

Client:	Anchor QEA, LLC.	Date:	September 1, 2023
Address:	720 Olive Way, Suite 1900	Project:	Q.C LDW AOC5 MR Phase 1 Task 7.2 - 210075.01.02
	Seattle, WA 98101	Project #:	23B198-01
Attn:	Cindy Fields	Sample #:	B23-0762 - 0780
Revised on:		Date sampled:	December 14, 2022 - January 5, 2023

As requested MTC, Inc. has performed the following test(s) on the sample referenced above. The testing was performed in accordance with current applicable AASHTO or ASTM standards as indicated below. The results obtained in our laboratory were as follows below or on the attached pages:

	Test(s) Performed:	Test Results	Test(s) Performed:	Test Results
X	Sieve Analysis	See Attached Reports	Sulfate Soundness	
	Proctor		Bulk Density & Voids	
	Sand Equivalent		WSDOT Degradation	
	Fracture Count		LA Abrasion	
	Moisture Content			
	Specific Gravity, Coarse			
	Specific Gravity, Fine			
Х	Hydrometer Analysis	See Attached Reports		
	Atterberg Limits			

If you have any questions concerning the test results, the procedures used, or if we can be of any further assistance please call on us at the number below.

Alex Eifrig

Respectfully Submitted, Alex Eifrig WABO Supervising Laboratory Technician



roject #: Client: Source:	Q.C LDW AOCS M 23B198-01 Anchor QEA, LLC. LDW23-SC1039C B23-0762	R Phase 1 Task 7.2 - 210075.0		Date Received: Sampled By: Date Tested: Tested By:	Others 18-Aug-23 R. Bohler	Silty S Sampl Brown	and with e Color:	assification Clay and Organics		ACCREDIT Certificate #: 1
			ASTM D22	216, ASTM D241	9, ASTM D43		5281			
						$D_{(5)} = 0.004$	mm	% Gravel = 0.0%		eff. of Curvature, $C_C = 1$
	Specifications					$D_{(10)} = 0.008$	mm	% Sand = 8.0%	Coef	ff. of Uniformity, C _U = 6 Fineness Modulus = 0
	No Specs	Samala Masta S	9 N/A			$D_{(15)} = 0.012$ $D_{(30)} = 0.024$	mm mm	% Silt & Clay = 92.0% Liquid Limit = n/a		Plastic Limit = n
		Sample Meets S	pecs : N/A			$D_{(30)} = 0.024$ $D_{(50)} = 0.041$	mm mm	Plasticity Index = n/a	Mo	isture %, as sampled = n
						$D_{(50)} = 0.041$ $D_{(60)} = 0.049$	mm	Sand Equivalent = n/a		eq'd Sand Equivalent =
						$D_{(60)} = 0.073$	mm	Fracture %, 1 Face = n/a		d Fracture %, 1 Face =
					Dust	Ratio = $25/27$		Fracture %, $2 + Faces = n/a$		Fracture %, 2+ Faces =
			ASTM	C136, ASTM D691				Thatale 70, 2 . Tables Inta	Integrat	ractare 70, 2 * 1 acts
		Actual	Interpolated		0,101.110111					
		Cum	lative Cumulative					Grain Size Distribution		
Sieve	Size	Percent	Percent	Specs	Specs		b	6	9,989,88	
US	Metric	Passing	Passing	Max	Min		100%	· · · · · · · · · · · · · · · · · · ·	**************************************	
2.00"	300.00		100%	100.0%	0.0%			N		
0.00"	250.00		100%	100.0%	0.0%					
3.00"	200.00		100%	100.0%	0.0%		90%			90.0%
5.00"	150.00		100%	100.0%	0.0%					
1.00"	100.00		100%	100.0%	0.0%		80%		-+	
3.00" 2.50"	75.00 63.00		100% 100%	100.0% 100.0%	0.0%					
2.00"	50.00	100%	100%	100.0%	0.0%					
	45.00	100%	100%	100.0%	0.0%		70%			70.0%
.50"	37.50		100%	100.0%	0.0%					
.25"	31.50		100%	100.0%	0.0%		60%			60.0%
.00"	25.00	100%	100%	100.0%	0.0%	8				
3/4"	19.00	100%	100%	100.0%	0.0%	5 Passing	50%			50.0%
5/8"	16.00		100%	100.0%	0.0%	96	30% FT			30.0,6
1/2"	12.50	100%	100%	100.0%	0.0%		E I			
3/8"	9.50	100%	100%	100.0%	0.0%		40%		-+	40.0%
1/4"	6.30		100%	100.0%	0.0%					
#4	4.75	100%	100%	100.0%	0.0%		30%			30.0%
#8 #10	2.36 2.00	100%	100% 100%	100.0% 100.0%	0.0%					
#10 #16	2.00	100%	100%	100.0%	0.0%					
#16 #20	0.850		100%	100.0%	0.0%		20%			20.0%
#20 #30	0.600		99%	100.0%	0.0%					
#40	0.425	99%	99%	100.0%	0.0%		10%			10.0%
#50	0.300		97%	100.0%	0.0%					
#60	0.250		96%	100.0%	0.0%					
#80	0.180		94%	100.0%	0.0%		0% 000	100.000 10.000 1.000	0.100	0.0%
<i>#</i> 100	0.150		94%	100.0%	0.0%					
#140	0.106		93%	100.0%	0.0%			Particle Size (mm)		
<i>#</i> 170	0.090		92%	100.0%	0.0%					
#200	0.075	92.0%	92.0%	100.0%	0.0%	I +	Sieve Sizes	Max Specs M	in Specs 🚽	Sieve Results

Comments:

Alex Eifrig



Project: O.C	LDW AOC5 MR Phase 1 Task	7 2 - 210075 01 02	Date Recei	ved: 11-Aug-23	Visual Soils Cl	assification	
Project #: 23B198		210070101102		By: Others		Clay and Organic	38
Client : Anchor				sted: 21-Aug-23	Sample Color	endy und organit	
Source: LDW2				By: R. Bohler	Brown		
Sample#: B23-07			Testeu	by. R. Doniel	DIOWII		
Samplen: 125 01	ASTM D7928, HYDI	ROMETER ANALY	SIS			ASTM I	D6913
Assumed Sp Gr :	2.65					Sieve An	
Sample Weight:	50.00	grams				Grain Size D	istribution
Hydroscopic Moist.:	2.97%	-			Sieve	Percent	Soils Particle
Adj. Sample Wgt :	48.56	grams		ACCREDITED	Size	Passing	Diameter
.,		0		Certificate #: 1366.01	3.0"	100%	75.000 mm
Hydrometer					2.0"	100%	50.000 mm
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm
1	30	61.8%	0.0461 mm		1.0"	100%	25.000 mm
2	28	57.7%	0.0330 mm		3/4"	100%	19.000 mm
5	27	55.6%	0.0211 mm		5/8"	100%	16.000 mm
15	20	41.2%	0.0127 mm		1/2"	100%	12.500 mm
30	16	33.0%	0.0092 mm		3/8"	100%	9.500 mm
60	13	26.8%	0.0066 mm		1/4"	100%	6.300 mm
240	8	16.5%	0.0034 mm		#4	100%	4.750 mm
1440	6	12.4%	0.0014 mm		#10	100%	2.000 mm
					#20	100%	0.850 mm
% Gravel:	0.0%	Lie	quid Limit: n/a		#40	99%	0.425 mm
% Sand:	8.0%	Pla	astic Limit: n/a		#100	94%	0.150 mm
% Silt:	70.5%	Plasti	icity Index: n/a		#200	92.0%	0.075 mm
% Clay:	21.5%				Silts	91.0%	0.074 mm
						74.0%	0.050 mm
						53.8%	0.020 mm
					Clays	21.5%	0.005 mm
						13.6%	0.002 mm
					Colloids	8.8%	0.001 mm
	USDA Soil Text	tural Classification					
		Particle Size			1		
% Sand:		2.0 - 0.05 mm					
% Silt:		0.05 - 0.002 mm					
% Clay:		< 0.002 mm					
•							
	USDA Soil Text	tural Classification					
		Silt Loam					
					11		

All results apply only to actual locations and materials tested. As a matual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization of statements, conclusions or extracts from or regarding our reports is reserved pending our

Comments:

Reviewed by:

Alex Eifrig



Project #: Client: Source:	Q.C LDW AOC3 M 23B198-01 Anchor QEA, LLC. LDW23-SC1047B B23-0763	R Phase 1 Task 7.2 - 210075.0	1.02	Date Received: Sampled By: Date Tested: Tested By:	Others 18-Aug-23	Silty Sa	and with e Color:	lassification Clay and Organics	ACCREDITE Certificate #: 130
			ASTM D22	216, ASTM D241	9, ASTM D43		5281		
	Specifications No Specs	Sample Meets S	nees ? N/A			$D_{(5)} = 0.004 D_{(10)} = 0.009 D_{(15)} = 0.013 D_{(30)} = 0.026$	mm mm mm mm	% Gravel = 0.1% % Sand = 14.3% % Silt & Clay = 85.5% Liquid Limit = n/a	Coeff. of Curvature, $C_C = 1.5$ Coeff. of Uniformity, $C_U = 6.0$ Fineness Modulus = 0.3 Plastic Limit = n/a
		Simperices				$D_{(50)} = 0.044 D_{(60)} = 0.053 D_{(90)} = 0.227$	mm mm mm	Plasticity Index = n/a Sand Equivalent = n/a Fracture %, 1 Face = n/a	Moisture %, as sampled = n/a Req'd Sand Equivalent = Req'd Fracture %, 1 Face =
			A OTTA	CIAC ACTM DOM		Ratio = 25/28		Fracture %, $2 + Faces = n/a$	Req'd Fracture %, 2+ Faces =
		Actual	Interpolated	C136, ASTM D691	3, ASIM CIT	, ASTM DI140			
			lative Cumulative			r		Grain Size Distribution	
Sieve	Size	Percent	Percent	Specs	Specs			× × × × × × × × × × × × × × × × × × ×	22.28
US	Metric	Passing	Passing	Max	Min		2 ‰ : 100% 4. ♦.♦.	4 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4	522 CM ***** 100.0%
2.00"	300.00		100%	100.0%	0.0%	1	- TT		
0.00"	250.00		100%	100.0%	0.0%				
8.00"	200.00		100%	100.0%	0.0%		90%		90.0%
5.00"	150.00		100%	100.0%	0.0%				
4.00"	100.00		100%	100.0%	0.0%		80%		80.0%
3.00"	75.00		100%	100.0%	0.0%				
2.50"	63.00	1000/	100%	100.0%	0.0%				
2.00" 1.75"	50.00 45.00	100%	100%	100.0%	0.0%		70%		70.0%
1.75"	37.50		100% 100%	100.0% 100.0%	0.0%				
1.25"	31.50		100%	100.0%	0.0%		60%		60.0%
1.25	25.00	100%	100%	100.0%	0.0%				
3/4"	19.00	100%	100%	100.0%	0.0%	5 Passing			
5/8"	16.00	10070	100%	100.0%	0.0%	9c G	50%		50.0%
1/2"	12.50	100%	100%	100.0%	0.0%				
3/8"	9.50	100%	100%	100.0%	0.0%		40%		40.0%
1/4"	6.30		100%	100.0%	0.0%				
#4	4.75	100%	100%	100.0%	0.0%				
#8	2.36		97%	100.0%	0.0%		30%		30.0%
#10	2.00	97%	97%	100.0%	0.0%				
#16	1.18		96%	100.0%	0.0%		20%		20.0%
#20	0.850		96%	100.0%	0.0%				
#30	0.600		96%	100.0%	0.0%				
#40	0.425	96%	96%	100.0%	0.0%		10%		10.0%
#50	0.300		92%	100.0%	0.0%				
#60 #80	0.250 0.180		91% 89%	100.0% 100.0%	0.0%		0%		0.0%
#80 #100	0.180		89%	100.0%	0.0%			100.000 10.000 1.000	0.100 0.010 0.001
#100 #140	0.130		86%	100.0%	0.0%			Particle Size (mm)	
#140 #170	0.090		86%	100.0%	0.0%				
#200	0.075	85.5%	85.5%	100.0%	0.0%	•	Sieve Sizes	- Max Specs - Min Sc	uecs Sieve Results
	Spears Engineering & Technical Servic					n			

