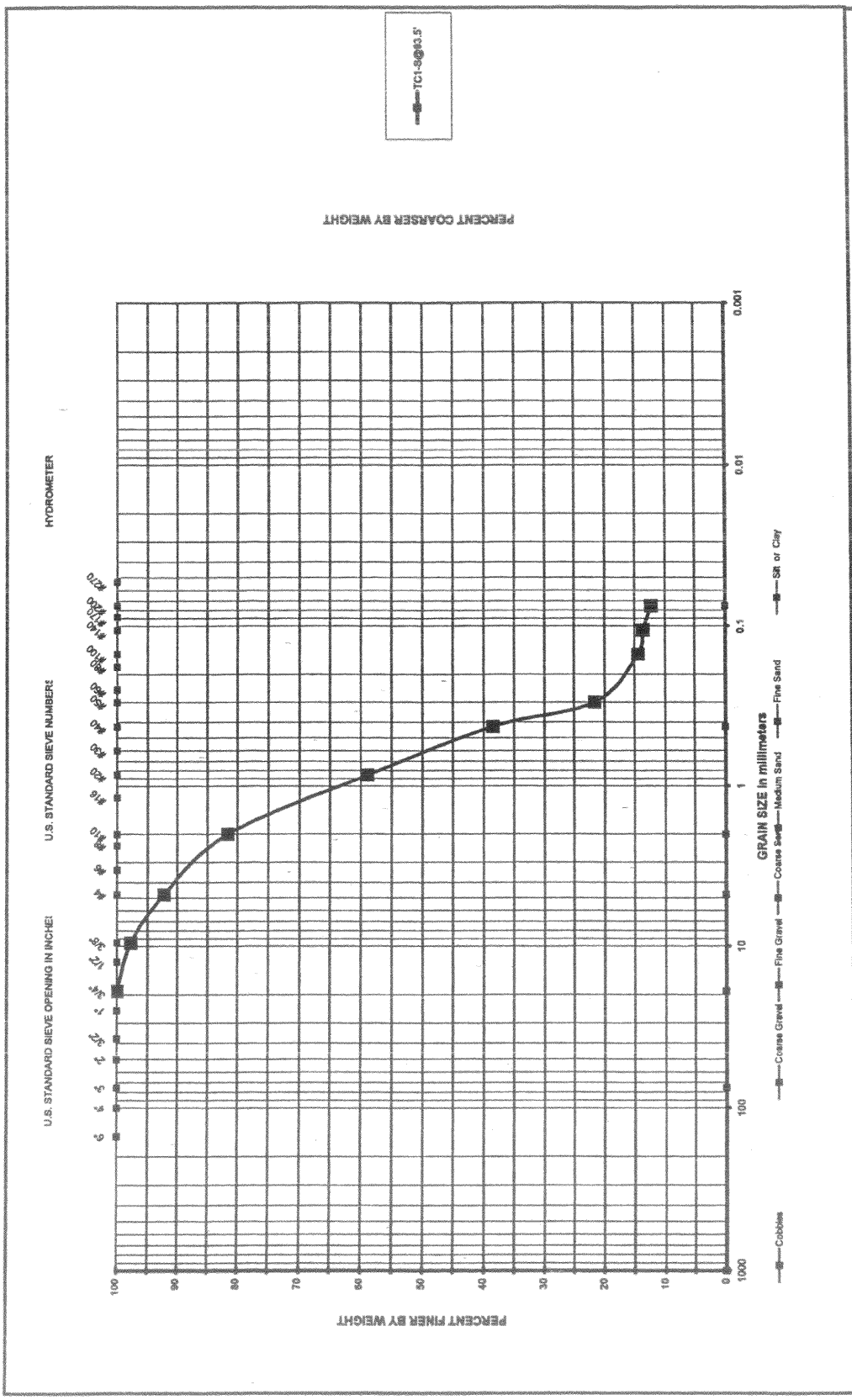


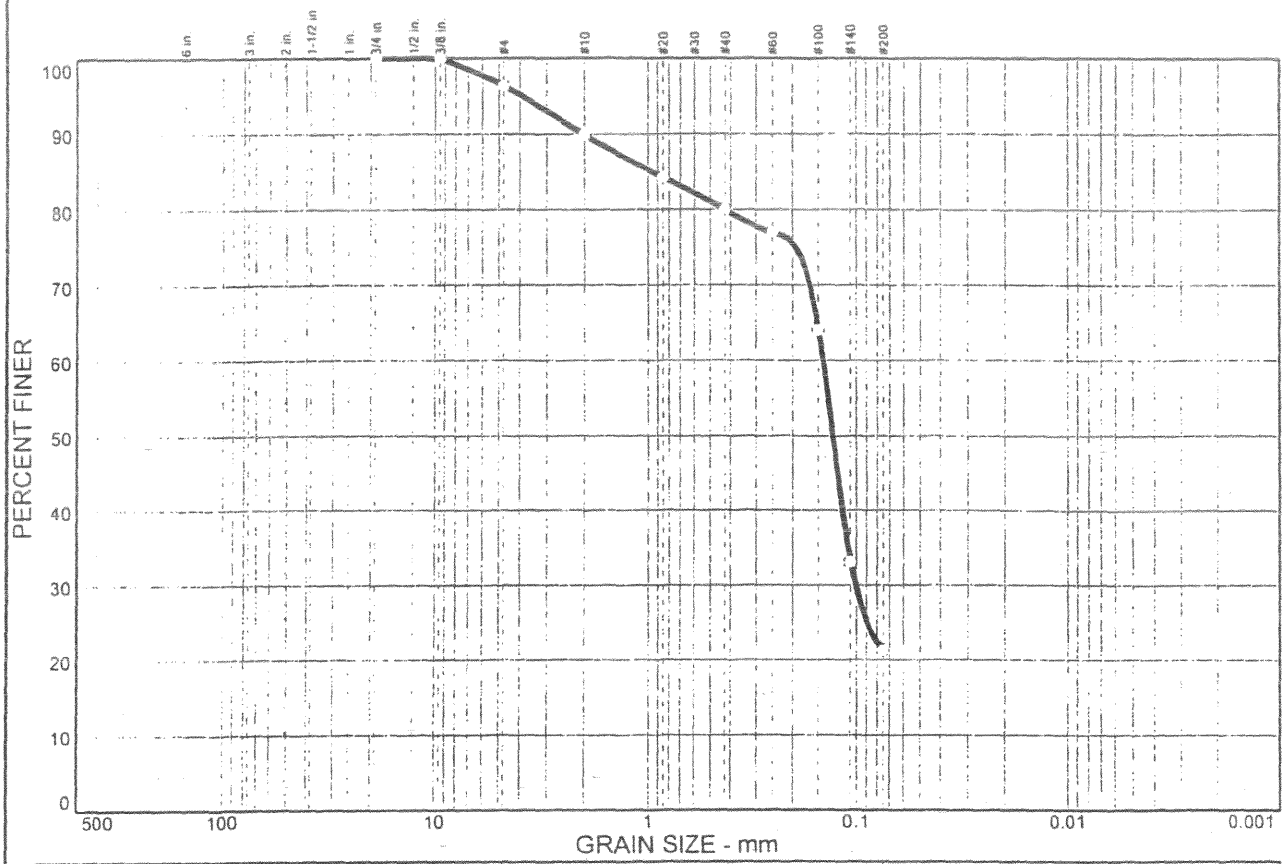
Project: EAA Reservoirs
1/0/1900
Date: 4/13/2005 N&A Project No. 05-05-0013-1
Figure No.

NODARSE & ASSOCIATES, INC.

GRADATION CURVES

No.	Sample Location	Classification	w %	LL	PL	PI
1	TC1-S@13.5'		21	-	-	-

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	0.0	3.6	6.5	9.9	58.8	21.2	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3/4 in.	100.0		
3/8 in.	100.0		
#4	96.4		
#10	89.9		
#20	84.3		
#40	80.0		
#60	77.0		
#100	64.0		
#140	33.1		
#200	21.2		

* (no specification provided)

Soil Description

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 0.954 D_{60}= 0.143 D_{50}= 0.128
D_{30}= 0.101 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

Remarks

Sample No.: 282 Source of Sample: Date:
Location: TC1S-10 Elev./Depth: 48.5'

NODARSE & ASSOCIATES, INC.

