray, very soft	3	1+1+1+1	13			
230.1					Soft	4	1+1+2+2	24			
225.6	15				Firm	5	1+2+2	13			
220.6	20		B1		Stiff	12	2+4+5	18			
	25					11	3+3+5	18			
210.6	30				<i>Alluvial</i> , green-gray, fine, CLAYEY SAND, loose, moist, SC	4	1+1+2	18			
	35		B2			5	1+2+2	18			
	40										

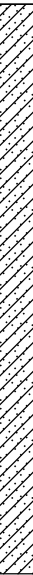

GROUND WATER LEVELS:				SAMPLE TYPES:				
ENCOUNTERED:	3.0	ft.	ELEV. 241.1				<input checked="" type="checkbox"/> SPT	
UPON COMPLETION:	5.3	ft.	ELEV. 238.8	CAVED:	7.9	ft.		ELEV. 236.2
1/23/2019 11:10:05 AM	2.1	ft.	ELEV. 242.0	CAVED:	4.0	ft.		ELEV. 240.1

REMARKS: Latitude: 38.79397°
 Longitude: -76.85981°
 Offset 6 ft NW due to trees.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



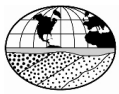
PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: T-12 SHEET 2 OF 2
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ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL						
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)				
									20	40	60	80	
	45	X	B2		<i>Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC (continued)</i>	7	1+2+3	18					
195.6	50	X			Fine to medium	7	1+2+3	18					
190.6	55	X			Medium dense	12	2+3+6	18					
185.6	60	X			Loose	5	1+2+2	18					
	65	X				9	2+3+4	18					
179.1	65				Bottom of Borehole at 65.0 ft.								
	70												
	75												
	80												
	85												
	90												

GROUND WATER LEVELS: <div style="display: flex; justify-content: space-between;"> <div> ▽ ENCOUNTERED: <u>3.0</u> ft. ELEV. <u>241.1</u> ▼ UPON COMPLETION: <u>5.3</u> ft. ELEV. <u>238.8</u> ▼ 1/23/2019 11:10:05 AM <u>2.1</u> ft. ELEV. <u>242.0</u> </div> <div> CAVED: <u>7.9</u> ft. ELEV. <u>236.2</u> CAVED: <u>4.0</u> ft. ELEV. <u>240.1</u> </div> </div>	SAMPLE TYPES: <div style="text-align: center;"> <input checked="" type="checkbox"/> SPT </div>
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REMARKS: Latitude: 38.79397°
 Longitude: -76.85981°
 Offset 6 ft NW due to trees.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



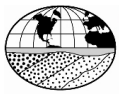
PROJECT: JBA HCP & EOD				LOGGED BY: K. Davis		BORING NUMBER: T-13	
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Connelly & Associates			
OWNER/CLIENT: Wiley Wilson				DRILLER: J. Leatherman		DATES DRILLED: 1/22/19 - 1/23/19	
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 245.6		DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55	

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL				
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)		
							20	40	60	80	
245.6					Topsoil = 3 in.	4	1+1+2+2	23			
245.4			B1		Alluvial, light brown, fine to medium, SANDY LEAN CLAY, soft, moist, CL Firm Orange-gray	5	2+2+2+1	16			
243.6						8	1+3+3+4	15			
241.6	5										
239.6			B2		Alluvial, white-brown, medium to coarse, POORLY GRADED SAND, medium dense, moist, contains quartz, SP Dark orange, with gravel Light orange, coarse, loose	17	6+6+7+5	9			
237.6						11	2+4+4+4	10			
235.6	10										
233.6			B1		Alluvial, light orange, fine to medium, CLAYEY SAND, medium dense, moist, SC Alluvial, light orange, fine, SANDY FAT CLAY, soft, moist, CH Green-gray	9	3+4+3+2	10			
231.6						13	2+4+6+4	5			
227.1	15										
227.1			B1		Firm	3	1+1+1+2	19			
						4	1+1+2	13			
	20										
			B2		Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC	4	1+2+1	13			
217.1						5	1+2+2	18			
	25										
212.1			B2			9	2+3+4	18			
	30										
						4	3+1+2	18			

GROUND WATER LEVELS:				SAMPLE TYPES:			
	ENCOUNTERED:	8.0 ft.	ELEV. 237.6		SPT		
	UPON COMPLETION:	3.5 ft.	ELEV. 242.1	CAVED:	22.3 ft.	ELEV. 223.3	
	1/25/2019 2:55:31 PM	2.7 ft.	ELEV. 242.9	CAVED:	17.2 ft.	ELEV. 228.4	

REMARKS: Latitude: 38.79312° Longitude: -76.85995° Offset 4 ft SW due to trees.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



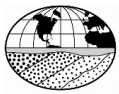
PROJECT:	JBA HCP & EOD	LOGGED BY:	K. Davis	BORING NUMBER: T-13
LOCATION:	Joint Base Andrews, Maryland	DRILLING CONTRACTOR:	Connelly & Associates	
				SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
202.1	45	X	B2		Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC (continued) Firm	5	1+2+2	6	
	50	X				7	1+2+3	18	
192.1	55	X			Stiff	9	1+3+4	18	
187.1	60	X			Firm	8	2+3+3	18	
185.6					Bottom of Borehole at 60.0 ft.				
	65								
	70								
	75								
	80								
	85								
	90								

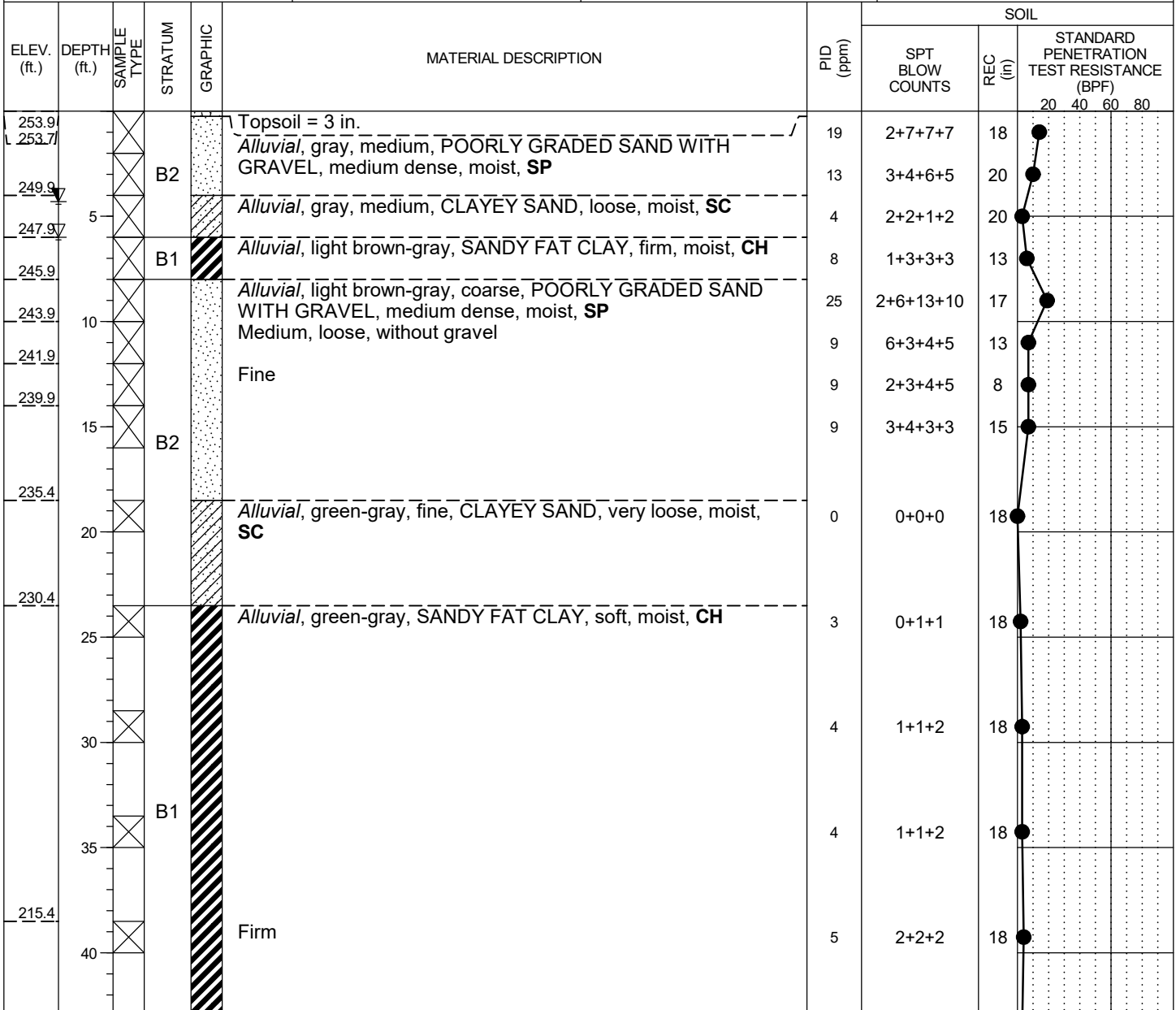
GROUND WATER LEVELS:		SAMPLE TYPES:	
	ENCOUNTERED: 8.0 ft. ELEV. 237.6		SPT
	UPON COMPLETION: 3.5 ft. ELEV. 242.1		
	1/25/2019 2:55:31 PM 2.7 ft. ELEV. 242.9		
	CAVED: 22.3 ft. ELEV. 223.3		
	CAVED: 17.2 ft. ELEV. 228.4		

REMARKS: Latitude: 38.79312° Longitude: -76.85995° Offset 4 ft SW due to trees.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



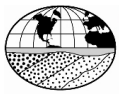
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: T-14
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/25/19 - 2/25/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 253.9	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED: <u>6.0</u> ft. ELEV. <u>247.9</u>		<input checked="" type="checkbox"/> SPT	
UPON COMPLETION: <u>4.3</u> ft. ELEV. <u>249.6</u>	CAVED: <u>11.3</u> ft. ELEV. <u>242.6</u>		

REMARKS: Latitude: 38.79687°
Longitude: -76.85966°
Offset 9 ft NE to avoid water line.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



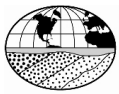
PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: T-14 SHEET 2 OF 2
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ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL					
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)			
									20	40	60	80
210.4		X			Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC	4	0+2+1	18				
	45											
		X	B2			5	1+2+2	18				
	50											
200.4		X			Alluvial, green-gray, SANDY FAT CLAY, firm, moist, CH	7	1+3+2	18				
	55		B1									
		X			Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC	5	1+2+2	18				
195.4			B2									
	60				Bottom of Borehole at 60.0 ft.							
193.9												
	65											
	70											
	75											
	80											
	85											
	90											

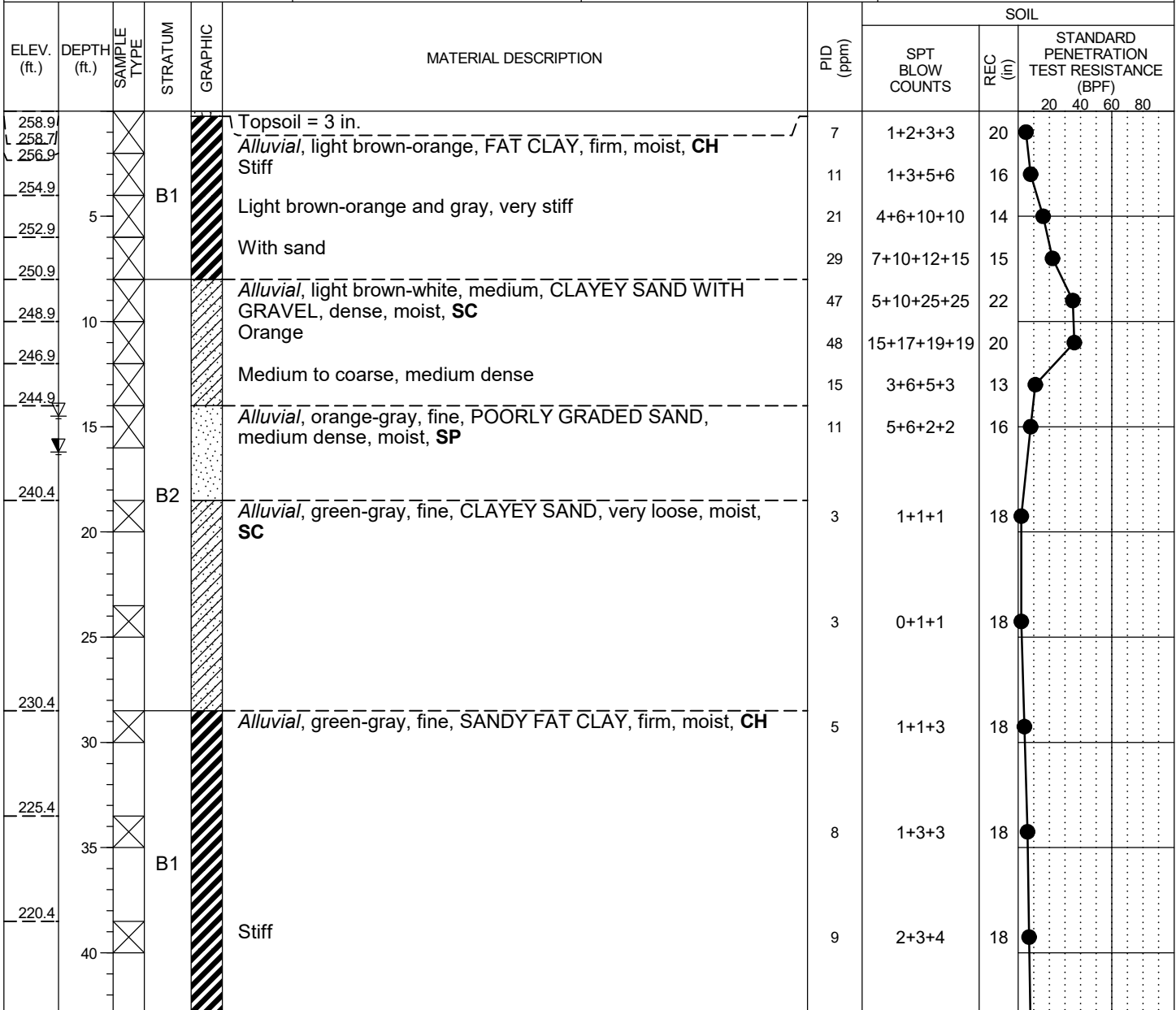
GROUND WATER LEVELS: <div style="display: flex; justify-content: space-between;"> <div> ENCOUNTERED: <u>6.0</u> ft. ELEV. <u>247.9</u> UPON COMPLETION: <u>4.3</u> ft. ELEV. <u>249.6</u> </div> <div> CAVED: <u>11.3</u> ft. ELEV. <u>242.6</u> </div> </div>	SAMPLE TYPES: <div style="text-align: center;"> <input checked="" type="checkbox"/> SPT </div>
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REMARKS: Latitude: 38.79687°
 Longitude: -76.85966°
 Offset 9 ft NE to avoid water line.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: T-15
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/26/19 - 2/26/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 258.9	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



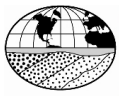
GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	14.5 ft. ELEV. 244.4	<input checked="" type="checkbox"/> SPT	
UPON COMPLETION:	16.2 ft. ELEV. 242.7		
CAVED: 17.9 ft. ELEV. 241.0			

REMARKS: Latitude: 38.79701°
Longitude: -76.86087°

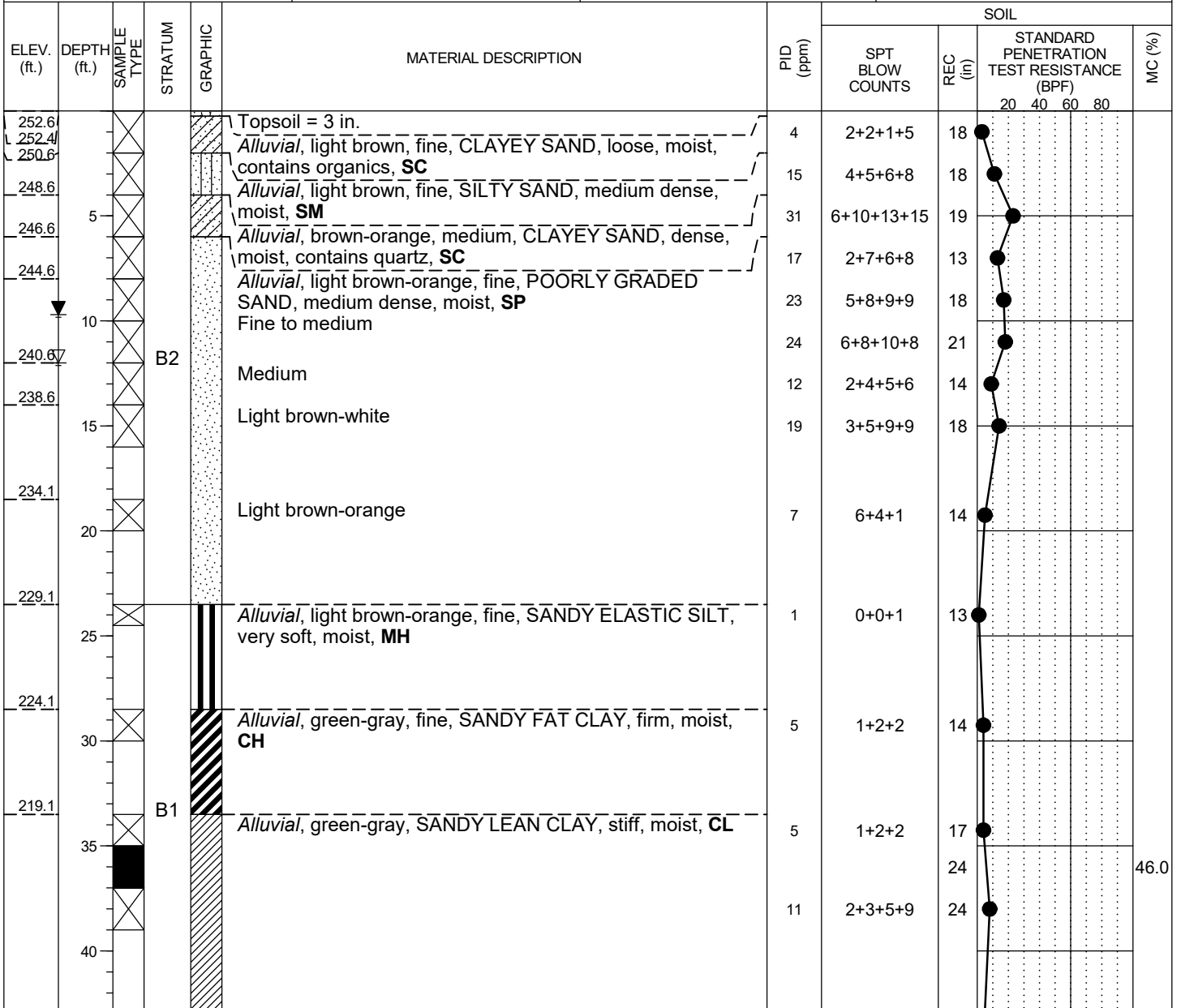
THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

PROJECT:				LOGGED BY:				BORING NUMBER:			
JBA HCP & EOD				K. Davis				T-15			
LOCATION:				DRILLING CONTRACTOR:							
Joint Base Andrews, Maryland				Connelly & Associates				SHEET 2 OF 2			
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL				
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80		
215.4	45		B1		Alluvial, green-gray, fine, SANDY FAT CLAY, firm, moist, CH (continued)	11	3+3+5	18			
210.4	50		B2		Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC	4	1+1+2	18			
	55					5	2+2+2	18			
200.4	60		B1		Alluvial, green-gray, SANDY FAT CLAY, firm, moist, CH	7	0+2+3	18			
198.9	60				Bottom of Borehole at 60.0 ft.						
	65										
	70										
	75										
	80										
	85										
	90										
GROUND WATER LEVELS:							SAMPLE TYPES:				
ENCOUNTERED: 14.5 ft. ELEV. 244.4							SPT				
UPON COMPLETION: 16.2 ft. ELEV. 242.7							CAVED: 17.9 ft. ELEV. 241.0				
REMARKS: Latitude: 38.79701° Longitude: -76.86087°											

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

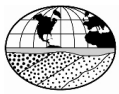


PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis	BORING NUMBER: T-16 SHEET 1 OF 3
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates	
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman	DATES DRILLED: 1/28/19 - 1/28/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 252.6	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer	DRILL RIG: CME 55



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED: <u>12.0</u> ft. ELEV. <u>240.6</u>		SPT	
NOT ENCOUNTERED UPON COMPLETION	CAVED: <u>11.2</u> ft. ELEV. <u>241.4</u>	Undisturbed Sample	
1/29/2019 <u>9.7</u> ft. ELEV. <u>242.9</u>	CAVED: <u>11.0</u> ft. ELEV. <u>241.6</u>		

REMARKS: Latitude: 38.79253°
Longitude: -76.86004°



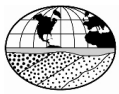
PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: T-16 SHEET 2 OF 3
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ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)				MC (%)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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209.1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															






GROUND WATER LEVELS: ▽ ENCOUNTERED: <u>12.0</u> ft. ELEV. <u>240.6</u> NOT ENCOUNTERED UPON COMPLETION ▽ 1/29/2019 <u>9.7</u> ft. ELEV. <u>242.9</u> CAVED: <u>11.2</u> ft. ELEV. <u>241.4</u> CAVED: <u>11.0</u> ft. ELEV. <u>241.6</u>	SAMPLE TYPES: <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; width: 20px; height: 20px; margin-right: 5px;"></div> <div>SPT</div> </div> <div style="display: flex; align-items: center;"> <div style="background-color: black; width: 20px; height: 20px; margin-right: 5px;"></div> <div>Undisturbed Sample</div> </div>
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REMARKS: Latitude: 38.79253°
Longitude: -76.86004°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



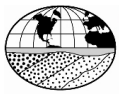
PROJECT: JBA HCP & EOD	LOGGED BY: K. Davis	BORING NUMBER: T-16
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Connelly & Associates	SHEET 3 OF 3

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL							
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)				MC (%)	
									20	40	60	80		
	95		B2		Alluvial, green-gray, fine, SILTY SAND, loose, moist, SM (continued)	8	1+3+3	18						
154.1	100				Medium dense	11	2+3+5	18						
152.6					Bottom of Borehole at 100.0 ft.									
	105													
	110													
	115													
	120													
	125													
	130													
	135													
	140													