Comments:

Alex Eifrig



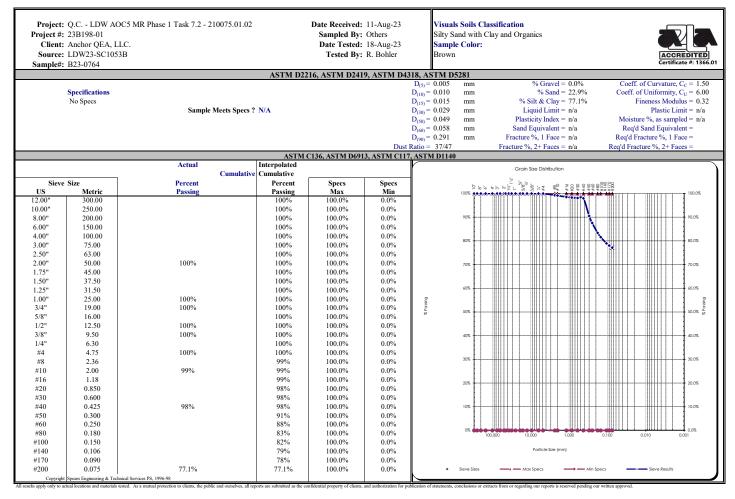
			D (D)		V7 10 1 01		
	DW AOC5 MR Phase 1 Task	/.2 - 2100/5.01.02		ved: 11-Aug-23	Visual Soils Cl		
Project #: 23B198				By: Others		Clay and Organic	cs
Client : Anchor				sted: 21-Aug-23	Sample Color		
Source: LDW23			Tested	By: R. Bohler	Brown		
Sample#: B23-07							
	ASTM D7928, HYDF	ROMETER ANALY	SIS			ASTM 1	
Assumed Sp Gr :	2.65					Sieve An	alysis
Sample Weight:	50.00	grams				Grain Size D	istribution
Hydroscopic Moist.:	4.65%				Sieve	Percent	Soils Particle
Adj. Sample Wgt :	47.78	grams		ACCREDITED	Size	Passing	Diameter
				Certificate #: 1366.01	3.0"	100%	75.000 mm
Hydrometer					2.0"	100%	50.000 mm
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm
1	29	58.7%	0.0463 mm		1.0"	100%	25.000 mm
2	28	56.7%	0.0330 mm		3/4"	100%	19.000 mm
5	25	50.6%	0.0213 mm		5/8"	100%	16.000 mm
15	21	42.5%	0.0127 mm		1/2"	100%	12.500 mm
30	15	30.4%	0.0093 mm		3/8"	100%	9.500 mm
60	13	26.3%	0.0066 mm		1/4"	100%	6.300 mm
240	7	14.2%	0.0034 mm		#4	100%	4.750 mm
1440	5	10.1%	0.0014 mm		#10	97%	2.000 mm
					#20	96%	0.850 mm
% Gravel:	0.1%		quid Limit: n/a		#40	96%	0.425 mm
% Sand:	14.3%		astic Limit: n/a		#100	88%	0.150 mm
% Silt:	65.4%	Plasti	icity Index: n/a		#200	85.5%	0.075 mm
% Clay:	20.1%				Silts	84.6%	0.074 mm
						69.6%	0.050 mm
						49.4%	0.020 mm
					Clays	20.1%	0.005 mm
						11.3%	0.002 mm
					Colloids	7.1%	0.001 mm
	USDA Soil Text	ural Classification					
	CODITION TEX				1		
ALC 1		Particle Size					
% Sand:		2.0 - 0.05 mm					
% Silt: % Clay:		0.05 - 0.002 mm < 0.002 mm					
70 Clay:		< 0.002 mm					
	USDA Soil Text	ural Classification					
		Silt Loam					

All realist steph only to actual locations and materials tested. As a matual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization of statements, conclusions or extracts from or regarding our reports is reserved pending our

Comments:

Alex Eifrig





Comments:

Alex Eifrig



		7.0. 010075 01 00	D / D ·	1 11 4 22	V. 10 1 C		
	DW AOC5 MR Phase 1 Task	7.2 - 2100/5.01.02		ved: 11-Aug-23	Visual Soils Cl		
Project #: 23B198				By: Others		Clay and Organic	cs
Client : Anchor				sted: 21-Aug-23	Sample Color		
Source: LDW23			Tested	By: R. Bohler	Brown		
Sample#: B23-07							
	ASTM D7928, HYDF	ROMETER ANALYS	SIS			ASTM I	
Assumed Sp Gr :	2.65					Sieve An	alysis
Sample Weight:	50.01	grams				Grain Size D	istribution
Hydroscopic Moist.:	2.98%				Sieve	Percent	Soils Particle
Adj. Sample Wgt :	48.56	grams		ACCREDITED	Size	Passing	Diameter
				Certificate #: 1366.01	3.0"	100%	75.000 mm
Hydrometer					2.0"	100%	50.000 mm
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm
1	22.5	45.9%	0.0486 mm		1.0"	100%	25.000 mm
2	20	40.8%	0.0348 mm		3/4"	100%	19.000 mm
5	18.5	37.8%	0.0223 mm		5/8"	100%	16.000 mm
15	14	28.6%	0.0132 mm		1/2"	100%	12.500 mm
30	12.5	25.5%	0.0094 mm		3/8"	100%	9.500 mm
60	10	20.4%	0.0068 mm		1/4"	100%	6.300 mm
240	6.5	13.3%	0.0034 mm		#4	100%	4.750 mm
1440	3	6.1%	0.0014 mm		#10	99%	2.000 mm
					#20	98%	0.850 mm
% Gravel:	0.0%		quid Limit: n/a		#40	98%	0.425 mm
% Sand:	22.9%		stic Limit: n/a		#100	82%	0.150 mm
% Silt:	60.5%	Plasti	city Index: n/a		#200	77.1%	0.075 mm
% Clay:	16.6%				Silts	75.9%	0.074 mm
						57.7%	0.050 mm
						35.5%	0.020 mm
					Clays	16.6%	0.005 mm
					~	8.1%	0.002 mm
					Colloids	4.3%	0.001 mm
	USDA Soil Text	ural Classification					
	0.0212.0041.044						
9/ Sanda		Particle Size					
% Sand: % Silt:		2.0 - 0.05 mm					
% Silt: % Clay:		0.05 - 0.002 mm < 0.002 mm					
70 Clay.		< 0.002 mm					
	USDA Soil Text	ural Classification					
		Silt Loam					

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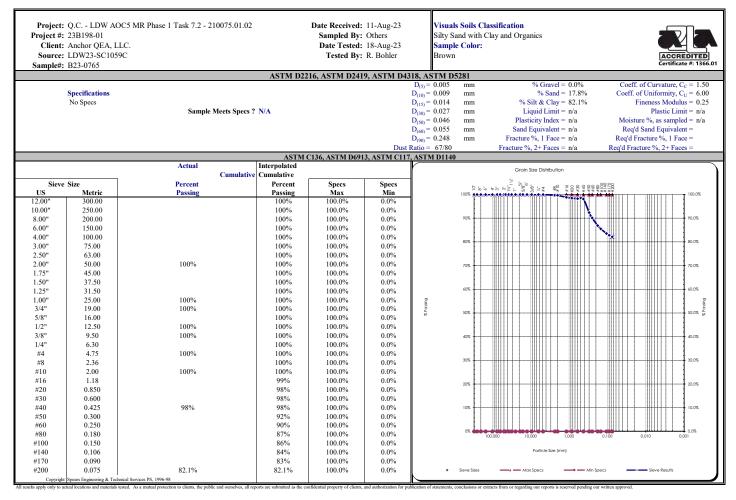
Comments:

Alex Eifrig

Reviewed by:

Alex Eifrig





Comments:

Alex Eifrig



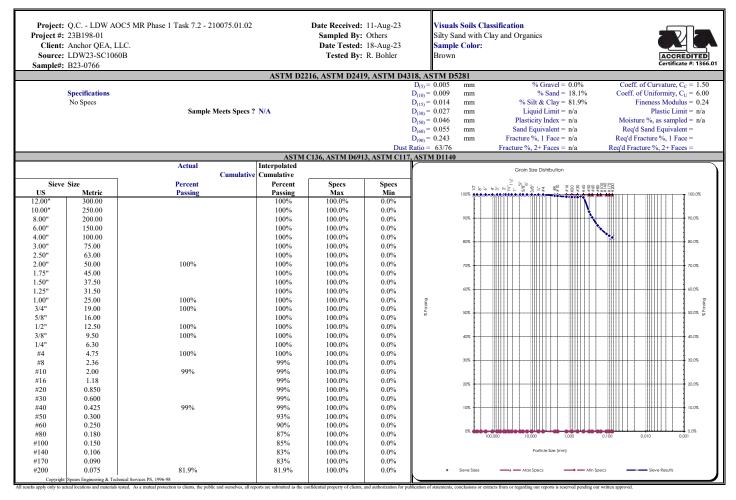
		2.2. 210025 01 02	D (D)	1 11 4 22	V7 10 1 01		
	DW AOC5 MR Phase 1 Task	7.2 - 210075.01.02		ved: 11-Aug-23	Visual Soils Cl		
Project #: 23B198				By: Others		Clay and Organic	cs
Client : Anchor				sted: 21-Aug-23	Sample Color		
Source: LDW23			Tested	By: R. Bohler	Brown		
Sample#: B23-07							
	ASTM D7928, HYDI	ROMETER ANALY	SIS			ASTM 1	
Assumed Sp Gr :	2.65					Sieve An	alysis
Sample Weight:	50.00	grams				Grain Size D	istribution
Hydroscopic Moist.:	3.87%				Sieve	Percent	Soils Particle
Adj. Sample Wgt :	48.14	grams		ACCREDITED	Size	Passing	Diameter
				Certificate #: 1366.01	3.0"	100%	75.000 mm
Hydrometer					2.0"	100%	50.000 mm
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm
1	28	58.0%	0.0467 mm		1.0"	100%	25.000 mm
2	26	53.8%	0.0334 mm		3/4"	100%	19.000 mm
5	22	45.5%	0.0218 mm		5/8"	100%	16.000 mm
15	16	33.1%	0.0130 mm		1/2"	100%	12.500 mm
30	13	26.9%	0.0094 mm		3/8"	100%	9.500 mm
60	10	20.7%	0.0068 mm		1/4"	100%	6.300 mm
240	6	12.4%	0.0034 mm		#4	100%	4.750 mm
1440	4	8.3%	0.0014 mm		#10	100%	2.000 mm
					#20	98%	0.850 mm
% Gravel:	0.0%		quid Limit: n/a		#40	98%	0.425 mm
% Sand:	17.8%		astic Limit: n/a		#100	86%	0.150 mm
% Silt:	65.8%	Plasti	icity Index: n/a		#200	82.1%	0.075 mm
% Clay:	16.3%				Silts	81.3%	0.074 mm
						67.6%	0.050 mm
						43.0%	0.020 mm
					Clays	16.3%	0.005 mm
						9.5%	0.002 mm
					Colloids	5.8%	0.001 mm
	USDA Soil Toy	tural Classification					
	USDA Soli Tex	tur ar Crassification			1		
		Particle Size					
% Sand:		2.0 - 0.05 mm					
% Silt:		0.05 - 0.002 mm					
% Clay:		< 0.002 mm					
	USDA Soil Toy	tural Classification					
	USDA Soli Tex	Silt Loam					
		Sin Loam					
					11		

