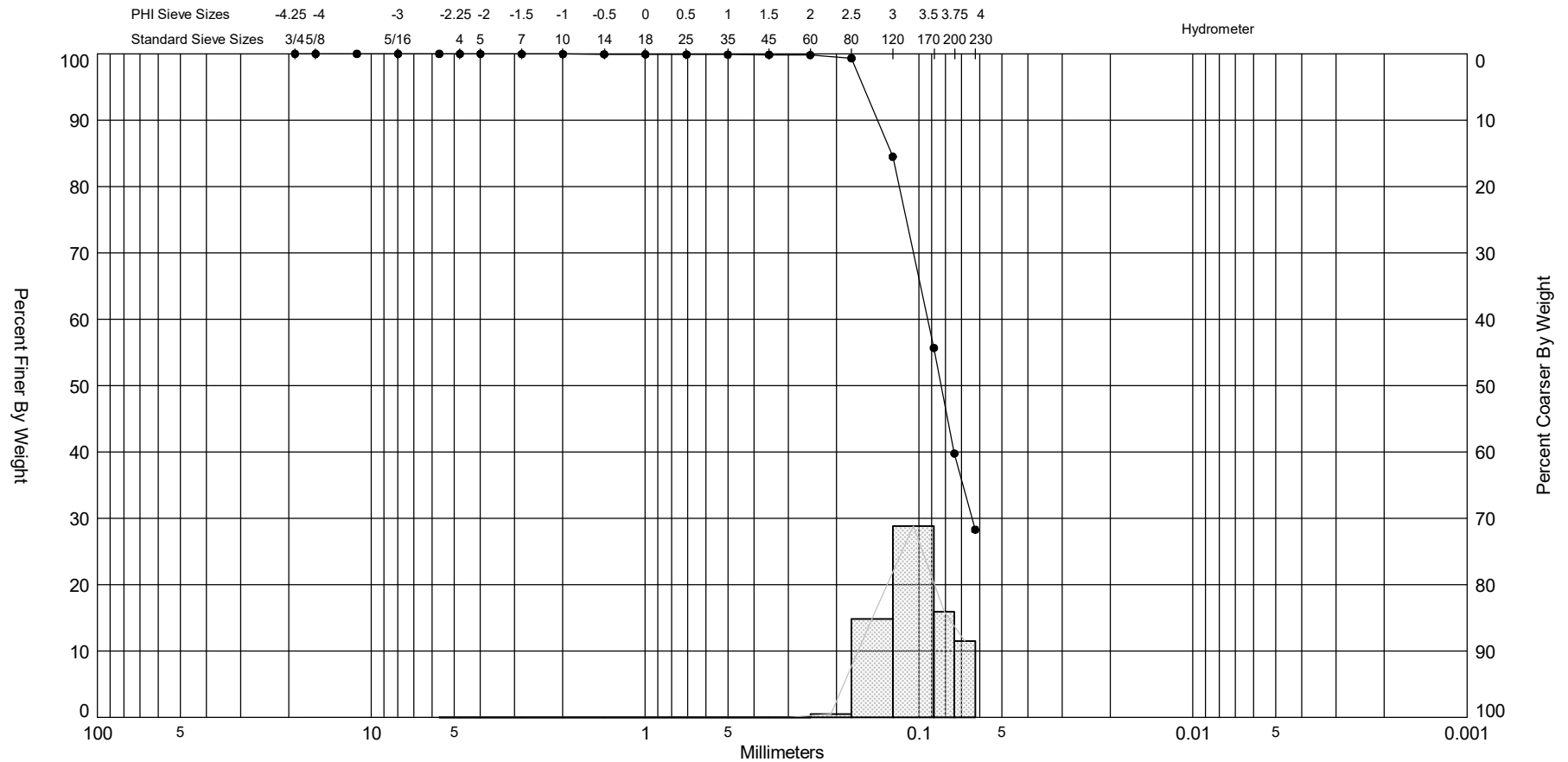


DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 1 SHEETS	
1. PROJECT McFaddin NWR Beach Ridge Restoration Jefferson County, Texas				9. SIZE AND TYPE OF BIT 3.0 In.			
2. BORING DESIGNATION JCVC-18-40				10. COORDINATE SYSTEM/DATUM Texas South Central		HORIZONTAL NAD 1983	
3. DRILLING AGENCY APTIM				11. MANUFACTURER'S DESIGNATION OF DRILL APTIM SEAS VC-700 Vibracore		VERTICAL NAVD88	
4. NAME OF DRILLER Francis Stankiewicz				12. TOTAL SAMPLES			
5. DIRECTION OF BORING ☒ VERTICAL ☐ INCLINED				13. TOTAL NUMBER CORE BOXES			
6. THICKNESS OF OVERBURDEN 0.0 Ft.				14. ELEVATION GROUND WATER			
7. DEPTH DRILLED INTO ROCK 0.0 Ft.				15. DATE BORING			
8. TOTAL DEPTH OF BORING 19.1 Ft.				16. ELEVATION TOP OF BORING -19.8 Ft.			
				17. TOTAL RECOVERY FOR BORING 17.5 Ft.			
				18. SIGNATURE AND TITLE OF INSPECTOR KM			
ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS	
-19.8	0.0						
-23.9	4.1		SAND, fine grained, quartz, some clay, 1.25" shell fragment @ 0.2', light olive gray (5Y-6/2), (SC).		1	Sample #1, Depth = 2.0' Mean (mm): 0.10, Phi Sorting: 0.40 Fines (230): 24.28% (SC)	
-26.6	6.8		SAND, fine grained, quartz, some clay, gray (5Y-6/1), (SC).		2	Sample #2, Depth = 5.5' Mean (mm): 0.10, Phi Sorting: 0.38 Fines (230): 21.03% (SC)	
-32.0	12.2		SAND, fine grained, quartz, some clay, trace organics, 2.0" clayey pockets @ 9.0' and 10.2', gray (5Y-5/1), (SC).		3	Sample #3, Depth = 9.5' Mean (mm): 0.10, Phi Sorting: 0.37 Fines (230): 33.87% (SC)	
-33.3	13.5		SAND, fine grained, quartz, some clay, some organics, (1.0" x 0.5") wood fragment @ 12.3', (6.5" x 1.0") wood fragment @ 13.3', dark gray (5Y-4/1), (SC).		4	Sample #4, Depth = 12.8' Mean (mm): 0.11, Phi Sorting: 0.75 Fines (230): 34.22% (SC)	