Client:
Project: EAA
Project No: W04-G-487 Plate

LABORATORY TEST RESULTS FOR
EAA RESERVOIR - WO#2
PROJECT No: 05-05-0013-101
N&A

Boring Number	Approximate Sample Depth (feet)	Passing Sieve Number (%)					Moisture Content (%)	Organic Content (%)	Atterberg Limits		Classification	Stratum Number
		10	20	60	100	200			LL	PI		
CB-157 CP05-EAARS-CB-0255	9.0'	74	44	35	29	24	33	-	-	-	SM	Silty sand with gravel
CB-157 CP05-EAARS-CB-0255	13.5'	81	66	57	47	32	27	-	-	-	SM	Silty sand with gravel
CB-157 CP05-EAARS-CB-0255	18.5'	54	35	27	20	11	19	-	-	-	SW-SM	Well graded sand with silt+gravel
CB-158 CP05-EAARS-CB-0256	50.5'	75	46	32	17	10	19	-	-	-	SW-SM	Well graded sand with silt+gravel
CB-158 CP05-EAARS-CB-0256	55.0'	97	61	39	17	8	23	-	-	-	SP-SM	Poorly graded sand with silt
CB-158 CP05-EAARS-CB-0256	65.5'	74	49	34	21	14	21	-	-	-	SW-SM	Well graded sand with gravel
CB-158 CP05-EAARS-CB-0256	70.0'	93	83	67	35	13	28	-	-	-	SP-SM	Poorly graded sand with silt
CB-158 CP05-EAARS-CB-0256	38.5'	86	81	79	59	22	28	-	-	-	SM	Silty sand
CB-158 CP05-EAARS-CB-0256	44.5'	99	97	92	27	8	29	-	-	-	SP-SM	Poorly graded sand with silt

Boring Number	Approximate Sample Depth (feet)	Passing Sieve Number (%)					Moisture Content (%)	Organic Content (%)	Atterberg Limits		Classification	Stratum Number
		10	20	60	100	200			LL	PI		
CB-158 CP05-EAARS-CB-0256	23.5'	72	43	33	26	19	29	-	-	-	SM	Silty sand with gravel
CB-158 CP05-EAARS-CB-0256	21.5'	65	41	34	30	23	21	-	-	-	SM	Silty sand with gravel
CB-158 CP05-EAARS-CB-0256	76.0'	54	29	21	16	11	28	-	-	-	SP-SM	Poorly graded sand with gravel
CB-158 CP05-EAARS-CB-0256	80.5'	55	26	18	12	10	26	-	-	-	SP-SM	Poorly graded sand with silt
CB-158 CP05-EAARS-CB-0256	85.0'	55	26	18	12	10	26	-	-	-	SW-SM	Well graded sand with silt+gravel
CB-158 CP05-EAARS-CB-0256	89.5'	53	27	14	11	9	22	-	-	-	SW-SM	Well graded sand with silt+gravel
CB-158 CP05-EAARS-CB-0256	91.0'	57	43	38	23	17	21	-	-	-	SM	Silty sand with gravel
CB-158 CP05-EAARS-CB-0256	98.5'	71	61	56	34	20	22	-	-	-	SM	Silty sand with gravel

LABORATORY TEST RESULTS FOR
EAA RESERVOIR - WO#4
PROJECT No: 05-05-0013-101
N&A

Boring Number	Approximate Sample Depth (feet)	Passing Sieve Number (%)					Moisture Content (%)	Organic Content (%)	Atterberg Limits		Classification	Stratum Number
		10	20	60	100	200			LL	PI		
CB-0168 CP05-EAARS -CB0265	4.5-9.5'	32	20	6	5	1	-	-	-	-	Well graded gravel with sand.	(GW)

LABORATORY TEST RESULTS FOR
EAA RESERVOIR - WO#3
PROJECT No: 05-05-0013-101
N&A

Boring Number	Approximate Sample Depth (feet)	Passing Sieve Number (%)					Moisture Content (%)	Organic Content (%)	Atterberg Limits		Classification	Stratum Number
		10	20	60	100	200			LL	PI		
CB-0169 CP05-EAARS-CB-0266	5.5'	37	25	14	11	8	13	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0169 CP05-EAARS-CB-0266	11.5'	72	59	39	33	28	24	-	-	-	Silty sand with gravel.	(SM)
CB-0169 CP05-EAARS-CB-0266	14.5'	48	36	22	18	14	34	-	-	-	Well graded sand with silt and gravel.	(SW-SM)
CB-0169 CP05-EAARS-CB-0266	16'	81	65	41	32	25	36	-	-	-	Silty sand.	(SM)
CB-0169 CP05-EAARS-CB-0266	20.5'	87	76	54	42	27	28	-	-	-	Silty sand.	(SM)
CB-0169 CP05-EAARS-CB-0266	26.5'	87	72	48	35	13	22	-	-	-	Well graded sand with silt.	(SW-SM)
CB-0169 CP05-EAARS-CB-0266	31.0'	81	71	53	41	25	22	-	-	-	Silty sand.	(SM)
CB-0169 CP05-EAARS-CB-0266	37.0'	75	60	39	27	9	27	-	-	-	Well graded sand with silt.	(SW-SM)
CB-0169 CP05-EAARS-CB-0266	44.5'	99	94	22	8	3	25	-	-	-	Poorly graded sand.	(SP)
CB-0169 CP05-EAARS-CB-0266	49.0'	57	47	20	13	7	21	-	-	-	Well graded sand with silt and gravel.	(SW-SM)
CB-0169 CP05-EAARS-CB-0266	55.0'	86	81	75	59	22	30	-	-	-	Silty sand.	(SM)
CB-0169 CP05-EAARS-CB-0266	61.0'	44	36	23	17	11	30	-	-	-	Well graded sand with silt+gravel.	(SW-SM)

CB-0169 CP05-EAARS-CB-0266	65.5'	94	81	35	18	9	22	-	-	-	Well graded sand with silt.	(SW-SM)
CB-0169 CP05-EAARS-CB-0266	68.5'	62	50	26	18	8	22	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0169 CP05-EAARS-CB-0266	73.0'	64	56	38	19	10	21	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0169 CP05-EAARS-CB-0266	76.0'	56	48	29	17	11	18	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0169 CP05-EAARS-CB-0266	85.0'	33	25	12	8	6	14	-	-	-	Well graded gravel with silt and sand.	(GW-GM)
CB-0169 CP05-EAARS-CB-0266	89.5'	52	39	13	10	8	14	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0171 CP05-EAARS-CB-0268	13.5'	84	71	46	37	27	30	-	-	-	Silty sand.	(SM)
CB-0171 CP05-EAARS-CB-0268	18.5'	42	38	25	18	9	22	-	-	-	Poorly graded gravel with silt and sand.	(GP-GM)
CB-0171 CP05-EAARS-CB-0268	33.5'	76	66	47	30	9	18	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0172 CP05-EAARS-CB-0269	0.0'	76	72	35	21	14	137	-	-	-	Silty sand with gravel.	(SM)
CB-0172 CP05-EAARS-CB-0269	8.5'	57	39	21	16	12	24	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0172 CP05-EAARS-CB-0269	13.5'	78	71	49	38	25	32	-	-	-	Silty sand with gravel.	(SM)
CB-0172 CP05-EAARS-CB-0269	18.5'	85	68	40	27	10	23	-	-	-	Well graded sand with silt.	(SW-SM)
CB-0172 CP05-EAARS-CB-0269	33.5'	56	51	40	28	3	16	-	-	-	Poorly graded sand with gravel.	(SP)
CB-0172 CP05-EAARS-CB-0269	38.5'	74	65	52	22	6	21	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0173 CP05-EAARS-CB-0270	1.5'	45	31	15	10	7	158	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0173 CP05-EAARS-CB-0270	3.5'	26	22	18	16	14	27	-	-	-	Silty gravel with sand	(GM)

CB-0173 CP05-EAARS-CB-0270	13.5'	77	65	47	41	35	36	-	-	-	Silty sand.	(SM)
CB-0173 CP05-EAARS-CB-0270	18.5'	46	37	24	18	11	26	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0175 CP05-EAARS-CB-0271	0.0'	58	47	33	28	22	12	-	-	-	Silty sand with gravel.	(SM)
CB-0175 CP05-EAARS-CB-0271	2.0'	60	50	36	29	22	20	-	-	-	Silty sand with gravel.	(SM)
CB-0175 CP05-EAARS-CB-0271	10.5'	46	37	26	21	18	24	-	-	-	Silty sand with gravel.	(SM)
CB-0175 CP05-EAARS-CB-0271	18.5'	82	73	51	37	25	25	-	-	-	Silty sand.	(SM)
CB-0175 CP05-EAARS-CB-0271	23.5'	67	59	39	26	12	22	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0175 CP05-EAARS-CB-0271	38.5'	82	77	55	25	10	24	-	-	-	Poorly graded sand with silt and gravel.	(SP-SM)
CB-0176 CP05-EAARS-CB-0272	5.1'	45	33	21	18	15	19	-	-	-	Silty sand with gravel.	(SM)
CB-0176 CP05-EAARS-CB-0272	10.0'	79	69	55	39	24	29	-	-	-	Silty sand with gravel.	(SM)
CB-0176 CP05-EAARS-CB-0272	18.5'	52	46	36	22	9	11	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0176 CP05-EAARS-CB-0272	23.5'	47	42	37	22	7	15	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0176 CP05-EAARS-CB-0272	28.5'	98	97	94	38	5	29	-	-	-	Poorly graded sand.	(SP)
CB-0176 CP05-EAARS-CB-0272	33.5'	53	48	27	16	5	16	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0179 CP05-EAARS-CB-0275	5.5'	41	30	17	13	10	24	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0179 CP05-EAARS-CB-0275	7.5'	58	46	27	21	17	25	-	-	-	Silty sand with gravel.	(SM)
CB-0179 CP05-EAARS-CB-0275	13.5'	50	40	26	23	19	18	-	-	-	Silty sand with gravel.	(SM)