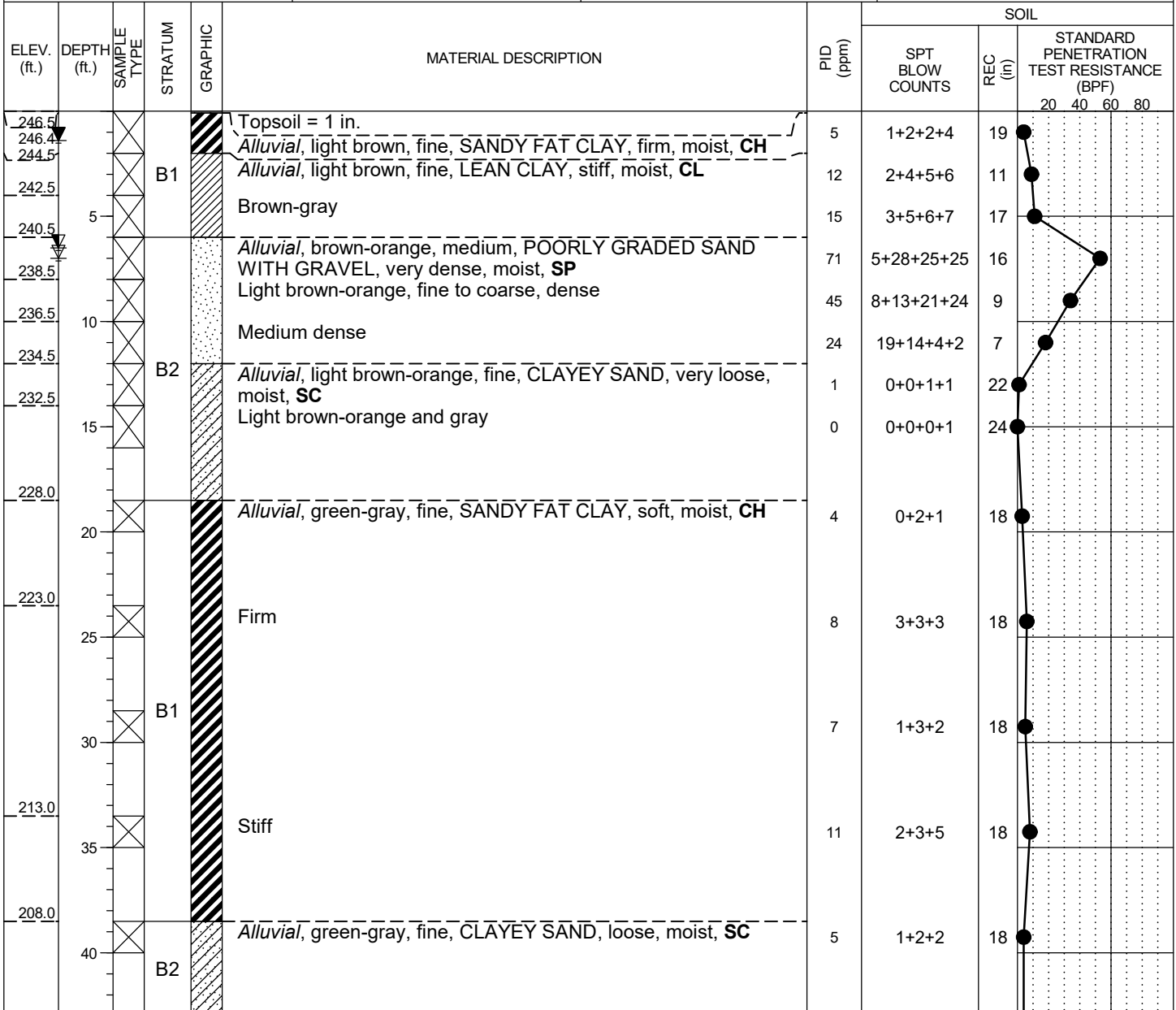
GROUND WATER LEVELS: <div style="display: flex; justify-content: space-between;"> <div> ENCOUNTERED: <u>12.0</u> ft. ELEV. <u>240.6</u> NOT ENCOUNTERED UPON COMPLETION </div> <div> CAVED: <u>11.2</u> ft. ELEV. <u>241.4</u> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> 1/29/2019 <u>9.7</u> ft. ELEV. <u>242.9</u> </div> <div> CAVED: <u>11.0</u> ft. ELEV. <u>241.6</u> </div> </div>	SAMPLE TYPES: <div style="margin-top: 10px;"> SPT Undisturbed Sample </div>
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REMARKS: Latitude: 38.79253°
Longitude: -76.86004°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



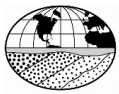
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: T-17
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/14/19 - 2/15/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 246.5	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



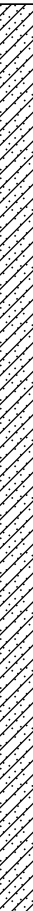

GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	7.0	ft.	ELEV. 239.5		<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	6.5	ft.	ELEV. 240.0	CAVED: 7.0		ft.	ELEV. 239.5
2/18/2019 8:43:08 AM	1.4	ft.	ELEV. 245.1	CAVED: 16.2		ft.	ELEV. 230.3

REMARKS: Latitude: 38.79172°
Longitude: -76.85965°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



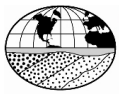
PROJECT: JBA HCP & EOD	LOGGED BY: K. Davis	BORING NUMBER: T-17
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Connelly & Associates	SHEET 2 OF 3

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL						
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)				
									20	40	60	80	
	45	X	B2		Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC (continued)	5	1+2+2	18					
	50	X				5	1+2+2	18					
	55	X				5	2+2+2	18					
	60	X				9	1+3+4	18					
	65	X				5	1+2+2	18					
	70	X				9	2+3+4	18					
	75	X				9	2+3+4	18					
168.0	80	X				11	2+3+5	18					
	85	X				11	2+3+5	18					
158.0	90	X				9	2+2+5	18					
					Medium dense								
					Medium, loose								

GROUND WATER LEVELS: <div style="display: flex; justify-content: space-between;"> <div> ▽ ENCOUNTERED: <u>7.0</u> ft. ELEV. <u>239.5</u> ▼ UPON COMPLETION: <u>6.5</u> ft. ELEV. <u>240.0</u> ▼ 2/18/2019 8:43:08 AM <u>1.4</u> ft. ELEV. <u>245.1</u> </div> <div> CAVED: <u>7.0</u> ft. ELEV. <u>239.5</u> CAVED: <u>16.2</u> ft. ELEV. <u>230.3</u> </div> </div>	SAMPLE TYPES: <div style="text-align: center;"> <input checked="" type="checkbox"/> SPT </div>
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REMARKS: Latitude: 38.79172°
Longitude: -76.85965°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



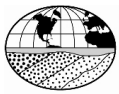
PROJECT:	JBA HCP & EOD	LOGGED BY:	K. Davis	BORING NUMBER: T-17
LOCATION:	Joint Base Andrews, Maryland	DRILLING CONTRACTOR:	Connelly & Associates	
				SHEET 3 OF 3

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL						
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)				
									20	40	60	80	
153.0	95		B2		Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC (continued) Medium dense	17	3+6+7	18					
146.5	100							17	3+6+7	18			
	100				Bottom of Borehole at 100.0 ft.								
	105												
	110												
	115												
	120												
	125												
	130												
	135												
	140												

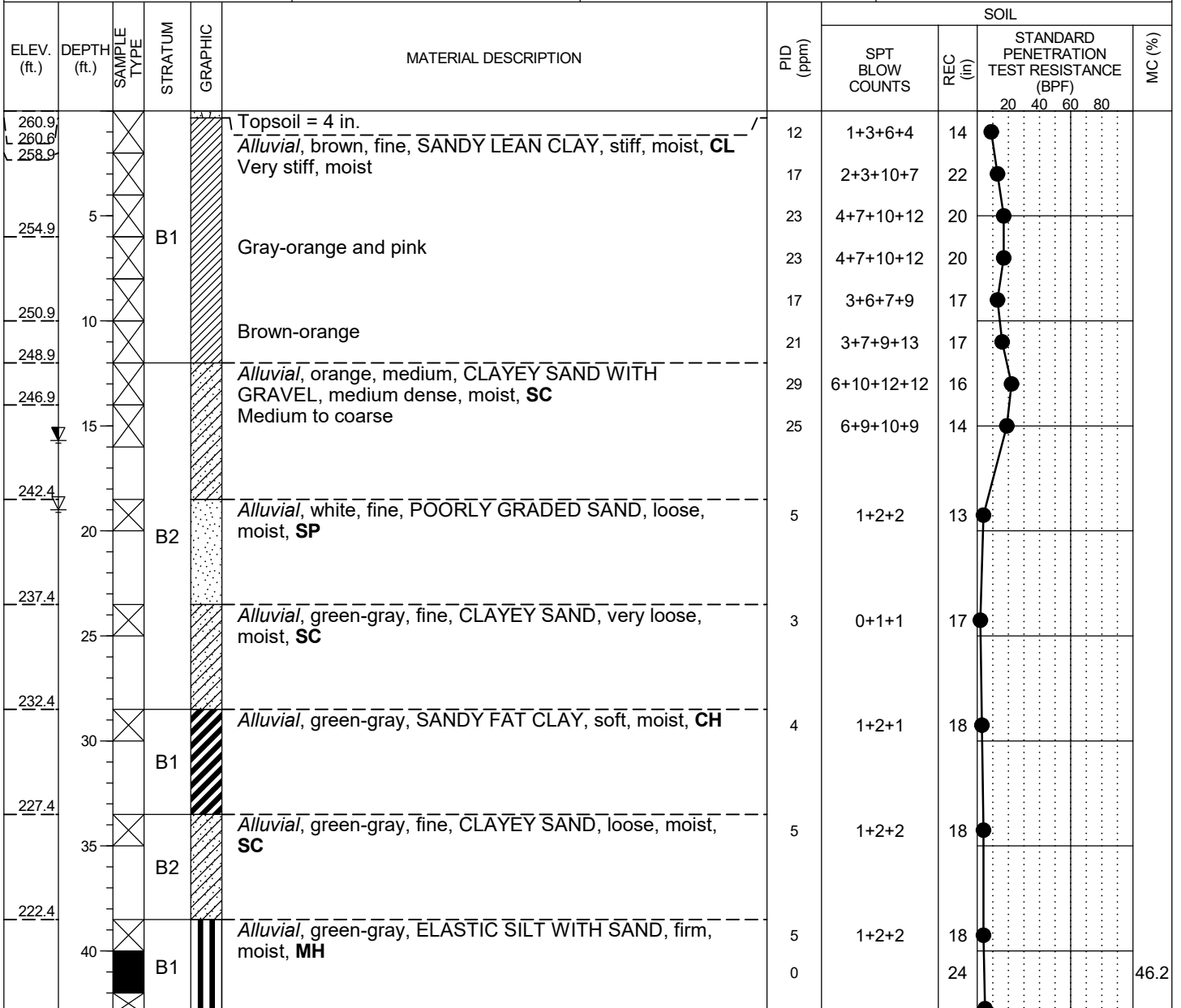
GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: 7.0 ft. ELEV. 239.5 ▼ UPON COMPLETION: 6.5 ft. ELEV. 240.0 ▼ 2/18/2019 8:43:08 AM 1.4 ft. ELEV. 245.1	☒ SPT
CAVED: 7.0 ft. ELEV. 239.5 CAVED: 16.2 ft. ELEV. 230.3	

REMARKS: Latitude: 38.79172°
Longitude: -76.85965°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



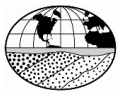
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: T-2
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/26/19 - 2/26/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 260.9	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	19.0 ft. ELEV. 241.9		SPT
UPON COMPLETION:	15.7 ft. ELEV. 245.2		Undisturbed Sample
CAVED: 16.2 ft. ELEV. 244.7			

REMARKS: Latitude: 38.79717°
Longitude: -76.86037°
Collected bulk sample from 0'-5'.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



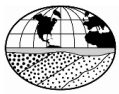
PROJECT: JBA HCP & EOD	LOGGED BY: K. Davis	BORING NUMBER: T-2
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Connelly & Associates	
		SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)	MC (%)
	45	X	B1		Alluvial, green-gray, ELASTIC SILT WITH SAND, firm, moist, MH (continued)	7 9	2+2+3 1+3+4	18 18		
212.4	50	X			Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC	5	1+2+2	18		
	55	X	B2			5	1+2+2	18		
200.9	60	X			Bottom of Borehole at 60.0 ft.	5	1+2+2	18		
	65									
	70									
	75									
	80									
	85									
	90									

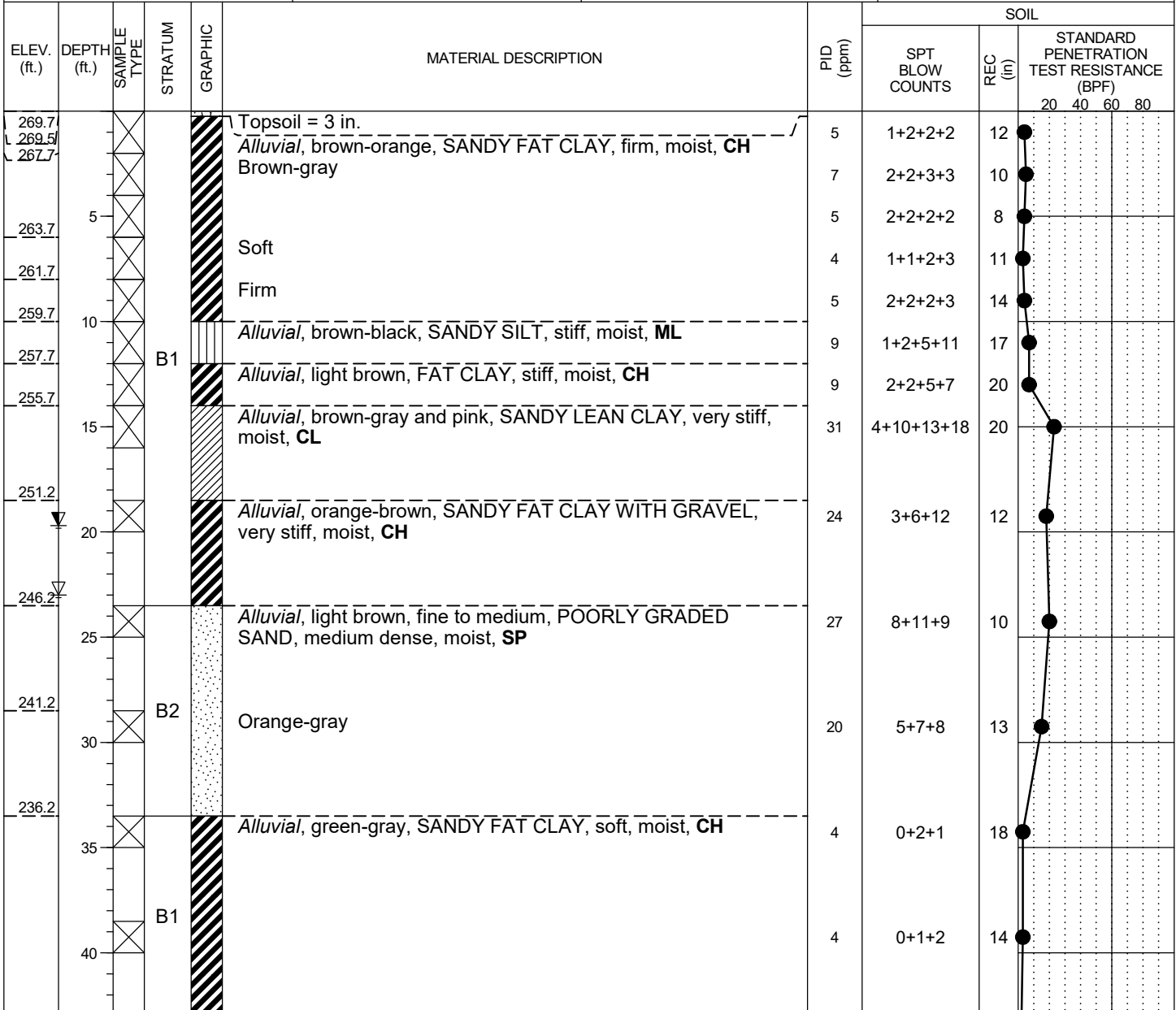
GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: <u>19.0</u> ft. ELEV. <u>241.9</u> ▼ UPON COMPLETION: <u>15.7</u> ft. ELEV. <u>245.2</u>	☒ SPT ■ Undisturbed Sample
CAVED: <u>16.2</u> ft. ELEV. <u>244.7</u>	

REMARKS: Latitude: 38.79717°
Longitude: -76.86037°
Collected bulk sample from 0'-5'.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



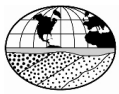
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: T-3
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/27/19 - 2/27/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 269.7	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:		SAMPLE TYPES: <input checked="" type="checkbox"/> SPT
ENCOUNTERED: 23.0 ft. ELEV. 246.7	UPON COMPLETION: 19.7 ft. ELEV. 250.0	
CAVED: 23.7 ft. ELEV. 246.0		

REMARKS: Latitude: 38.79647°
Longitude: -76.86007°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



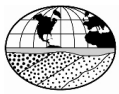
PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: T-3 SHEET 2 OF 2
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ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL	
							SPT BLOW COUNTS	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
	45	X	B1		<i>Alluvial, green-gray, SANDY FAT CLAY, soft, moist, CH (continued)</i>	3	1+1+1	18
221.2	50	X			Firm	5	1+2+2	18
216.2	55	X			Stiff	9	2+3+4	18
211.2	60	X	B2		<i>Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC</i>	4	1+1+2	18
209.7	Bottom of Borehole at 60.0 ft.							
	65							
	70							
	75							
	80							
	85							
	90							

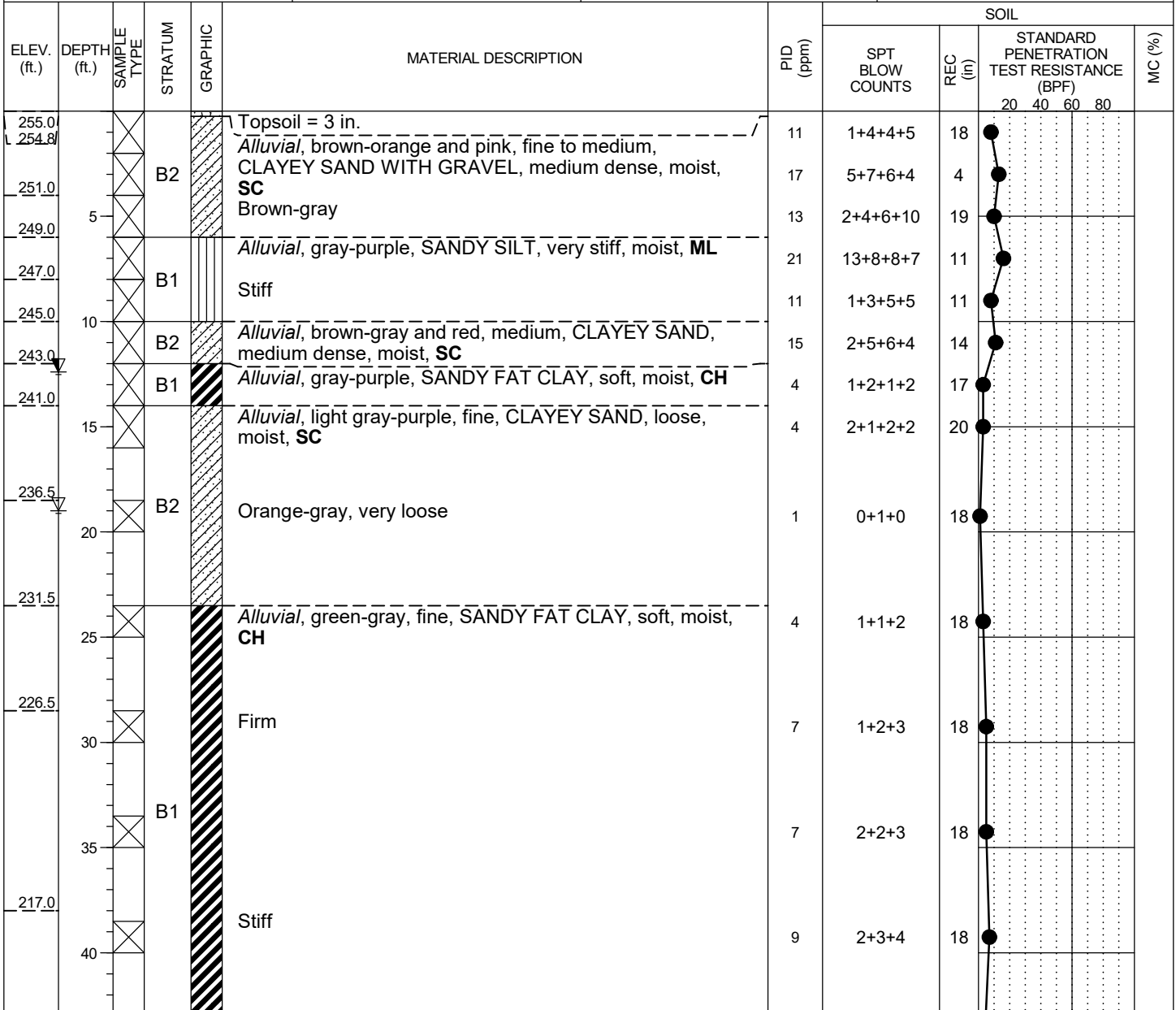
GROUND WATER LEVELS: <div style="display: flex; justify-content: space-between;"> <div> ENCOUNTERED: <u>23.0</u> ft. ELEV. <u>246.7</u> UPON COMPLETION: <u>19.7</u> ft. ELEV. <u>250.0</u> </div> <div> CAVED: <u>23.7</u> ft. ELEV. <u>246.0</u> </div> </div>	SAMPLE TYPES: <div style="text-align: center;"> <input checked="" type="checkbox"/> SPT </div>
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REMARKS: Latitude: 38.79647° Longitude: -76.86007°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



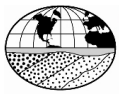
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis	BORING NUMBER: T-4
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates	
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman	DATES DRILLED: 2/27/19 - 2/27/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 255.0 ±	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer	DRILL RIG: CME 55



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED: 19.0 ft. ELEV. 236.0		SPT	
UPON COMPLETION: 12.4 ft. ELEV. 242.6	CAVED: 58.2 ft. ELEV. 196.8	Undisturbed Sample	

REMARKS: Latitude: 38.79588°
Longitude: -76.85935°
Offset 125 ft S due to stormwater drain.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



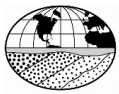
PROJECT: JBA HCP & EOD	LOGGED BY: K. Davis	BORING NUMBER: T-4
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Connelly & Associates	
		SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80	MC (%)
211.5	45	X			<i>Alluvial</i> , green-gray, fine, SILT WITH SAND, firm, moist, ML	5	1+2+2	18		
206.5	50	X			Soft	4	1+1+2	18		
203.0	55	X	B1		Firm	5	1+1+3	18		
	55	X				7	1+2+3	18		
	60	X				5	1+1+3	18		
195.0	60				Bottom of Borehole at 60.0 ft.					
	65									
	70									
	75									
	80									
	85									
	90									

GROUND WATER LEVELS: ▽ ENCOUNTERED: <u>19.0</u> ft. ELEV. <u>236.0</u> ▼ UPON COMPLETION: <u>12.4</u> ft. ELEV. <u>242.6</u>	SAMPLE TYPES: X SPT ■ Undisturbed Sample
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REMARKS: Latitude: 38.79588°
Longitude: -76.85935°
Offset 125 ft S due to stormwater drain.