-34.8	15.0		Sandy CLAY, little wood fragments, trace organics, wood fragments up to (2.5" x 0.5"), gray (5Y-5/1), (CL).		5	Sample #5, Depth = 14.2' Mean (mm): 0.10, Phi Sorting: 0.62 Fines (230): 60.89% (CL)	
-37.3	17.5		Clayey SAND, fine grained, quartz, trace organics, (4.0" x 0.75") wood fragment @ 16.0', (2.5" x 0.75") wood fragments @ 16.3' and 16.6', gray (5Y-5/1), (CL).		6	Sample #6, Depth = 16.3' Mean (mm): 0.10, Phi Sorting: 0.45 Fines (230): 40.33% (CL)	
-38.9	19.1		No Recovery.				
			End of Boring				

Granularmetric Report Depths and elevations based on measured values				 APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102			
Project Name: McFaddin NWR Beach Ridge Restoration							
Sample Name: JCVC-18-40 COMP							
Analysis Date: 10-05-18							
Analyzed By: BF							
Easting (ft): 3,472,592		Northing (ft): 13,789,654		Coordinate System: Texas South Central		Elevation (ft):	
USCS: SC		Munsell:		Comments: COMPOSITE			
Dry Weight (g): 100.00	Wash Weight (g): 100.00	Pan Retained (g): 28.20	Sieve Loss (%): 0.09	Fines (%): #200 - 39.77 #230 - 28.29	Organics (%):	Carbonates (%):	Shell Hash (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.01	0.01	0.01	0.01	
5	-2.00	4.00	0.01	0.01	0.02	0.02	
7	-1.50	2.83	0.01	0.01	0.03	0.03	
10	-1.00	2.00	0.01	0.01	0.04	0.04	
14	-0.50	1.41	0.02	0.02	0.06	0.06	
18	0.00	1.00	0.01	0.01	0.07	0.07	
25	0.50	0.71	0.03	0.03	0.10	0.10	
35	1.00	0.50	0.02	0.02	0.12	0.12	
45	1.50	0.35	0.02	0.02	0.14	0.14	
60	2.00	0.25	0.04	0.04	0.18	0.18	
80	2.50	0.18	0.49	0.49	0.67	0.67	
120	3.00	0.13	14.84	14.84	15.51	15.51	
170	3.50	0.09	28.81	28.81	44.32	44.32	
200	3.75	0.07	15.91	15.91	60.23	60.23	
230	4.00	0.06	11.48	11.48	71.71	71.71	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
			3.59	3.16	3.01	2.65	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	3.32	0.10	0.42	-1.84	19.96		