CB-0179 CP05-EAARS-CB-0275	23.5'	38	29	22	14	5	14	-	-	-	Well graded sand with gravel.	(SW)
CB-0179 CP05-EAARS-CB-0275	28.5'	52	48	39	21	7	15	-	-	-	Poorly graded sand with silt.	(SP-SM)
CB-0179 CP05-EAARS-CB-0275	33.5'	91	91	86	27	7	25	-	-	-	Poorly graded sand with silt.	(SP-SM)
CB-0179 CP05-EAARS-CB-0275	38.5'	72	71	49	15	4	21	-	-	-	Poorly graded sand with gravel.	(SP)
CB-0179 CP05-EAARS-CB-0275	48.5'	83	83	75	17	6	21	-	-	-	Poorly graded sand with silt+gravel.	(SP-SM)
CB-0179 CP05-EAARS-CB-0275	58.5'	61	53	35	20	9	23	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0179 CP05-EAARS-CB-0275	63.5'	57	48	33	16	7	28	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0179 CP05-EAARS-CB-0275	73.5'	99	96	70	15	10	22	-	-	-	Poorly graded sand with silt.	(SP-SM)
CB-0179 CP05-EAARS-CB-0275	83.5'	57	38	20	14	11	20	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0179 CP05-EAARS-CB-0275	93.5'	64	42	21	16	12	18	-	-	-	Well graded sand with silt.	(SW-SM)
CB-0180 CP05-EAARS-CB-0276	8.0'	43	32	21	17	12	17	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0180 CP05-EAARS-CB-0276	13.5'	54	43	27	21	13	25	-	-	-	Well graded sand with silt+gravel.	(SW-SM)
CB-0180 CP05-EAARS-CB-0276	18.5'	88	84	76	29	9	26	-	-	-	Poorly graded sand with silt.	(SP-SM)
CB-0180 CP05-EAARS-CB-0276	23.5'	87	81	58	19	4	25	-	-	-	Poorly graded sand.	(SP)
CB-0180 CP05-EAARS-CB-0276	28.5'	99	97	82	22	6	27	-	-	-	Poorly graded sand with silt.	(SP-SM)
CB-0180 CP05-EAARS-CB-0276	33.5'	96	95	92	44	9	27	-	-	-	Poorly graded sand with silt.	(SP-SM)
CB-0181 CP05-EAARS-CB-0277	23.5'	82	74	63	44	16	25	-	-	-	Silty sand.	(SM)

CB-0181 CP05-EAARS-CB-0277	28.5'	83	82	80	59	13	24	-	-	-	Poorly graded sand with silt and gravel.	(SP-SM)
CB-0181 CP05-EAARS-CB-0277	33.5'	93	84	71	50	16	30	-	-	-	Silty sand.	(SM)
CB-0183 CP05-EAARS-CB-0278	18.5'	57	43	25	19	14	21				Well graded sand with silt+gravel.	(SW-SM)
CB-0183 CP05-EAARS-CB-0278	23.5'	81	64	40	29	19	24				Silty sand with gravel.	(SM)
CB-0183 CP05-EAARS-CB-0278	28.5'	52	45	37	24	9	12				Well graded sand with silt+gravel.	(SW-SM)
CB-0183 CP05-EAARS-CB-0278	33.5'	93	93	91	26	6	24				Poorly graded sand with silt.	(SP-SM)

LABORATORY TEST RESULTS FOR
EAA RESERVOIR - WO#5
PROJECT No: 05-05-0013-101
N&A

Boring Number	Approximate Sample Depth (feet)	Passing Sieve Number (%)					Moisture Content (%)	Organic Content (%)	Atterberg Limits		Classification	Stratum Number
		10	20	60	100	200			LL	PI		
CB-0174 CP05-EAARS-VB-0283	5-10'	71	63	50	45	39	10	-	-	-	Sandy silty clay with gravel.	(CL-ML)
CB-0174 CP05-EAARS-VB-0283	10-15'	69	61	50	46	41	23	-	-	-	Sandy silty clay with gravel.	(CL-ML)
CB-0174 CP05-EAARS-VB-0283	100-105'	85	49	13	11	9	11	-	-	-	Poorly graded sand with silt.	(SP-SM)
CB-0174 CP05-EAARS-VB-0283	110-115'	81	52	22	17	14	18	-	-	-	Silty sand with gravel.	(SM)
CB-0174 CP05-EAARS-VB-0283	115-120'	66	46	20	15	12	16	-	-	-	Well graded sand with silt and gravel.	(SW-SM)
CB-0174 CP05-EAARS-VB-0283	125-130'	41	28	15	10	7	13	-	-	-	Well graded sand with silt and gravel.	(SW-SM)
CB-0174 CP05-EAARS-VB-0283	140-145'	76	63	45	15	10	19	-	-	-	Poorly graded sand with silt and gravel.	(SP-SM)
CB-0174 CP05-EAARS-VB-0283	150-155'	53	37	22	12	8	13	-	-	-	Well graded sand with silt and gravel.	(SW-SM)
CB-0174 CP05-EAARS-VB-0283	160-165'	50	35	21	15	9	14	-	-	-	Well graded sand with silt and gravel.	(SW-SM)

CB-0174 CP05-EAARS-VB-0283	165-170'	92	87	78	40	23	20	-	-	-	Silty sand.	(SM)
CB-0174 CP05-EAARS-VB-0283	180-185'	92	92	88	55	29	20	-	-	-	Silty sand.	(SM)
CB-0174 CP05-EAARS-VB-0283	185-190'	90	85	82	66	41	20	-	-	-	Silty sandy with gravel.	(SM)
CB-0174 CP05-EAARS-VB-0283	195-200'	89	86	81	70	27	17	-	-	-	Silty sand with gravel.	(SM)
CB-0174 CP05-EAARS-VB-0283	200-205'	-	-	100	100	22	25	-	-	-	Silty sand.	(SM)
CB-0174 CP05-EAARS-VB-0283	205-210'	-	-	100	100	25	26	-	-	-	Silty sand.	(SM)

LABORATORY TEST RESULTS FOR
PROJECT NAME: EAA RESERVOIR (BLACK AND VEATCH) Work Order No. 6
PROJECT No: 05-05-0013-101
PALM BEACH COUNTY, FLORIDA
N&A

Boring No	Approximate Sample Depth (feet0	Passing Sieve Number (%)					Moisture Content (%)	Organic Content (%)	Atterberg Limits		AASHTO or U.S.C.S. Classification
		10	40	60	100	200			LL	PI	
CB-164 CP05-EAARS-VB-0282	5.0-10.0	37	24	20	17	14	6	-	-	-	GM
CB-164 CP05-EAARS-VB-0282	10.0-15.0	70	46	38	33	27	21	-	-	-	SM
CB-164 CP05-EAARS-VB-0282	30.0-35.0	50	39	34	26	17	8	-	-	-	SM
CB-164 CP05-EAARS-VB-0282	45.0-50.0	78	21	9	5	2	14	-	-	-	SP
CB-164 CP05-EAARS-VB-0282	55.0-60.0	51	30	20	15	8	10	-	-	-	SP-SM
CB-164 CP05-EAARS-VB-0282	70.0-75.0	31	22	17	12	7	7	-	-	-	GP-GM
CB-164 CP05-EAARS-VB-0282	95.0-100.0	78	36	17	8	6	22	-	-	-	SP-SM
CB-164 CP05-EAARS-VB-0282	115.0-120.0	67	56	53	42	27	20	-	-	-	SM
CB-164 CP05-EAARS-VB-0282	120.0-125.0	77	67	64	46	26	22	-	-	-	SM
CB-164 CP05-EAARS-VB-0282	130.0-135.0	89	84	83	40	25	21	-	-	-	SM
CB-164 CP05-EAARS-VB-0282	135.0-140.0	64	51	49	30	21	21	-	-	-	SM
CB-164 CP05-EAARS-VB-0282	145.0-150.0	60	43	39	18	11	13	-	-	-	SP-SM
CB-164 CP05-EAARS-VB-0282	165.0-170.0	37	21	18	12	7	14	-	-	-	GP-GM
CB-164 CP05-EAARS-VB-0282	180.0-185.0	81	68	65	51	20	20	-	-	-	SM
CB-164 CP05-EAARS-VB-0282	200.0-205.0	99	98	97	72	34	20	-	-	-	SM