All realist steph only to actual locations and materials tested. As a matual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization of statements, conclusions or extracts from or regarding our reports is reserved pending our

Comments:

Alex Eifrig





Comments:

Alex Eifrig



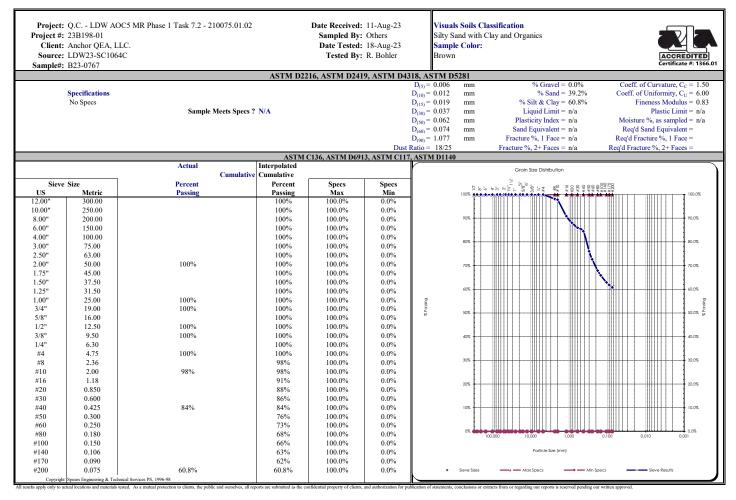
		7.2 210075 01 02	D (D)	1 11 4 22	V. 16 1 C		
	LDW AOC5 MR Phase 1 Task	/.2 - 2100/5.01.02		ved: 11-Aug-23	Visual Soils Cl		
Project #: 23B198				By: Others		Clay and Organic	s
Client : Anchor				ted: 21-Aug-23	Sample Color		
Source: LDW2			Tested	By: R. Bohler	Brown		
Sample#: B23-07							
	ASTM D7928, HYDI	ROMETER ANALY	SIS			ASTM I	
Assumed Sp Gr :	2.65					Sieve An	alysis
Sample Weight:	50.00	grams				Grain Size Di	stribution
Hydroscopic Moist.:	2.82%				Sieve	Percent	Soils Particle
Adj. Sample Wgt :	48.63	grams		ACCREDITED	Size	Passing	Diameter
				Certificate #: 1366.01	3.0"	100%	75.000 mm
Hydrometer					2.0"	100%	50.000 mm
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm
1	28.5	58.2%	0.0467 mm		1.0"	100%	25.000 mm
2	26	53.1%	0.0334 mm		3/4"	100%	19.000 mm
5	23	47.0%	0.0216 mm		5/8"	100%	16.000 mm
15	17	34.7%	0.0129 mm		1/2"	100%	12.500 mm
30 60	14 11	28.6% 22.5%	0.0093 mm 0.0067 mm		3/8" 1/4"	100% 100%	9.500 mm
240	7	14.3%	0.0067 mm 0.0034 mm		#4	100%	6.300 mm 4.750 mm
1440	3	6.1%	0.0034 mm 0.0014 mm		#4 #10	99%	2.000 mm
1440	3	0.170	0.0014 mm		#20	99%	0.850 mm
% Gravel:	0.0%	T i	quid Limit: n/a		#20 #40	99%	0.425 mm
% Sand:	18.1%		astic Limit: n/a		#100	85%	0.150 mm
% Silt:	63.7%		icity Index: n/a		#200	81.9%	0.075 mm
% Clay:	18.2%				Silts	81.0%	0.074 mm
						67.7%	0.050 mm
						44.8%	0.020 mm
					Clays	18.2%	0.005 mm
					-	8.5%	0.002 mm
					Colloids	4.3%	0.001 mm
	USDA Soil Text	tural Classification					
		Particle Size			1		
% Sand:		2.0 - 0.05 mm					
% Silt:		0.05 - 0.002 mm					
% Clay:		< 0.002 mm					
	USDA Soil Text	tural Classification					
1		Silt Loam					
					l		

All realist steph only to actual locations and materials tested. As a matual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization of statements, conclusions or extracts from or regarding our reports is reserved pending our

Comments:

Alex Eifrig





Comments:

Alex Eifrig



Project: O.C. I	DW AOC5 MR Phase 1 Task	7.2 210075.01.02	Data Pagai	ved: 11-Aug-23	Visual Soils Cl	assification	
Project #: 23B198		7.2 = 210075.01.02		By: Others		Clay and Organio	25
Client : Anchor				sted: 21-Aug-23	Sample Color	Ciay and Organi	cs
Source: LDW23					Brown		
			Tested	By: R. Bohler	Brown		
Sample#: B23-07			~*~				
	ASTM D7928, HYDR	ROMETER ANALY	SIS			ASTM 1	
Assumed Sp Gr :	2.65					Sieve An	
Sample Weight:	50.00	grams				Grain Size D	
Hydroscopic Moist.:	2.14%				Sieve	Percent	Soils Particle
Adj. Sample Wgt :	48.95	grams		ACCREDITED	Size	Passing	Diameter
				Certificate #: 1366.01	3.0"	100%	75.000 mm
Hydrometer					2.0"	100%	50.000 mm
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm
1	25	49.9%	0.0477 mm		1.0"	100%	25.000 mm
2	24	47.9%	0.0340 mm		3/4" 5/8"	100% 100%	19.000 mm
5	20	40.0%	0.0220 mm				16.000 mm
15	14	28.0%	0.0132 mm		1/2" 3/8"	100%	12.500 mm
30	11	22.0%	0.0095 mm			100%	9.500 mm
60 240	9	18.0%	0.0068 mm		1/4"	100%	6.300 mm
240	6	12.0%	0.0034 mm		#4	100%	4.750 mm
1440	3	6.0%	0.0014 mm		#10 #20	98% 88%	2.000 mm 0.850 mm
% Gravel:	0.0%	1:	quid Limit: n/a		#20 #40	88% 84%	0.425 mm
% Sand:	39.2%		astic Limit: n/a		#100	66%	0.423 mm 0.150 mm
% Silt:	46.0%		city Index: n/a		#200	60.8%	0.075 mm
% Clay:	14.8%	1 1450	city mucx. wa		Silts	60.4%	0.075 mm
/o Chay.	14.070				5113	54.2%	0.050 mm
						37.2%	0.020 mm
					Clays	14.8%	0.005 mm
						7.7%	0.002 mm
					Colloids	4.2%	0.001 mm
	USDA Soil Text	ural Classification					
	CODITION TEXT						
		Particle Size					
% Sand:		2.0 - 0.05 mm					
% Silt:		0.05 - 0.002 mm					
% Clay:		< 0.002 mm					
	USDA Soft T	ural Classification					
	USDA Soll Text	Loam					
		Loam					
					11		

All realist steph only to actual locations and materials tested. As a matual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization of statements, conclusions or extracts from or regarding our reports is reserved pending our

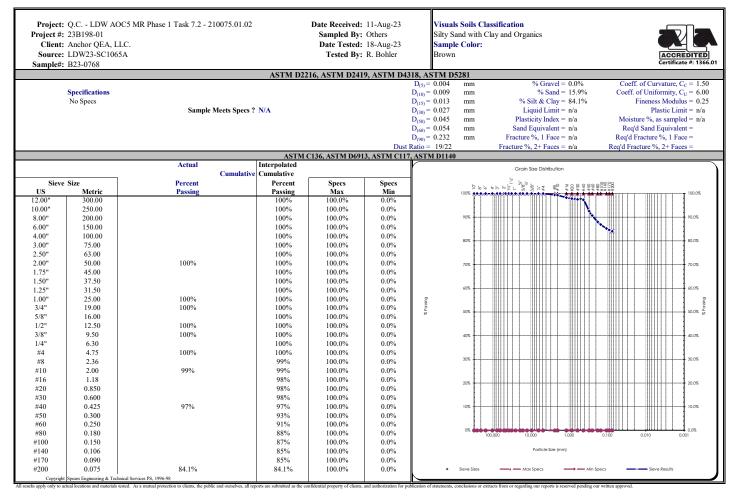
Comments:

Alex Eifrig

Alex Eifrig

Reviewed by:





Comments:

Alex Eifrig



	DW AOC5 MR Phase 1 Task	7.2 - 210075.01.02		ved: 11-Aug-23	Visual Soils Cl		
Project #: 23B198				By: Others	-	Clay and Organic	28
Client : Anchor				sted: 21-Aug-23	Sample Color		
Source: LDW23			Tested	By: R. Bohler	Brown		
Sample#: B23-07							
	ASTM D7928, HYDF	ROMETER ANALYS	SIS			ASTM I	D6913
Assumed Sp Gr :	2.65					Sieve An	alysis
Sample Weight:	50.22	grams				Grain Size Di	istribution
Hydroscopic Moist.:	2.92%				Sieve	Percent	Soils Particle
Adj. Sample Wgt :	48.80	grams		ACCREDITED	Size	Passing	Diameter
				Certificate #: 1366.01	3.0"	100%	75.000 mm
Hydrometer					2.0"	100%	50.000 mm
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm
1	31	63.1%	0.0457 mm		1.0"	100%	25.000 mm
2	29	59.0%	0.0327 mm		3/4"	100%	19.000 mm
5	26	52.9%	0.0211 mm		5/8"	100%	16.000 mm
15	20	40.7%	0.0127 mm		1/2"	100%	12.500 mm
30	17	34.6%	0.0092 mm		3/8"	100%	9.500 mm
60	12	24.4%	0.0067 mm		1/4"	100%	6.300 mm
240	8.5	17.3%	0.0034 mm		#4	100%	4.750 mm
1440	5	10.2%	0.0014 mm		#10	99%	2.000 mm
					#20	98%	0.850 mm
% Gravel:	0.0%		quid Limit: n/a		#40	97%	0.425 mm
% Sand:	15.9%		astic Limit: n/a		#100	87%	0.150 mm
% Silt:	63.3%	Plasti	icity Index: n/a		#200	84.1%	0.075 mm
% Clay:	20.8%				Silts	83.3%	0.074 mm
						71.7%	0.050 mm
						51.2%	0.020 mm
					Clays	20.8%	0.005 mm
						12.3%	0.002 mm
					Colloids	7.2%	0.001 mm
	USDA Soil Text	ural Classification					
		Particle Size			-		
% Sand:		2.0 - 0.05 mm					
% Silt:		0.05 - 0.002 mm					
% Clay:		< 0.002 mm					
	USDA Soil Text	ural Classification Silt Loam					
		Sin Loam					