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



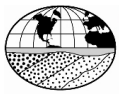
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: T-5
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 2/28/19 - 2/28/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 250.2	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
250.2					Topsoil = 1 in.	7	1+3+2+3	19	
250.1						15	2+6+5+5	15	
248.2			B1		Alluvial, brown-red, SANDY FAT CLAY, firm, moist, CH Stiff				
246.2						11	5+4+4+5	12	
244.2	5		B2		Alluvial, brown-red, medium, CLAYEY SAND, medium dense, moist, SC				
242.2					Alluvial, gray-purple, SANDY LEAN CLAY, stiff, moist, CL	11	4+4+4+6	11	
242.2			B1			9	4+3+4+2	5	
240.2	10				Alluvial, light gray-purple, fine, CLAYEY SAND, medium dense, moist, SC	11	3+5+3+3	17	
238.2					Alluvial, light gray-purple, fine to medium, POORLY GRADED SAND WITH GRAVEL, medium dense, moist, SW	15	4+7+4+2	6	
236.2	15				Alluvial, orange-gray, fine, CLAYEY SAND, loose, moist, SC	4	1+1+2+1	20	
231.7			B2						
231.7	20				Green-gray	4	0+1+2	18	
226.7						7	1+2+3	18	
226.7	25				Alluvial, green-gray, fine, SANDY FAT CLAY, firm, moist, CH				
216.7						7	1+3+2	18	
216.7	30		B1						
211.7					Stiff	9	2+3+4	18	
211.7	35								
211.7	40		B2		Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC	4	1+2+1	18	

GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	13.0 ft. ELEV. 237.2	ENCOUNTERED:	ENCOUNTERED:
UPON COMPLETION:	37.1 ft. ELEV. 213.1	UPON COMPLETION:	UPON COMPLETION:
CAVED:	45.0 ft. ELEV. 205.2	CAVED:	CAVED:

REMARKS: Latitude: 38.79523°
Longitude: -76.85966°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



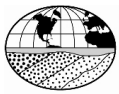
PROJECT: <div style="text-align: center;">JBA HCP & EOD</div>	LOGGED BY: <div style="text-align: center;">K. Davis</div>	BORING NUMBER: <div style="text-align: center;">T-5</div>
LOCATION: <div style="text-align: center;">Joint Base Andrews, Maryland</div>	DRILLING CONTRACTOR: <div style="text-align: center;">Connelly & Associates</div>	SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL					
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)			
									20	40	60	80
	45	<div></div>	B2	<div></div>	Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC (continued)	4	1+2+1	18	<div></div>	<div></div>	<div></div>	<div></div>
	50	<div></div>		4		1+1+2	18	<div></div>	<div></div>	<div></div>	<div></div>	
	55	<div></div>		4		2+1+2	18	<div></div>	<div></div>	<div></div>	<div></div>	
	60	<div></div>		7		1+2+3	18	<div></div>	<div></div>	<div></div>	<div></div>	
190.2	60				Bottom of Borehole at 60.0 ft.							
	65											
	70											
	75											
	80											
	85											
	90											

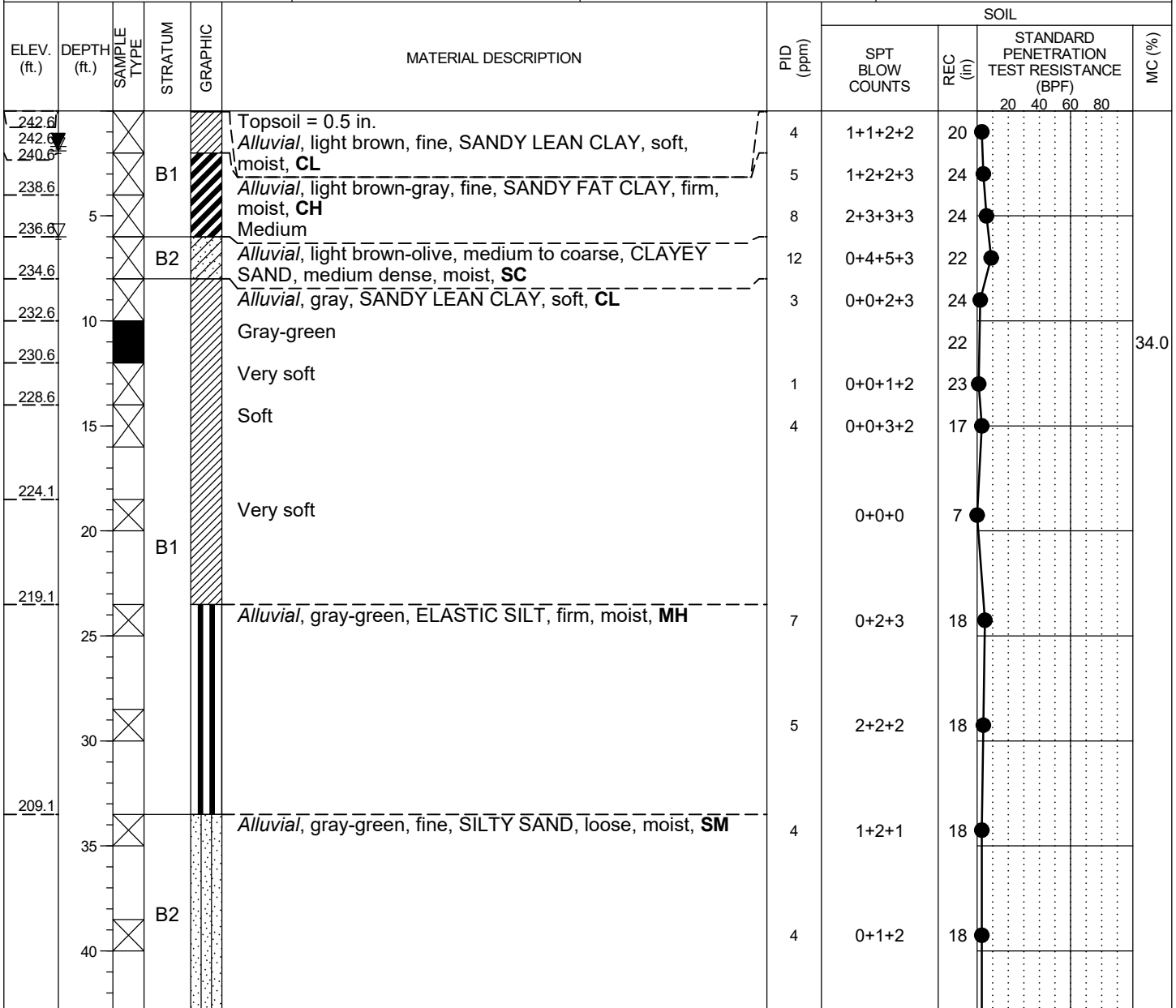
GROUND WATER LEVELS: <div style="display: flex; justify-content: space-between;"> <div> ENCOUNTERED: <u>13.0</u> ft. ELEV. <u>237.2</u> UPON COMPLETION: <u>37.1</u> ft. ELEV. <u>213.1</u> </div> <div> CAVED: <u>45.0</u> ft. ELEV. <u>205.2</u> </div> </div>	SAMPLE TYPES: <div style="text-align: center;"> <input checked="" type="checkbox"/> SPT </div>
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REMARKS: Latitude: 38.79523° Longitude: -76.85966°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



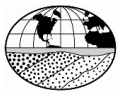
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: T-6
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 1/16/19 - 1/16/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 242.6	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	6.0	ft.	ELEV.	236.6	 SPT  Undisturbed Sample		
UPON COMPLETION:	1.9	ft.	ELEV.	240.7			
1/17/2019 3:47:09 PM	1.7	ft.	ELEV.	240.9			
			CAVED:	19.0	ft.	ELEV.	223.6
			CAVED:	18.8	ft.	ELEV.	223.8

REMARKS: Latitude: 38.79450°
Longitude: -76.85938°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

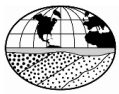


PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis	BORING NUMBER: T-6
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates	
SHEET 2 OF 2			

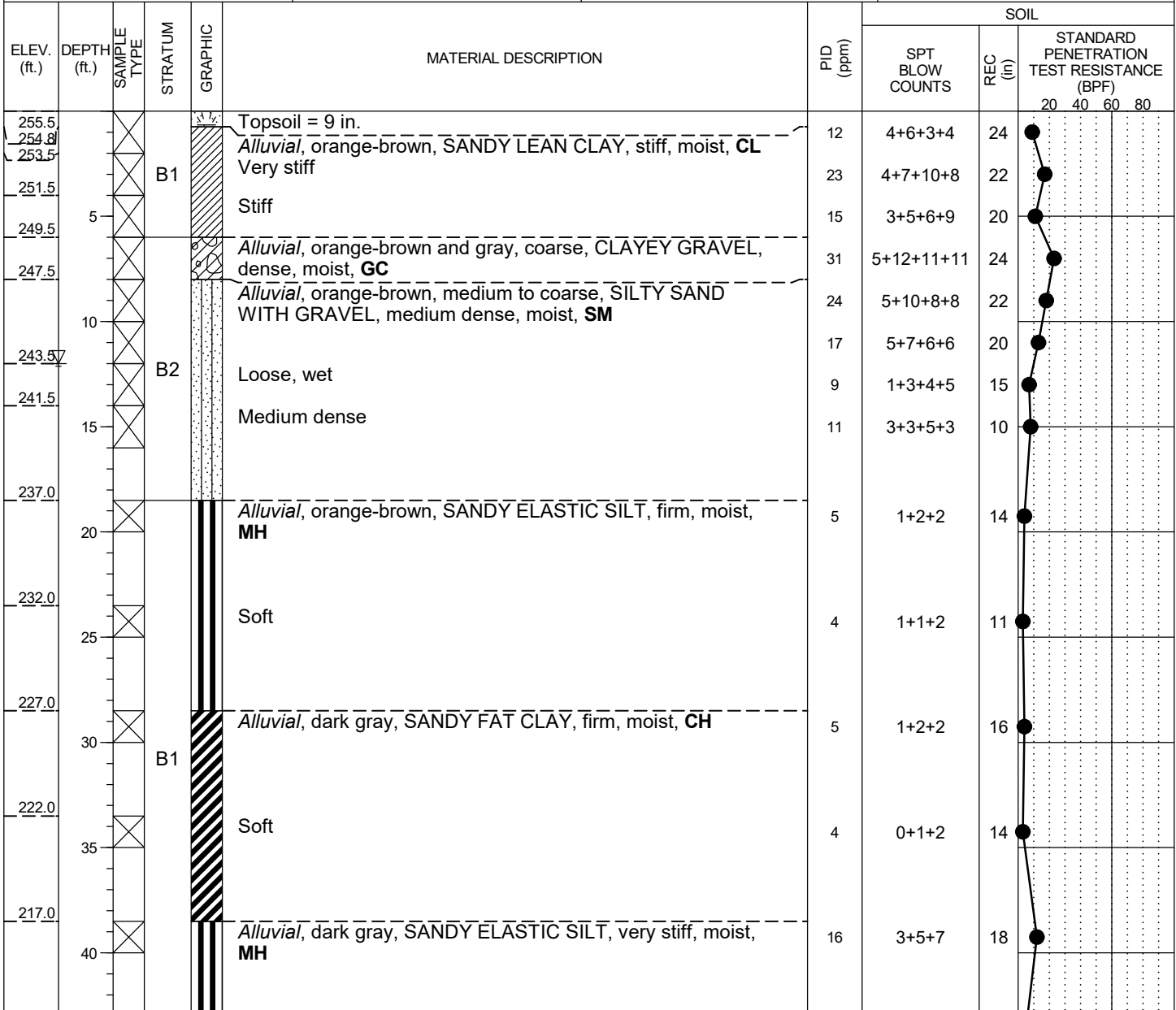
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80	MC (%)
	45	X			Alluvial, gray-green, fine, SILTY SAND, loose, moist, SM (continued)	4	1+2+1	18		
	50	X				4	0+1+2	18		
	55	X	B2			8	2+2+3+7	24		39.0
	60	X				4	0+1+2	18		
182.6	60				Bottom of Borehole at 60.0 ft.					
	65									
	70									
	75									
	80									
	85									
	90									

GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	6.0	ft.	ELEV.	236.6	SPT Undisturbed Sample		
UPON COMPLETION:	1.9	ft.	ELEV.	240.7			
1/17/2019 3:47:09 PM	1.7	ft.	ELEV.	240.9			
CAVED:				19.0	ft.	ELEV.	223.6
CAVED:				18.8	ft.	ELEV.	223.8

REMARKS: Latitude: 38.79450°
Longitude: -76.85938°



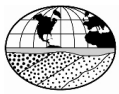
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: T-7
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 1/15/19 - 1/15/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 255.5	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED: <u>12.0</u> ft. ELEV. <u>243.5</u>		<input checked="" type="checkbox"/> SPT	
NOT ENCOUNTERED UPON COMPLETION	CAVED: <u>5.0</u> ft. ELEV. <u>250.5</u>		
1/16/2019: NOT ENCOUNTERED	CAVED: <u>4.5</u> ft. ELEV. <u>251.0</u>		

REMARKS: Latitude: 38.79362°
Longitude: -76.85931°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



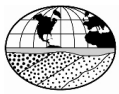
PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: R. Soper DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: T-7 SHEET 2 OF 2
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ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL	
							SPT BLOW COUNTS	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
212.0	45				<i>Alluvial, dark gray, CLAYEY SAND, loose, moist, SC</i>	5	2+2+2	18
207.0	50		B2		Very loose	0	0+0+0	18
202.0	55				Loose	7	0+2+3	18
197.0	60		B1		<i>Alluvial, dark gray, SANDY FAT CLAY, very soft, moist, CH</i>	3	1+1+1	18
192.0	65				<i>Alluvial, dark gray, SILTY SAND, loose, moist, SM</i>	7	1+2+3	18
	70		B2			7	1+2+3	18
185.5	70				Bottom of Borehole at 70.0 ft.			
	75							
	80							
	85							
	90							

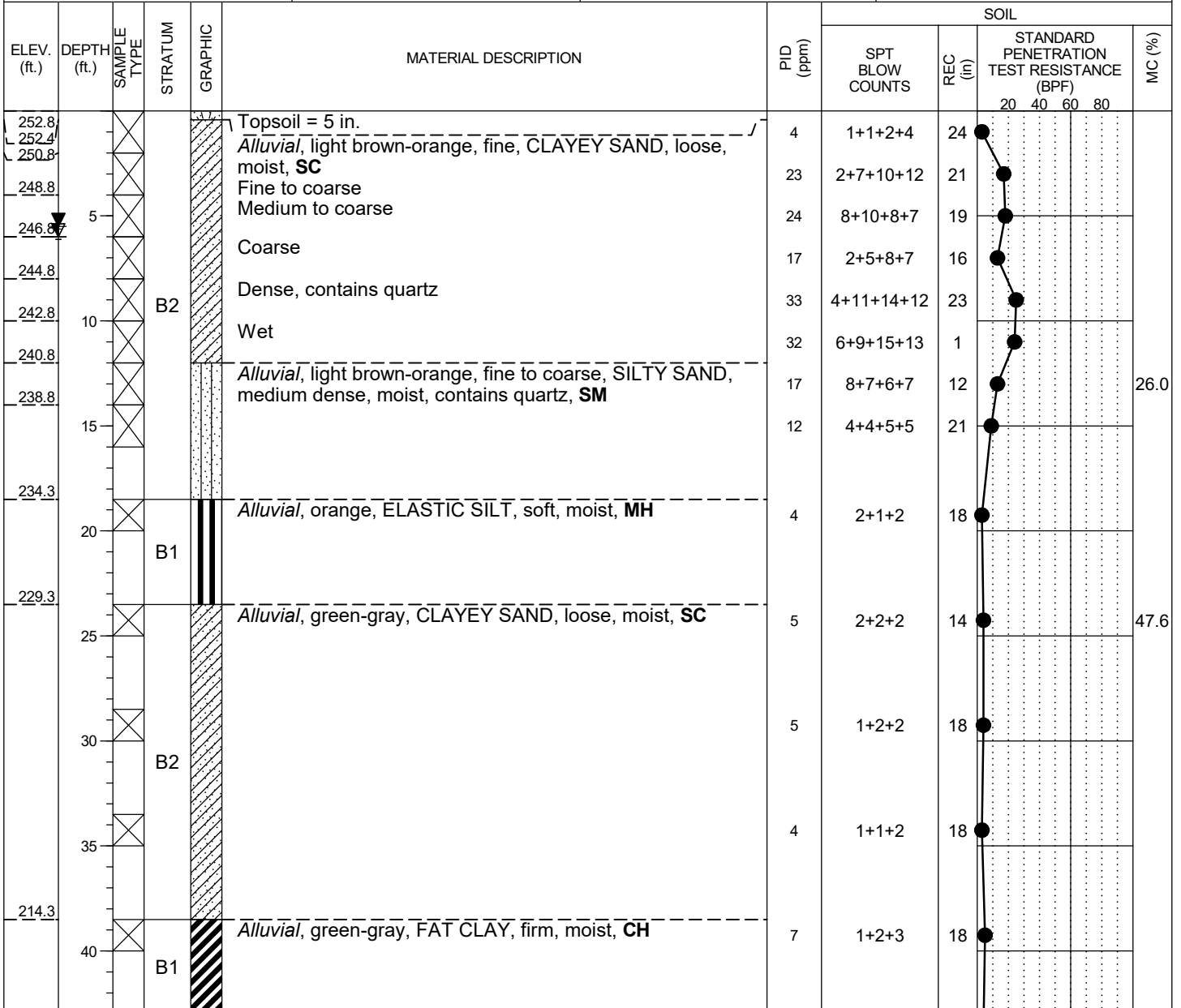
GROUND WATER LEVELS: ▽ ENCOUNTERED: <u>12.0</u> ft. ELEV. <u>243.5</u> NOT ENCOUNTERED UPON COMPLETION 1/16/2019: NOT ENCOUNTERED	SAMPLE TYPES: ☒ SPT
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REMARKS: Latitude: 38.79362°
Longitude: -76.85931°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



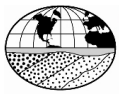
PROJECT: JBA HCP & EOD		LOGGED BY: K. Davis		BORING NUMBER: T-8
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Connelly & Associates		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Leatherman		DATES DRILLED: 1/17/19 - 1/17/19
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 252.8	DRILLING METHOD: 3.25 ID HSA; Automatic Hammer		DRILL RIG: CME 55



GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	6.0	ft.	ELEV.	246.8	<input checked="" type="checkbox"/> SPT		
UPON COMPLETION:	6.0	ft.	ELEV.	246.8			
1/18/2019	5.5	ft.	ELEV.	247.3			
			CAVED:	6.0	ft.	ELEV.	246.8
			CAVED:	6.2	ft.	ELEV.	246.6

REMARKS: Latitude: 38.79235°
Longitude: -76.85950°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: T-8 SHEET 2 OF 2
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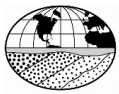
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
209.3	45	B1			<i>Alluvial, green-gray, fine, SANDY SILT, firm, moist, ML</i>	5	2+2+2	18	
	50					3	0+1+1	18	
	55					4	1+2+1	18	
194.3	60					5	1+2+2	18	48.1
189.3	65	B2			<i>Alluvial, green-gray, fine, SILTY SAND, loose, moist, SM</i>	8	1+2+4	18	
	70					5	1+2+2	16	
179.3	75					11	2+4+4	18	42.4
177.8					Bottom of Borehole at 75.0 ft.				