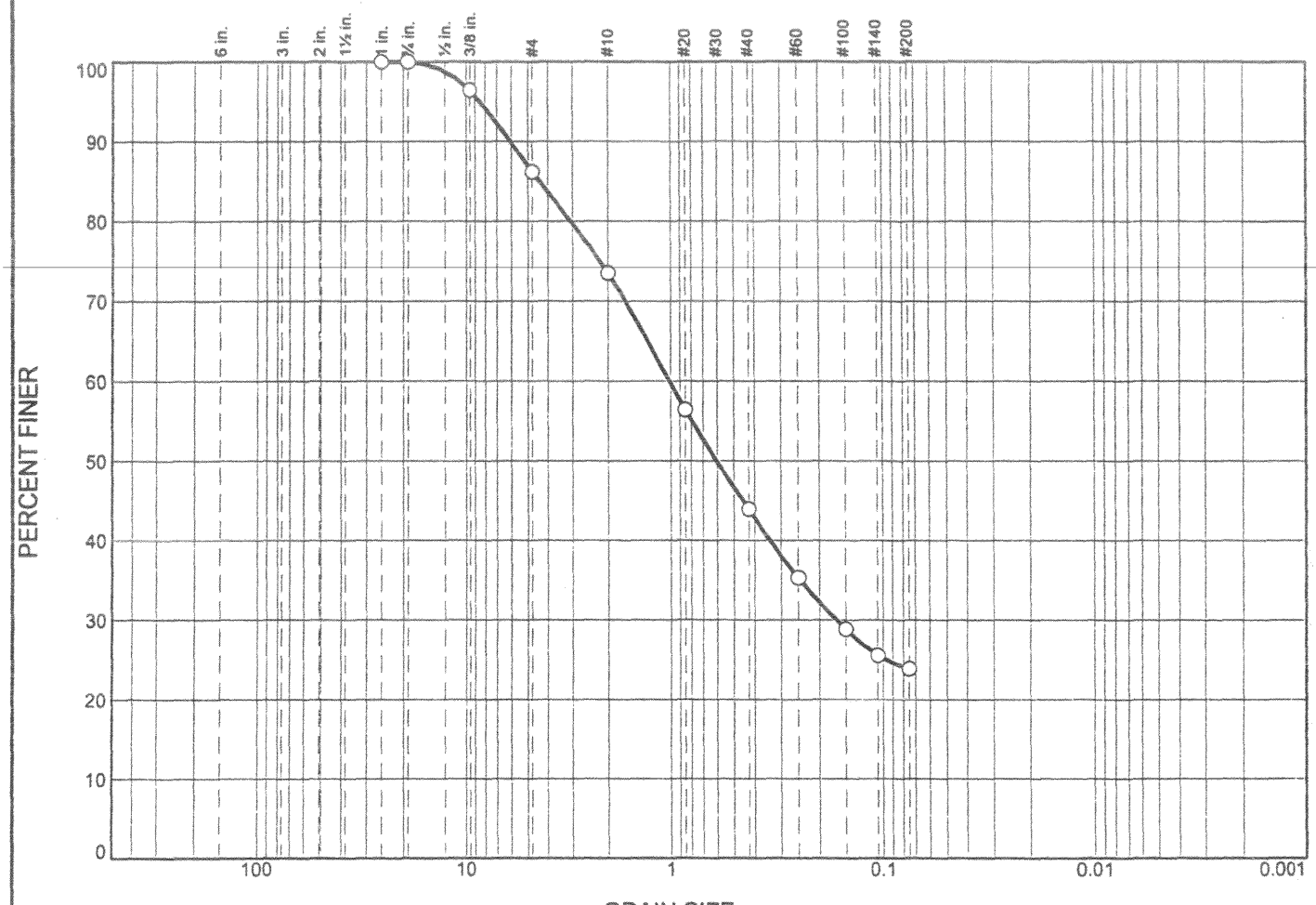
CB-164 CP05-EAARS-VB-0282	215.0-220.0	100	100	100	100	29	28	-	-	-	SM
CB-164 CP05-EAARS-VB-0282	225.0-230.0	100	100	99	98	75	36	-	-	-	ML
CB-170 CP05-EAARS-CB-0267	88.5-90.0	96	85	75	46	29	21	-	-	-	SM
CB-171 CP05-EAARS-CB-0268	78.5-80.0	99	92	86	65	39	26	-	-	-	SM
CB-174 CP05-EAARS-VB-0283	40.0-45.0	88	82	79	43	6	17	-	-	-	SP-SM
CB-174 CP05-EAARS-VB-0283	60.0-65.0	46	34	26	15	8	8	-	-	-	SP-SM
CB-176 CP05-EAARS-CB-0272	58.5-60.0	64	40	31	18	5	21	-	-	-	SP-SM
CB-182 CP05-EAARS-VB-0284	10.0-15.0	63	52	46	39	26	18	-	-	-	SM
CB-182 CP05-EAARS-VB-0284	20.0-25.0	97	95	91	31	4	26	-	-	-	SP
CB-182 CP05-EAARS-VB-0284	40.0-45.0	31	20	13	8	4	2	-	-	-	GP
CB-182 CP05-EAARS-VB-0284	55.0-60.0	50	39	31	18	9	16	-	-	-	SP-SM
CB-182 CP05-EAARS-VB-0284	70.0-75.0	53	20	14	10	7	9	-	-	-	SP-SM
CB-182 CP05-EAARS-VB-0284	90.0-95.0	65	25	15	9	7	15	-	-	-	SP-SM
CB-182 CP05-EAARS-VB-0284	100.0-105.0	49	17	11	8	6	11	-	-	-	GP-GM
CB-182 CP05-EAARS-VB-0284	120.0-125.0	53	30	25	19	13	13	-	-	-	SM
CB-182 CP05-EAARS-VB-0284	125.0-130.0	40	19	14	11	8	10	-	-	-	SP-SM
CB-182 CP05-EAARS-VB-0284	140.0-145.0	54	29	10	8	7	9	-	-	-	SP-SM
CB-182 CP05-EAARS-VB-0284	155.0-160.0	63	50	46	19	11	12	-	-	-	SP-SM
CB-182 CP05-EAARS-VB-0284	175.0-180.0	78	66	63	52	22	17	-	-	-	SM
CB-182 CP05-EAARS-VB-0284	185.0-190.0	93	83	82	75	35	15	-	-	-	SM
CB-182 CP05-EAARS-VB-0284	205.0-210.0	100	100	100	100	45	23	-	-	-	ML
CB-182 CP05-EAARS-VB-0284	210.0-215.0	100	100	100	99	43	26	-	-	-	ML

CB-182 CP05-EAARS-VB-0284	225.0-230.0	100	100	100	99	99	75	-	-	-	ML
CB-190 CP05-EAARS-VB-0285	215.0-220.0	100	97	95	91	71	43	-	-	-	CL
CB-190 CP05-EAARS-VB-0285	220.0-225.0	100	90	80	71	62	88	-	-	-	CL
CB-190 CP05-EAARS-VB-0285	225.0-230.0	100	95	92	89	86	148	-	127	66	CH
CB-205 CP05-EAARS-VB-0286	5.0-10.0	52	31	25	21	16	14	-	-	-	SM
CB-205 CP05-EAARS-VB-0286	15.0-20.0	67	49	40	31	20	18	-	-	-	SM
CB-205 CP05-EAARS-VB-0286	30.0-35.0	77	56	43	25	6	16	-	-	-	SP-SM
CB-205 CP05-EAARS-VB-0286	35.0-40.0	100	97	93	46	5	24	-	-	-	SP-SM
CB-205 CP05-EAARS-VB-0286	60.0-65.0	49	31	23	16	11	14	-	-	-	SP-SM
CB-205 CP05-EAARS-VB-0286	65.0-70.0	91	79	71	45	16	21	-	-	-	SM
CB-205 CP05-EAARS-VB-0286	75.0-80.0	52	33	24	16	13	13	-	-	-	SM
CB-205 CP05-EAARS-VB-0286	80.0-85.0	40	21	15	8	7	12	-	-	-	SP-SM
CB-205 CP05-EAARS-VB-0286	95.0-100.0	87	48	24	11	8	17	-	-	-	SP-SM
CB-205 CP05-EAARS-VB-0286	105.0-110.0	52	16	12	9	7	14	-	-	-	SP-SM
CB-205 CP05-EAARS-VB-0286	110.0-115.0	62	46	43	37	30	20	-	-	-	SM
CB-205 CP05-EAARS-VB-0286	125.0-130.0	50	25	20	16	12	17	-	-	-	SP-SM
CB-205 CP05-EAARS-VB-0286	140.0-145.0	58	38	32	13	7	15	-	-	-	SP-SM
CB-205 CP05-EAARS-VB-0286	160.0-165.0	58	39	35	24	12	20	-	-	-	SP-SM
CB-205 CP05-EAARS-VB-0286	175.0-180.0	77	67	66	56	19	18	-	-	-	SM
CB-205 CP05-EAARS-VB-0286	180.0-185.0	96	91	90	82	37	21	-	-	-	SM
CB-205 CP05-EAARS-VB-0286	195.0-200.0	95	90	89	74	31	19	-	-	-	SM
CB-205 CP05-EAARS-VB-0286	215.0-200.0	100	100	100	100	53	25	-	-	-	ML