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Comments:

Alex Eifrig



Project #: Client:	23B198-01 Anchor QEA, LLC LDW23-SC1070B	5 MR Phase 1 Task 7.2 - 210075.01.0	-	Date Received: Sampled By: Date Tested: Tested By:	Others 18-Aug-23 R. Bohler	Silty S Sampl Brown	and with e Color:	lassification Clay and Organics	ACCREDITED Certificate #: 136
			ASTM D22	216, ASTM D241	9, ASTM D43		5281		
	Specifications No Specs	Sample Meets Spec	25 ? N/A		Dust	$\begin{array}{l} D_{(5)}=0.004\\ D_{(10)}=0.008\\ D_{(15)}=0.012\\ D_{(30)}=0.023\\ D_{(50)}=0.039\\ D_{(60)}=0.047\\ D_{(90)}=0.070\\ Ratio=30/31 \end{array}$	mm mm mm mm mm mm	% Gravel = 0.0% % Sand = 4.0% % Silt & Clay = 96.0% Liquid Limit = n'a Plasticity Index = n'a Sand Equivalent = n'a Fracture %, 1 Face = n'a	Coeff. of Curvature, $C_C = 1.5$ Coeff. of Uniformity, $C_C = 6.0$ Fineness Modulus = 0.0 Plastic Limit = n/a Moisture %, as sampled = n/a Req'd Sand Equivalent = Req'd Fracture %, 1 Face = Req'd Fracture %, 2 + Faces =
			ASTM	C136, ASTM D691			1	· · · · · · · · · · · · · · · · · · ·	
		Actual Cumulat	Interpolated tive Cumulative					Grain Size Distribution	
Sieve US	Size Metric	Percent Passing	Percent Passing	Specs Max	Specs Min		5 % ÷	**************************************	809208 ******
12.00" 10.00" 10.00" 8.00" 6.00" 4.00" 2.50" 1.50" 1.75" 1.50" 1.25" 1.00" 3/4" 4.44 1.2" 3/8" 1/4" 4.44 4.4	300.00 250.00 200.00 150.00 150.00 100.00 75.00 63.00 37.50 31.50 25.00 19.00 16.00 12.50 9.50 6.30 4.75 2.36 2.00 1.18 0.850 0.600 0.425 0.300 0.250 0.150 0.106	100% 100% 100% 100% 100% 100%	100% 100% 100% 100% 100% 100% 100% 100%	100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%	0.0% 0.0%	A Poundo	90% 80% 40% 30% 20% 0%	1000 100 100 100 100 Francisco (maintaine)	0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05
#170 #200	0.090 0.075 Spears Engineering & Technica	96.0% Services PS 1996.08	96% 96.0%	100.0% 100.0%	0.0% 0.0%	·	Sieve Sizes		Specs Sieve Results

Comments:

Alex Eifrig



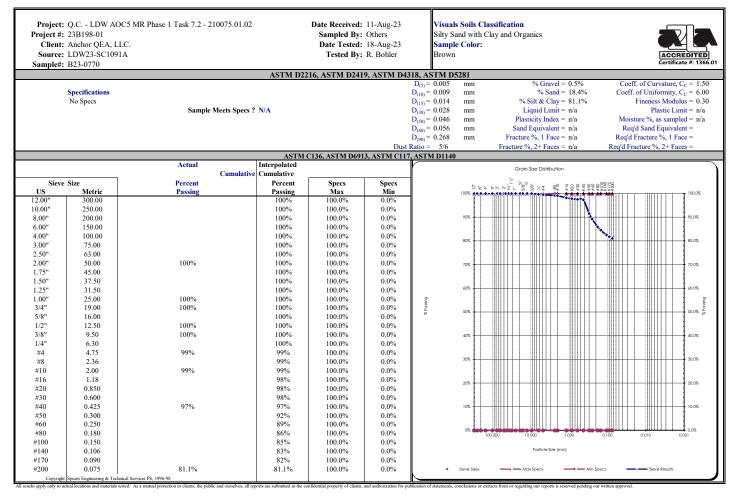
	LDW AOC5 MR Phase 1 Task	7.2 - 210075.01.02		ved: 11-Aug-23	Visual Soils Cl			
Project #: 23B198				By: Others	~	Clay and Organic	28	
Client : Anchor				sted: 21-Aug-23	Sample Color			
Source: LDW2			Tested	By: R. Bohler	Brown			
Sample#: B23-07	69							
	ASTM D7928, HYDR	OMETER ANALY	SIS		ASTM D6913			
Assumed Sp Gr :	2.65				Sieve Analysis			
Sample Weight:	50.05	grams				Grain Size Di	istribution	
Hydroscopic Moist.:	3.67%				Sieve	Percent	Soils Particle	
Adj. Sample Wgt :	48.28	grams		ACCREDITED	Size	Passing	Diameter	
				Certificate #: 1366.01	3.0"	100%	75.000 mm	
Hydrometer					2.0"	100%	50.000 mm	
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm	
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm	
1	40	82.9%	0.0425 mm		1.0"	100%	25.000 mm	
2	36	74.6%	0.0311 mm		3/4"	100%	19.000 mm	
5	30	62.1%	0.0206 mm		5/8"	100%	16.000 mm	
15	22	45.6%	0.0126 mm		1/2"	100%	12.500 mm	
30	19	39.4%	0.0091 mm		3/8"	100%	9.500 mm	
60	15	31.1%	0.0065 mm		1/4"	100%	6.300 mm	
240	9	18.6%	0.0034 mm		#4	100%	4.750 mm	
1440	6	12.4%	0.0014 mm		#10	100%	2.000 mm	
% Gravel:	0.0%	т.			#20 #40	99% 99%	0.850 mm 0.425 mm	
% Gravel: % Sand:	4.0%		quid Limit: n/a astic Limit: n/a		#100	99% 97%	0.423 mm 0.150 mm	
% Salu:	71.0%		icity Index: n/a		#200	96.0%	0.150 mm	
% Clay:	25.0%	riasu	icity muex: n/a		#200 Silts	95.6%	0.073 mm	
70 Clay.	25.070				5115	88.5%	0.050 mm	
						60.9%	0.020 mm	
					Clavs	25.0%	0.005 mm	
					Chuyo	14.3%	0.002 mm	
					Colloids	8.8%	0.001 mm	
	USDA Soil Text	ural Classification						
		Particle Size						
% Sand:		2.0 - 0.05 mm						
% Silt:		0.05 - 0.002 mm						
% Clay:		< 0.002 mm						
	USDA Soil Text	ural Classification						
1		Silt Loam						

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Comments:

Alex Eifrig





Comments:

Alex Eifrig



		2.2. 210025.01.02		1 11 1 00		• 0• . •			
	LDW AOC5 MR Phase 1 Task	7.2 - 210075.01.02		ved: 11-Aug-23	Visual Soils Cl				
Project #: 23B198				By: Others		Clay and Organic	s		
Client : Anchor						Sample Color			
Source: LDW2			Tested	By: R. Bohler	Brown				
Sample#: B23-07									
	ASTM D7928, HYDI	ROMETER ANALY	SIS			ASTM D6913			
Assumed Sp Gr :	2.65				Sieve Analysis				
Sample Weight:	50.04	grams				Grain Size Di	stribution		
Hydroscopic Moist.:	2.92%				Sieve	Percent	Soils Particle		
Adj. Sample Wgt :	48.62	grams		ACCREDITED	Size	Passing	Diameter		
				Certificate #: 1366.01	3.0"	100%	75.000 mm		
Hydrometer					2.0"	100%	50.000 mm		
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm		
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm		
1	34	69.3%	0.0447 mm		1.0"	100%	25.000 mm		
2	29	59.1%	0.0327 mm		3/4"	100%	19.000 mm		
5	25	51.0%	0.0213 mm		5/8"	100%	16.000 mm		
15	17	34.6%	0.0129 mm		1/2"	100%	12.500 mm		
30	14	28.5%	0.0093 mm		3/8"	100%	9.500 mm		
60	11	22.4%	0.0067 mm		1/4"	100%	6.300 mm		
240	6	12.2%	0.0034 mm		#4	99%	4.750 mm		
1440	4	8.2%	0.0014 mm		#10	99%	2.000 mm		
					#20	98%	0.850 mm		
% Gravel:	0.5%		quid Limit: n/a		#40	97%	0.425 mm		
% Sand:	18.4%		astic Limit: n/a		#100	85%	0.150 mm		
% Silt:	64.0%	Plast	icity Index: n/a		#200	81.1%	0.075 mm		
% Clay:	17.1%				Silts	80.7%	0.074 mm		
						74.1%	0.050 mm		
						48.4%	0.020 mm		
					Clays	17.1%	0.005 mm		
						9.3%	0.002 mm		
					Colloids	5.7%	0.001 mm		
	USDA Soil Tex	tural Classification							
		Particle Size			1				
% Sand:		2.0 - 0.05 mm							
% Sand: % Silt:		0.05 - 0.002 mm							
% Sht: % Clay:		< 0.002 mm							
/v ciuji		· • • • • • • • • • • • • • • • • • • •							
	USDA Soil Text	tural Classification							
		Silt Loam							
					I				

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Comments:

Alex Eifrig



Client:	Anchor QEA, LLC.	Date:	September 1, 2023
Address:	720 Olive Way, Suite 1900	Project:	Q.C LDW AOC5 MR Phase 1 Task 7.2 - 210075.01.02
	Seattle, WA 98101	Project #:	23B198-01
Attn:	Cindy Fields	Sample #:	B23-0762 - 0780
Revised on:		Date sampled:	December 14, 2022 - January 5, 2023

As requested MTC, Inc. has performed the following test(s) on the sample referenced above. The testing was performed in accordance with current applicable AASHTO or ASTM standards as indicated below. The results obtained in our laboratory were as follows below or on the attached pages:

	Test(s) Performed:	Test Results	Test(s) Performed:	Test Results
X	Sieve Analysis	See Attached Reports	Sulfate Soundness	
	Proctor		Bulk Density & Voids	
	Sand Equivalent		WSDOT Degradation	
	Fracture Count		LA Abrasion	
	Moisture Content			
	Specific Gravity, Coarse			
	Specific Gravity, Fine			
Х	Hydrometer Analysis	See Attached Reports		
	Atterberg Limits			

If you have any questions concerning the test results, the procedures used, or if we can be of any further assistance please call on us at the number below.