GROUND WATER LEVELS: ▽ ENCOUNTERED: <u>6.0</u> ft. ELEV. <u>246.8</u> ▼ UPON COMPLETION: <u>6.0</u> ft. ELEV. <u>246.8</u> CAVED: <u>6.0</u> ft. ELEV. <u>246.8</u> ▼ 1/18/2019 <u>5.5</u> ft. ELEV. <u>247.3</u> CAVED: <u>6.2</u> ft. ELEV. <u>246.6</u>	SAMPLE TYPES: <div style="border: 1px solid black; width: 30px; height: 30px; display: flex; align-items: center; justify-content: center;"> <div style="width: 10px; height: 10px; border: 1px solid black; margin: 2px;"></div> <div style="margin-left: 5px;">SPT</div> </div>
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REMARKS: Latitude: 38.79235°
Longitude: -76.85950°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA LOGS.GPJ GEOCONCEPTS 20170216.GDT 4/25/19



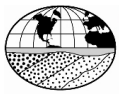
PROJECT: JBA HCP & EOD				LOGGED BY: K. Davis				BORING NUMBER: T-9 SHEET 1 OF 2			
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Connelly & Associates							
OWNER/CLIENT: Wiley Wilson				DRILLER: J. Leatherman				DATES DRILLED: 1/18/19 - 1/18/19			
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 254.1		DRILLING METHOD: 3.25 ID HSA; Automatic Hammer				DRILL RIG: CME 55			

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
254.1			B1		Topsoil = 2 in.	3	1+1+1+4	12	
253.9					<i>Alluvial</i> , light brown, fine, SANDY FAT CLAY, soft, moist, CH Very stiff, contains quartz	16	3+6+6+6	23	
252.1			B2		<i>Alluvial</i> , light brown, medium, POORLY GRADED SAND, medium dense, moist, contains quartz, SP	25	2+5+14+17	22	
250.1	5				<i>Alluvial</i> , brown, medium, CLAYEY SAND, medium dense, moist, SC	23	1+6+11+12	14	
248.1					<i>Alluvial</i> , brown, medium, POORLY GRADED SAND, medium dense, moist, SP	20	6+7+8+10	20	
246.1					Coarse	23	3+5+12+10	17	
244.1	10				Contains quartz	17	3+6+7+6	16	
242.1						16	3+6+6+7	2	
240.1	15					21	5+7+9	11	
	20								
230.6	25				Loose	4	1+1+2	2	
	30					5	2+2+2	18	
225.6			B1		<i>Alluvial</i> , green-gray, fine, CLAYEY SAND, loose, moist, SC				
	35				<i>Alluvial</i> , green-gray, SANDY FAT CLAY, firm, moist, CH	5	1+2+2	18	
220.6	40					8	2+3+3	15	

GROUND WATER LEVELS:				SAMPLE TYPES:			
	ENCOUNTERED:	13.5 ft.	ELEV. 240.6		SPT		
	UPON COMPLETION:	14.0 ft.	ELEV. 240.1				
	1/22/2019 1:18:59 PM	5.0 ft.	ELEV. 249.1	CAVED:	14.5 ft.	ELEV. 239.6	
				CAVED:	13.0 ft.	ELEV. 241.1	

REMARKS: Latitude: 38.79089°
 Longitude: -76.85954°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: K. Davis DRILLING CONTRACTOR: Connelly & Associates	BORING NUMBER: T-9 SHEET 2 OF 2
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ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL	
							SPT BLOW COUNTS	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
	45		B1		<i>Alluvial, green-gray, SANDY FAT CLAY, firm, moist, CH (continued)</i>	8	1+3+3	18
205.6	50				<i>Alluvial, green-gray, fine, CLAYEY SAND, loose, moist, SC</i>	7	2+2+3	18
	55					5	1+2+2	18
	60		B2			7	2+2+3	18
	65					5	2+1+3	18
185.6	70				Loose	5	1+2+2	5
180.6	75				Medium dense	12	2+4+5	18
179.1					Bottom of Borehole at 75.0 ft.			
	80							
	85							
	90							

GROUND WATER LEVELS: ▽ ENCOUNTERED: <u>13.5</u> ft. ELEV. <u>240.6</u> ▼ UPON COMPLETION: <u>14.0</u> ft. ELEV. <u>240.1</u> CAVED: <u>14.5</u> ft. ELEV. <u>239.6</u> ▼ 1/22/2019 1:18:59 PM <u>5.0</u> ft. ELEV. <u>249.1</u> CAVED: <u>13.0</u> ft. ELEV. <u>241.1</u>	SAMPLE TYPES: SPT
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REMARKS: Latitude: 38.79089°
Longitude: -76.85954°

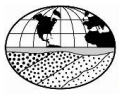
THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

PROJECT: JBA HCP & EOD						LOGGED BY: R. Soper				BORING NUMBER: MCR-1			
LOCATION: Joint Base Andrews, Maryland						DRILLING CONTRACTOR: Terracon				SHEET 1 OF 1			
OWNER/CLIENT: Wiley Wilson						DRILLER: J. Labas				DATES DRILLED: 5/19/20			
PROJECT NUMBER: JD175507			GROUND SURFACE ELEVATION (ft.): 251.8			DRILLING METHOD: 3.25-in. HSA; Automatic Hammer				DRILL RIG: D 50			
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL						
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80				
251.8		X	B2		Topsoil = 3 in.	11	3+4+4+3	20					
251.5		X			Alluvial, brown, fine to coarse, SILTY SAND, loose, moist, SM	33	7+12+13+10	18					
249.8		X			Light gray with brown, medium to coarse, dense, moist, with gravel sized quartz fragments								
247.8	5	X			Orange-brown, fine to medium, medium dense	24	8+9+9+8	20					
245.8		X			Wet	15	5+6+5+5	24					
243.8		X			Fine, without quartz gravel	12	4+4+5+6	12					
241.8	10	X			Bottom of Borehole at 10.0 ft.								
	15												
	20												
	25												
	30												
	35												
	40												
GROUND WATER LEVELS:							SAMPLE TYPES:						
ENCOUNTERED: 6.0 ft. ELEV. 245.8							X SPT						
UPON COMPLETION: 4.0 ft. ELEV. 247.8 CAVED: 6.0 ft. ELEV. 245.8													
6/2/2020 5.0 ft. ELEV. 246.8 CAVED: 5.5 ft. ELEV. 246.3													
REMARKS: Latitude: 38.79516° Longitude: -76.85771°													

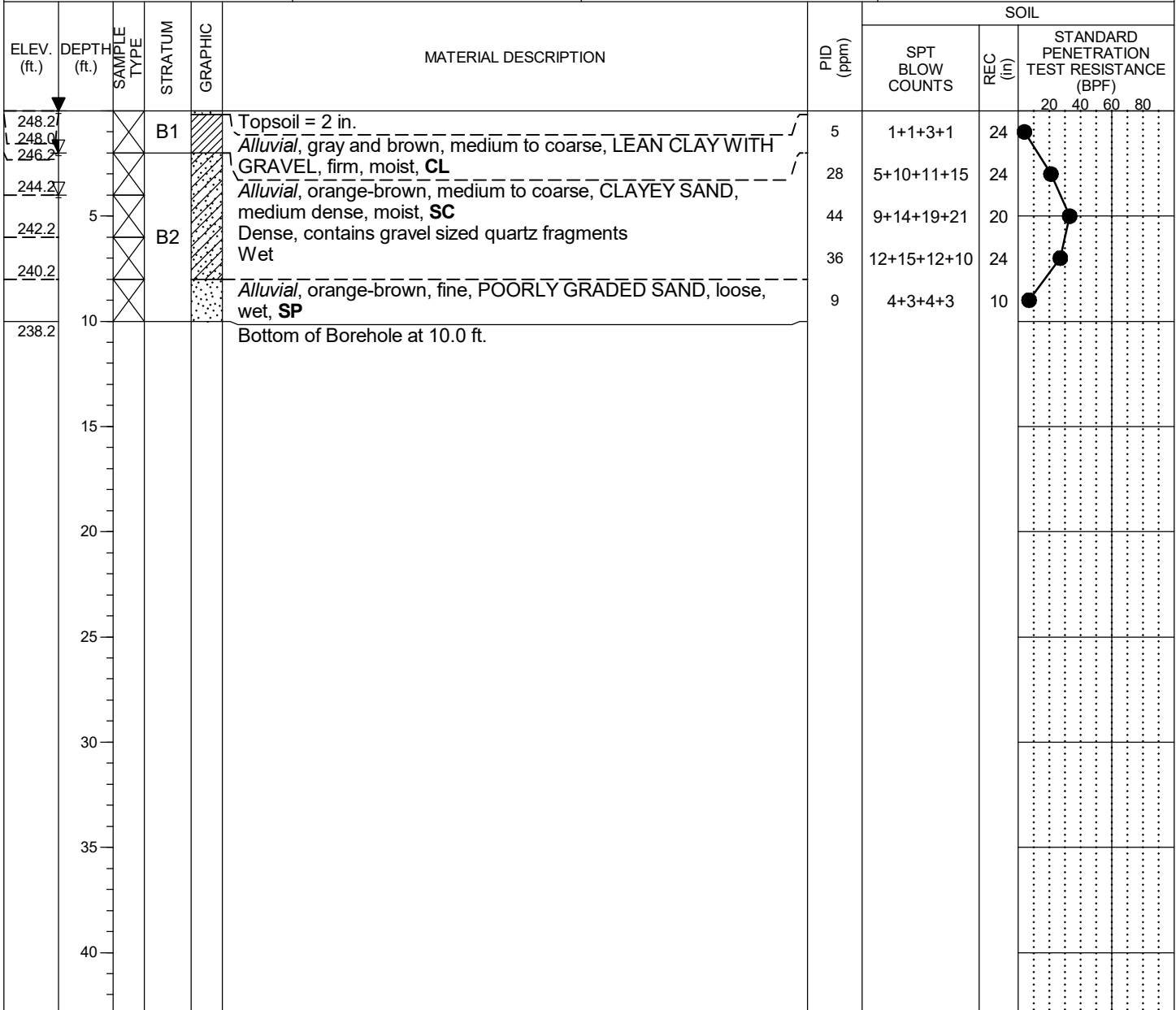
THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

PROJECT: JBA HCP & EOD						LOGGED BY: R. Soper						BORING NUMBER: MCR-10					
LOCATION: Joint Base Andrews, Maryland						DRILLING CONTRACTOR: Terracon						SHEET 1 OF 1					
OWNER/CLIENT: Wiley Wilson						DRILLER: J. Labas						DATES DRILLED: 5/27/20					
PROJECT NUMBER: JD175507			GROUND SURFACE ELEVATION (ft.): 238.7			DRILLING METHOD: 3.25-in. HSA; Automatic Hammer						DRILL RIG: D 50					
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80						
238.7 238.4 236.7		X	B1	[Hatched]	Topsoil = 3 in.	21		2+5+11+13	24		●						
		X	B2	[Dotted]	Alluvial, orange-brown with gray, fine to medium, SANDY LEAN CLAY WITH GRAVEL, very stiff, moist, contains gravel sized quartz fragments, CL	77		24+32+26+17	24		●						
234.7	5	X	B2	[Dotted]	Alluvial, orange-brown, medium to coarse, SILTY SAND WITH GRAVEL, very dense, moist, contains gravel sized quartz fragments, SM	20		9+8+7+8	6		●						
232.7		X	B1	[Hatched]	Medium dense	8		5+3+3+3	24		●						
230.7		X	B1	[Hatched]	Alluvial, orange-brown, fine, LEAN CLAY, firm, moist, CL	5		2+2+2+2	12		●						
228.7	10				Dark gray, moist, without sand												
					Bottom of Borehole at 10.0 ft.												
	15																
	20																
	25																
	30																
	35																
	40																
GROUND WATER LEVELS:												SAMPLE TYPES:					
ENCOUNTERED: 6.0 ft. ELEV. 232.7												[X] SPT					
UPON COMPLETION: 6.0 ft. ELEV. 232.7 CAVED: 7.0 ft. ELEV. 231.7																	
6/2/2020 2.0 ft. ELEV. 236.7 CAVED: 2.5 ft. ELEV. 236.2																	
REMARKS: Latitude: 38.79158° Longitude: -76.86021°																	

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



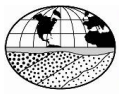
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: MCR-2
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Labas		DATES DRILLED: 5/19/20
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 248.2	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer		DRILL RIG: D 50



GROUND WATER LEVELS:				SAMPLE TYPES:	
<input type="checkbox"/>	ENCOUNTERED:	<u>4.0</u> ft.	ELEV. <u>244.2</u>	<input checked="" type="checkbox"/>	SPT
<input type="checkbox"/>	UPON COMPLETION:	<u>2.0</u> ft.	ELEV. <u>246.2</u>	<input type="checkbox"/>	
<input type="checkbox"/>	6/2/2020	<u>0.0</u> ft.	ELEV. <u>248.2</u>	<input type="checkbox"/>	
				<input type="checkbox"/>	

REMARKS: Latitude: 38.79471°
Longitude: -76.85805°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



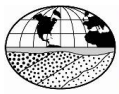
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: MCR-3 SHEET 1 OF 1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Labas		DATES DRILLED: 5/19/20
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 250.2	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer		DRILL RIG: D 50

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
250.2			B1		Topsoil = 2 in.	9	4+3+4+2	18	
250.0					Alluvial, brown, medium, SANDY LEAN CLAY, stiff, moist, CL	15	3+5+6+10	24	
248.2					Alluvial, brown with white, medium to coarse, CLAYEY SAND	21	7+7+9+10	20	
246.2			B2		WITH GRAVEL, medium dense, moist, contains gravel sized quartz fragments, SC	17	5+5+8+7	18	
244.2	5				Alluvial, orange-brown with gray, medium to coarse, POORLY GRADED SAND, medium dense, wet, contains quartz fragments, SP	23	8+7+10+12	20	
242.2					Light gray-brown, coarse				
240.2	10				Alluvial, orange-brown and white, medium to coarse, POORLY GRADED GRAVEL WITH SAND, medium dense, wet, contains gravel sized quartz fragments, GP				
					Bottom of Borehole at 10.0 ft.				
	15								
	20								
	25								
	30								
	35								
	40								

GROUND WATER LEVELS:		SAMPLE TYPES:	
<input checked="" type="checkbox"/> ENCOUNTERED:	<u>5.0</u> ft. ELEV. <u>245.2</u>	<input checked="" type="checkbox"/> SPT	
<input checked="" type="checkbox"/> UPON COMPLETION:	<u>5.0</u> ft. ELEV. <u>245.2</u>	CAVED: <u>7.0</u> ft. ELEV. <u>243.2</u>	
6/2/2020: NOT ENCOUNTERED		CAVED: <u>4.0</u> ft. ELEV. <u>246.2</u>	

REMARKS: Latitude: 38.79402° Longitude: -76.85867°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



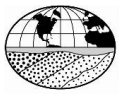
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: MCR-4
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Labas	DATES DRILLED: 5/19/20	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 249.3	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer	DRILL RIG: D 50	

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
249.3 249.1 247.3			B1		Topsoil = 2 in. Alluvial, dark brown, SANDY LEAN CLAY, firm, moist, CL Very stiff, contains gravel sized quartz fragments	7	3+2+3+7	10	
245.3						28	6+12+9+13	20	
243.3	5		B2		Alluvial, light gray, medium to coarse, CLAYEY GRAVEL WITH SAND, medium dense, moist, contains gravel sized quartz fragments, GC	25	11+9+10+12	15	
241.3					Alluvial, orange-brown, medium to coarse, CLAYEY SAND, dense, moist, SC	31	9+11+12+12	24	
					Alluvial, orange-brown, coarse, POORLY GRADED SAND, medium dense, wet, SP	27	8+9+11+12	15	
239.3	10				Bottom of Borehole at 10.0 ft.				
	15								
	20								
	25								
	30								
	35								
	40								

GROUND WATER LEVELS:		SAMPLE TYPES:	
<input checked="" type="checkbox"/> ENCOUNTERED: <u>7.0</u> ft. ELEV. <u>242.3</u>		<input checked="" type="checkbox"/> SPT	
NOT ENCOUNTERED UPON COMPLETION	CAVED: <u>6.0</u> ft. ELEV. <u>243.3</u>		
<input checked="" type="checkbox"/> 6/2/2020 <u>7.0</u> ft. ELEV. <u>242.3</u>	CAVED: <u>7.0</u> ft. ELEV. <u>242.3</u>		

REMARKS: Latitude: 38.79404°
Longitude: -76.85864°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



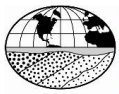
PROJECT: JBA HCP & EOD				LOGGED BY: R. Soper				BORING NUMBER: MCR-5							
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Terracon											
OWNER/CLIENT: Wiley Wilson				DRILLER: J. Labas				DATES DRILLED: 5/19/20							
PROJECT NUMBER: JD175507				GROUND SURFACE ELEVATION (ft.): 259.6				DRILLING METHOD: 3.25-in. HSA; Automatic Hammer				DRILL RIG: D 50			

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
259.6					Topsoil = 1 in.	9	3+3+4+6	20	
259.6			B1		Alluvial, brown, LEAN CLAY, stiff, moist, CL	21	7+8+8+11	24	
	5					27	5+10+10+8	18	
251.6			B2		Alluvial, light gray, medium to coarse, POORLY GRADED	28	12+9+12+11	24	
	10				SAND WITH GRAVEL, medium dense, moist, contains gravel sized quartz fragments, SP	20	10+7+8+8	24	
249.6					Bottom of Borehole at 10.0 ft.				
	15								
	20								
	25								
	30								
	35								
	40								

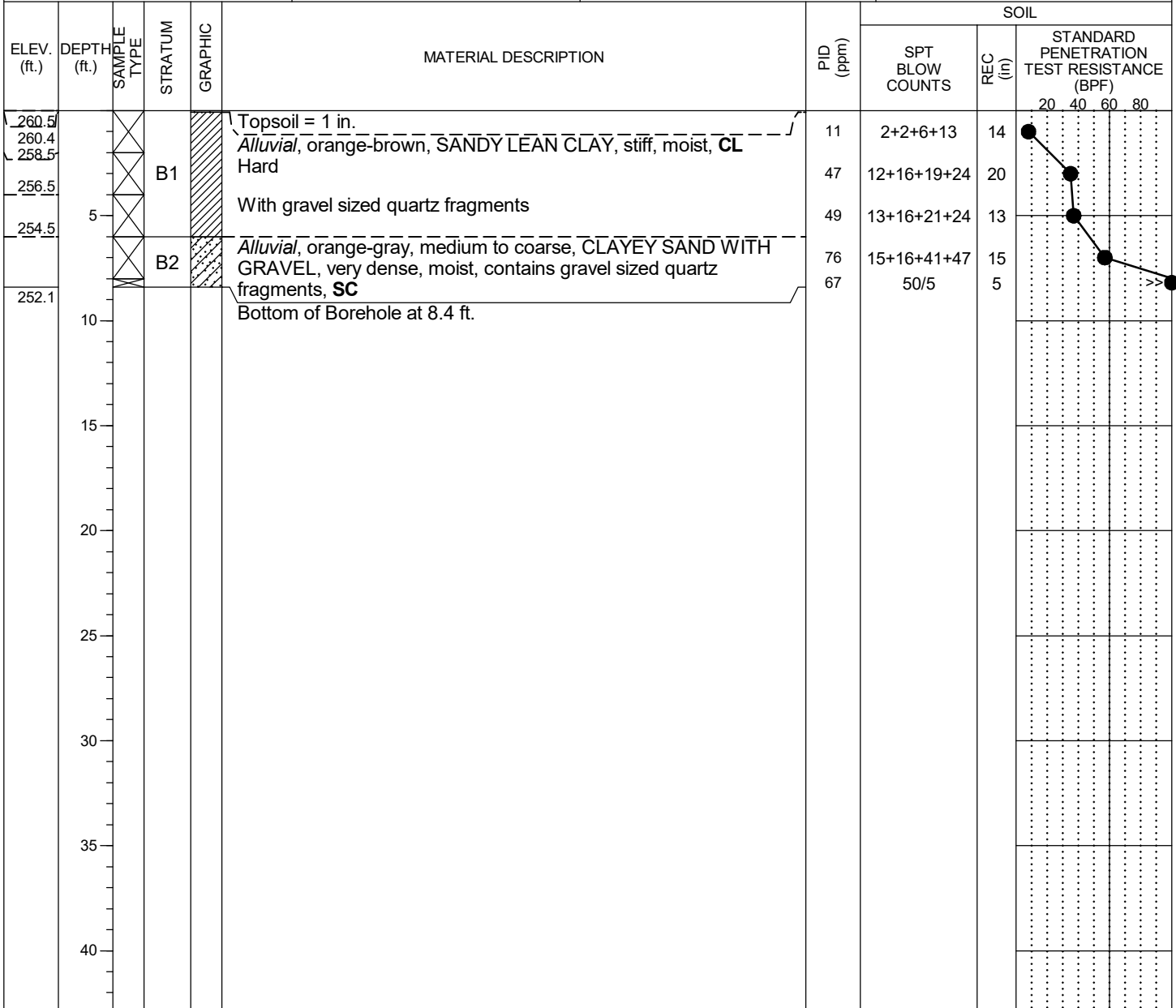
GROUND WATER LEVELS:				SAMPLE TYPES:			
NOT ENCOUNTERED DURING DRILLING				<input checked="" type="checkbox"/> SPT			
NOT ENCOUNTERED UPON COMPLETION							
5/21/2020: NOT ENCOUNTERED							
CAVED: <u>7.0</u> ft. ELEV. <u>252.6</u> CAVED: <u>6.0</u> ft. ELEV. <u>253.6</u>							

REMARKS: Latitude: 38.79322° Longitude: -76.85864°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: MCR-6 SHEET 1 OF 1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: A. Fowler		DATES DRILLED: 6/2/20
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 260.5	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer		DRILL RIG: D 50

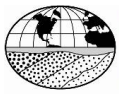


GROUND WATER LEVELS:		SAMPLE TYPES: <input checked="" type="checkbox"/> SPT
NOT ENCOUNTERED DURING DRILLING NOT ENCOUNTERED UPON COMPLETION		

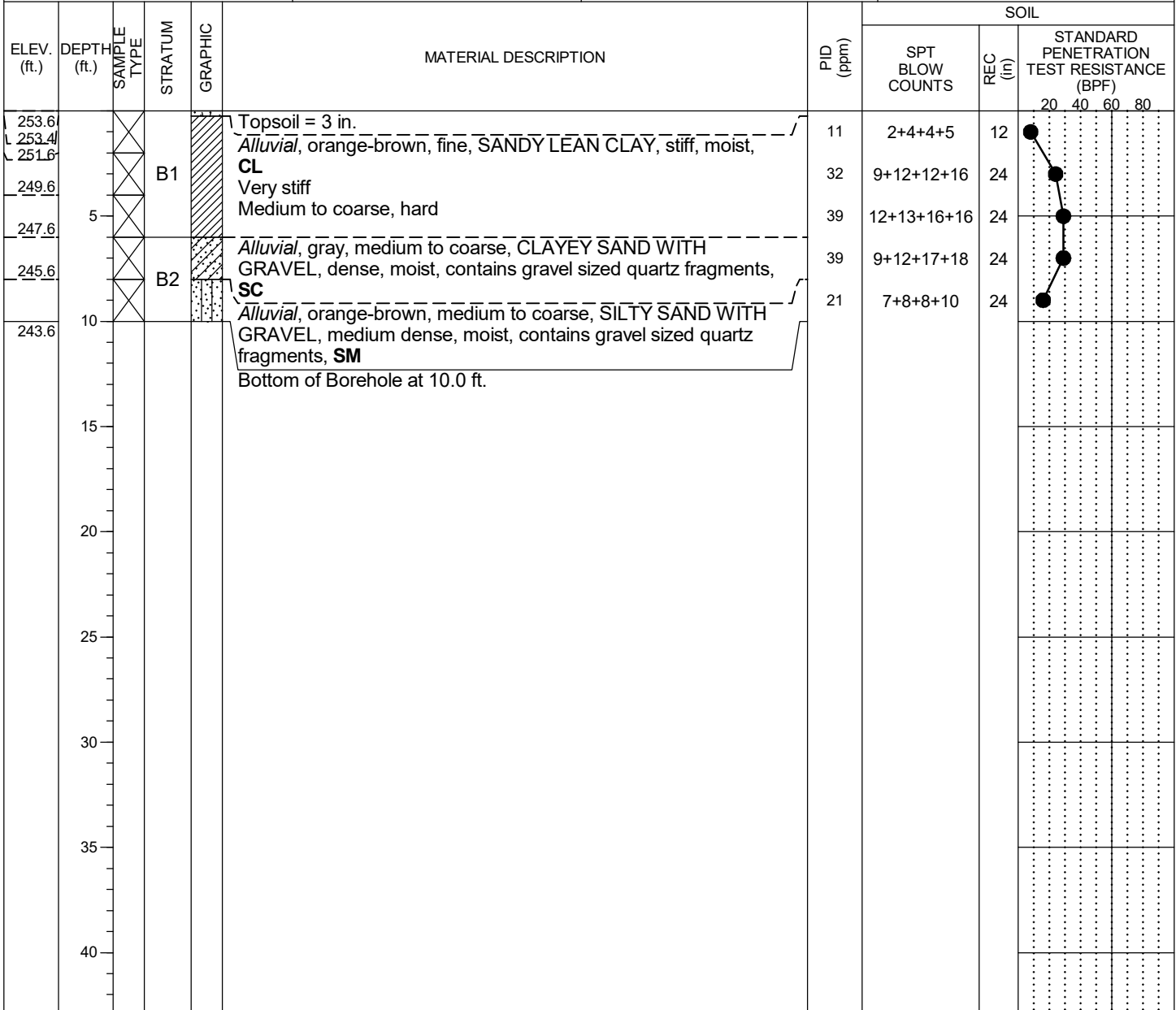
REMARKS: Latitude: 38.79201° Longitude: -76.85821°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