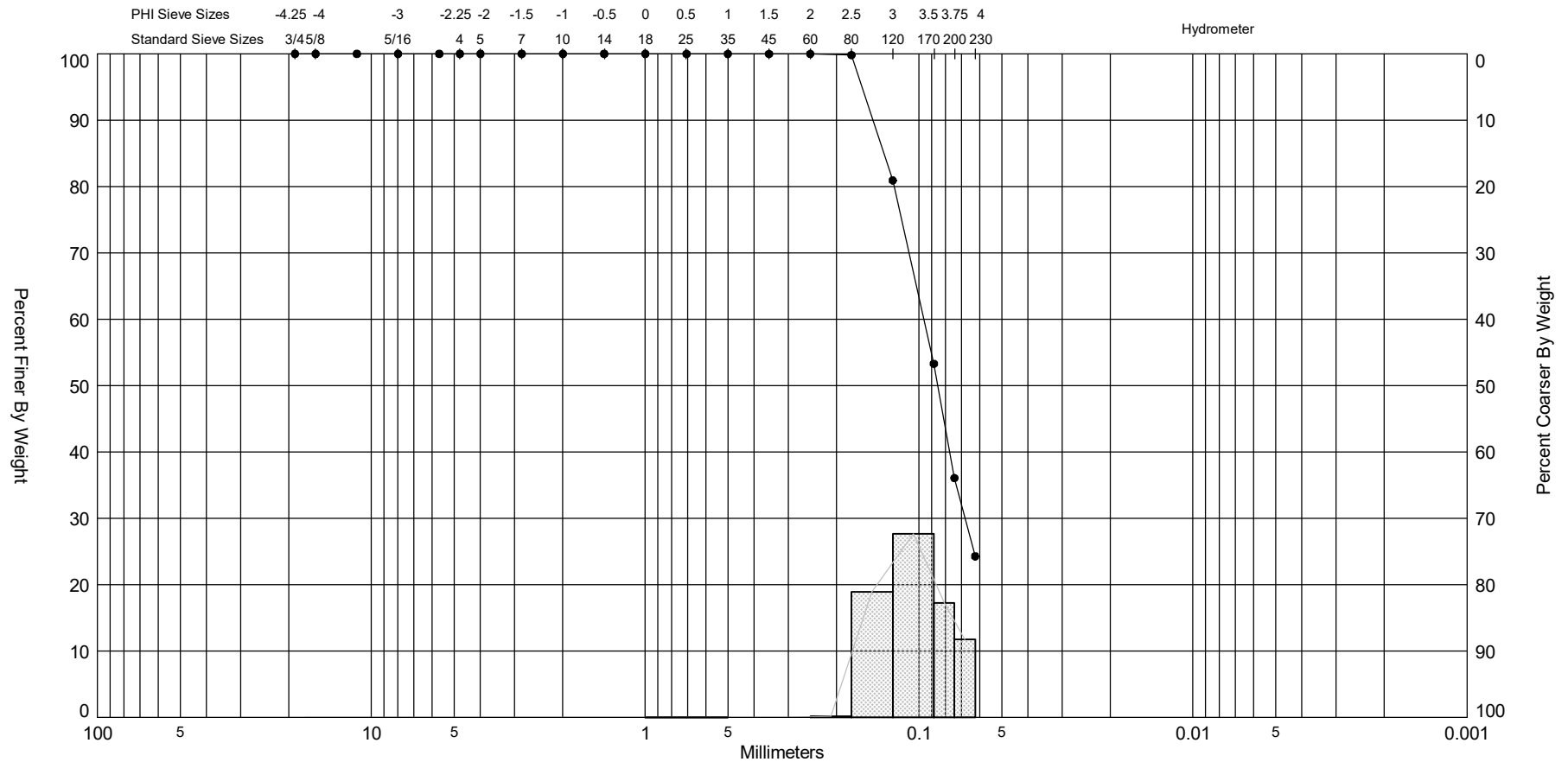
MCFADDIN_COMPOSITE_20181008.GPJ 11/19/18