Alex Eifrig

Respectfully Submitted, Alex Eifrig WABO Supervising Laboratory Technician



roject #: Client: Source:	Q.C LDW AOCS M 23B198-01 Anchor QEA, LLC. LDW23-SC1039C B23-0762	R Phase 1 Task 7.2 - 210075.0		Date Received: Sampled By: Date Tested: Tested By:	Others 18-Aug-23 R. Bohler	Silty S Sampl Brown	and with e Color:	assification Clay and Organics		ACCREDIT Certificate #: 1
			ASTM D22	216, ASTM D241	9, ASTM D43		5281			
						$D_{(5)} = 0.004$	mm	% Gravel = 0.0%		eff. of Curvature, $C_C = 1$
	Specifications					$D_{(10)} = 0.008$	mm	% Sand = 8.0%	Coef	ff. of Uniformity, C _U = 6 Fineness Modulus = 0
	No Specs	Samala Masta S	9 N/A			$D_{(15)} = 0.012$ $D_{(30)} = 0.024$	mm mm	% Silt & Clay = 92.0% Liquid Limit = n/a		Plastic Limit = n
		Sample Meets S	pecs : N/A			$D_{(30)} = 0.024$ $D_{(50)} = 0.041$	mm mm	Plasticity Index = n/a	Mo	isture %, as sampled = n
						$D_{(50)} = 0.041$ $D_{(60)} = 0.049$	mm	Sand Equivalent = n/a		eq'd Sand Equivalent =
						$D_{(60)} = 0.073$	mm	Fracture %, 1 Face = n/a		d Fracture %, 1 Face =
					Dust	Ratio = $25/27$		Fracture %, $2 + Faces = n/a$		Fracture %, 2+ Faces =
			ASTM	C136, ASTM D691				Thatale 70, 2 . Tables Inta	Integrat	ractare 70, 2 * 1 acts
		Actual	Interpolated	0100,101010000	0,101.110111					
		Cum	lative Cumulative					Grain Size Distribution		
Sieve	Size	Percent	Percent	Specs	Specs		b	6	9,989,88	
US	Metric	Passing	Passing	Max	Min		100%	· · · · · · · · · · · · · · · · · · ·	**************************************	
2.00"	300.00		100%	100.0%	0.0%			N		
0.00"	250.00		100%	100.0%	0.0%					
3.00"	200.00		100%	100.0%	0.0%		90%			90.0%
5.00"	150.00		100%	100.0%	0.0%					
1.00"	100.00		100%	100.0%	0.0%		80%		-+	
3.00" 2.50"	75.00 63.00		100% 100%	100.0% 100.0%	0.0%					
2.00"	50.00	100%	100%	100.0%	0.0%					
	45.00	100%	100%	100.0%	0.0%		70%			70.0%
.50"	37.50		100%	100.0%	0.0%					
.25"	31.50		100%	100.0%	0.0%		60%			60.0%
.00"	25.00	100%	100%	100.0%	0.0%	8				
3/4"	19.00	100%	100%	100.0%	0.0%	5 Passing	50%			50.0%
5/8"	16.00		100%	100.0%	0.0%	96	30% FT			30.0,6
1/2"	12.50	100%	100%	100.0%	0.0%		E I			
3/8"	9.50	100%	100%	100.0%	0.0%		40%		-+	40.0%
1/4"	6.30		100%	100.0%	0.0%					
#4	4.75	100%	100%	100.0%	0.0%		30%			30.0%
#8 #10	2.36 2.00	100%	100% 100%	100.0% 100.0%	0.0%					
#10 #16	2.00	100%	100%	100.0%	0.0%					
#16 #20	0.850		100%	100.0%	0.0%		20%			20.0%
#20 #30	0.600		99%	100.0%	0.0%					
#40	0.425	99%	99%	100.0%	0.0%		10%			10.0%
#50	0.300		97%	100.0%	0.0%					
#60	0.250		96%	100.0%	0.0%					
#80	0.180		94%	100.0%	0.0%		0% 000	100.000 10.000 1.000	0.100	0.0%
<i>#</i> 100	0.150		94%	100.0%	0.0%					
#140	0.106		93%	100.0%	0.0%			Particle Size (mm)		
<i>#</i> 170	0.090		92%	100.0%	0.0%					
#200	0.075	92.0%	92.0%	100.0%	0.0%	I +	Sieve Sizes	Max Specs M	in Specs 🚽	Sieve Results

Comments:

Alex Eifrig



Project: O.C	LDW AOC5 MR Phase 1 Task	7 2 - 210075 01 02	Date Recei	ved: 11-Aug-23	Visual Soils Cl	assification		
Project #: 23B198		210070101102		By: Others		Clay and Organic	38	
Client : Anchor				sted: 21-Aug-23	Sample Color	endy und organit		
Source: LDW2				By: R. Bohler	Brown			
Sample#: B23-07			Testeu	by. R. Doniel	DIOWII			
Samplen: 125 01	ASTM D7928, HYDI	ROMETER ANALY	SIS		ASTM D6913			
Assumed Sp Gr :	2.65					Sieve Analysis		
Sample Weight:	50.00	grams				Grain Size D	istribution	
Hydroscopic Moist.:	2.97%	-			Sieve	Percent	Soils Particle	
Adj. Sample Wgt :	48.56	grams		ACCREDITED	Size	Passing	Diameter	
.,		0		Certificate #: 1366.01	3.0"	100%	75.000 mm	
Hydrometer					2.0"	100%	50.000 mm	
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm	
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm	
1	30	61.8%	0.0461 mm		1.0"	100%	25.000 mm	
2	28	57.7%	0.0330 mm		3/4"	100%	19.000 mm	
5	27	55.6%	0.0211 mm		5/8"	100%	16.000 mm	
15	20	41.2%	0.0127 mm		1/2"	100%	12.500 mm	
30	16	33.0%	0.0092 mm		3/8"	100%	9.500 mm	
60	13	26.8%	0.0066 mm		1/4"	100%	6.300 mm	
240	8	16.5%	0.0034 mm		#4	100%	4.750 mm	
1440	6	12.4%	0.0014 mm		#10	100%	2.000 mm	
					#20	100%	0.850 mm	
% Gravel:	0.0%	Lie	quid Limit: n/a		#40	99%	0.425 mm	
% Sand:	8.0%	Pla	astic Limit: n/a		#100	94%	0.150 mm	
% Silt:	70.5%	Plasti	icity Index: n/a		#200	92.0%	0.075 mm	
% Clay:	21.5%				Silts	91.0%	0.074 mm	
						74.0%	0.050 mm	
						53.8%	0.020 mm	
					Clays	21.5%	0.005 mm	
						13.6%	0.002 mm	
					Colloids	8.8%	0.001 mm	
	USDA Soil Text	tural Classification						
		Particle Size			1			
% Sand:		2.0 - 0.05 mm						
% Silt:		0.05 - 0.002 mm						
% Clay:		< 0.002 mm						
•								
	USDA Soil Text	tural Classification						
		Silt Loam						
					11			

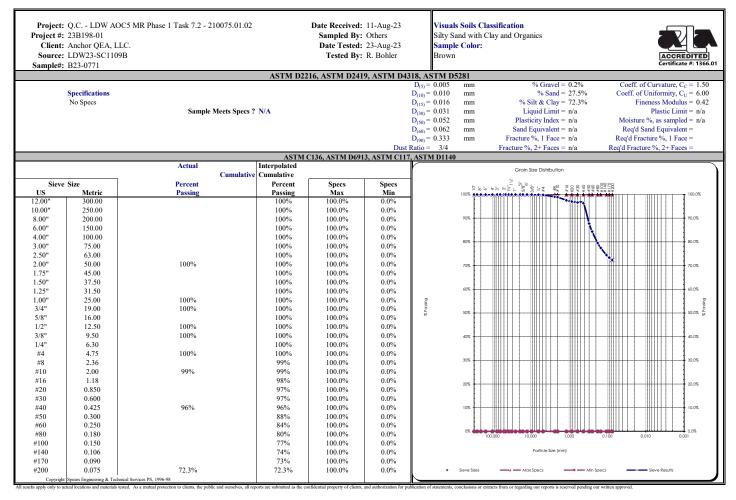
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Reviewed by:

Alex Eifrig





Comments:

Alex Eifrig



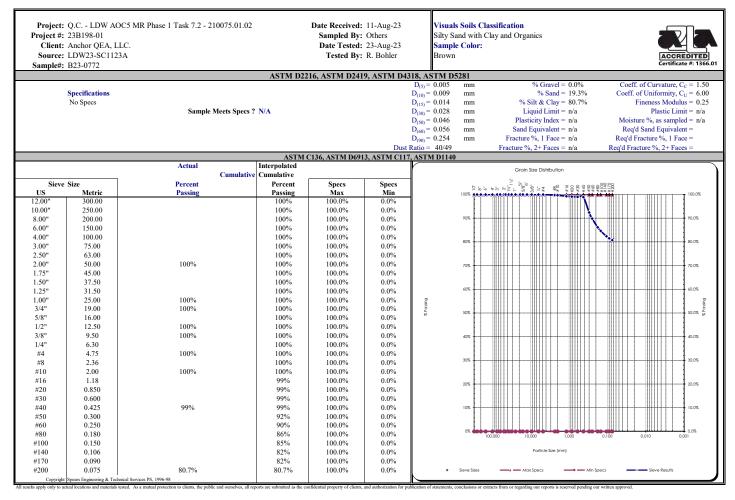
	DW LOCE MD DI TT	7.0 010075.01.02	D / P	1 11 4 22	V. 10.1 C	· · · ·			
	DW AOC5 MR Phase 1 Task	/.2 - 2100/5.01.02		ved: 11-Aug-23	Visual Soils Cl				
Project #: 23B198				By: Others		Clay and Organic	cs		
Client : Anchor				sted: 24-Aug-23	Sample Color				
Source: LDW23			Tested	By: R. Bohler	Brown				
Sample#: B23-07									
	ASTM D7928, HYDF	ROMETER ANALY	SIS			ASTM D6913			
Assumed Sp Gr :	2.65					Sieve An	alysis		
Sample Weight:	50.25	grams				Grain Size D	istribution		
Hydroscopic Moist.:	2.76%				Sieve	Percent	Soils Particle		
Adj. Sample Wgt :	48.90	grams		ACCREDITED	Size	Passing	Diameter		
				Certificate #: 1366.01	3.0"	100%	75.000 mm		
Hydrometer					2.0"	100%	50.000 mm		
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm		
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm		
1	27	54.6%	0.0471 mm		1.0"	100%	25.000 mm		
2	24	48.5%	0.0340 mm		3/4"	100%	19.000 mm		
5	22	44.5%	0.0218 mm		5/8"	100%	16.000 mm		
15	17	34.4%	0.0129 mm		1/2"	100%	12.500 mm		
30	15	30.3%	0.0093 mm		3/8"	100%	9.500 mm		
60	11	22.2%	0.0067 mm		1/4"	100%	6.300 mm		
240	7	14.2%	0.0034 mm		#4	100%	4.750 mm		
1440	4	8.1%	0.0014 mm		#10	99%	2.000 mm		
					#20	97%	0.850 mm		
% Gravel:	0.2%		quid Limit: n/a		#40	96%	0.425 mm		
% Sand:	27.5%		astic Limit: n/a		#100	77%	0.150 mm		
% Silt:	54.3%	Plast	icity Index: n/a		#200	72.3%	0.075 mm		
% Clay:	18.0%				Silts	71.7%	0.074 mm		
						61.5%	0.050 mm		
						42.5%	0.020 mm		
					Clays	18.0%	0.005 mm		
						9.8%	0.002 mm		
					Colloids	5.7%	0.001 mm		
	USDA Soil Toxt	ural Classification							
	USDA SOII TEX				-				
		Particle Size							
% Sand:		2.0 - 0.05 mm							
% Silt:		0.05 - 0.002 mm							
% Clay:		< 0.002 mm							
	USDA Soil Toy	ural Classification							
	USDA Soli Text	Silt Loam							
		Sin Loam							
					11				