CB-219 CP05-EAARS-CB-0317	14.0-15.5	94	77	70	64	52	23	-	-	-	ML
CB-219 CP05-EAARS-CB-0317	34.0-35.5	95	77	47	25	12	25	-	-	-	SP-SM
CB-228 CP05-EAARS-CB-0326	4.0-5.5	23	11	8	6	4	5	-	-	-	GP
CB-228 CP05-EAARS-CB-0326	14.0-15.5	74	44	32	24	11	23	-	-	-	SP-SM
CB-231 CP05-EAARS-CB-0329	8.5-10.0	61	32	25	20	14	17	-	-	-	SM
CB-231 CP05-EAARS-CB-0329	13.5-15.0	88	60	50	38	14	22	-	-	-	SM
CB-231 CP05-EAARS-CB-0329	18.5-20.0	54	38	32	22	12	13	-	-	-	SP-SM
CB-231 CP05-EAARS-CB-0329	23.5-25.0	87	69	54	18	6	26	-	-	-	SP-SM
CB-231 CP05-EAARS-CB-0329	33.5-35.0	65	60	58	40	8	16	-	-	-	SP-SM
CB-235 CP05-EAARS-CB-0333	8.5-10.0	63	38	32	29	24	24	-	-	-	SM
CB-248 CP05-EAARS-CB-0346	10.0-11.5	55	29	20	14	9	10	-	-	-	SP-SM
CB-260 CP05-EAARS-CB-0358	13.0-14.5	70	40	31	26	20	21	-	-	-	SM
CB-262 CP05-EAARS-CB-0360	8.5-10.0	38	21	15	11	8	26	-	-	-	GP-GM
CB-262 CP05-EAARS-CB-0360	13.5-15.0	82	59	53	49	46	31	-	-	-	SM
CB-262 CP05-EAARS-CB-0360	18.5-20.0	89	67	55	45	32	24	-	-	-	SM
CB-262 CP05-EAARS-CB-0360	23.5-25.0	69	46	38	29	15	22	-	-	-	SM
CB-268 CP05-EAARS-CB-0365	0.0-1.5	72	48	38	31	24	10	-	-	-	SM
CB-268 CP05-EAARS-CB-0365	1.5-3.0	60	41	35	30	24	13	-	-	-	SM
CB-268 CP05-EAARS-CB-0365	3.5-5.0	68	33	22	15	9	88	-	-	-	SP-SM
CB-268 CP05-EAARS-CB-0365	5.0-6.5	37	17	13	10	7	13	-	-	-	SP-SM
CB-268 CP05-EAARS-CB-0365	11.5-13.0	75	48	39	29	19	29	-	-	-	SM
CB-268 CP05-EAARS-CB-0365	18.5-20.0	96	82	71	59	41	23	-	-	-	SM

CB-268 CP05-EAARS-CB-0365	23.5-25.0	90	68	57	48	36	23	-	-	-	SM
CB-268 CP05-EAARS-CB-0365	28.5-30.0	86	63	55	46	31	21	-	-	-	SM
CB-268 CP05-EAARS-CB-0365	33.5-35.0	53	30	26	20	11	13	-	-	-	SP-SM
CB-276 CP05-EAARS-CB-0372	14.5-16.0	93	75	68	62	53	19	-	-	-	ML
CB-277 CP05-EAARS-CB-0373	19.0-20.5	83	67	56	41	21	25	-	-	-	SM
CB-277 CP05-EAARS-CB-0373	29.0-30.5	66	49	40	28	19	22	-	-	-	SM
CB-277 CP05-EAARS-CB-0373	34.0-35.5	100	98	95	37	5	26	-	-	-	SP
CB-281 CP05-EAARS-CB-0377	15.5-17.0	79	42	32	26	19	18	-	-	-	SM
CB-281 CP05-EAARS-CB-0377	19.0-20.5	92	68	54	40	25	26	-	-	-	SM
CB-281 CP05-EAARS-CB-0377	24.0-25.5	67	43	35	28	18	19	-	-	-	SM
CB-281 CP05-EAARS-CB-0377	29.0-30.5	72	49	41	31	17	15	-	-	-	SM
CB-310 CP05-EAARS-CB-0406	23.5-25.0	85	64	52	41	28	26	-	-	-	SM
CB-310 CP05-EAARS-CB-0406	33.5-35.0	53	34	30	21	9	13	-	-	-	SP-SM

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	14	12	30	20	24	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.3800	1.0135	0.6025	0.1656				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-157 **Depth:** 9.0' **Sample Number:** 4

Date: ○

Remarks:
○ Moisture Content % 32.6 CP05-EAARS-CB-0255 @ 9.0'

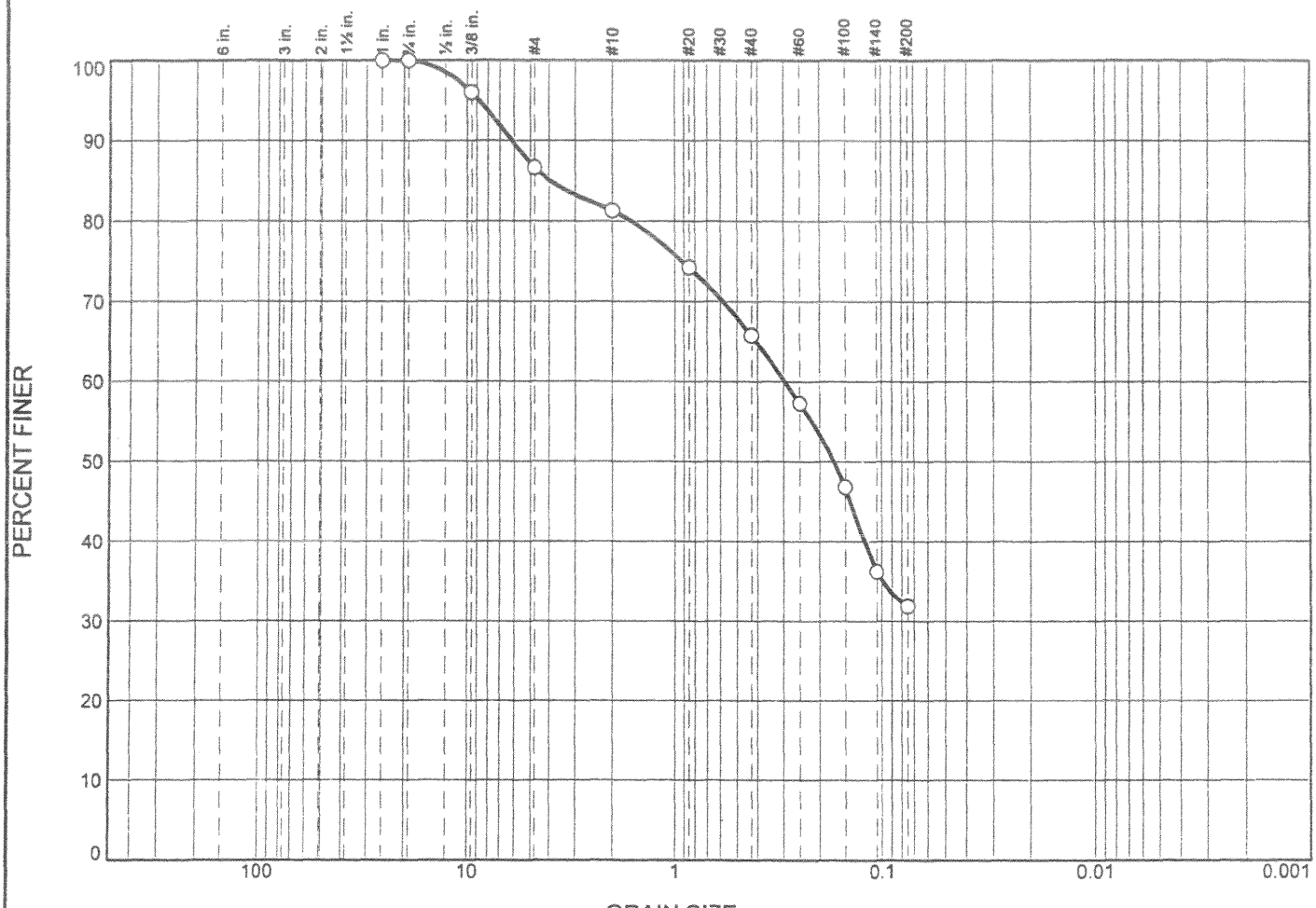
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	13	6	15	34	32	