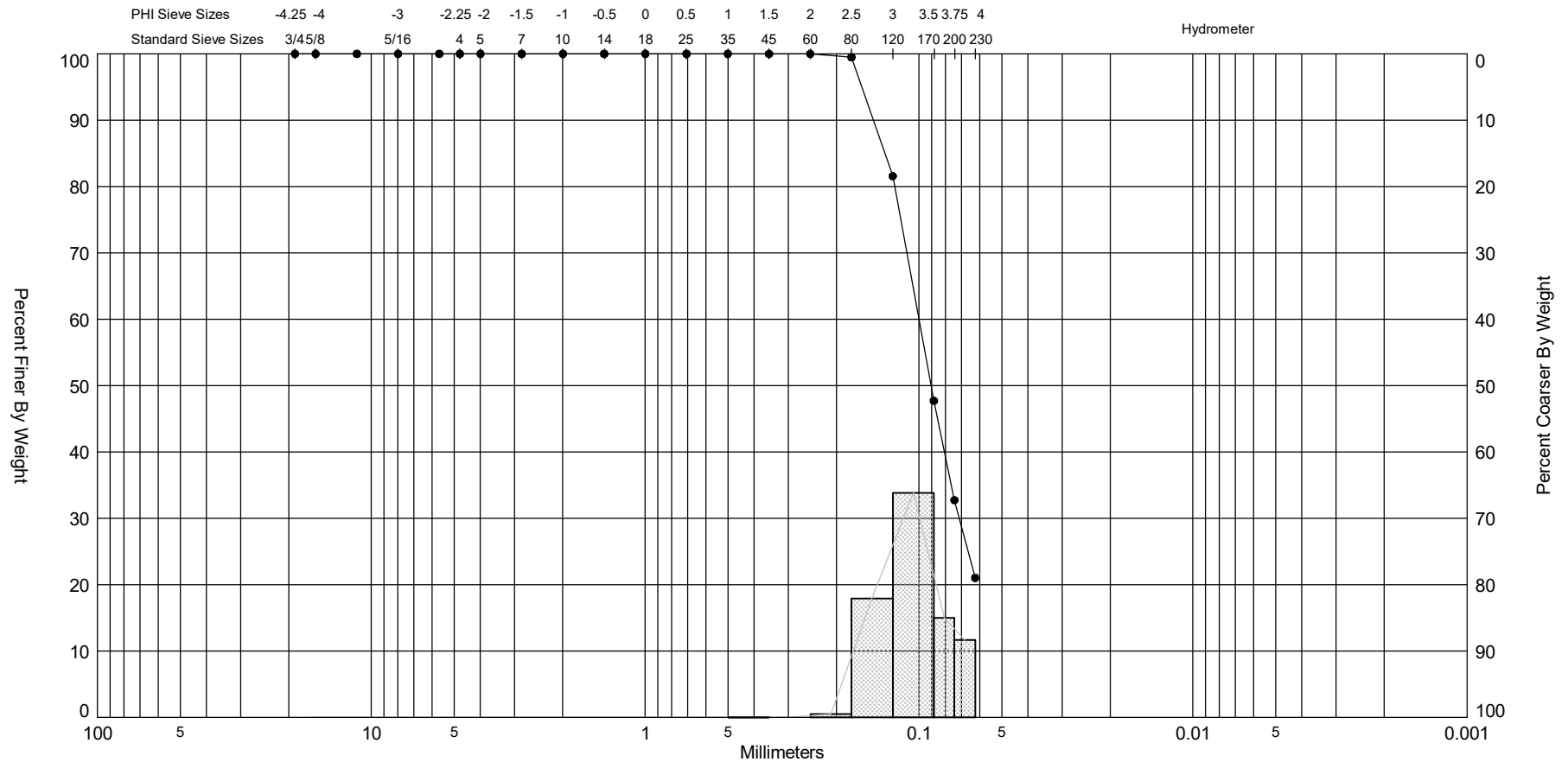


Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JCVC-18-40 COMP	—●—		SC	#200 - 39.77 #230 - 28.29			3.59	3.32	-1.84	19.96	0.42	Project Name:	McFaddin NWR Beach Ridge Restoration
Comments: COMPOSITE												Analysis Date:	10-05-18
Depths and elevations based on measured values												Analyzed By:	BF
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	3,472,592
												Northing (Y, ft):	13,789,654
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD 88