PROJECT: JBA HCP & EOD						LOGGED BY: R. Soper				BORING NUMBER: MCR-7 SHEET 1 OF 1			
LOCATION: Joint Base Andrews, Maryland						DRILLING CONTRACTOR: Terracon							
OWNER/CLIENT: Wiley Wilson						DRILLER: A. Fowler				DATES DRILLED: 6/2/20			
PROJECT NUMBER: JD175507			GROUND SURFACE ELEVATION (ft.): 252.3			DRILLING METHOD: 3.25-in. HSA; Automatic Hammer				DRILL RIG: D 50			
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80		
252.3		X	B1		Topsoil = 1 in.	5		2+2+2+2	12				
252.2		X			Alluvial, orange-brown, LEAN CLAY, firm, moist, CL	17		5+6+7+9	16				
250.3		X			Stiff, with sand								
248.3	5	X			Orange-brown with gray, without sand	16		5+5+7+7	17				
		X				20		5+6+9+11	13				
244.3	10	X			Hard, with gravel sized quartz fragments	52		8+18+21+15	20				
242.3					Bottom of Borehole at 10.0 ft.								
	15												
	20												
	25												
	30												
	35												
	40												
GROUND WATER LEVELS:							SAMPLE TYPES:						
NOT ENCOUNTERED DURING DRILLING							<input checked="" type="checkbox"/> SPT						
NOT ENCOUNTERED UPON COMPLETION							CAVED: 9.5 ft. ELEV. 242.8						
REMARKS: Latitude: 38.79167° Longitude: -76.58644°													



PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: MCR-8
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Labas	DATES DRILLED: 5/28/20	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 253.6	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer	DRILL RIG: D 50	

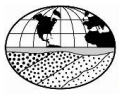


GROUND WATER LEVELS:		SAMPLE TYPES: <input checked="" type="checkbox"/> SPT
NOT ENCOUNTERED DURING DRILLING		
NOT ENCOUNTERED UPON COMPLETION	CAVED: <u>8.0</u> ft. ELEV. <u>245.6</u>	
6/2/2020: NOT ENCOUNTERED	CAVED: <u>7.0</u> ft. ELEV. <u>246.6</u>	

REMARKS: Latitude: 38.79114°
Longitude: -76.85928°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

PROJECT:				LOGGED BY:				BORING NUMBER:					
JBA HCP & EOD				R. Soper				MCR-9					
LOCATION:				DRILLING CONTRACTOR:									
Joint Base Andrews, Maryland				Terracon				SHEET 1 OF 1					
OWNER/CLIENT:				DRILLER:				DATES DRILLED:					
Wiley Wilson				J. Labas				5/27/20					
PROJECT NUMBER:		GROUND SURFACE ELEVATION (ft.):		DRILLING METHOD:		DRILL RIG:							
JD175507		247.0		3.25-in. HSA; Automatic Hammer		D 50							
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL						
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)				
									20 40 60 80				
247.0		X	B1		Topsoil = 3 in.	9	2+3+4+4	10					
246.7					Alluvial, red-brown, LEAN CLAY, stiff, moist, CL	11	3+3+5+7	20					
243.0		X	B2		Alluvial, gray-brown, fine to medium, SILTY SAND, dense, moist, SM	43	4+10+22+17	24					
241.0	5				With gravel sized quartz fragments	45	8+14+20+23	24					
239.0					Medium dense	20	6+7+8+7	18					
237.0	10				Bottom of Borehole at 10.0 ft.								
	15												
	20												
	25												
	30												
	35												
	40												
GROUND WATER LEVELS:							SAMPLE TYPES:						
ENCOUNTERED: 9.0 ft. ELEV. 238.0							SPT						
NOT ENCOUNTERED UPON COMPLETION							CAVED: 8.0 ft. ELEV. 239.0						
6/2/2020: NOT ENCOUNTERED							CAVED: 8.0 ft. ELEV. 239.0						
REMARKS: Latitude: 38.79108° Longitude: -76.86017°													



PROJECT: JBA HCP & EOD				LOGGED BY: R. Soper				BORING NUMBER: MSS-1			
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Terracon							
OWNER/CLIENT: Wiley Wilson				DRILLER: P. Lewis				DATES DRILLED: 5/27/20			
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 259.3		DRILLING METHOD: 3.25-in. HSA; Automatic Hammer				DRILL RIG: CME 450			

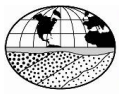
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80	MC (%)
259.3 259.2 257.3			B1		Topsoil = 1 in. Alluvial, orange-brown, fine, SANDY LEAN CLAY, stiff, moist, CL Very stiff	12	3+4+5+5	21		
	5				17	3+5+8+9	24			
253.3					17	3+6+7+10	24			
251.3			B2		Alluvial, orange-brown, medium to coarse, CLAYEY SAND WITH GRAVEL, medium dense, moist, contains gravel sized quartz fragments, SC	19	3+6+8+12	24		
	10				16	7+5+7+9	20			
					13	3+4+6+4	17			
	15					9	3+3+4+5	24		21.1
240.8			B2		Alluvial, orange-brown with gray, fine, CLAYEY SAND, loose, moist, SC	8	3+3+3	18		
	20									
235.8										
234.3			B1		Alluvial, orange-brown, SANDY SILT, very soft, moist, ML	0	0+0+0	18		
232.3										
230.8										
	25				Dark gray					53.9
					Firm	7	2+2+3	18		
					Very soft, wet	1	0+0+1	18		
	30									56.2
225.8					Stiff, with sand	9	3+3+4	18		
222.3					Firm	7	2+2+3	18		
220.8					Stiff	9	3+3+4	18		

GROUND WATER LEVELS:				SAMPLE TYPES:			
▽ ENCOUNTERED: <u>15.0</u> ft. ELEV. <u>244.3</u> ▼ 6/5/2020 <u>10.0</u> ft. ELEV. <u>249.3</u>				<div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); font-size: 10px;">X</div> </div> SPT </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; background-color: black; margin-right: 5px;"></div> Undisturbed Sample </div>			

REMARKS: Latitude: 38.79333°
 Longitude: -76.85904°

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: MSS-1
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	
		SHEET 2 OF 2

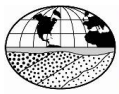
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
210.8	45	X	B1		Alluvial, orange-brown, SANDY SILT, very soft, moist, ML (continued)	13	2+4+6	18	
205.8	50	X	B2		Alluvial, dark gray, fine, SILTY SAND, medium dense, moist, SM	11	3+4+4	18	
200.7	55	X	B1		Alluvial, dark gray, SILT, firm, moist, ML	5	2+2+2	18	
199.3	60	X			Stiff	12	3+4+5	18	
					Bottom of Borehole at 60.0 ft.				
	65								
	70								
	75								
	80								
	85								
	90								

GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: <u>15.0</u> ft. ELEV. <u>244.3</u> ▼ 6/5/2020 <u>10.0</u> ft. ELEV. <u>249.3</u>	X SPT ■ Undisturbed Sample

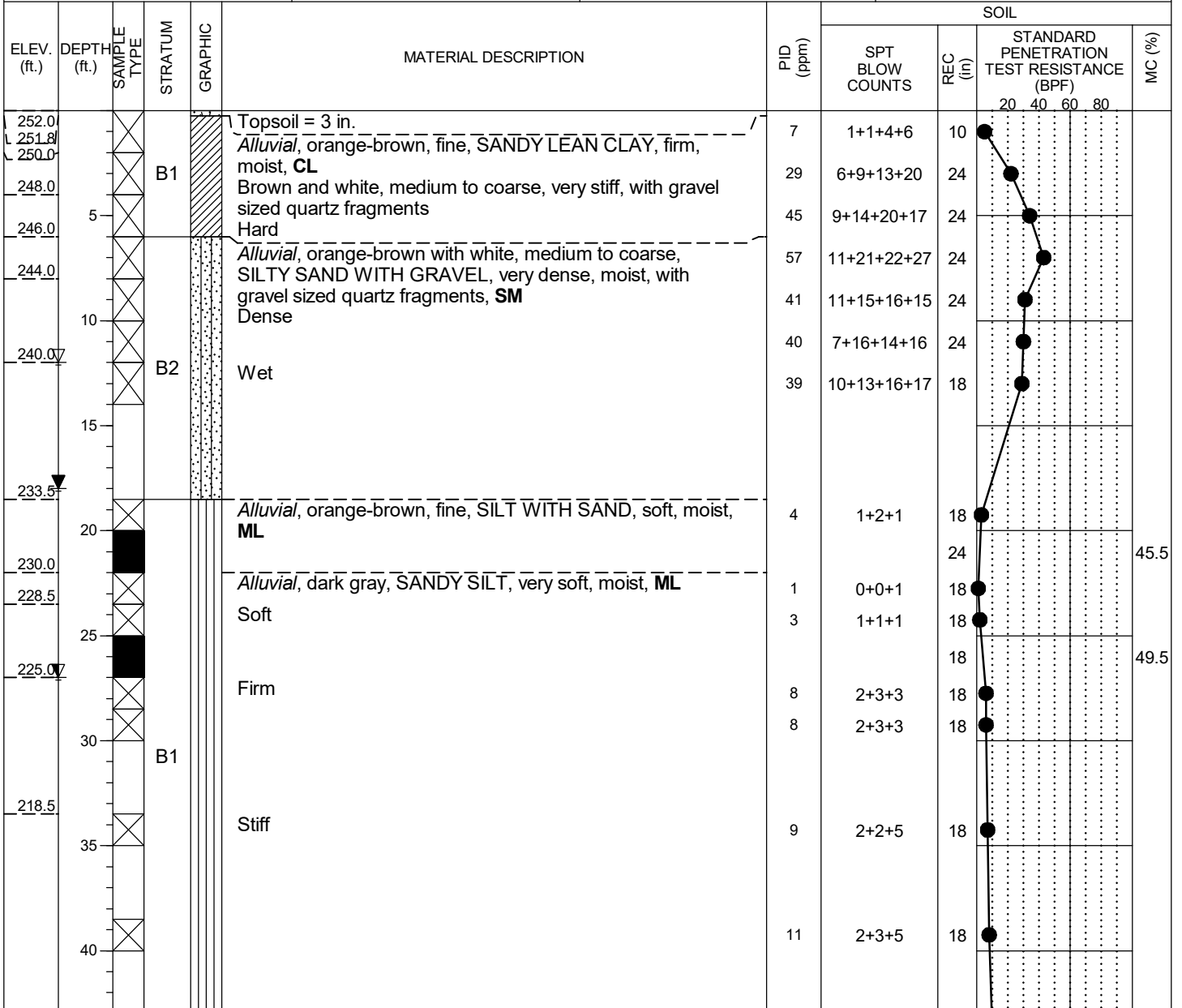
REMARKS: Latitude: 38.79333°
Longitude: -76.85904°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



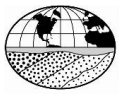
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: MSS-2
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Labas	DATES DRILLED: 5/27/20	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 252.0	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer	DRILL RIG: D 50	



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	12.0 ft. ELEV. 240.0		SPT
UPON COMPLETION:	27.0 ft. ELEV. 225.0		Undisturbed Sample
6/5/2020	18.0 ft. ELEV. 234.0		

REMARKS: Latitude: 38.79128°
Longitude: -76.85920°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper	BORING NUMBER: MSS-2
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon	
SHEET 2 OF 2			

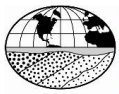
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)	MC (%)
208.5	45	X	B1		Alluvial, dark gray, SANDY SILT, very soft, moist, ML (continued)	13	3+4+6	18		
	50	X				11	3+4+4	18		
	55	X				9	2+4+3	18		
	60	X				12	4+4+5	18		
192.0	60				Bottom of Borehole at 60.0 ft.					
	65									
	70									
	75									
	80									
	85									
	90									

GROUND WATER LEVELS: ▽ ENCOUNTERED: <u>12.0</u> ft. ELEV. <u>240.0</u> ▼ UPON COMPLETION: <u>27.0</u> ft. ELEV. <u>225.0</u> ▼ 6/5/2020 <u>18.0</u> ft. ELEV. <u>234.0</u>	SAMPLE TYPES: X SPT ■ Undisturbed Sample
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REMARKS: Latitude: 38.79128°
Longitude: -76.85920°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



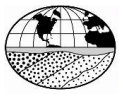
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: NT-1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: A. Fowler		DATES DRILLED: 6/3/20
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 250.6	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer		DRILL RIG: D 50

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
250.6					Asphalt = 6 in.				
250.1					Crushed stone = 6 in.				
249.6			A		Fill, gray, medium to coarse, CLAYEY SAND WITH GRAVEL, medium dense, moist, contains gravel sized quartz fragments, SC	27	7+6+14+14	15	
245.6	5					24	5+8+10+10	11	
243.6			B2		Alluvial, orange-brown, fine, POORLY GRADED SAND, medium dense, wet, SP Loose, moist	11	4+4+4+3	17	
241.6						5	2+2+2+3	18	
239.6	10				Alluvial, orange-brown, fine, SILTY SAND, very loose, moist, SM Wet	3	2+1+1+1	11	
237.6						3	1+1+1+1	24	
	15				Alluvial, dark gray, LEAN CLAY, very soft, moist, CL	0	WOH	24	
	20		B1			3	0+0+2	18	
227.1									
225.6	25				Alluvial, dark gray, SILT, firm, moist, ML	13	3+5+5	20	
					Bottom of Borehole at 25.0 ft.				
	30								
	35								
	40								

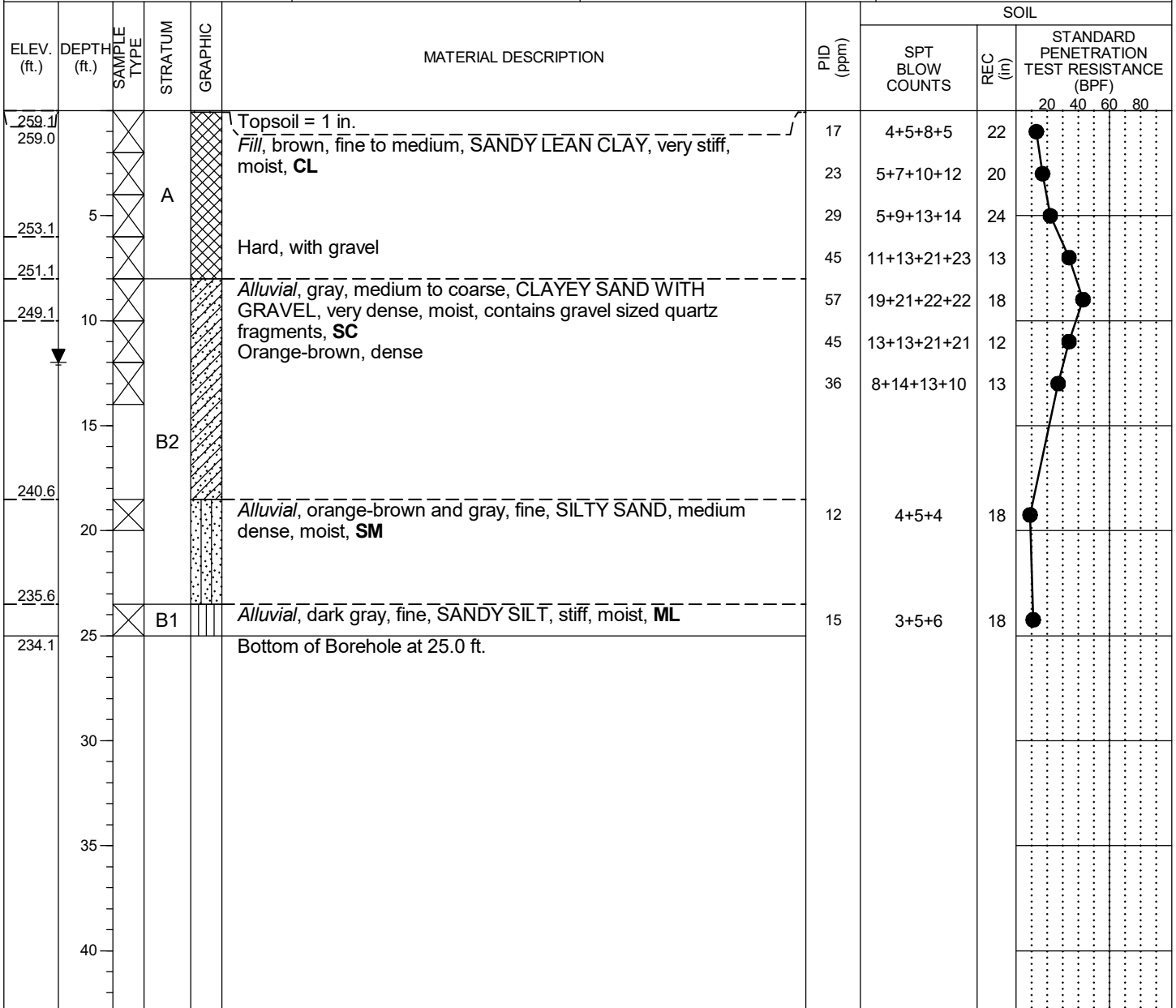
GROUND WATER LEVELS:				SAMPLE TYPES:	
<input type="checkbox"/>	ENCOUNTERED:	<u>5.0</u> ft.	ELEV. <u>245.6</u>	<input checked="" type="checkbox"/>	SPT
<input type="checkbox"/>	UPON COMPLETION:	<u>8.0</u> ft.	ELEV. <u>242.6</u>		
<input type="checkbox"/>	6/4/2020	<u>5.0</u> ft.	ELEV. <u>245.6</u>		
				CAVED: <u>11.0</u> ft.	ELEV. <u>239.6</u>
				CAVED: <u>5.5</u> ft.	ELEV. <u>245.1</u>

REMARKS: Latitude: 38.79766° Longitude: -76.86052°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



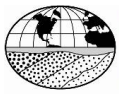
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: NT-2
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: A. Fowler		DATES DRILLED: 6/3/20
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 259.1	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer		DRILL RIG: D 50



GROUND WATER LEVELS:		SAMPLE TYPES: SPT
NOT ENCOUNTERED DURING DRILLING		
NOT ENCOUNTERED UPON COMPLETION		
6/3/2020	12.0 ft. ELEV. 247.1	CAVED: 14.0 ft. ELEV. 245.1

REMARKS: Latitude: 38.79665°
Longitude: -76.86068°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



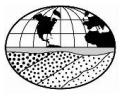
PROJECT: JBA HCP & EOD				LOGGED BY: R. Soper		BORING NUMBER: NT-3	
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Terracon			
OWNER/CLIENT: Wiley Wilson				DRILLER: A. Fowler		DATES DRILLED: 6/3/20	
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 254.8		DRILLING METHOD: 3.25-in. HSA; Automatic Hammer		DRILL RIG: D 50	

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
254.8 254.7					Topsoil = 1 in. <i>Alluvial</i> , gray-brown, medium to coarse, CLAYEY SAND WITH GRAVEL, medium dense, contains gravel sized quartz fragments, SC Very dense	16	7+7+5+6	6	
250.8	5		B2		Orange-brown, medium dense	28	4+10+11+17	15	
246.8						40	16+14+16+16	20	
244.8	10					16	11+7+5+4	12	
242.8						15	4+5+6+5	20	
236.3	15		B1		<i>Alluvial</i> , orange-brown, fine, SILTY SAND, medium dense, moist, SM Loose	5	2+2+2+3	21	
						9	4+3+4	18	
	20					13	4+5+5	18	
229.8	25				Bottom of Borehole at 25.0 ft.				
	30								
	35								
	40								

GROUND WATER LEVELS:				SAMPLE TYPES:	
NOT ENCOUNTERED DURING DRILLING				<input checked="" type="checkbox"/> SPT	
NOT ENCOUNTERED UPON COMPLETION					
6/4/2020: NOT ENCOUNTERED					
CAVED: <u>10.0</u> ft. ELEV. <u>244.8</u> CAVED: <u>4.0</u> ft. ELEV. <u>250.8</u>					

REMARKS: Latitude: 38.79620° Longitude: -76.86061°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



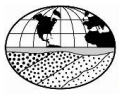
PROJECT: JBA HCP & EOD				LOGGED BY: R. Soper			BORING NUMBER: NT-4	
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Terracon				
OWNER/CLIENT: Wiley Wilson				DRILLER: A. Fowler			DATES DRILLED: 6/3/20	
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 255.6		DRILLING METHOD: 3.25-in. HSA; Automatic Hammer			DRILL RIG: D 50	

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)
255.6			A		Topsoil = 1 in.				
255.6					Fill, brown, fine, SANDY SILT, very stiff, moist, ML	31	6+12+11+9	16	
253.6					Fill, brown, fine, SANDY LEAN CLAY WITH GRAVEL, very stiff, moist, CL	29	6+9+13+14	12	
251.6	5		B2		Alluvial, orange-brown, medium to coarse, CLAYEY SAND WITH GRAVEL, medium dense, contains gravel sized quartz fragments, SC	29	8+11+11+15	15	
249.6					Dense	40	15+15+15+18	14	
247.6					Medium, medium dense	20	4+7+8+7	20	
245.6	10				Dense	33	9+11+14+14	13	
243.6			B1		Alluvial, orange-brown, medium to coarse, SILTY SAND WITH GRAVEL, medium dense, wet, SM	27	4+9+11+11	19	
	15								
237.1	20				Alluvial, orange-brown, LEAN CLAY, firm, moist, CL	8	3+3+3	18	
232.1	25				Dark gray, stiff	15	3+4+7	18	
230.6	25				Bottom of Borehole at 25.0 ft.				
	30								
	35								
	40								

GROUND WATER LEVELS:						SAMPLE TYPES:	
<input type="checkbox"/>	ENCOUNTERED:	<u>10.0</u> ft.	ELEV. <u>245.6</u>			<input checked="" type="checkbox"/>	SPT
<input type="checkbox"/>	UPON COMPLETION:	<u>11.0</u> ft.	ELEV. <u>244.6</u>	CAVED:	<u>16.0</u> ft. ELEV. <u>239.6</u>		
<input type="checkbox"/>	6/4/2020	<u>6.0</u> ft.	ELEV. <u>249.6</u>	CAVED:	<u>11.0</u> ft. ELEV. <u>244.6</u>		