╳	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			3.9736	0.2950	0.1690					

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-157 **Depth:** 13.5' **Sample Number:** 5

Date: ○

Remarks:
○ Moisture Content % 27.1 CP05-EAARS-CB-0255 @ 13.5'

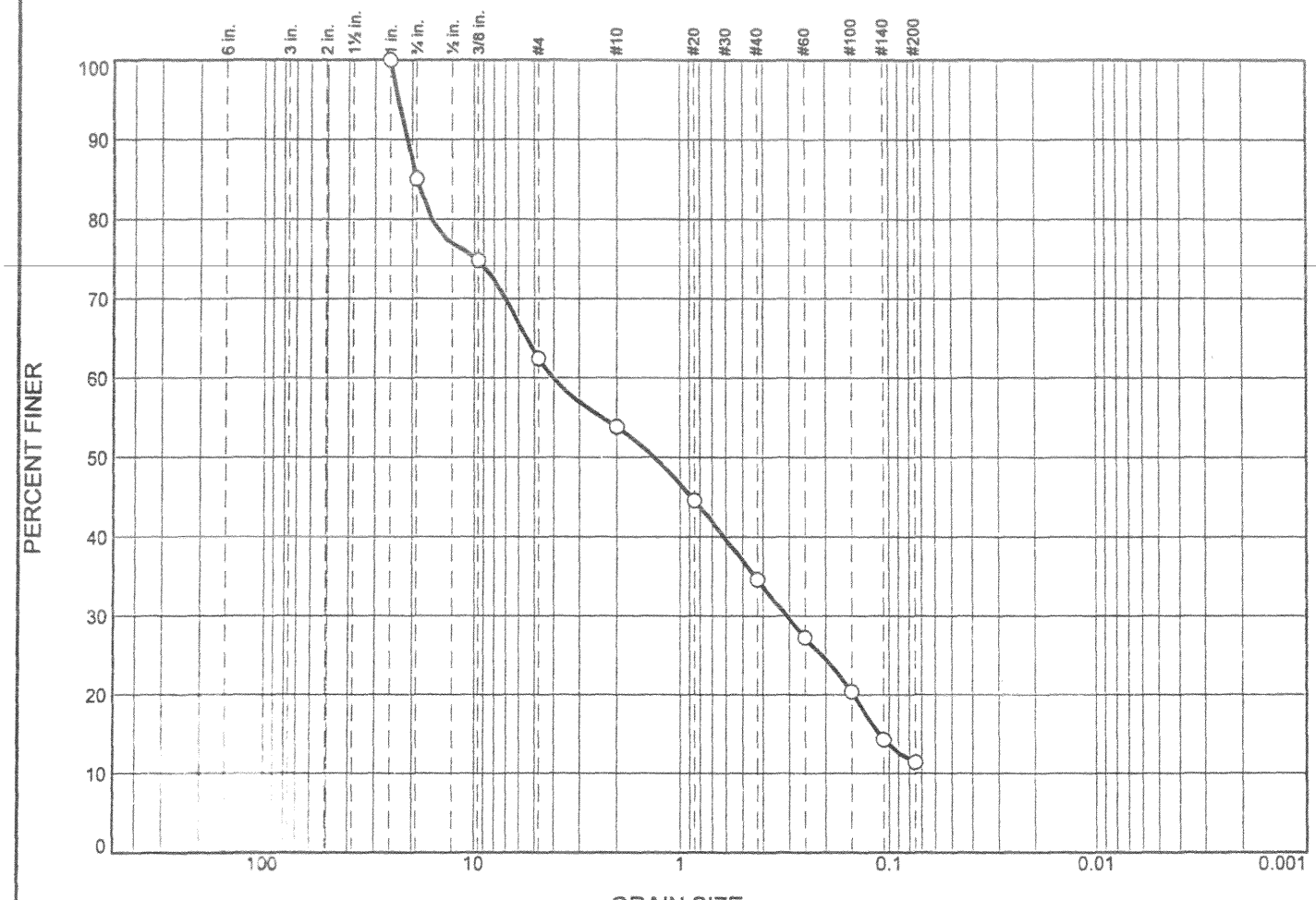
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	15	23	8	19	24	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			19.0162	4.0228	1.3320	0.3078	0.1113			

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)

○ **Source of Sample:** CB-157 **Depth:** 18.5' **Sample Number:** 6

Date: ○

Remarks:

○ Moisture Content % 19.3 CP05-EAARS-CB-0255 @ 18.5'

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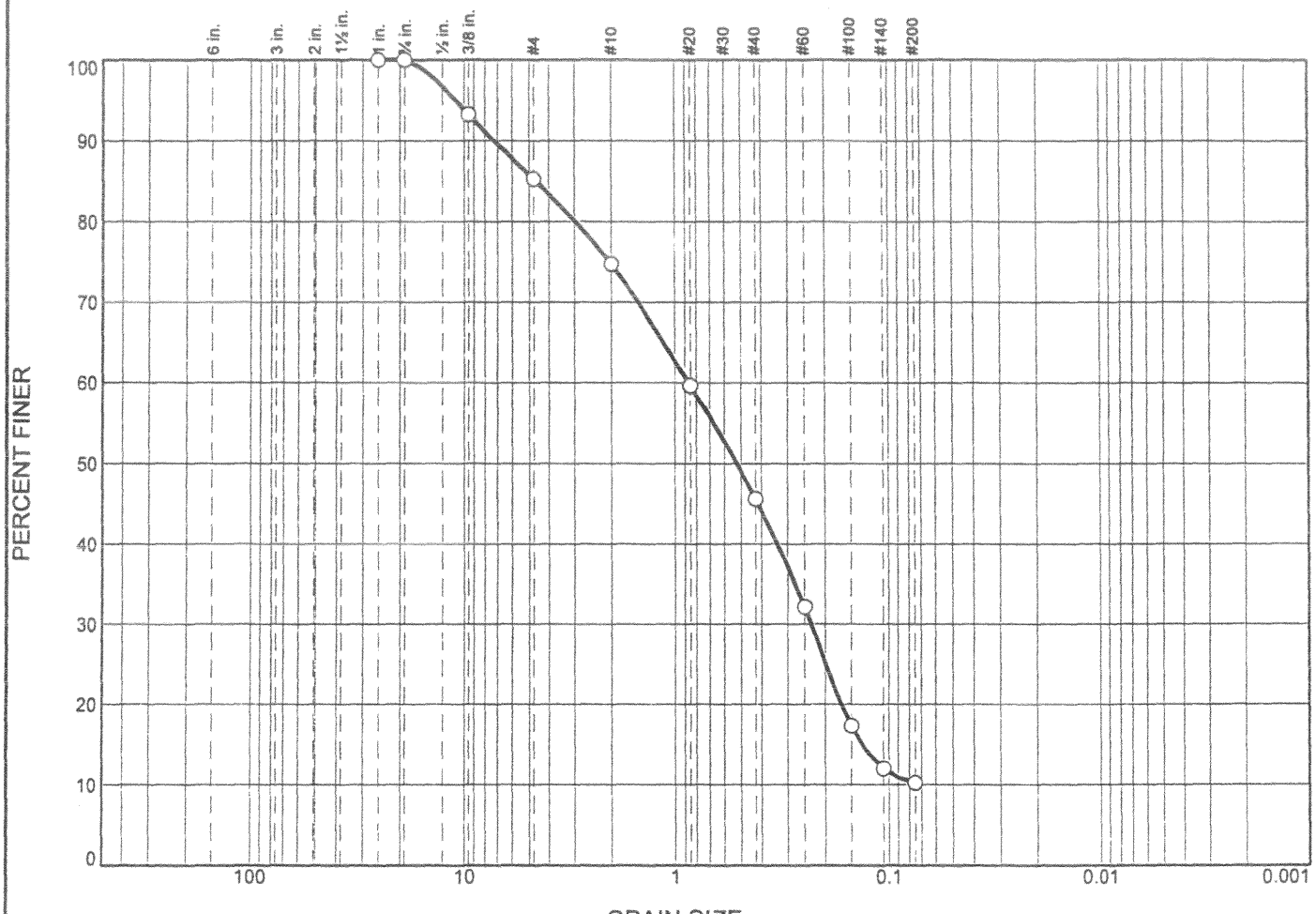
Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	15	10	29	36	10	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.6208	0.8654	0.5214	0.2327	0.1338			