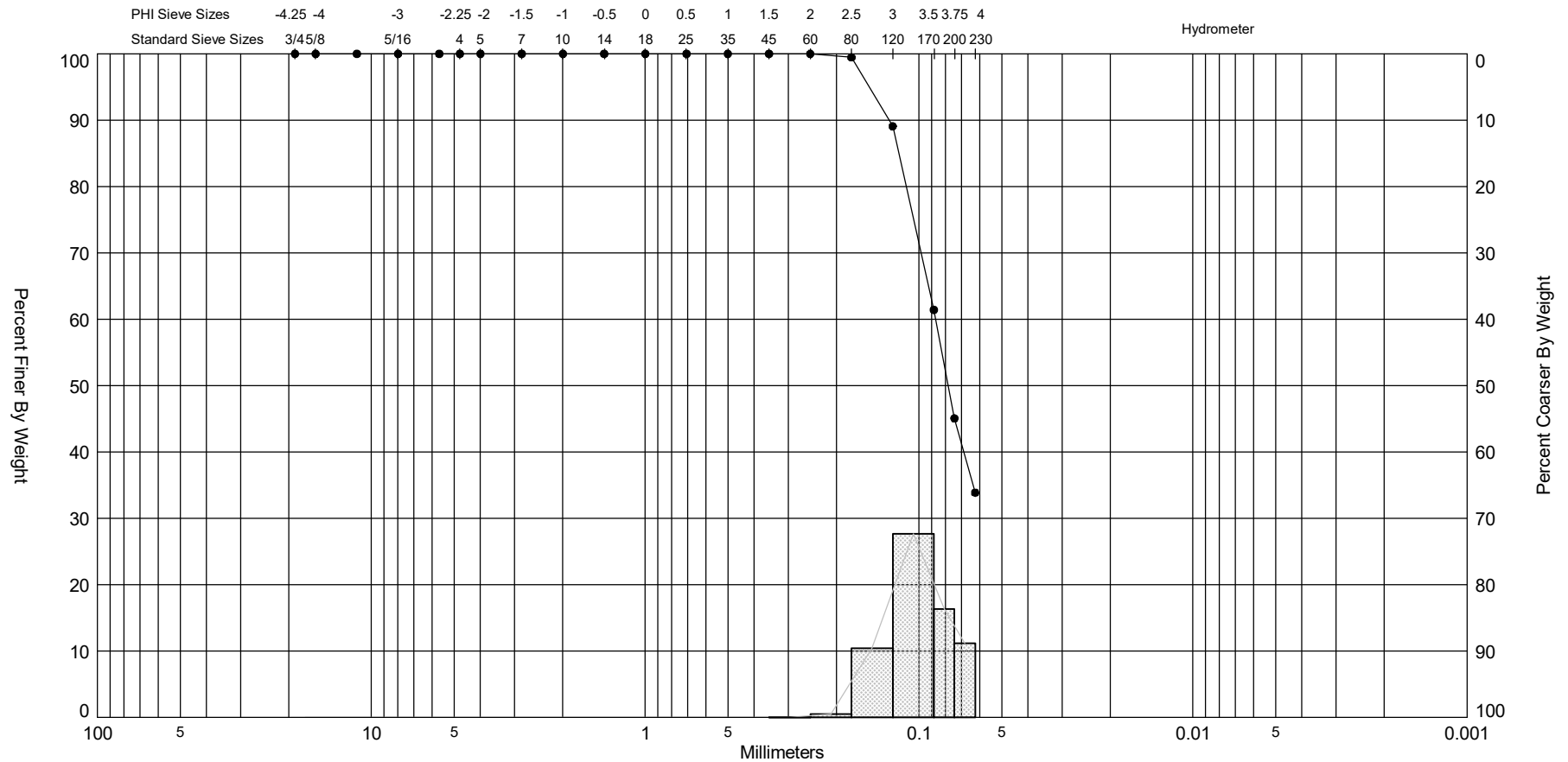
MCFADDIN_2018_VC.GPJ 8/14/18





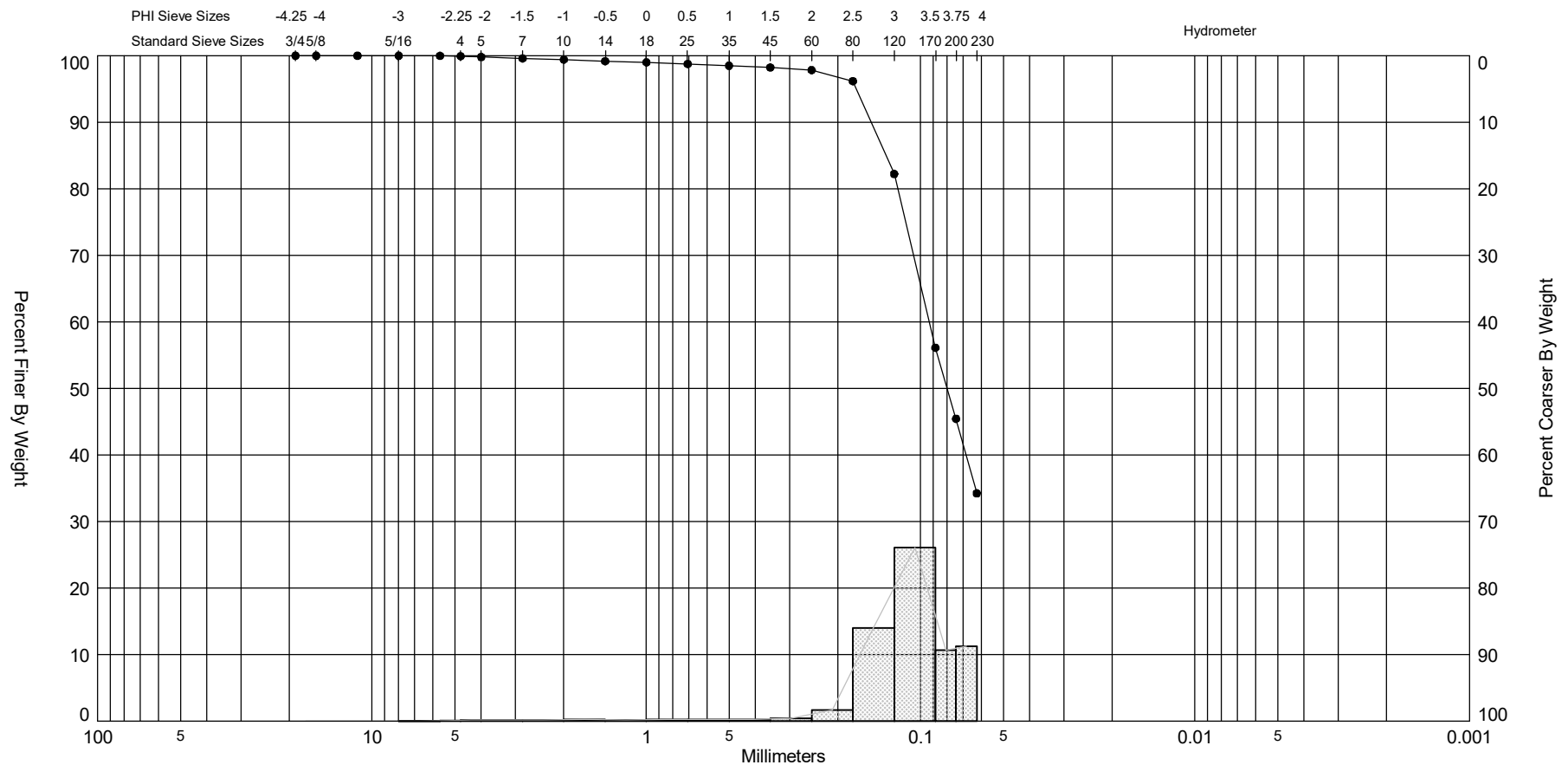
Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JCVC-18-40 #2	—●—	-25.3	SC	#200 - 32.73 #230 - 21.03			3.47	3.29	-0.16	2.28	0.38	Project Name:	McFaddin NWR Beach Ridge Restoration
Comments:												Analysis Date:	07-18-18
Depths and elevations based on measured values												Analyzed By:	SMT
							APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102					Easting (X, ft):	3,472,592
												Northing (Y, ft):	13,789,654
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JCVC-18-40 #3		-29.3	SC	#200 - 45.05 #230 - 33.87			3.67	3.36	-0.41	2.61	0.37	Project Name:	McFaddin NWR Beach Ridge Restoration
Comments:												Analysis Date:	07-18-18
Depths and elevations based on measured values												Analyzed By:	RH
						APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	3,472,592
												Northing (Y, ft):	13,789,654
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88