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Alex Eifrig





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Alex Eifrig



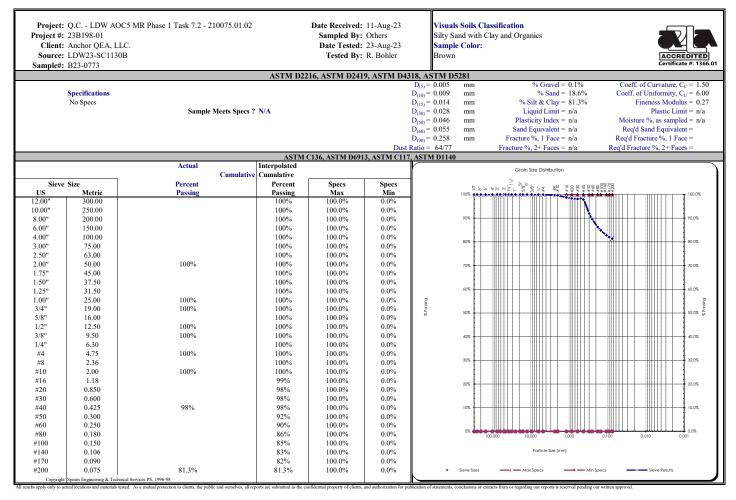
Project: O.C I	DW AOC5 MR Phase 1 Task	7.2 - 210075.01.02	Date Recei	ved: 11-Aug-23	Visual Soils Cl	assification		
Project #: 23B198		7.2 - 210075.01.02		By: Others		Clay and Organio	26	
Client : Anchor				sted: 24-Aug-23	Sample Color	Ciay and Organi		
Source: LDW23				By: R. Bohler	Brown			
Sample#: B23-07			Testeu	by. R. Bonner	DIOWII			
Sample#. B25-07	ASTM D7928, HYDR	OMETED ANALV	212		4 STM D6012			
Assumed for Case	Assumed Sp Gr : 2.65				ASTM D6913 Sieve Analysis			
Sample Weight:	50.00 4.87%	grams			C '	Grain Size D		
Hydroscopic Moist.:				ACCREDITED	Sieve	Percent	Soils Particle	
Adj. Sample Wgt :	47.68	grams		Certificate #: 1366.01	Size 3.0"	Passing 100%	Diameter	
Hydrometer					2.0"	100%	75.000 mm 50.000 mm	
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm	
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm	
Ivinutes	28	58.5%	0.0467 mm		1.25	100%	25.000 mm	
2	20	52.3%	0.0337 mm		3/4"	100%	19.000 mm	
5	21	43.9%	0.0219 mm		5/8"	100%	16.000 mm	
15	15	31.4%	0.0131 mm		1/2"	100%	12.500 mm	
30	12	25.1%	0.0094 mm		3/8"	100%	9.500 mm	
60	9.5	19.9%	0.0068 mm		1/4"	100%	6.300 mm	
240	5	10.5%	0.0035 mm		#4	100%	4.750 mm	
1440	4	8.4%	0.0014 mm		#10	100%	2.000 mm	
					#20	99%	0.850 mm	
% Gravel:	0.0%	Lie	juid Limit: n/a		#40	99%	0.425 mm	
% Sand:	19.3%	Pla	stic Limit: n/a		#100	85%	0.150 mm	
% Silt:	65.9%	Plasti	city Index: n/a		#200	80.7%	0.075 mm	
% Clay:	14.8%				Silts	79.9%	0.074 mm	
						67.3%	0.050 mm	
						41.2%	0.020 mm	
					Clays	14.8%	0.005 mm	
						9.0%	0.002 mm	
					Colloids	5.9%	0.001 mm	
	USDA Soil Tout	ural Classification						
	USDA Soll Text	ur ar Classification						
		Particle Size						
% Sand:		2.0 - 0.05 mm						
% Silt:		0.05 - 0.002 mm						
% Clay:		< 0.002 mm						
	USDA Soil Tout	ural Classification						
	USDA Soil Text							
		Silt Loam						
					11			

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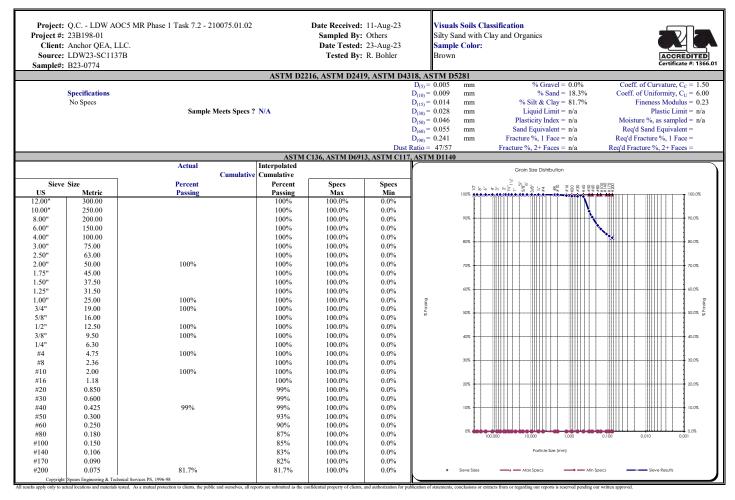
Busicett C.C. I	DW AOC5 MR Phase 1 Task	7.2 210075 01 02	Data P		Visual Soils Cl				
		7.2 - 2100/5.01.02		ved: 11-Aug-23					
Project #: 23B198				By: Others		Clay and Organic	cs		
Client : Anchor				sted: 24-Aug-23	Sample Color				
Source: LDW23			Tested	By: R. Bohler	Brown				
Sample#: B23-07									
	ASTM D7928, HYDI	ROMETER ANALY	SIS			ASTM D6913			
Assumed Sp Gr :	2.65					Sieve An	alysis		
Sample Weight:	50.06	grams				Grain Size D	istribution		
Hydroscopic Moist.:	2.85%				Sieve	Percent	Soils Particle		
Adj. Sample Wgt :	48.67	grams		ACCREDITED	Size	Passing	Diameter		
				Certificate #: 1366.01	3.0"	100%	75.000 mm		
Hydrometer					2.0"	100%	50.000 mm		
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm		
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm		
1	29	59.4%	0.0463 mm		1.0"	100%	25.000 mm		
2	27	55.3%	0.0333 mm		3/4"	100%	19.000 mm		
5	24	49.1%	0.0215 mm		5/8"	100%	16.000 mm		
15	16	32.8%	0.0130 mm		1/2"	100%	12.500 mm		
30	14	28.7%	0.0093 mm		3/8"	100%	9.500 mm		
60	10	20.5%	0.0068 mm		1/4"	100%	6.300 mm		
240	7	14.3%	0.0034 mm		#4	100%	4.750 mm		
1440	5	10.2%	0.0014 mm		#10	100%	2.000 mm		
					#20	98%	0.850 mm		
% Gravel:	0.1%		quid Limit: n/a		#40	98%	0.425 mm		
% Sand:	18.6%		astic Limit: n/a		#100	85%	0.150 mm		
% Silt:	64.1%	Plasti	icity Index: n/a		#200	81.3%	0.075 mm		
% Clay:	17.2%				Silts	80.6%	0.074 mm		
						68.2%	0.050 mm		
						46.2%	0.020 mm		
					Clays	17.2%	0.005 mm		
						11.4%	0.002 mm		
					Colloids	7.2%	0.001 mm		
	USDA Soil Text	tural Classification							
	USDA SOIL LEX								
		Particle Size							
% Sand:		2.0 - 0.05 mm							
% Silt:		0.05 - 0.002 mm							
% Clay:		< 0.002 mm							
	USDA Soil Toy	tural Classification							
	USDA Soli Text	Silt Loam							
		Siit Loam							

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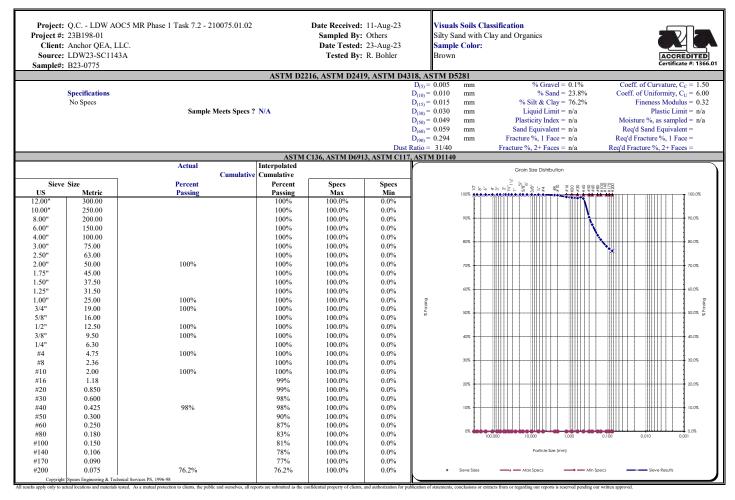
		7.0 010075 01 00	D (D)	1 11 1 00			
	DW AOC5 MR Phase 1 Task	7.2 - 210075.01.02		ved: 11-Aug-23	Visual Soils Cl		
Project #: 23B198				By: Others		Clay and Organic	cs
Client : Anchor				sted: 24-Aug-23	Sample Color		
Source: LDW23			Tested	By: R. Bohler	Brown		
Sample#: B23-07							
	ASTM D7928, HYDI	ROMETER ANALYS	SIS			ASTM I	
Assumed Sp Gr :	2.65					Sieve An	alysis
Sample Weight:	50.03	grams				Grain Size D	istribution
Hydroscopic Moist.:	1.10%				Sieve	Percent	Soils Particle
Adj. Sample Wgt :	49.49	grams		ACCREDITED	Size	Passing	Diameter
				Certificate #: 1366.01	3.0"	100%	75.000 mm
Hydrometer					2.0"	100%	50.000 mm
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm
1	26	52.5%	0.0473 mm		1.0"	100%	25.000 mm
2	24	48.5%	0.0340 mm		3/4"	100%	19.000 mm
5	20.5	41.4%	0.0220 mm		5/8"	100%	16.000 mm
15	15	30.3%	0.0131 mm		1/2"	100%	12.500 mm
30	13	26.3%	0.0094 mm		3/8"	100%	9.500 mm
60	9.5	19.2%	0.0068 mm		1/4"	100%	6.300 mm
240	6	12.1%	0.0034 mm		#4	100%	4.750 mm
1440	2	4.0%	0.0014 mm		#10	100%	2.000 mm
					#20	99%	0.850 mm
% Gravel:	0.0%		quid Limit: n/a		#40	99%	0.425 mm
% Sand:	18.3%		astic Limit: n/a		#100	85%	0.150 mm
% Silt:	66.3%	Plasti	city Index: n/a		#200	81.7%	0.075 mm
% Clay:	15.4%				Silts	80.7%	0.074 mm
						63.9%	0.050 mm
					~	38.9%	0.020 mm
					Clays	15.4%	0.005 mm
					C H · 1	6.3%	0.002 mm
					Colloids	2.8%	0.001 mm
	USDA Soil Text	tural Classification					
% Sand:		Particle Size 2.0 - 0.05 mm					
% Sand: % Silt:		0.05 - 0.002 mm					
% Slit: % Clay:		< 0.002 mm					
/o Ciay.		< 0.002 mill					
	USDA Soil Text	tural Classification					
1		Silt Loam					