REMARKS: Latitude: 38.79593° Longitude: -76.86017°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



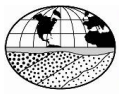
PROJECT: JBA HCP & EOD				LOGGED BY: R. Soper		BORING NUMBER: NT-5	
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Terracon			
OWNER/CLIENT: Wiley Wilson				DRILLER: J. Labas		DATES DRILLED: 6/3/20	
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 251.0		DRILLING METHOD: 3.25-in. HSA; Automatic Hammer		DRILL RIG: D 50	

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
251.0					Topsoil = 3 in.				
250.8					Fill, orange-brown, fine to medium, SILTY SAND, medium dense, moist, SM				
247.0	5		A		Gray	13	5+4+6+7	10	
245.0						19	3+7+7+6	20	
243.0			B1		Alluvial, gray-brown, fine to medium, SANDY LEAN CLAY, firm, moist, CL With gravel sized quartz fragments	5	2+2+2+7	24	
241.0	10		B2		Alluvial, orange-brown and gray, fine to medium, CLAYEY SAND, loose, moist, SC	7	2+2+3+2	24	
239.0					Alluvial, orange-brown, SANDY LEAN CLAY, soft, moist, CL	4	1+1+2+2	24	
						3	1+1+1+1	18	
232.5	15								
			B1		Alluvial, gray, SANDY SILT, firm, moist, ML	7	1+3+2	18	
	20								
226.0	25				Bottom of Borehole at 25.0 ft.	7	3+2+3	18	
	30								
	35								
	40								

GROUND WATER LEVELS:				SAMPLE TYPES:	
<input checked="" type="checkbox"/> ENCOUNTERED: <u>10.0</u> ft. ELEV. <u>241.0</u>				<input checked="" type="checkbox"/> SPT	
<input checked="" type="checkbox"/> 6/4/2020 <u>5.5</u> ft. ELEV. <u>245.5</u>					
CAVED: <u>20.0</u> ft. ELEV. <u>231.0</u>					

REMARKS: Latitude: 38.79551° Longitude: -76.86047°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



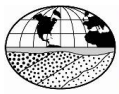
PROJECT: JBA HCP & EOD				LOGGED BY: R. Soper		BORING NUMBER: NT-6	
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Terracon			
OWNER/CLIENT: Wiley Wilson				DRILLER: A. Fowler		DATES DRILLED: 6/3/20	
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 250.7		DRILLING METHOD: 3.25-in. HSA; Automatic Hammer		DRILL RIG: D 50	

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL				
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)		
							20	40	60	80	
250.7			A		Topsoil = 1 in.	9	11+4+3+6	14			
250.6					Fill, red with gray, fine, SANDY LEAN CLAY, stiff, moist, CL	15	8+4+7+7	10			
248.7					Fill, dark brown, fine to medium, CLAYEY SAND WITH GRAVEL, medium dense, moist, SC	7	2+2+3+1	15			
246.7	5				Fill, dark gray, SANDY LEAN CLAY, firm, moist, CL	8	3+4+2+3	12			
244.7			B1		Contains organics	9	2+4+3+4	16			
242.7					Alluvial, dark gray, SANDY LEAN CLAY, stiff, moist, CL	12	5+6+3+3	15			
240.7	10				With gravel sized quartz fragments	7	3+2+3+3	24			
238.7					Alluvial, dark gray, SANDY SILT, firm, moist, ML						
232.2	15				Stiff	11	4+4+4	18			
227.2	20				Very stiff	16	3+5+7	18			
225.7	25				Bottom of Borehole at 25.0 ft.						
	30										
	35										
	40										

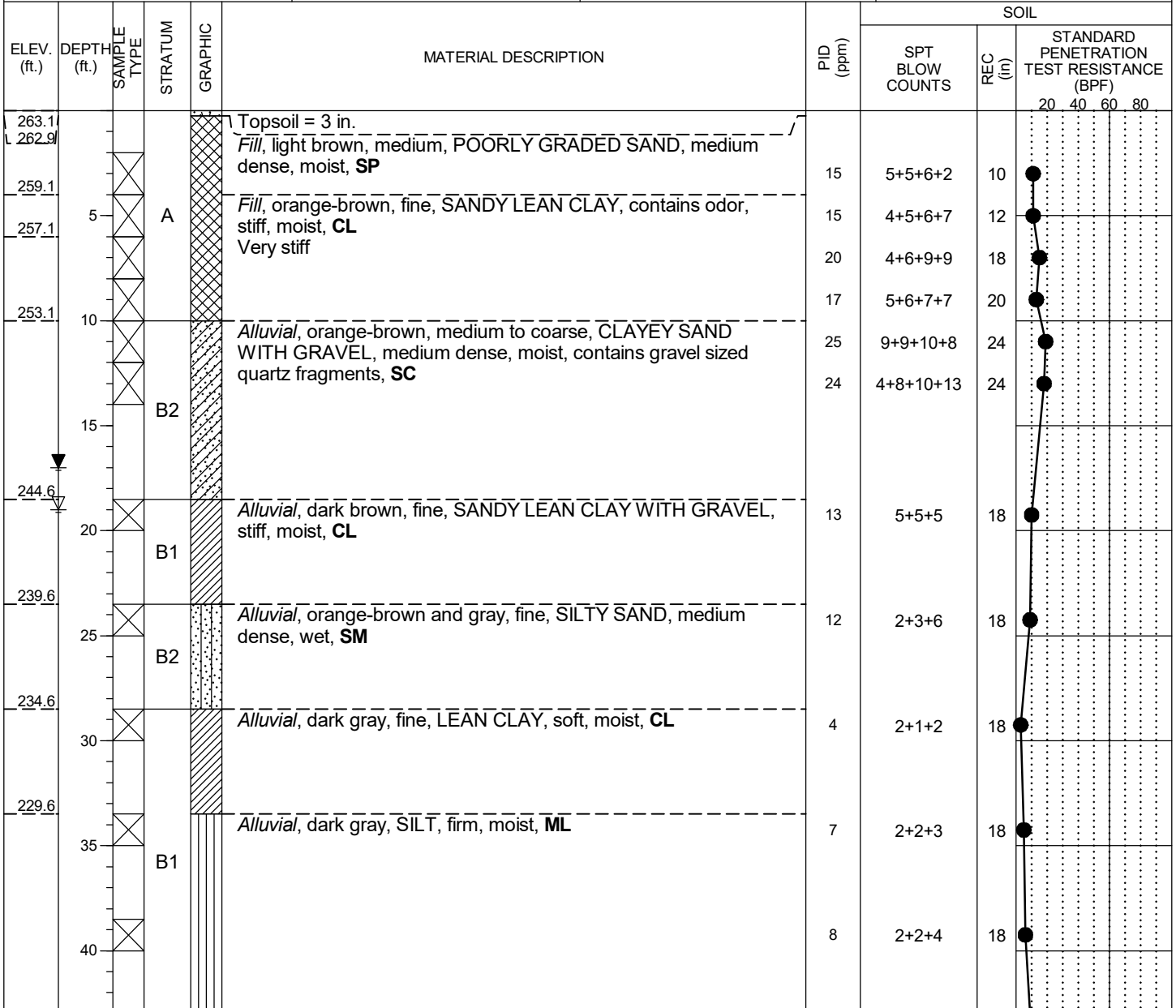
GROUND WATER LEVELS:				SAMPLE TYPES:	
NOT ENCOUNTERED DURING DRILLING				<input checked="" type="checkbox"/> SPT	
NOT ENCOUNTERED UPON COMPLETION					
6/4/2020 5.0 ft. ELEV. 245.7					
CAVED: 14.2 ft. ELEV. 236.5 CAVED: 12.0 ft. ELEV. 238.7					

REMARKS: Latitude: 38.79534°
 Longitude: -76.86007°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



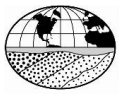
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: TCA-1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Labas	DATES DRILLED: 6/3/20	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 263.1	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer	DRILL RIG: D 50	



GROUND WATER LEVELS:		SAMPLE TYPES: <input checked="" type="checkbox"/> SPT
ENCOUNTERED:	19.0 ft. ELEV. 244.1	
6/4/2020	17.0 ft. ELEV. 246.1	
CAVED: 25.0 ft. ELEV. 238.1		

REMARKS: Latitude: 38.79770° Longitude: -076.86008°
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THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD LOCATION: Joint Base Andrews, Maryland	LOGGED BY: R. Soper DRILLING CONTRACTOR: Terracon	BORING NUMBER: TCA-1 SHEET 2 OF 2
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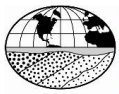
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL	
							SPT BLOW COUNTS	STANDARD PENETRATION TEST RESISTANCE (BPF)
219.6	45		B1		Alluvial, dark gray, SILT, firm, moist, ML (continued) Stiff	13	3+5+5	18
	50					12	4+4+5	18
209.6	55		B2		Alluvial, dark gray, fine, SILTY SAND, loose, moist, SM	7	3+2+3	18
	60					9	2+3+4	18
199.6	65		B1		Alluvial, dark gray, fine, SANDY SILT, stiff, moist, ML	11	4+3+5	18
	70					9	4+3+4	18
189.6	75		B2		Alluvial, dark gray, fine, SILTY SAND, medium dense, moist, SM	11	3+4+4	18
	80					12	4+5+4	18
183.1	80				Bottom of Borehole at 80.0 ft.	13	3+6+4	18

GROUND WATER LEVELS: ▽ ENCOUNTERED: <u>19.0</u> ft. ELEV. <u>244.1</u> ▼ 6/4/2020 <u>17.0</u> ft. ELEV. <u>246.1</u> CAVED: <u>25.0</u> ft. ELEV. <u>238.1</u>	SAMPLE TYPES: SPT
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REMARKS: Latitude: 38.79770° Longitude: -076.86008°
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THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



PROJECT: JBA HCP & EOD				LOGGED BY: R. Soper		BORING NUMBER: TCA-2	
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Terracon			
OWNER/CLIENT: Wiley Wilson				DRILLER: J. Labas		DATES DRILLED: 6/4/20	
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 270.0		DRILLING METHOD: 3.25-in. HSA; Automatic Hammer		DRILL RIG: D 50	

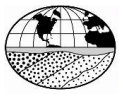
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
270.0					Topsoil = 3 in.				
269.8					Fill, dark gray, fine to medium, SILTY SAND, medium dense, moist, SM	11	4+4+4+3	12	
266.0	5		A		Brown, loose	7	3+3+2+4	10	
264.0					Dark gray, medium, odor, moist	9	2+2+5+7	12	
262.0	10				Fill, dark gray, SANDY FAT CLAY, odor, firm, moist, CH	7	5+3+2+2	24	
258.0						9	4+4+3+4	24	
251.5	15		B1		Alluvial, brown, fine, SANDY LEAN CLAY WITH GRAVEL, very stiff, moist, contains gravel sized quartz fragments, CL	28	5+8+13+22	24	
241.5	20				Alluvial, orange-brown, medium, SILTY SAND, dense, moist, SM	45	9+12+22	18	
236.5	25		B2			41	12+15+16	18	
231.5	30				Fine, loose	9	4+3+4	18	
	35				Alluvial, orange-brown, SILT, firm, moist, ML	5	1+2+2	18	
	40		B1		Dark gray	5	3+2+2	18	

GROUND WATER LEVELS:		SAMPLE TYPES: <input checked="" type="checkbox"/> SPT
<input checked="" type="checkbox"/> ENCOUNTERED: <u>45.0</u> ft. ELEV. <u>225.0</u>		
6/5/2020: NOT ENCOUNTERED	CAVED: <u>2.0</u> ft. ELEV. <u>268.0</u>	

REMARKS: Latitude: 38.79609° Longitude: -76.85984°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: TCA-2
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	SHEET 2 OF 2

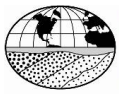
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL	
							SPT BLOW COUNTS	STANDARD PENETRATION TEST RESISTANCE (BPF)
226.5	45	X	B1		Alluvial, orange-brown, SILT, firm, moist, ML (continued) Stiff	11	3+4+4	18
	50	X				12	3+5+4	18
	55	X				12	4+3+6	18
211.5	60	X	B2		Alluvial, dark gray, fine, SILTY SAND, loose, moist, SM	9	3+3+4	18
206.5	65	X				7	2+3+2	18
201.5	70	X	B1		Alluvial, dark gray, fine, SANDY SILT, stiff, moist, ML	9	4+3+4	18
	75	X				9	2+4+3	18
	80	X				9	3+3+4	18
190.0			Bottom of Borehole at 80.0 ft.					

GROUND WATER LEVELS: ▽ ENCOUNTERED: <u>45.0</u> ft. ELEV. <u>225.0</u> 6/5/2020: NOT ENCOUNTERED	SAMPLE TYPES: <input checked="" type="checkbox"/> SPT
CAVED: <u>2.0</u> ft. ELEV. <u>268.0</u>	

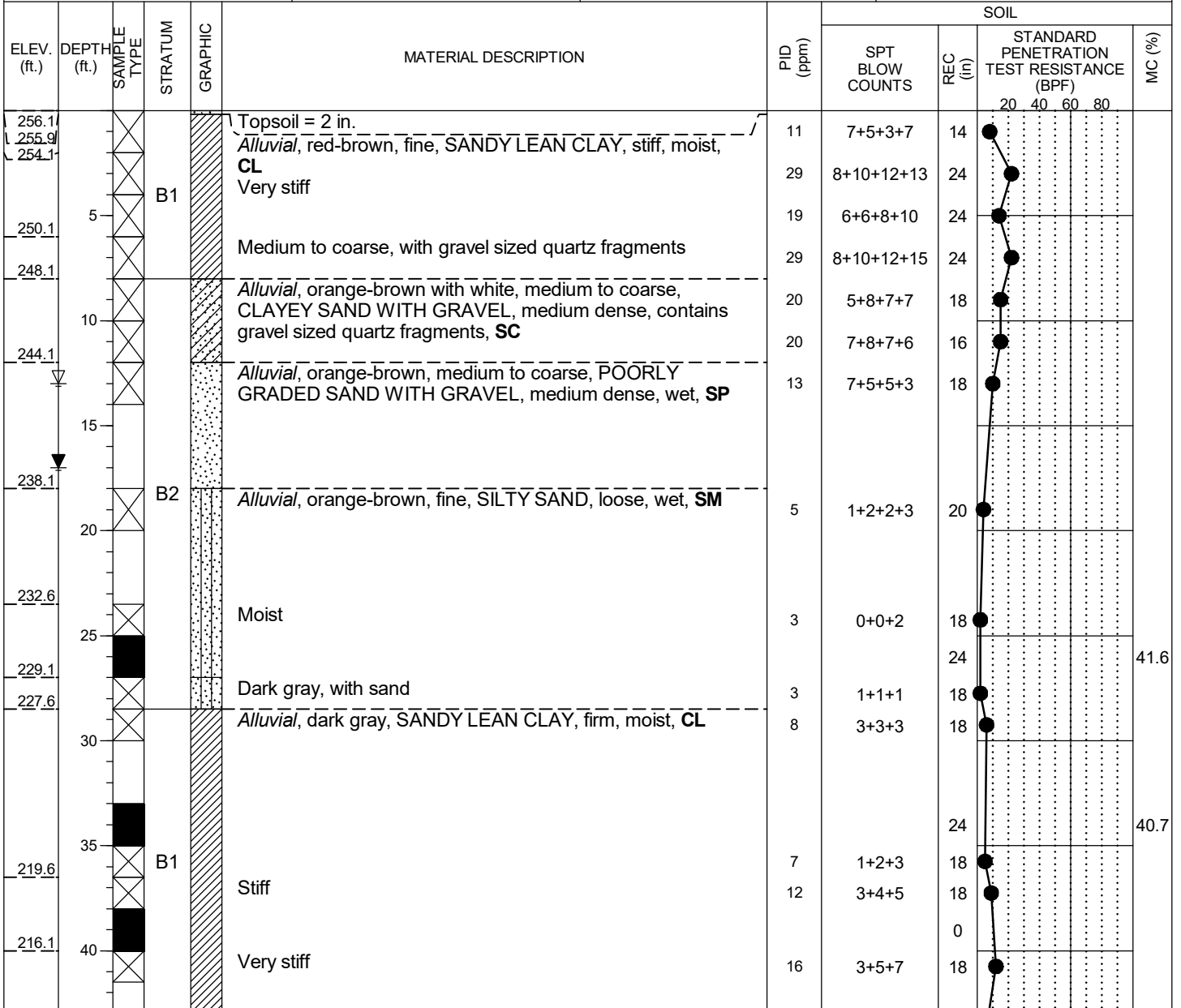
REMARKS: Latitude: 38.79609°
Longitude: -76.85984°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



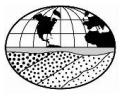
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: TCA-3
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: G. Wilson		DATES DRILLED: 5/26/20
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 256.1	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer		DRILL RIG: D 50



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	13.0 ft. ELEV. 243.1		SPT
5/25/2020	17.0 ft. ELEV. 239.1		Undisturbed Sample
CAVED: 23.0 ft. ELEV. 233.1			

REMARKS: Latitude: 38.79360°
Longitude: -76.85927°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



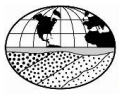
PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: TCA-3
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	
		SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
212.6	45	X	B1		Alluvial, dark gray, fine, SANDY SILT, firm, moist, ML	7	3+2+3	18	
	50	X				5	2+2+2	18	
	55	X				5	1+2+2	18	
197.6	60	X	B2		Fine, moist	5	2+2+2	18	
192.6	65	X			Alluvial, dark gray, fine, SILTY SAND, medium dense, moist, SM	12	2+5+4	18	
187.6	70	X			Loose	8	3+3+3	18	
	75	X				8	2+2+4	18	
177.6	80	X			Medium dense	11	2+3+5	18	
176.1					Bottom of Borehole at 80.0 ft.				
	85								
	90								

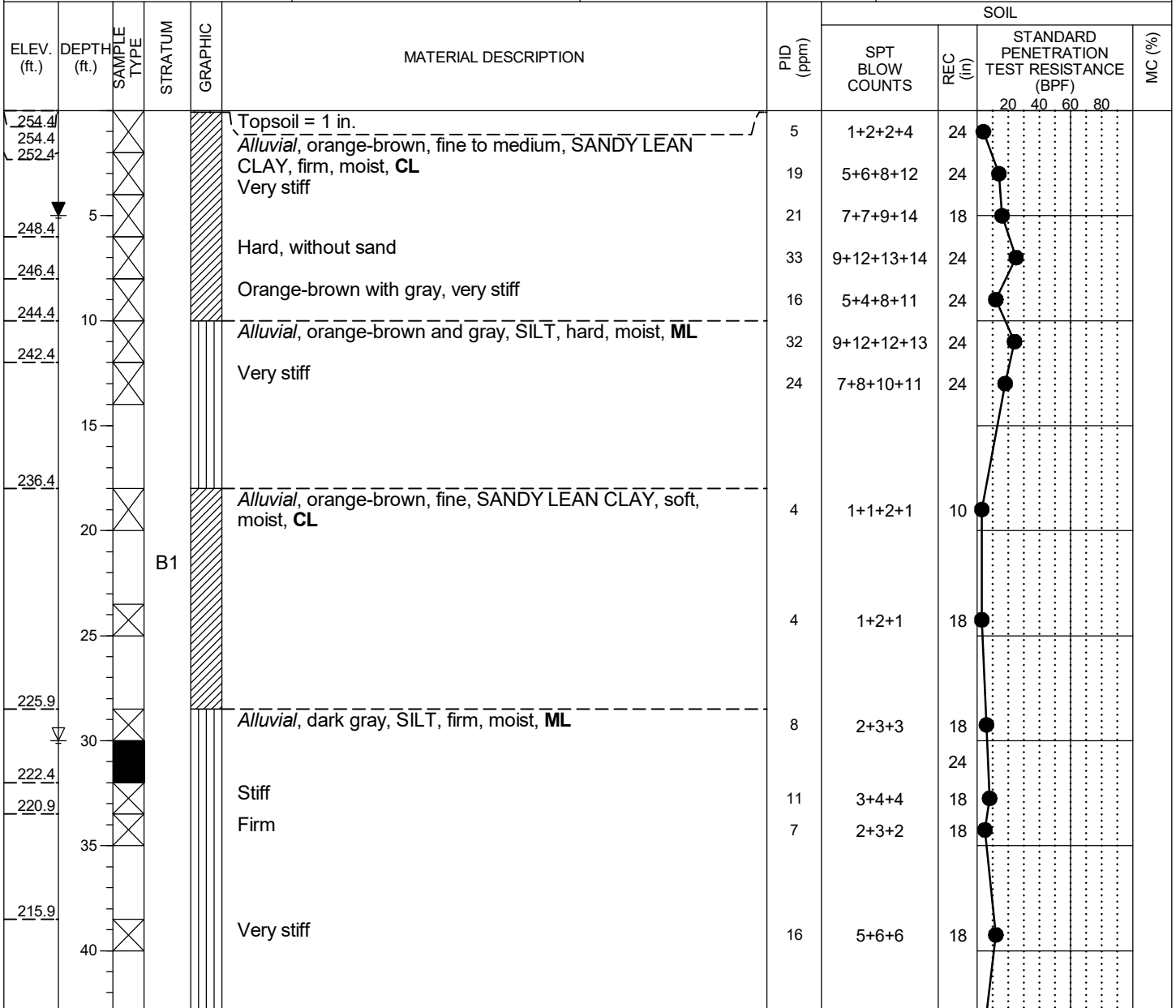
GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: <u>13.0</u> ft. ELEV. <u>243.1</u> ▼ 5/25/2020 <u>17.0</u> ft. ELEV. <u>239.1</u> CAVED: <u>23.0</u> ft. ELEV. <u>233.1</u>	X SPT ■ Undisturbed Sample

REMARKS: Latitude: 38.79360°
Longitude: -76.85927°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



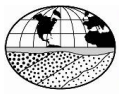
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: TCA-4
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Labas	DATES DRILLED: 5/27/20	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 254.4	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer	DRILL RIG: D 50	



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED: 30.0 ft. ELEV. 224.4		SPT	
6/2/2020 5.0 ft. ELEV. 249.4	CAVED: 26.0 ft. ELEV. 228.4	Undisturbed Sample	