Gravel		Sand			Silt and Clay
Coarse	Fine	Coarse	Medium	Fine	

Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JCVC-18-40 #4	—●—	-32.6	SC	#200 - 45.45 #230 - 34.22			3.64	3.18	-3.72	22.9	0.75	Project Name:	McFaddin NWR Beach Ridge Restoration
Comments: Sieve sizes 3 1/2 to 60 consist of organics												Analysis Date:	07-18-18
Depths and elevations based on measured values												Analyzed By:	SMT
						APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	3,472,592
												Northing (Y, ft):	13,789,654
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88



Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
JCVC-18-40 #5		-34.0	CL	#200 - 67.81 #230 - 60.89				3.28	-4.03	28.76	0.62	Project Name:	McFaddin NWR Beach Ridge Restoration
Comments: Sieve sizes 7 to 25 consist of organics												Analysis Date:	07-18-18
Depths and elevations based on measured values												Analyzed By:	SP
						APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102						Easting (X, ft):	3,472,592
												Northing (Y, ft):	13,789,654
												Horizontal Datum:	NAD 1983
												Vertical Datum:	NAVD88

Granularmetric Report Depths and elevations based on measured values				 APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102			
Project Name: McFaddin NWR Beach Ridge Restoration							
Sample Name: JCVC-18-40 #1							
Analysis Date: 07-18-18							
Analyzed By: SMT							
Easting (ft): 3,472,592		Northing (ft): 13,789,654		Coordinate System: Texas South Central		Elevation (ft): -21.8 NAVD88	
USCS: SC		Munsell: Wet - 5Y-6/2 Dry - 5Y-8/2 Washed - 2.5Y-8/1		Comments:			
Dry Weight (g): 93.40	Wash Weight (g): 75.54	Pan Retained (g): 4.80	Sieve Loss (%): 0.02	Fines (%): #200 - 36.07 #230 - 24.28	Organics (%):	Carbonates (%):	Shell Hash (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.00	0.00	0.00	0.00	
7	-1.50	2.83	0.00	0.00	0.00	0.00	
10	-1.00	2.00	0.00	0.00	0.00	0.00	
14	-0.50	1.41	0.00	0.00	0.00	0.00	
18	0.00	1.00	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.01	0.01	0.01	0.01	
35	1.00	0.50	0.01	0.01	0.02	0.02	
45	1.50	0.35	0.00	0.00	0.02	0.02	
60	2.00	0.25	0.00	0.00	0.02	0.02	
80	2.50	0.18	0.16	0.17	0.18	0.19	
120	3.00	0.13	17.63	18.88	17.81	19.07	
170	3.50	0.09	25.82	27.64	43.63	46.71	
200	3.75	0.07	16.08	17.22	59.71	63.93	
230	4.00	0.06	11.01	11.79	70.72	75.72	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
		3.98	3.55	3.11	2.92	2.63	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	3.3	0.10	0.4	-0.25	2.6		

Granularmetric Report Depths and elevations based on measured values				 APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102			
Project Name: McFaddin NWR Beach Ridge Restoration							
Sample Name: JCVC-18-40 #2							
Analysis Date: 07-18-18							
Analyzed By: SMT							
Easting (ft): 3,472,592		Northing (ft): 13,789,654		Coordinate System: Texas South Central		Elevation (ft): -25.3 NAVD88	
USCS: SC		Munsell: Wet - 5Y-6/1 Dry - 5Y-7/1 Washed - 2.5Y-8/1		Comments:			
Dry Weight (g): 92.59	Wash Weight (g): 78.83	Pan Retained (g): 5.67	Sieve Loss (%): 0.05	Fines (%): #200 - 32.73 #230 - 21.03	Organics (%):	Carbonates (%):	Shell Hash (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.00	0.00	0.00	0.00	
7	-1.50	2.83	0.00	0.00	0.00	0.00	
10	-1.00	2.00	0.00	0.00	0.00	0.00	
14	-0.50	1.41	0.00	0.00	0.00	0.00	
18	0.00	1.00	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.00	0.00	0.00	0.00	
35	1.00	0.50	0.00	0.00	0.00	0.00	
45	1.50	0.35	0.01	0.01	0.01	0.01	
60	2.00	0.25	0.00	0.00	0.01	0.01	
80	2.50	0.18	0.45	0.49	0.46	0.50	
120	3.00	0.13	16.60	17.93	17.06	18.43	
170	3.50	0.09	31.35	33.86	48.41	52.29	
200	3.75	0.07	13.87	14.98	62.28	67.27	
230	4.00	0.06	10.83	11.70	73.11	78.97	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
		3.92	3.47	3.10	2.93	2.63	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	3.29	0.10	0.38	-0.16	2.28		