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 50.5' **Sample Number:** 32

Date: ○

Remarks:
○ Moisture Content % 18.6 CP05-EAARS-CB-0256 @ 50.5'

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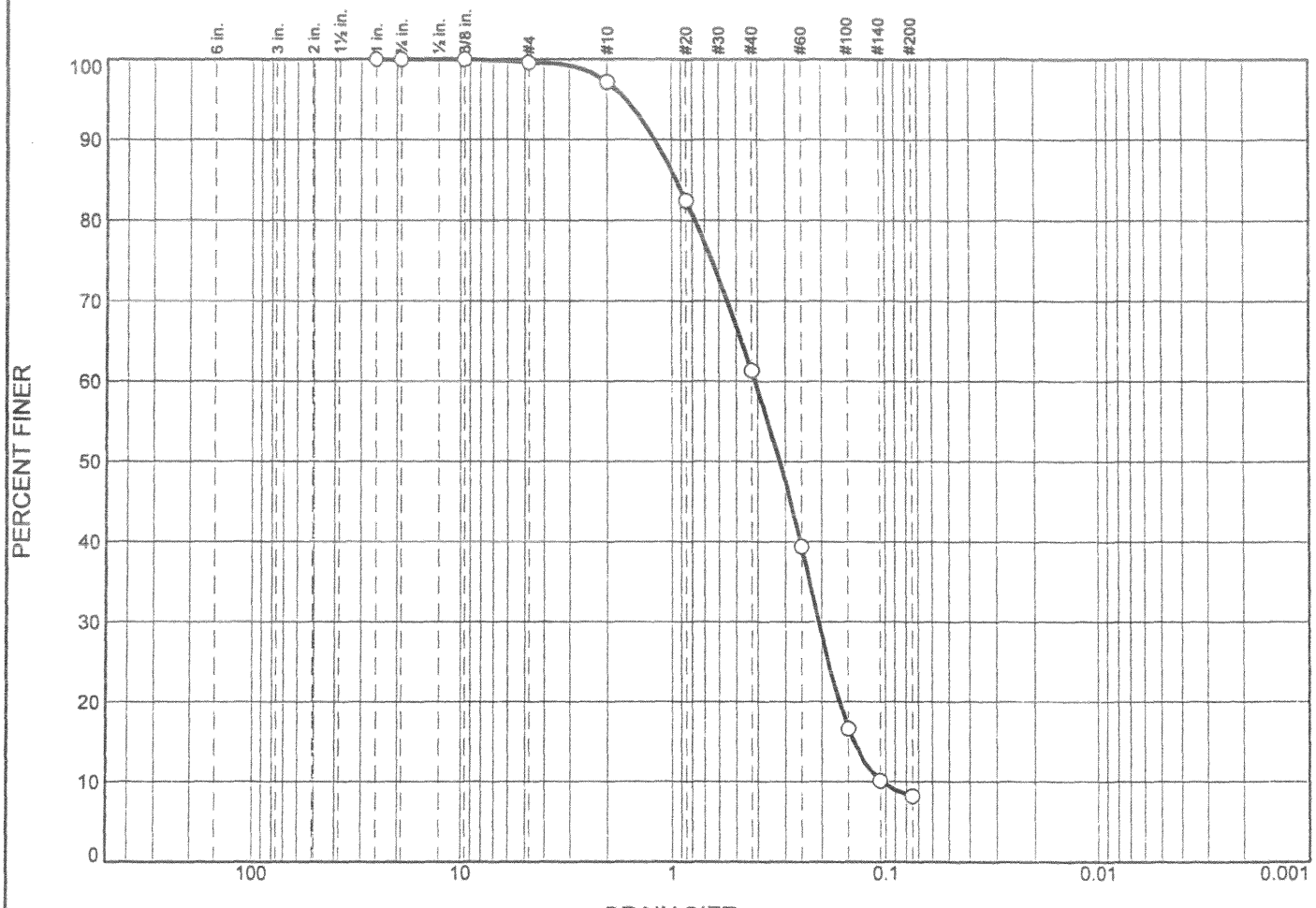
Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	3	36	53	8	

☒	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.9438	0.4093	0.3169	0.2063	0.1419	0.1048	0.99	3.91

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 55.0' **Sample Number:** 35

Date: ○

Remarks:
○ Moisture Content % 23.1 CP05-EAARS-CB-0256 @ 55.0'

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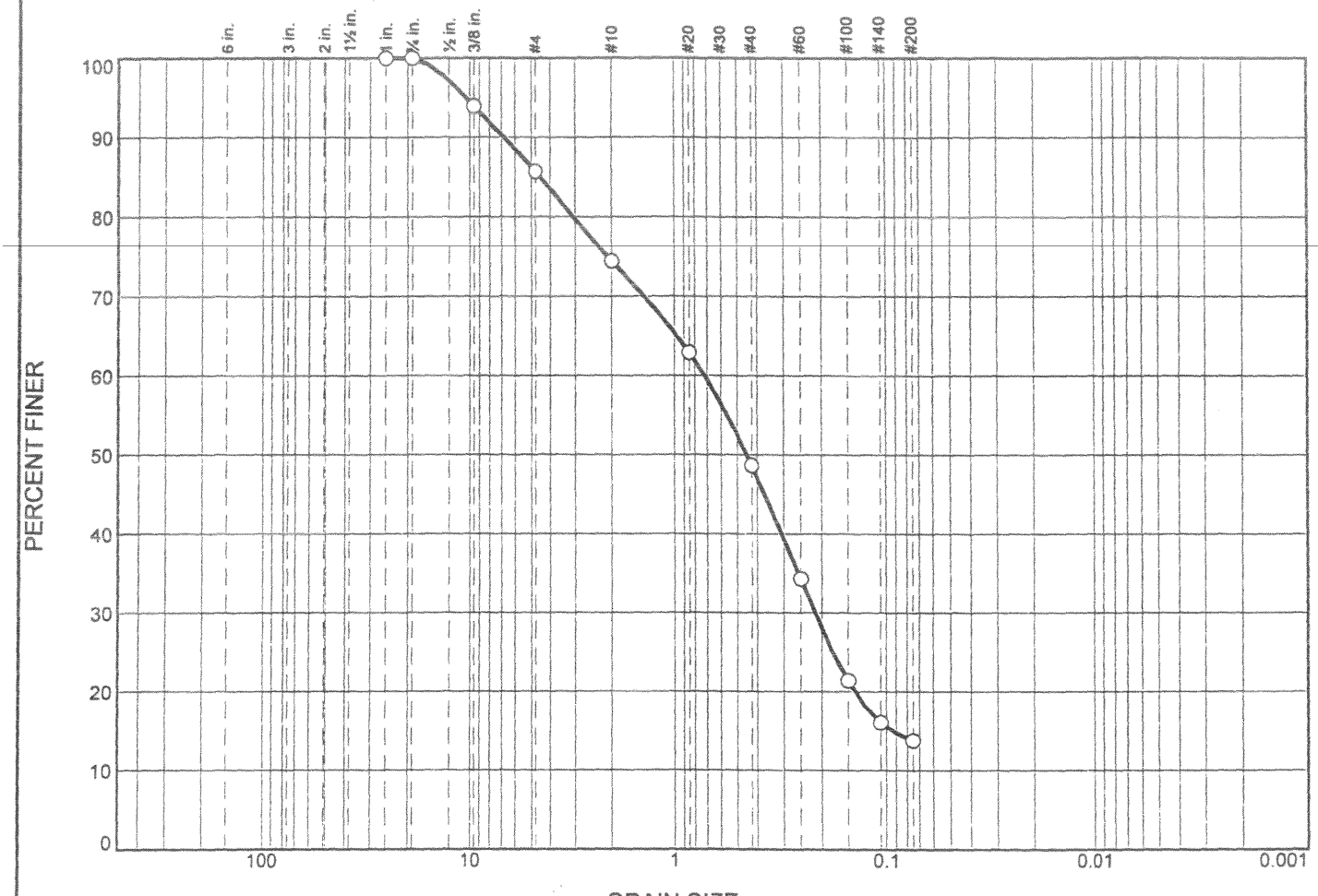
Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	14	12	25	35	14	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.4869	0.7184	0.4491	0.2138	0.0931			