REMARKS: Latitude: 38.79185°
Longitude: -76.85905°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: TCA-4
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	
		SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
210.9	45	X	B2		Alluvial, dark gray, fine, SILTY SAND, loose, moist, SM	5	1+2+2	18	
205.9	50	X			Alluvial, dark gray, fine, SILT WITH SAND, stiff, moist, ML	11	4+4+4	18	
200.9	55	X			Firm	5	2+2+2	18	
197.4	60	X	B1		Stiff	15	6+5+6	18	
190.9	65	X			Alluvial, dark gray, fine, SILTY SAND, medium dense, moist, SM	20	3+7+8	18	
	70	X	B2			12	2+4+5	18	
	75	X				15	9+5+6	18	
	80	X			Bottom of Borehole at 80.0 ft.	20	5+7+8	18	
174.4	85								
	90								

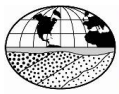
50.7

GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: <u>30.0</u> ft. ELEV. <u>224.4</u> ▼ 6/2/2020 <u>5.0</u> ft. ELEV. <u>249.4</u> CAVED: <u>26.0</u> ft. ELEV. <u>228.4</u>	X SPT ■ Undisturbed Sample

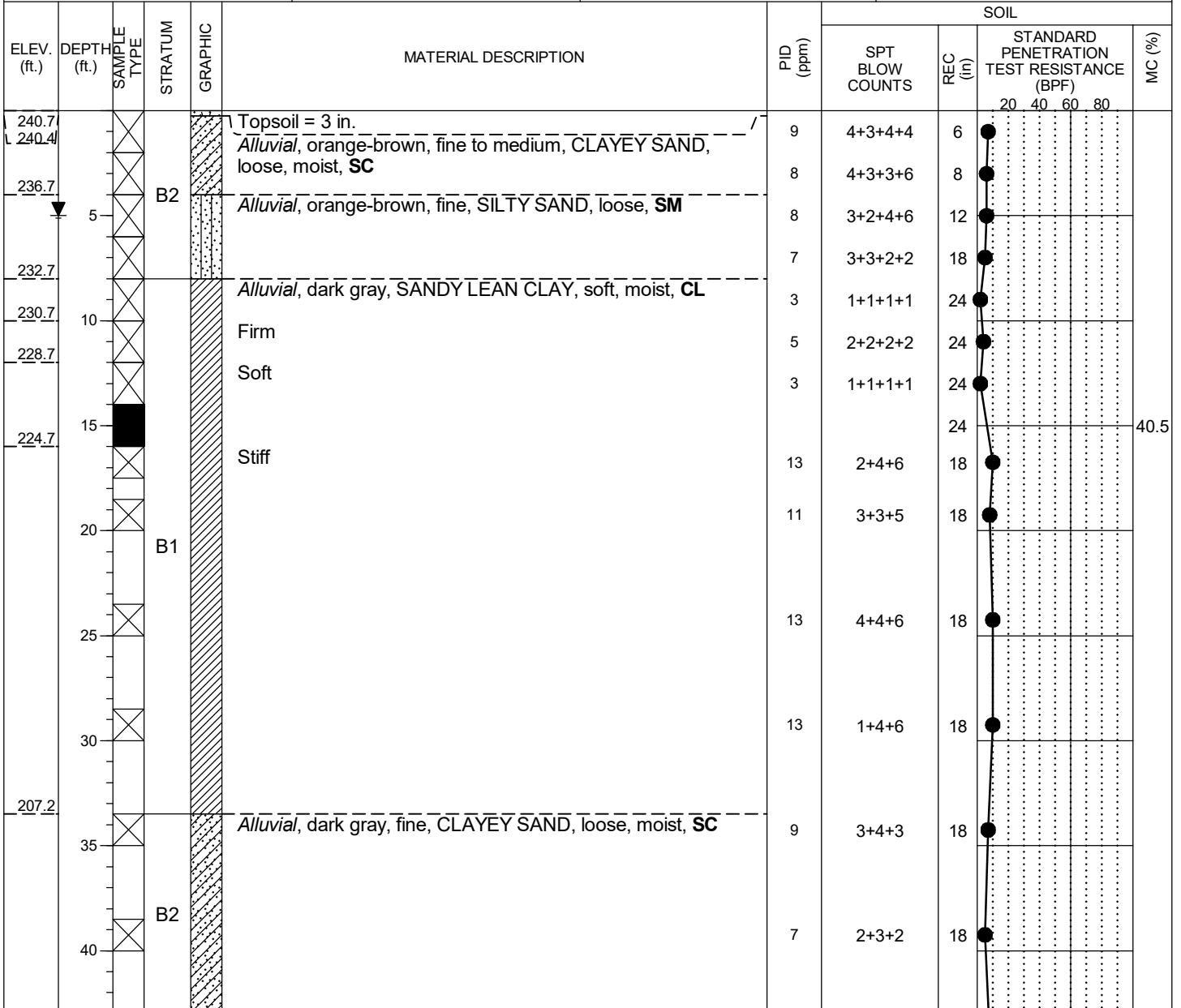
REMARKS: Latitude: 38.79185°
Longitude: -76.85905°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



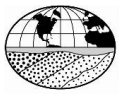
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: TFA-1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Labas	DATES DRILLED: 6/1/20	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 240.7	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer	DRILL RIG: D 50	



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED: <u>60.0</u> ft. ELEV. <u>180.7</u>		SPT	
6/2/2020 <u>5.0</u> ft. ELEV. <u>235.7</u>	CAVED: <u>60.0</u> ft. ELEV. <u>180.7</u>	Undisturbed Sample	

REMARKS: Latitude: 38.79296°
Longitude: -76.86040°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: TFA-1
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	
		SHEET 2 OF 2

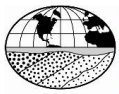
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)	MC (%)
	45	X			Alluvial, dark gray, fine, CLAYEY SAND, loose, moist, SC (continued)	11	4+3+5	18		
192.2	50	X			Alluvial, dark gray, fine, SILTY SAND, loose, moist, SM	8	3+2+4	18		
187.2	55	X			Medium dense	13	4+4+6	18		
182.2	60	X			Loose	9	4+3+4	18		
177.2	65	X	B2		Medium dense	16	4+6+6	18		
	70	X				21	4+6+10	18		
	75	X				17	3+6+7	18		
	80	X			Bottom of Borehole at 80.0 ft.	20	5+7+8	18		
160.7										
	85									
	90									

GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: <u>60.0</u> ft. ELEV. <u>180.7</u> ▼ 6/2/2020 <u>5.0</u> ft. ELEV. <u>235.7</u> CAVED: <u>60.0</u> ft. ELEV. <u>180.7</u>	X SPT ■ Undisturbed Sample

REMARKS: Latitude: 38.79296°
Longitude: -76.86040°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



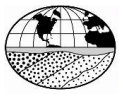
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: TFA-2
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: A. Fowler	DATES DRILLED: 6/4/20	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 251.1	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer	DRILL RIG: D 50	

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	P.D. (ppm)	SOIL		
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)
251.1					Topsoil = 3 in.				
250.9					Fill, red-brown, fine to medium, SILTY SAND WITH GRAVEL, medium dense, moist, SM	25	6+10+9+5	6	
249.1					Fill, red-brown, fine to medium, SANDY SILT, stiff, moist, ML	11	2+3+5+7	12	
247.1			A		Fill, dark gray, fine to medium, SILTY SAND, medium dense, moist, organics, SM	15	5+6+5+4	13	
245.1	5				Fill, dark brown, coarse, SANDY LEAN CLAY, firm, moist, CL	8	2+3+3+6	12	
243.1					Alluvial, dark brown and white, medium to coarse, SILTY SAND WITH GRAVEL, dense, moist, contains gravel sized quartz fragments, SM	35	5+12+14+14	16	
239.1	10		B2		Alluvial, orange-brown, coarse, POORLY GRADED SAND, medium dense, wet, SP	40	15+15+15+18	14	
	15					16	7+7+5+7	15	
232.6	20				Alluvial, dark gray, LEAN CLAY, firm, moist, CL	5	2+2+2	0	
227.6	25				Alluvial, dark gray, SILT, moist, ML	5	2+2+2	18	
222.6	30		B1		Alluvial, dark gray, LEAN CLAY, moist, CL	5	3+2+2	18	
217.6	35				Alluvial, dark gray, SILT, very stiff, moist, ML	17	6+6+7	18	
212.6	40				Stiff	11	5+4+4	18	

GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	12.5 ft. ELEV. 238.6	<input checked="" type="checkbox"/>	SPT
6/5/2020	5.0 ft. ELEV. 246.1		
	CAVED: 11.0 ft. ELEV. 240.1		

REMARKS: Latitude: 38.79496°
Longitude: -76.86033°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



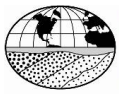
PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: TFA-2
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	
		SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL	
							SPT BLOW COUNTS	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
202.6	45		B2		Alluvial, dark gray, fine, SILTY SAND, loose, moist, SM	9	3+3+4	18
202.6	50		B1		Alluvial, dark gray, LEAN CLAY, firm, moist, CL	7	2+2+3	18
197.6	55				Alluvial, dark gray, fine, SILTY SAND, loose, moist, SM	9	3+3+4	18
	60					9	2+3+4	18
187.6	65		B2		Medium dense	11	3+4+4	17
	70					13	3+5+5	18
	75					17	4+6+7	18
	80				Bottom of Borehole at 80.0 ft.	19	5+6+8	18
171.1	85							
	90							

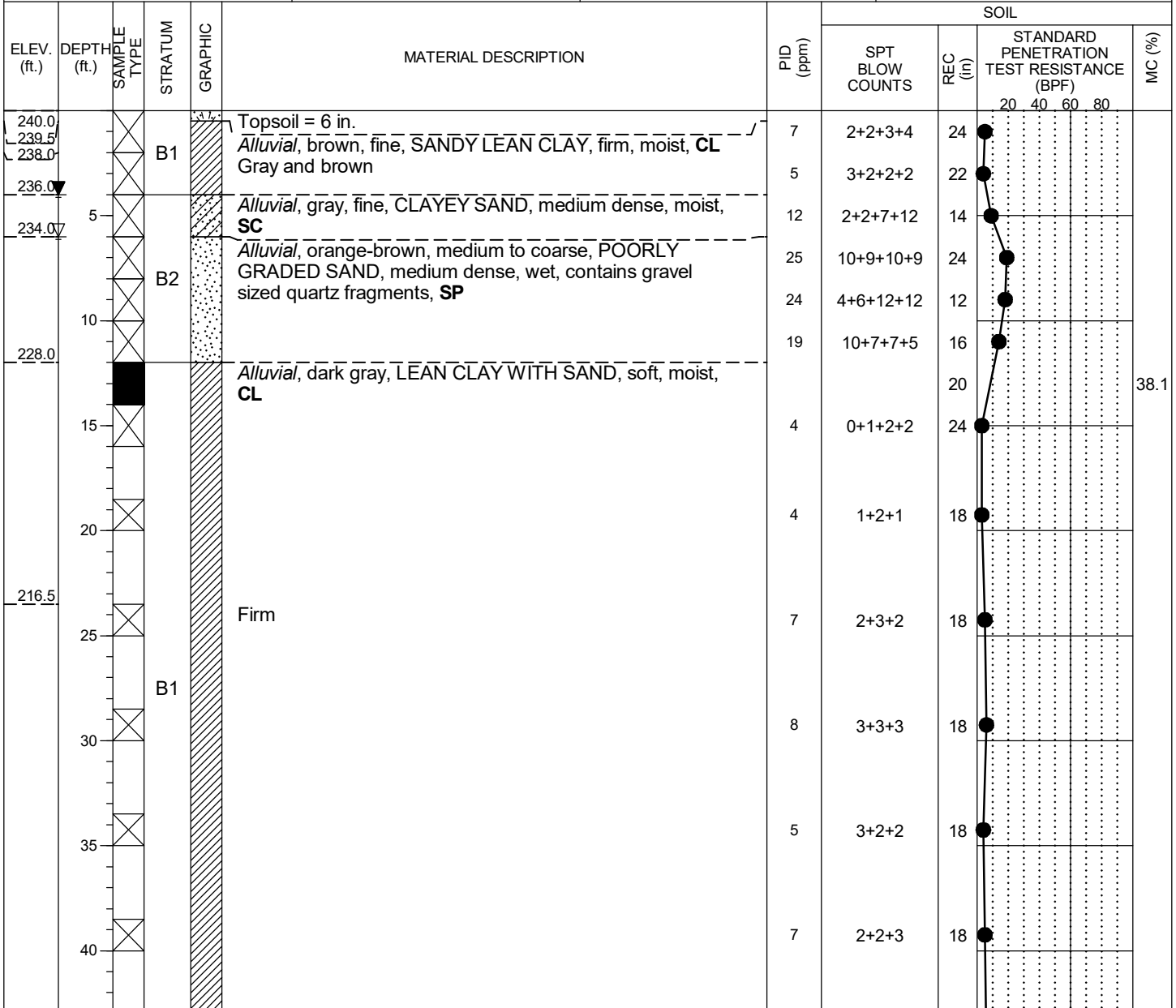
GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: <u>12.5</u> ft. ELEV. <u>238.6</u> ▼ 6/5/2020 <u>5.0</u> ft. ELEV. <u>246.1</u> CAVED: <u>11.0</u> ft. ELEV. <u>240.1</u>	☒ SPT

REMARKS: Latitude: 38.79496°
Longitude: -76.86033°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: TFA-3
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: P. Lewis	DATES DRILLED: 6/1/20	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 240.0	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer	DRILL RIG: CME 450	

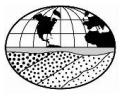


GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED: 6.0 ft. ELEV. 234.0		<input checked="" type="checkbox"/> SPT	
6/2/2020 4.0 ft. ELEV. 236.0	CAVED: 8.0 ft. ELEV. 232.0	<input type="checkbox"/> Undisturbed Sample	

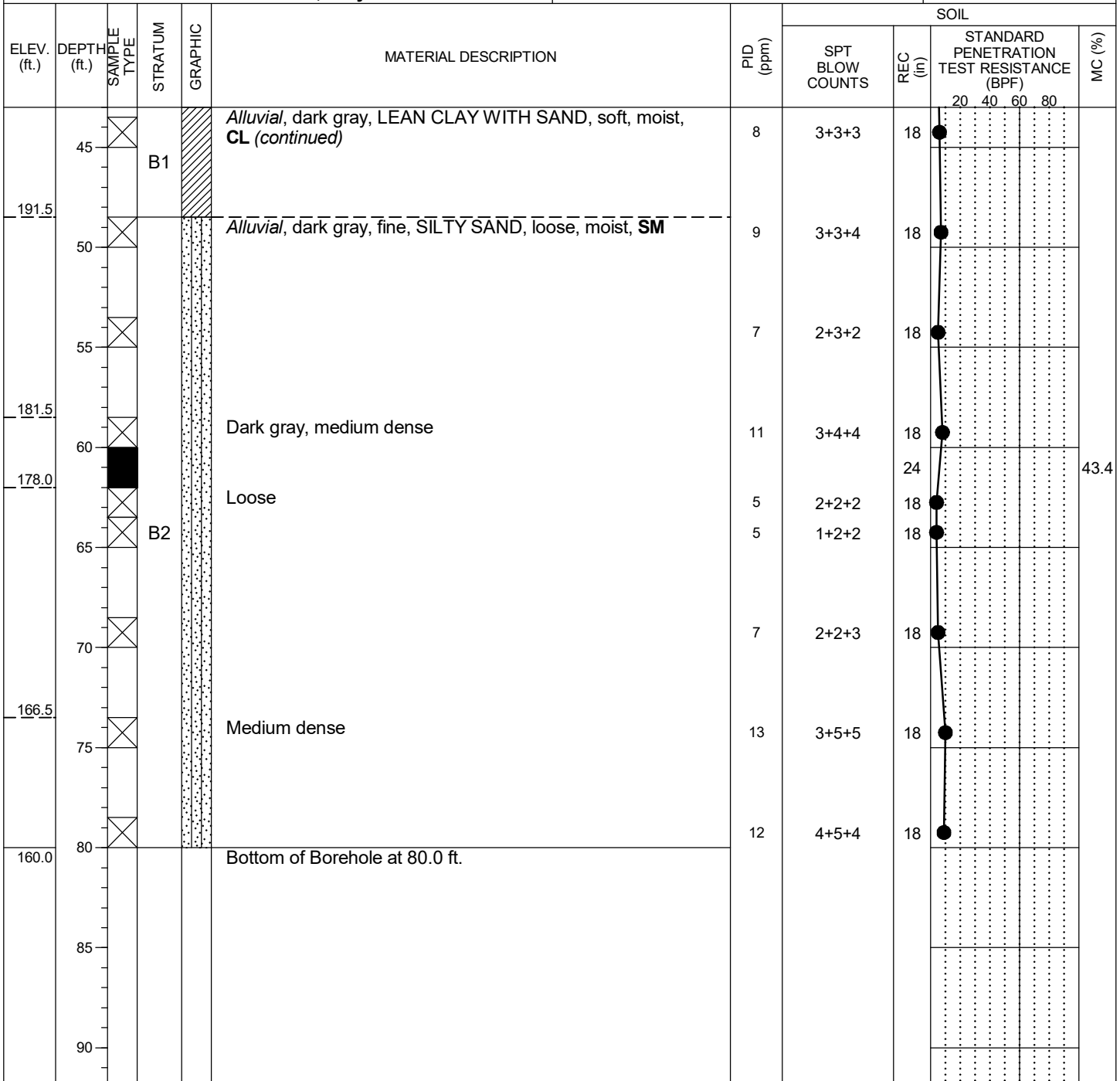
REMARKS: Latitude: 38.79438°
Longitude: -76.85989°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: TFA-3
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	
		SHEET 2 OF 2

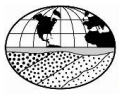


GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: <u>6.0</u> ft. ELEV. <u>234.0</u> ▼ 6/2/2020 <u>4.0</u> ft. ELEV. <u>236.0</u> CAVED: <u>8.0</u> ft. ELEV. <u>232.0</u>	☒ SPT ■ Undisturbed Sample

REMARKS: Latitude: 38.79438°
Longitude: -76.85989°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



PROJECT: JBA HCP & EOD				LOGGED BY: R. Soper			BORING NUMBER: TFA-4		
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Terracon					
OWNER/CLIENT: Wiley Wilson				DRILLER: A. Fowler			DATES DRILLED: 5/26/20		
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 241.5		DRILLING METHOD: 3.25-in. HSA; Automatic Hammer			DRILL RIG: CME 450		

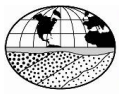
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL					
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)		MC (%)	
									20	40		60
241.5					Topsoil = 6 in.	8	3+3+3+3	23				
241.0					<i>Alluvial</i> , gray-brown, fine to medium, SILTY SAND, loose, moist, SM	12	5+5+4+4	22				
239.5			B2		<i>Alluvial</i> , orange-brown, medium to coarse, CLAYEY SAND WITH GRAVEL, medium dense, moist, SC	8	2+3+3+3	24				
235.5	5				<i>Alluvial</i> , orange-brown and gray, SILT, stiff, moist, ML	11	4+4+4+5	24				
231.5	10				<i>Alluvial</i> , dark gray, LEAN CLAY WITH SAND, soft, moist, without sand, CL	3	1+1+1+2	20				51.5
227.5	15				Firm, moist	5	2+2+2+3	24				
218.0	20					7	2+2+3	18				51.4
213.0	25		B1		Very stiff	16	5+5+7	18				
209.5	30				<i>Alluvial</i> , dark gray, fine, SANDY SILT, firm, moist, ML	8	0+3+3	18				36.8
208.0	35				Stiff	15	5+5+6	18				
203.0	40				Very stiff	16	4+5+7	18				
201.5					Firm	5	2+2+2	18				51.0
					<i>Alluvial</i> , dark gray, fine, LEAN CLAY WITH SAND, firm, moist, CL			24				

GROUND WATER LEVELS:				SAMPLE TYPES:			
▽ ENCOUNTERED: <u>8.0</u> ft. ELEV. <u>233.5</u> ▼ 6/2/2020 <u>3.5</u> ft. ELEV. <u>238.0</u> CAVED: <u>7.5</u> ft. ELEV. <u>234.0</u>				<div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; border: 1px solid black; margin-right: 5px; position: relative;"> <div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%);">X</div> </div> SPT </div> <div style="display: flex; align-items: center;"> <div style="width: 20px; height: 20px; background-color: black; margin-right: 5px;"></div> Undisturbed Sample </div>			

REMARKS: Latitude: 38.79420°
 Longitude: -76.86048°

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: TFA-4
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	
		SHEET 2 OF 2

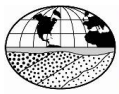
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)	MC (%)
	45		B1		<i>Alluvial</i> , dark gray, fine, LEAN CLAY WITH SAND, firm, moist, CL (continued)	5 7	2+2+2 3+3+2	18		
	50					7	1+2+3	18		
188.0	55				<i>Alluvial</i> , dark gray, fine, SILTY SAND, medium dense, moist, SM	15	5+5+6	18		
183.0	60		B2		Loose	7	3+3+2	18		
178.0	65				Medium dense	13	3+3+7	18		
173.0 172.9	70				<i>Alluvial</i> , dark gray, SANDY SILT, very stiff, moist, ML	20	6+7+8	18		
168.0	75		B1		Soft	4	1+1+2	18		
163.0	80				Stiff	12	4+4+5	18		
161.5					Bottom of Borehole at 80.0 ft.					
	85									
	90									

GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: <u>8.0</u> ft. ELEV. <u>233.5</u> ▼ 6/2/2020 <u>3.5</u> ft. ELEV. <u>238.0</u> CAVED: <u>7.5</u> ft. ELEV. <u>234.0</u>	☒ SPT ■ Undisturbed Sample