MCFADDIN_2018_VC.GPJ 8/14/18

Granularmetric Report Depths and elevations based on measured values				 APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102			
Project Name: McFaddin NWR Beach Ridge Restoration							
Sample Name: JCVC-18-40 #3							
Analysis Date: 07-18-18							
Analyzed By: RH							
Easting (ft): 3,472,592		Northing (ft): 13,789,654		Coordinate System: Texas South Central		Elevation (ft): -29.3 NAVD88	
USCS: SC		Munsell: Wet - 5Y-5/1 Dry - 5Y-7/1 Washed - 2.5Y-7/1		Comments:			
Dry Weight (g): 93.27	Wash Weight (g): 69.69	Pan Retained (g): 7.88	Sieve Loss (%): 0.14	Fines (%): #200 - 45.05 #230 - 33.87	Organics (%):	Carbonates (%):	Shell Hash (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.00	0.00	0.00	0.00	
7	-1.50	2.83	0.00	0.00	0.00	0.00	
10	-1.00	2.00	0.00	0.00	0.00	0.00	
14	-0.50	1.41	0.00	0.00	0.00	0.00	
18	0.00	1.00	0.00	0.00	0.00	0.00	
25	0.50	0.71	0.00	0.00	0.00	0.00	
35	1.00	0.50	0.00	0.00	0.00	0.00	
45	1.50	0.35	0.00	0.00	0.00	0.00	
60	2.00	0.25	0.01	0.01	0.01	0.01	
80	2.50	0.18	0.49	0.53	0.50	0.54	
120	3.00	0.13	9.69	10.39	10.19	10.93	
170	3.50	0.09	25.80	27.66	35.99	38.59	
200	3.75	0.07	15.26	16.36	51.25	54.95	
230	4.00	0.06	10.43	11.18	61.68	66.13	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
			3.67	3.25	3.09	2.71	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	3.36	0.10	0.37	-0.41	2.61		

MCFADDIN_2018_VC.GPJ 8/14/18

Granularmetric Report Depths and elevations based on measured values				 APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102			
Project Name: McFaddin NWR Beach Ridge Restoration							
Sample Name: JCVC-18-40 #4							
Analysis Date: 07-18-18							
Analyzed By: SMT							
Easting (ft): 3,472,592		Northing (ft): 13,789,654		Coordinate System: Texas South Central		Elevation (ft): -32.6 NAVD88	
USCS: SC		Munsell: Wet - 5Y-4/1 Dry - 5Y-6/1 Washed - 5Y-7/1		Comments: Sieve sizes 3 1/2 to 60 consist of organics			
Dry Weight (g): 87.98	Wash Weight (g): 68.81	Pan Retained (g): 10.79	Sieve Loss (%): 0.17	Fines (%): #200 - 45.45 #230 - 34.22	Organics (%):	Carbonates (%):	Shell Hash (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.02	0.02	0.02	0.02	
4	-2.25	4.76	0.04	0.05	0.06	0.07	
5	-2.00	4.00	0.11	0.13	0.17	0.20	
7	-1.50	2.83	0.18	0.20	0.35	0.40	
10	-1.00	2.00	0.15	0.17	0.50	0.57	
14	-0.50	1.41	0.21	0.24	0.71	0.81	
18	0.00	1.00	0.15	0.17	0.86	0.98	
25	0.50	0.71	0.22	0.25	1.08	1.23	
35	1.00	0.50	0.24	0.27	1.32	1.50	
45	1.50	0.35	0.24	0.27	1.56	1.77	
60	2.00	0.25	0.33	0.38	1.89	2.15	
80	2.50	0.18	1.47	1.67	3.36	3.82	
120	3.00	0.13	12.28	13.96	15.64	17.78	
170	3.50	0.09	22.96	26.10	38.60	43.88	
200	3.75	0.07	9.39	10.67	47.99	54.55	
230	4.00	0.06	9.88	11.23	57.87	65.78	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
			3.64	3.14	2.94	2.54	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	3.18	0.11	0.75	-3.72	22.9		