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Alex Eifrig





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Alex Eifrig



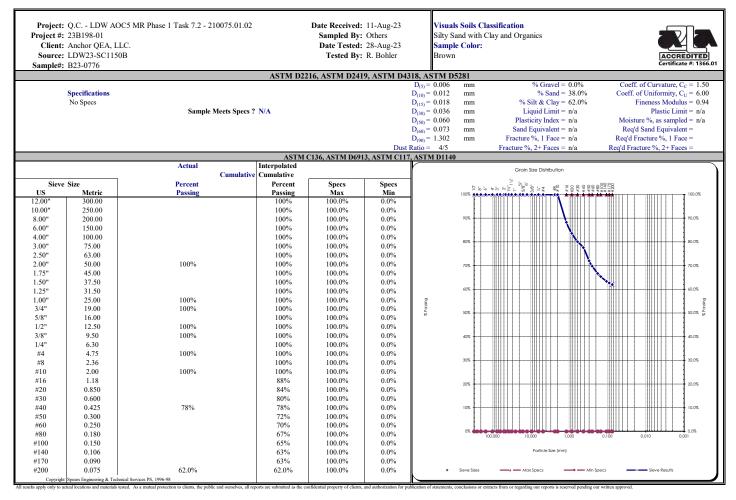
		7.0. 010075 01 00		1 11 1 00		• 0• .•			
	LDW AOC5 MR Phase 1 Task	7.2 - 210075.01.02		ved: 11-Aug-23	Visual Soils Cl				
Project #: 23B198				By: Others		Clay and Organic	s		
Client : Anchor						Sample Color			
Source: LDW2			Tested	By: R. Bohler	Brown				
Sample#: B23-07	75								
	ASTM D7928, HYDI	ROMETER ANALY	SIS			ASTM D6913			
Assumed Sp Gr :	2.65				Sieve Analysis				
Sample Weight:	50.00	grams				Grain Size Di	stribution		
Hydroscopic Moist.:	2.76%				Sieve	Percent	Soils Particle		
Adj. Sample Wgt :	48.66	grams		ACCREDITED	Size	Passing	Diameter		
				Certificate #: 1366.01	3.0"	100%	75.000 mm		
Hydrometer					2.0"	100%	50.000 mm		
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm		
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm		
1	27	55.3%	0.0471 mm		1.0"	100%	25.000 mm		
2	25	51.2%	0.0337 mm		3/4"	100%	19.000 mm		
5	19	38.9%	0.0222 mm		5/8"	100%	16.000 mm		
15	15	30.7%	0.0131 mm		1/2"	100%	12.500 mm		
30	10	20.5%	0.0096 mm		3/8"	100%	9.500 mm		
60	8	16.4%	0.0068 mm		1/4"	100%	6.300 mm		
240	4	8.2%	0.0035 mm		#4	100%	4.750 mm		
1440	3	6.1%	0.0014 mm		#10	100%	2.000 mm		
					#20	99%	0.850 mm		
% Gravel:	0.1%		quid Limit: n/a		#40	98%	0.425 mm		
% Sand:	23.8%		astic Limit: n/a		#100	81%	0.150 mm		
% Silt:	64.3%	Plasti	icity Index: n/a		#200	76.2%	0.075 mm		
% Clay:	11.9%				Silts	75.4%	0.074 mm		
						63.6%	0.050 mm		
						37.0%	0.020 mm		
					Clays	11.9%	0.005 mm		
						6.7%	0.002 mm		
					Colloids	4.3%	0.001 mm		
	USDA Soil Text	tural Classification							
		Particle Size							
% Sand:		2.0 - 0.05 mm							
% Silt:		0.05 - 0.002 mm							
% Clay:		< 0.002 mm							
	USDA Soil Text	tural Classification Silt Loam							
1		Sin Loam							

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Project: O.C. I	DW AOC5 MR Phase 1 Task	7.2 210075.01.02	Data Pagai	ved: 11-Aug-23	Visual Soils Cl	assification		
Project #: 23B198		7.2 - 210075.01.02		By: Others		Clay and Organio	26	
Client : Anchor				ted: 29-Aug-23	Sample Color	Ciay and Organi	63	
Source: LDW23				By: R. Bohler	Brown			
Sample#: B23-07			Testeu	by: K. Boiller	BIOWII			
Sample#: B23-07		OMETED ANALV	are.		4 CTM D (012			
	ASTM D7928, HYDROME				ASTM D6913 Sieve Analysis			
Assumed Sp Gr :	2.65							
Sample Weight:	50.02	grams			~	Grain Size D		
Hydroscopic Moist.:	0.97%				Sieve	Percent	Soils Particle	
Adj. Sample Wgt :	49.54	grams		ACCREDITED Certificate #: 1366.01	Size	Passing	Diameter	
				certaneate #. 1500.01	3.0"	100%	75.000 mm	
Hydrometer	Connected	D	Calla David 1		2.0"	100%	50.000 mm	
Reading Minutes	Corrected Reading	Percent Passing	Soils Particle Diameter		1.5" 1.25"	100% 100%	37.500 mm 31.500 mm	
Minutes	25	50.4%	0.0477 mm		1.25"	100%	25.000 mm	
2	25 22	50.4% 44.4%	0.0477 mm 0.0344 mm		3/4"	100%	25.000 mm 19.000 mm	
5	18.5	37.3%	0.0223 mm		5/8"	100%	16.000 mm	
15	14	28.2%	0.0132 mm		1/2"	100%	12.500 mm	
30	12	24.2%	0.0094 mm		3/8"	100%	9.500 mm	
60	9	18.2%	0.0068 mm		1/4"	100%	6.300 mm	
240	6	12.1%	0.0034 mm		#4	100%	4.750 mm	
1440	3	6.1%	0.0014 mm		#10	100%	2.000 mm	
					#20	84%	0.850 mm	
% Gravel:	0.0%	Lie	uid Limit: n/a		#40	78%	0.425 mm	
% Sand:	38.0%	Pla	stic Limit: n/a		#100	65%	0.150 mm	
% Silt:	47.1%	Plasti	city Index: n/a		#200	62.0%	0.075 mm	
% Clay:	14.9%				Silts	61.6%	0.074 mm	
						54.9%	0.050 mm	
						35.0%	0.020 mm	
					Clays	14.9%	0.005 mm	
						7.8%	0.002 mm	
					Colloids	4.2%	0.001 mm	
	USDA Soil Text	ural Classification						
		Particle Size			1			
% Sand:		2.0 - 0.05 mm						
% Silt:		0.05 - 0.002 mm						
% Clay:		< 0.002 mm						
	USDA Soil Text	ural Classification						
		Loam						

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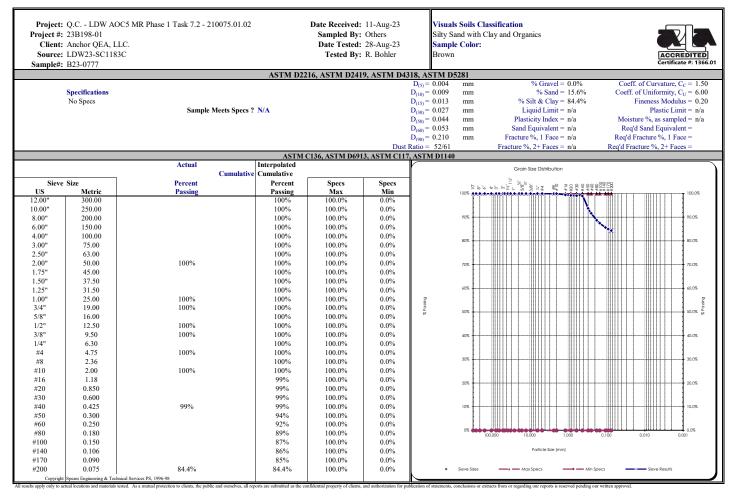
Comments:

Alex Eifrig

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Reviewed by:





Comments:

Alex Eifrig



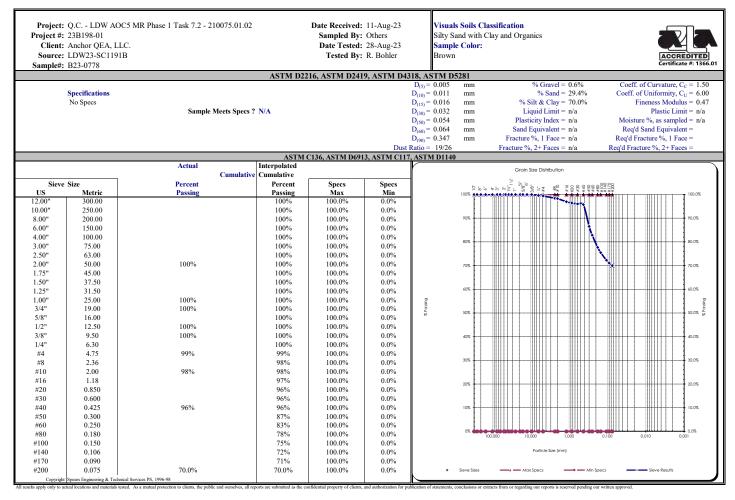
Project: Q.C LDW AOC5 MR Phase 1 Task 7.2 - 210075.01.02 Date Received: 11-Aug-23 Visual Soils C	lassification			
	Date Received: 11-Aug-23 Sampled By: Others Silty Sand with Clay and Organics			
Client : Anchor QEA, LLC. Date Tested: 29-Aug-23 Sample Color				
Source: LDW23-SC1183C Tested By: R. Bohler Brown				
Source: LDw25-SC1185C Tested By: R. Bonier Brown Sample#: B23-0777				
	1.0703.5	D (010		
ASTM D7928, HYDROMETER ANALYSIS	ASTM D6913			
Assumed Sp Gr : 2.65	Sieve A			
Sample Weight: 50.00 grams	Grain Size E			
Hydroscopic Moist.: 1.22%	Percent	Soils Particle		
Adj. Sample Wgt : 49.40 grams ACCREDITED Size	Passing	Diameter		
Certificate #: 1366.01 3.0"	100%	75.000 mm		
Hydrometer 2.0"	100%	50.000 mm		
Reading Corrected Percent Soils Particle 1.5"	100%	37.500 mm		
Minutes Reading Passing Diameter 1.25"	100%	31.500 mm		
1 34 68.8% 0.0447 mm 1.0"	100%	25.000 mm		
2 31 62.7% 0.0323 mm 3/4"	100%	19.000 mm		
5 26 52.6% 0.0211 mm 5/8"	100%	16.000 mm		
15 19 38.4% 0.0128 mm 1/2"	100%	12.500 mm		
30 15 30.4% 0.0093 mm 3/8"	100%	9.500 mm		
60 13 26.3% 0.0066 mm 1/4"	100%	6.300 mm		
240 8 16.2% 0.0034 mm #4	100%	4.750 mm		
1440 3 6.1% 0.0014 mm #10	100%	2.000 mm		
#20	99%	0.850 mm		
% Gravel: 0.0% Liquid Limit: n/a #40	99%	0.425 mm		
% Sand: 15.6% Plastic Limit: n/a #100	87%	0.150 mm		
% Silt: 63.2% Plasticity Index: n/a #200	84.4%	0.075 mm		
% Clay: 21.2% Silts	83.8%	0.074 mm		
	75.2%	0.050 mm		
	50.7%	0.020 mm		
Clays	21.2%	0.005 mm		
	9.0%	0.002 mm		
Colloids	4.2%	0.001 mm		
USDA Soil Textural Classification				
Particle Size				
% Sand: 2.0 - 0.05 mm				
% Silt: 0.05 - 0.002 mm				
% Clay: < 0.002 mm				
USDA Soil Textural Classification				
Silt Loam				
Sht Loan				