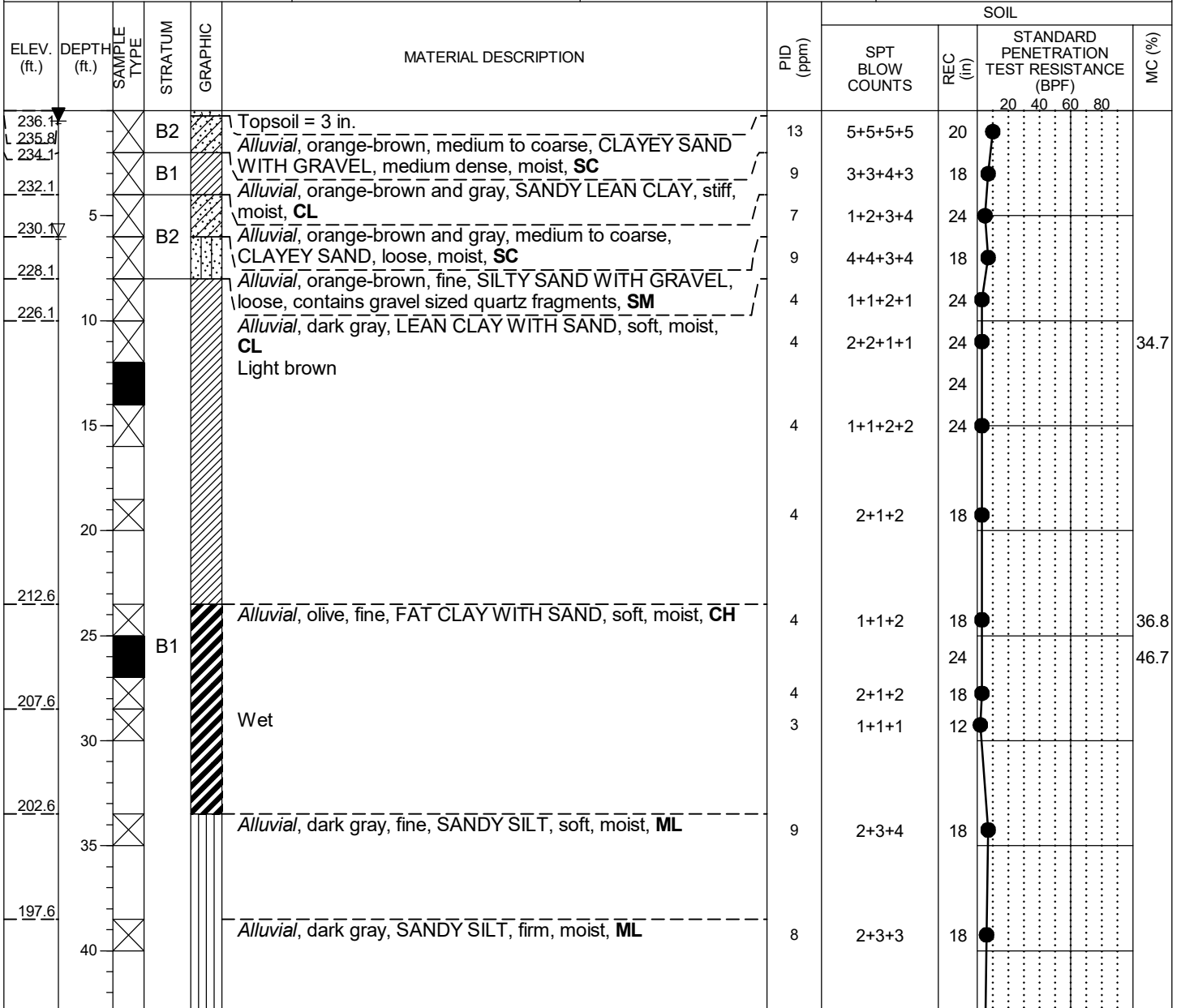
REMARKS: Latitude: 38.79420°
Longitude: -76.86048°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



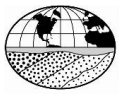
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: TFA-5
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: J. Labas	DATES DRILLED: 5/29/20	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 236.1	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer	DRILL RIG: D 50	



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED: <u>6.0</u> ft. ELEV. <u>230.1</u>		<input checked="" type="checkbox"/> SPT	
6/2/2020 <u>0.5</u> ft. ELEV. <u>235.6</u>	CAVED: <u>20.0</u> ft. ELEV. <u>216.1</u>	<input type="checkbox"/> Undisturbed Sample	

REMARKS: Latitude: 38.79349°
Longitude: -76.86040°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: TFA-5
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	
		SHEET 2 OF 2

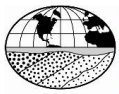
ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)	MC (%)
192.6	45	X	B2		Alluvial, dark gray, fine, SILTY SAND, loose, moist, SM	7	2+3+2	18		
187.6	50	X			Medium dense	12	3+4+5	18		
182.6	55	X			Loose	9	3+4+3	18		
177.6	60	X			Medium dense	13	4+4+6	18		
172.6	65	X	B1		Alluvial, dark gray, SANDY SILT, stiff, moist, ML	12	4+4+5	18		
	70	X				12	5+4+5	18		
162.6	75	X			Very stiff	19	6+7+7	18		
	80	X				19	5+8+6	18		
156.1					Bottom of Borehole at 80.0 ft.					
	85									
	90									

GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: <u>6.0</u> ft. ELEV. <u>230.1</u> ▼ 6/2/2020 <u>0.5</u> ft. ELEV. <u>235.6</u> CAVED: <u>20.0</u> ft. ELEV. <u>216.1</u>	X SPT ■ Undisturbed Sample

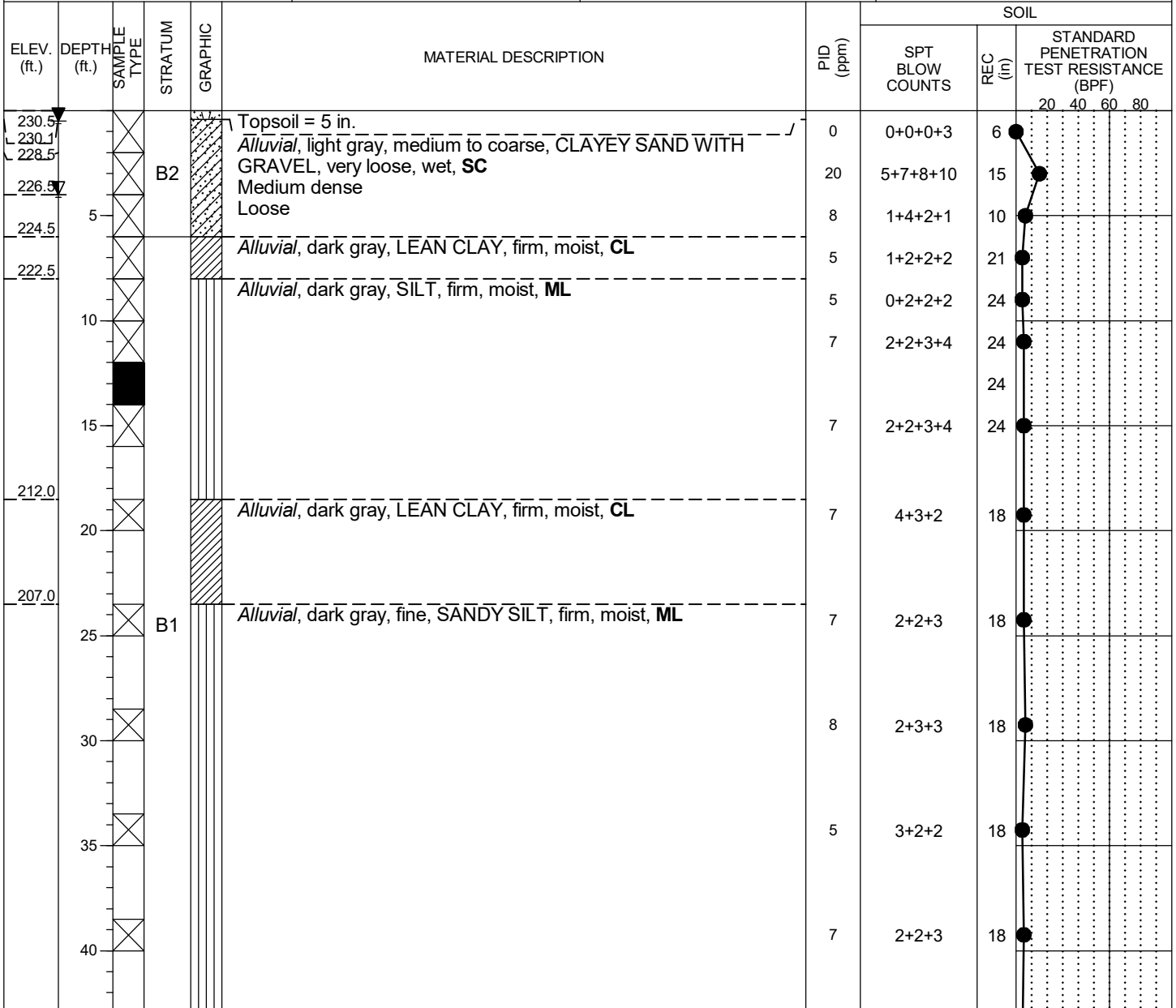
REMARKS: Latitude: 38.79349°
Longitude: -76.86040°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



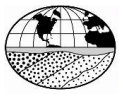
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: TFA-6
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: A. Fowler		DATES DRILLED: 6/1/20
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 230.5	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer		DRILL RIG: D 50



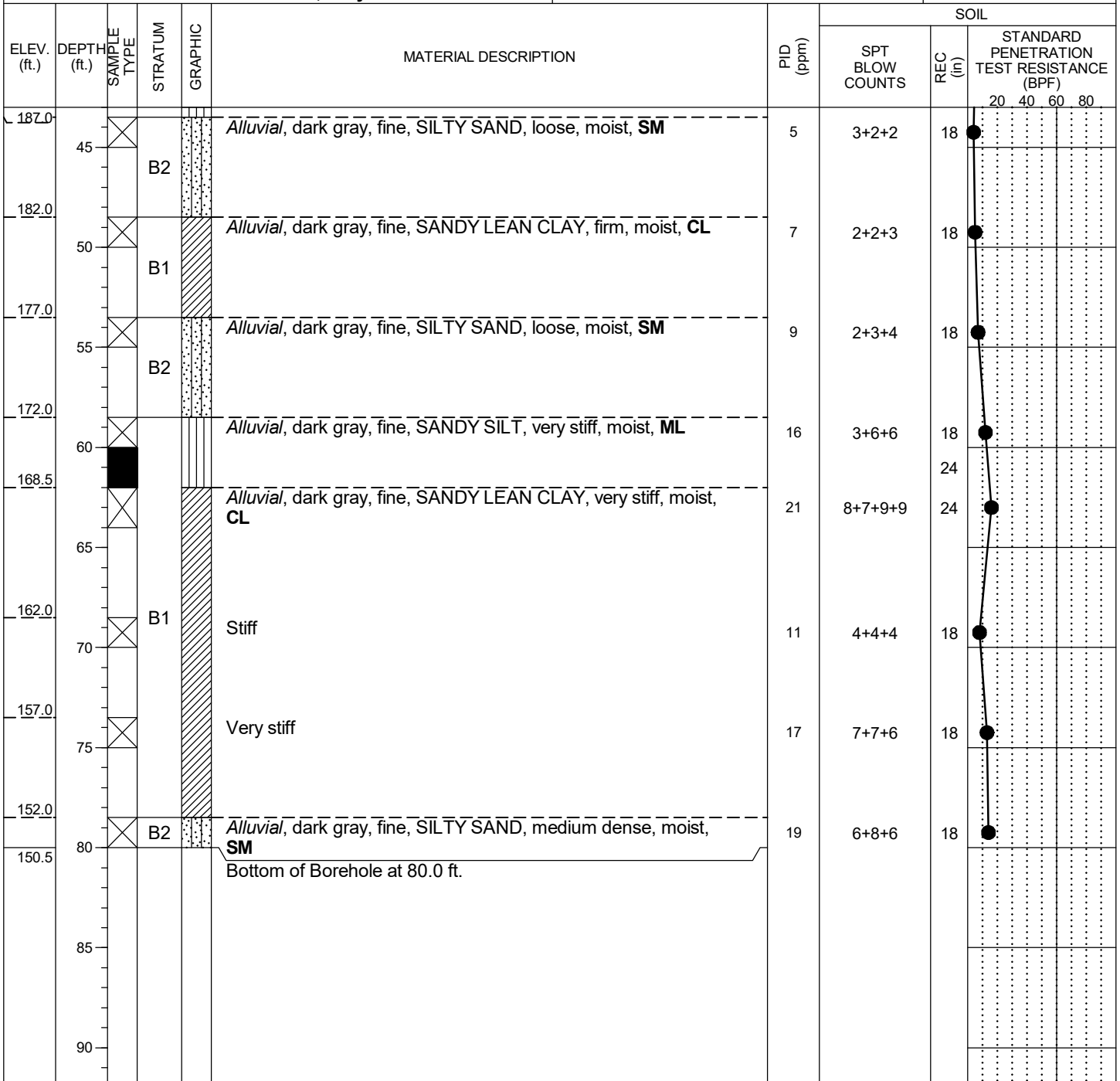
GROUND WATER LEVELS:				SAMPLE TYPES:			
ENCOUNTERED:	4.0	ft.	ELEV.	226.5	<input checked="" type="checkbox"/> SPT <input type="checkbox"/> Undisturbed Sample		
UPON COMPLETION:	4.0	ft.	ELEV.	226.5			
6/2/2020	0.5	ft.	ELEV.	230.0			
			CAVED:	73.0	ft.	ELEV.	157.5
			CAVED:	20.0	ft.	ELEV.	210.5

REMARKS: Latitude: 38.79232°
Longitude: -76.86085°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: TFA-6
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	
		SHEET 2 OF 2

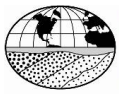


GROUND WATER LEVELS:				SAMPLE TYPES:	
ENCOUNTERED:	4.0	ft.	ELEV. 226.5	ENCOUNTERED:	4.0
UPON COMPLETION:	4.0	ft.	ELEV. 226.5	UPON COMPLETION:	4.0
6/2/2020	0.5	ft.	ELEV. 230.0	6/2/2020	0.5
				CAVED: 73.0 ft. ELEV. 157.5	
				CAVED: 20.0 ft. ELEV. 210.5	

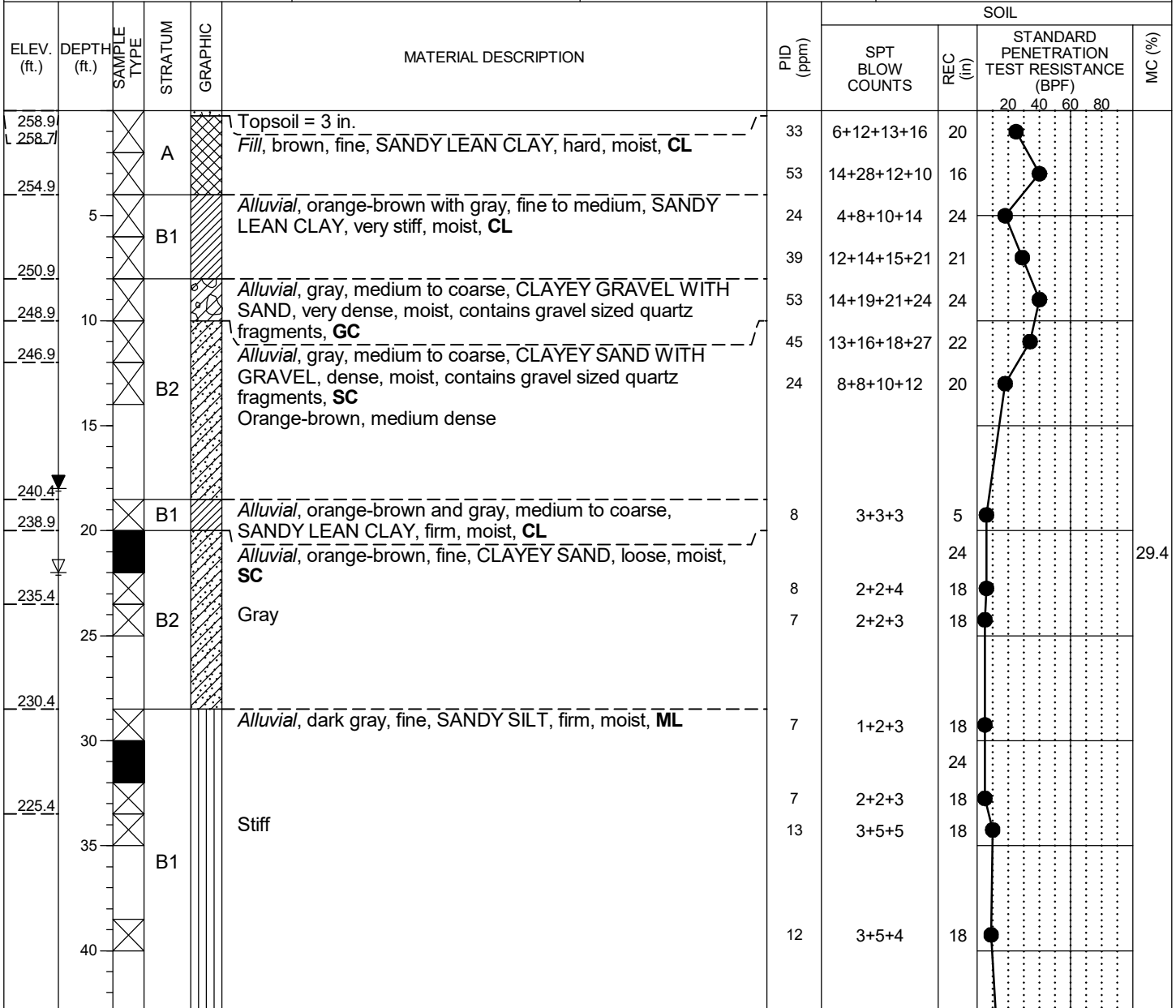
REMARKS: Latitude: 38.79232°
Longitude: -76.86085°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20



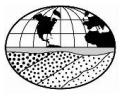
PROJECT: JBA HCP & EOD		LOGGED BY: R. Soper		BORING NUMBER: TSS-1
LOCATION: Joint Base Andrews, Maryland		DRILLING CONTRACTOR: Terracon		
OWNER/CLIENT: Wiley Wilson		DRILLER: G. Wilson	DATES DRILLED: 6/3/20	
PROJECT NUMBER: JD175507	GROUND SURFACE ELEVATION (ft.): 258.9	DRILLING METHOD: 3.25-in. HSA; Automatic Hammer	DRILL RIG: CME 450	



GROUND WATER LEVELS:		SAMPLE TYPES:	
ENCOUNTERED:	22.0 ft. ELEV. 236.9		SPT
6/5/2020	18.0 ft. ELEV. 240.9		Undisturbed Sample

REMARKS: Latitude: 38.79711°
Longitude: -76.86138°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



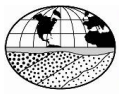
PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: TSS-1
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	
		SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL			
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)	MC (%)
215.4	45	X	B1		Alluvial, dark gray, fine, SANDY SILT, firm, moist, ML (continued) Very stiff	17	4+6+7	18	20	
210.4	50	X			Stiff	9	2+3+4	18	40	
205.4	55	X	B2		Alluvial, dark gray, fine, SILTY SAND, loose, moist, SM	8	1+3+3	18	60	
	60	X				9	3+3+4	18	80	
198.9	60				Bottom of Borehole at 60.0 ft.					
	65									
	70									
	75									
	80									
	85									
	90									

GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: <u>22.0</u> ft. ELEV. <u>236.9</u> ▼ 6/5/2020 <u>18.0</u> ft. ELEV. <u>240.9</u>	X SPT ■ Undisturbed Sample

REMARKS: Latitude: 38.79711°
Longitude: -76.86138°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

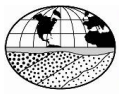


PROJECT: JBA HCP & EOD				LOGGED BY: R. Soper				BORING NUMBER: TSS-2			
LOCATION: Joint Base Andrews, Maryland				DRILLING CONTRACTOR: Terracon							
OWNER/CLIENT: Wiley Wilson				DRILLER: J. Labas				DATES DRILLED: 6/4/20			
PROJECT NUMBER: JD175507		GROUND SURFACE ELEVATION (ft.): 270.1		DRILLING METHOD: 3.25-in. HSA; Automatic Hammer				DRILL RIG: D 50			

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL				
							SPT BLOW COUNTS	REC (in)	STANDARD PENETRATION TEST RESISTANCE (BPF)		
							20	40	60	80	
270.1					Topsoil = 3 in.	13	4+5+5+5	10			
269.9					Fill, brown and white, fine, SILTY SAND WITH GRAVEL, contains odor, medium dense, moist, SM	8	5+3+3+4	12			
268.1					Red-brown, loose, without gravel						
266.1					Fill, brown, SANDY LEAN CLAY, very stiff, moist, CL	16	3+6+6+7	12			
264.1	5		A		Brown with gray, firm	7	4+2+3+3	8			
260.1	10		B2		Alluvial, gray-brown, fine to medium, CLAYEY SAND, medium dense, moist, SC	11	4+3+5+5	10			
258.1					Alluvial, gray-brown, fine to medium, SANDY LEAN CLAY, contains odor, stiff, moist, CL	12	5+3+6+4	6			
	15		B1								
251.6	20				Alluvial, brown, medium to coarse, CLAYEY SAND WITH GRAVEL, dense, moist, contains gravel sized quartz fragments, SC	36	9+12+15	8			
246.6	25		B2		Alluvial, orange-brown, medium, SILTY SAND, medium dense, moist, SM	29	10+12+10	18			
241.6	30				Loose, wet	9	3+3+4	18			
236.6	35				Alluvial, orange-brown, fine, SANDY SILT, soft, moist, ML	3	2+1+1	18			
231.6	40		B1		Dark gray	4	2+1+2	18			

GROUND WATER LEVELS:				SAMPLE TYPES:			
▽ ENCOUNTERED: <u>30.0</u> ft. ELEV. <u>240.1</u>				<input checked="" type="checkbox"/> SPT			
▼ 6/4/2020 <u>24.0</u> ft. ELEV. <u>246.1</u>							
REMARKS: Latitude: 38.79584° Longitude: -76.85951°							

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.



PROJECT: JBA HCP & EOD	LOGGED BY: R. Soper	BORING NUMBER: TSS-2
LOCATION: Joint Base Andrews, Maryland	DRILLING CONTRACTOR: Terracon	
		SHEET 2 OF 2

ELEV. (ft.)	DEPTH (ft.)	SAMPLE TYPE	STRATUM	GRAPHIC	MATERIAL DESCRIPTION	PID (ppm)	SOIL	
							SPT BLOW COUNTS	STANDARD PENETRATION TEST RESISTANCE (BPF) 20 40 60 80
226.6	45	X	B1		Alluvial, dark gray, LEAN CLAY, firm, moist, CL	7	3+2+3	18
	50	X				8	1+3+3	18
216.6	55	X			Stiff	15	4+5+6	18
211.6	60	X	B2		Alluvial, dark gray, fine, SILTY SAND, medium dense, moist, SM	11	3+4+4	18
210.1					Bottom of Borehole at 60.0 ft.			
	65							
	70							
	75							
	80							
	85							
	90							

GROUND WATER LEVELS:	SAMPLE TYPES:
▽ ENCOUNTERED: <u>30.0</u> ft. ELEV. <u>240.1</u> ▼ 6/4/2020 <u>24.0</u> ft. ELEV. <u>246.1</u>	<input checked="" type="checkbox"/> SPT

REMARKS: Latitude: 38.79584°
Longitude: -76.85951°

THE STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARIES. THE TRANSITION MAY BE GRADUAL.

BOREHOLE/TEST PIT JBA HAZ CARGO ADDENDUM NO 1 LOGS.GPJ GEOCONCEPTS 20170216.GDT 8/11/20