MCFADDIN_2018_VC.GPJ 8/14/18

Granularmetric Report Depths and elevations based on measured values				 APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102				
Project Name: McFaddin NWR Beach Ridge Restoration								
Sample Name: JCVC-18-40 #5								
Analysis Date: 07-18-18								
Analyzed By: SP								
Easting (ft): 3,472,592		Northing (ft): 13,789,654		Coordinate System: Texas South Central		Elevation (ft): -34.0 NAVD88		
USCS: CL		Munsell: Wet - 5Y-5/1 Dry - 5Y-6/1 Washed - 5Y-7/1		Comments: Sieve sizes 7 to 25 consist of organics				
Dry Weight (g): 93.02	Wash Weight (g): 40.49	Pan Retained (g): 4.12	Sieve Loss (%): 0.00	Fines (%): #200 - 67.81 #230 - 60.89	Organics (%):	Carbonates (%):	Shell Hash (%):	
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained		
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00		
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00		
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00		
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00		
3.5	-2.50	5.66	0.00	0.00	0.00	0.00		
4	-2.25	4.76	0.00	0.00	0.00	0.00		
5	-2.00	4.00	0.00	0.00	0.00	0.00		
7	-1.50	2.83	0.12	0.13	0.12	0.13		
10	-1.00	2.00	0.09	0.10	0.21	0.23		
14	-0.50	1.41	0.07	0.08	0.28	0.31		
18	0.00	1.00	0.07	0.08	0.35	0.39		
25	0.50	0.71	0.05	0.05	0.40	0.44		
35	1.00	0.50	0.09	0.10	0.49	0.54		
45	1.50	0.35	0.09	0.10	0.58	0.64		
60	2.00	0.25	0.17	0.18	0.75	0.82		
80	2.50	0.18	0.64	0.69	1.39	1.51		
120	3.00	0.13	5.48	5.89	6.87	7.40		
170	3.50	0.09	16.10	17.31	22.97	24.71		
200	3.75	0.07	6.96	7.48	29.93	32.19		
230	4.00	0.06	6.44	6.92	36.37	39.11		
Phi 5		Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
					3.51	3.25	2.80	
Moment	Mean Phi		Mean mm		Sorting		Skewness	Kurtosis
Statistics	3.28		0.10		0.62		-4.03	28.76

MCFADDIN_2018_VC.GPJ 8/14/18

Granularmetric Report Depths and elevations based on measured values				 APTIM 2481 NW Boca Raton Blvd. Boca Raton, FL 33431 ph (561) 391-8102			
Project Name: McFaddin NWR Beach Ridge Restoration							
Sample Name: JCVC-18-40 #6							
Analysis Date: 07-18-18							
Analyzed By: SMT							
Easting (ft): 3,472,592		Northing (ft): 13,789,654		Coordinate System: Texas South Central		Elevation (ft): -36.1 NAVD88	
USCS: SC		Munsell: Wet - 5Y-5/1 Dry - 5Y-7/1 Washed - 2.5Y-8/1		Comments: Sieve sizes 10 to 60 consist of organics			
Dry Weight (g): 92.34	Wash Weight (g): 68.59	Pan Retained (g): 13.49	Sieve Loss (%): 0.00	Fines (%): #200 - 55.82 #230 - 40.33	Organics (%):	Carbonates (%):	Shell Hash (%):
Sieve Number	Sieve Size (Phi)	Sieve Size (Millimeters)	Grams Retained	% Weight Retained	Cum. Grams Retained	C. % Weight Retained	
3/4"	-4.25	19.03	0.00	0.00	0.00	0.00	
5/8"	-4.00	16.00	0.00	0.00	0.00	0.00	
7/16"	-3.50	11.31	0.00	0.00	0.00	0.00	
5/16"	-3.00	8.00	0.00	0.00	0.00	0.00	
3.5	-2.50	5.66	0.00	0.00	0.00	0.00	
4	-2.25	4.76	0.00	0.00	0.00	0.00	
5	-2.00	4.00	0.00	0.00	0.00	0.00	
7	-1.50	2.83	0.00	0.00	0.00	0.00	
10	-1.00	2.00	0.01	0.01	0.01	0.01	
14	-0.50	1.41	0.01	0.01	0.02	0.02	
18	0.00	1.00	0.07	0.08	0.09	0.10	
25	0.50	0.71	0.01	0.01	0.10	0.11	
35	1.00	0.50	0.02	0.02	0.12	0.13	
45	1.50	0.35	0.03	0.03	0.15	0.16	
60	2.00	0.25	0.07	0.08	0.22	0.24	
80	2.50	0.18	0.99	1.07	1.21	1.31	
120	3.00	0.13	9.28	10.05	10.49	11.36	
170	3.50	0.09	18.09	19.59	28.58	30.95	
200	3.75	0.07	12.22	13.23	40.80	44.18	
230	4.00	0.06	14.30	15.49	55.10	59.67	
Phi 5	Phi 16	Phi 25	Phi 50	Phi 75	Phi 84	Phi 95	
			3.84	3.35	3.12	2.68	
Moment	Mean Phi	Mean mm	Sorting	Skewness	Kurtosis		
Statistics	3.38	0.10	0.45	-1.61	11.43		



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-40
0.0' - 2.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-40
2.0' - 4.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-40
4.0' - 6.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-40
6.0' - 8.0'





MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-40
8.0'-10.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-40
10.0'-12.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-40
12.0'-14.0'



MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-40
14.0'-16.0'





MCFADDIN NWR BEACH
RIDGE RESTORATION
PHASE II
JCVC-18-40
16.0'-17.5'