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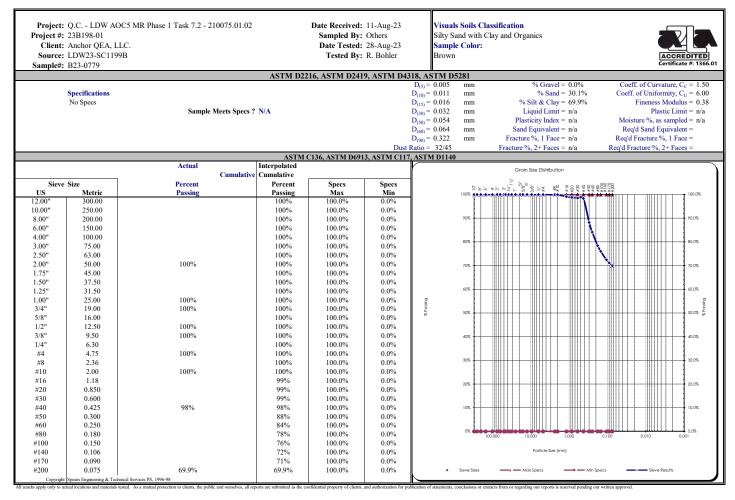
	DW LOGS MD N 177 1	7.2 210075 01 02	D (D)	1 11 4 22	V. 10 1 C	• • • •		
Project: Q.C LDW AOC5 MR Phase 1 Task 7.2 - 210075.01.02			Date Received: 11-Aug-23 Visual Soils Classification					
Project #: 23B198-01			Sampled By: Others			Silty Sand with Clay and Organics		
Client : Anchor			sted: 29-Aug-23	Sample Color				
Source: LDW23			Tested	By: R. Bohler	Brown			
Sample#: B23-07								
ASTM D7928, HYDROMETER ANALYSIS				ASTM D6913				
Assumed Sp Gr : 2.65					Sieve An	alysis		
Sample Weight:	50.04	grams				Grain Size Di	stribution	
Hydroscopic Moist.:	2.14%				Sieve	Percent	Soils Particle	
Adj. Sample Wgt :	48.99	grams		ACCREDITED	Size	Passing	Diameter	
				Certificate #: 1366.01	3.0"	100%	75.000 mm	
Hydrometer					2.0"	100%	50.000 mm	
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm	
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm	
1	27	54.2%	0.0471 mm		1.0"	100%	25.000 mm	
2	22.5	45.1%	0.0344 mm		3/4"	100%	19.000 mm	
5	18	36.1%	0.0223 mm		5/8"	100%	16.000 mm	
15	14	28.1%	0.0132 mm		1/2"	100%	12.500 mm	
30	12	24.1%	0.0094 mm		3/8"	100%	9.500 mm	
60	10	20.1%	0.0068 mm		1/4"	100%	6.300 mm	
240	6	12.0%	0.0034 mm		#4	99%	4.750 mm	
1440	4	8.0%	0.0014 mm		#10	98%	2.000 mm	
					#20	96%	0.850 mm	
% Gravel:	0.6%		quid Limit: n/a		#40	96%	0.425 mm	
% Sand:	29.4%		astic Limit: n/a		#100	75%	0.150 mm	
% Silt:	54.2%	Plasti	city Index: n/a		#200	70.0%	0.075 mm	
% Clay:	15.8%				Silts	69.4%	0.074 mm	
						60.2%	0.050 mm	
						34.1%	0.020 mm	
					Clays	15.8%	0.005 mm	
						9.2%	0.002 mm	
					Colloids	5.6%	0.001 mm	
USDA Soil Textural Classification								
9/ S		Particle Size						
% Sand:		2.0 - 0.05 mm						
% Silt: % Clay:		0.05 - 0.002 mm < 0.002 mm						
/o Clay.		< 0.002 mm						
USDA Soil Textural Classification								
Silt Loam								

All realist steph only to actual locations and materials tested. As a matual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization of statements, conclusions or extracts from or regarding our reports is reserved pending our

Comments:

Alex Eifrig





Comments:

Alex Eifrig



	DULLOCS OD DULLET 1	2.2. 210025.01.02	D / D /	1 11 1 00			
Project: Q.C LDW AOC5 MR Phase 1 Task 7.2 - 210075.01.02			Date Received: 11-Aug-23 Visual Soils Classification				
Project #: 23B198-01				By: Others	Silty Sand with Clay and Organics		
Client : Anchor QEA, LLC.				sted: 29-Aug-23	Sample Color		
Source: LDW23			Tested	By: R. Bohler	Brown		
Sample#: B23-07							
ASTM D7928, HYDROMETER ANALYSIS				ASTM D6913			
Assumed Sp Gr :	2.65					Sieve An	alysis
Sample Weight:	50.00	grams				Grain Size D	istribution
Hydroscopic Moist.:	2.47%				Sieve	Percent	Soils Particle
Adj. Sample Wgt :	48.79	grams		ACCREDITED	Size	Passing	Diameter
				Certificate #: 1366.01	3.0"	100%	75.000 mm
Hydrometer					2.0"	100%	50.000 mm
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm
1	25	51.2%	0.0477 mm		1.0"	100%	25.000 mm
2	21	43.0%	0.0347 mm		3/4"	100%	19.000 mm
5	18	36.9%	0.0223 mm		5/8"	100%	16.000 mm
15	15	30.7%	0.0131 mm		1/2"	100%	12.500 mm
30	11	22.5%	0.0095 mm		3/8"	100%	9.500 mm
60	9	18.4%	0.0068 mm		1/4"	100%	6.300 mm
240	5	10.2%	0.0035 mm		#4	100%	4.750 mm
1440	4	8.2%	0.0014 mm		#10	100%	2.000 mm
					#20	99%	0.850 mm
% Gravel:	0.0%		quid Limit: n/a		#40	98%	0.425 mm
% Sand:	30.1%		astic Limit: n/a		#100	76%	0.150 mm
% Silt:	55.9%	Plasti	icity Index: n/a		#200	69.9%	0.075 mm
% Clay:	14.0%				Silts	69.2%	0.074 mm
						58.3%	0.050 mm
						35.3%	0.020 mm
					Clays	14.0%	0.005 mm
						8.8%	0.002 mm
					Colloids	5.8%	0.001 mm
	USDA Soil Torr	tunal Classification					
USDA Soil Textural Classification							
		Particle Size					
% Sand: 2.0 - 0.05 mm							
% Silt: 0.05 - 0.002 mm							
% Clay:		< 0.002 mm					
USDA Soil Textural Classification							
Loam							
		Loam					
					1		

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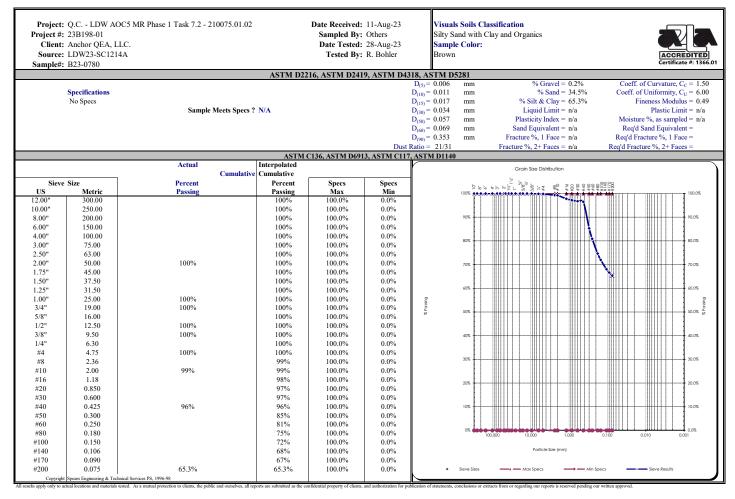
Comments:

Alex Eifrig

Alex Eifrig

Reviewed by:





Comments:

Alex Eifrig



Project: O.C I	DW AOC5 MR Phase 1 Task	7 2 - 210075 01 02	Date Recei	ved: 11-Aug-23	Visual Soils Cl	assification		
Project #: 23B198	7.2 210075.01.02				Silty Sand with Clay and Organics			
Client : Anchor		Date Tested: 29-Aug-23			Sample Color			
Source: LDW23								
Sample#: B23-07			resteu	By. R. Doniel	Brown			
ASTM D7928, HYDROMETER ANALYSIS					ASTM D6913			
Assumed Sp Gr :					Sieve An			
Sample Weight:	50.03	grams				Grain Size D	istribution	
Hydroscopic Moist.:	2.11%	Č			Sieve	Percent	Soils Particle	
Adj. Sample Wgt :	49.00	grams		ACCREDITED	Size	Passing	Diameter	
		0		Certificate #: 1366.01	3.0"	100%	75.000 mm	
Hydrometer					2.0"	100%	50.000 mm	
Reading	Corrected	Percent	Soils Particle		1.5"	100%	37.500 mm	
Minutes	Reading	Passing	Diameter		1.25"	100%	31.500 mm	
1	21	42.5%	0.0490 mm		1.0"	100%	25.000 mm	
2	19	38.5%	0.0351 mm		3/4"	100%	19.000 mm	
5	17	34.4%	0.0224 mm		5/8"	100%	16.000 mm	
15	12.5	25.3%	0.0133 mm		1/2"	100%	12.500 mm	
30	10.5	21.3%	0.0096 mm		3/8"	100%	9.500 mm	
60	8	16.2%	0.0068 mm		1/4"	100%	6.300 mm	
240	5	10.1%	0.0035 mm		#4	100%	4.750 mm	
1440	2	4.0%	0.0014 mm		#10	99%	2.000 mm	
					#20	97%	0.850 mm	
% Gravel:	0.2%		uid Limit: n/a		#40	96%	0.425 mm	
% Sand:	34.5%		stic Limit: n/a		#100	72%	0.150 mm	
% Silt:	52.4%	Plasti	city Index: n/a		#200	65.3%	0.075 mm	
% Clay:	12.9%				Silts	64.4%	0.074 mm	
						51.0%	0.050 mm	
					~	32.0%	0.020 mm	
					Clays	12.9% 5.7%	0.005 mm 0.002 mm	
					C H 11			
					Colloids	2.8%	0.001 mm	
USDA Soil Textural Classification								
Particle Size								
% Sand:		2.0 - 0.05 mm						
% Silt:		0.05 - 0.002 mm						
% Clay:		< 0.002 mm						
USDA Soil Textural Classification								
Sandy Loam								
		,						

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