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 65.5' **Sample Number:** 42

Date: ○

Remarks:
○ Moisture Content % 21.2 CP05-EAARS-CB-0256 @ 65.5'

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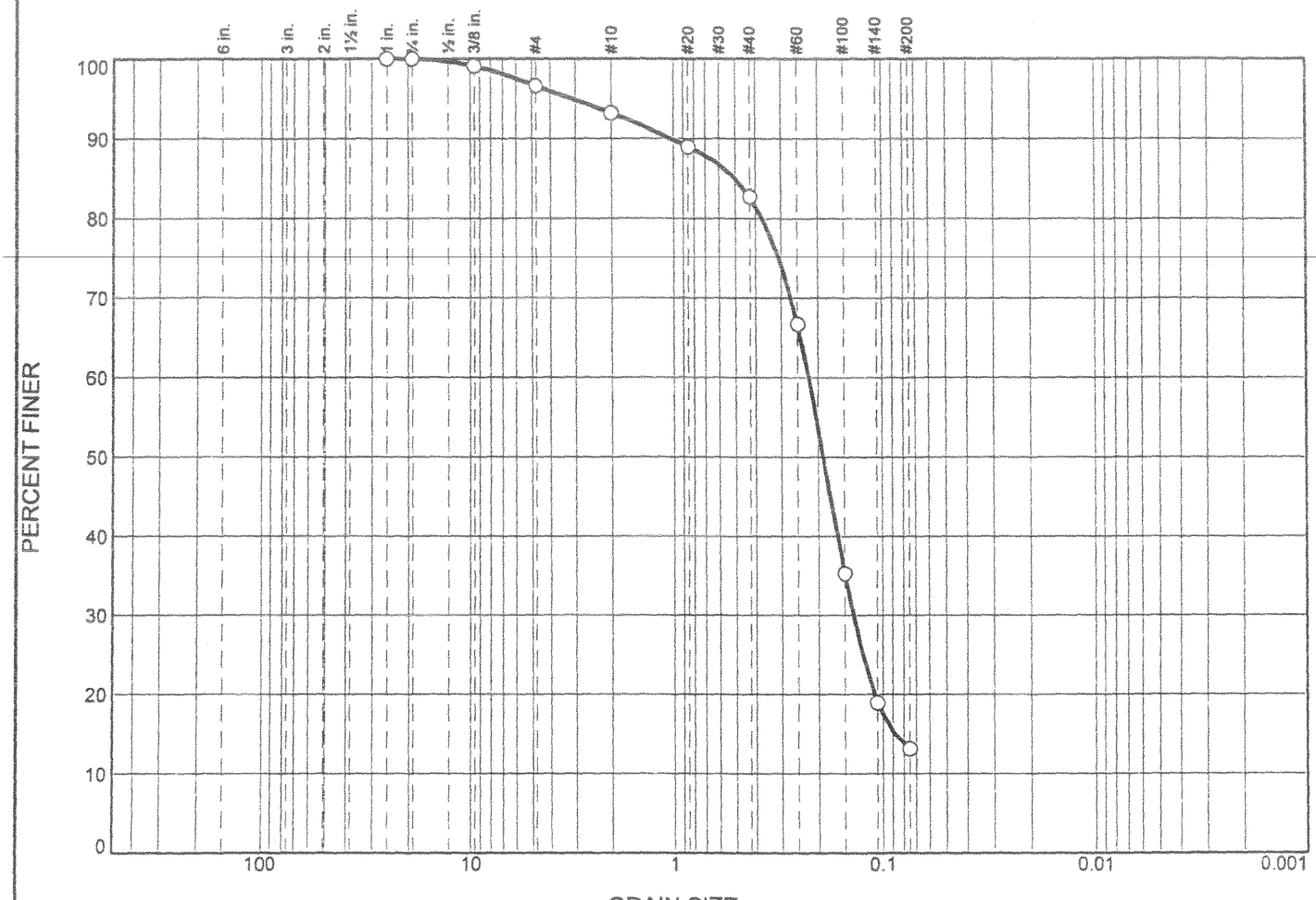
Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	3	4	10	70	13	

X	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.5005	0.2212	0.1887	0.1368	0.0883			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 70.0' **Sample Number:** 45

Date: ○

Remarks:
○ Moisture Content % 27.6 CP05-EAARS-CB-0256 @ 70.0'

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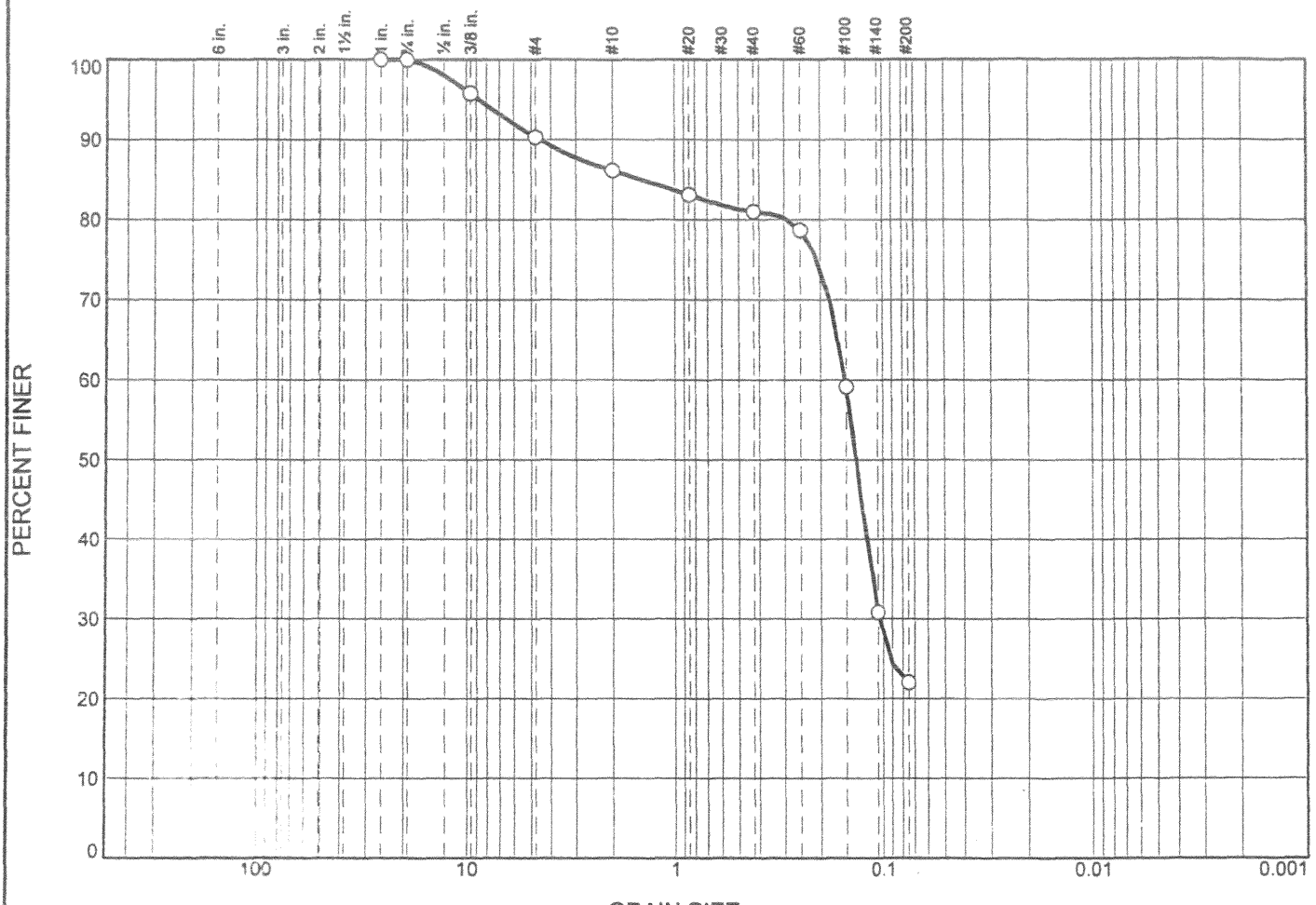
Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	10	4	5	59	22	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			1.4588	0.1516	0.1344	0.1044				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)

○ **Source of Sample:** CB-158 **Depth:** 38.5' **Sample Number:** 24

Date: ○

Remarks:

○ Moisture Content % 27.7 CP05-EAARS-CB-0256 @ 38.5'

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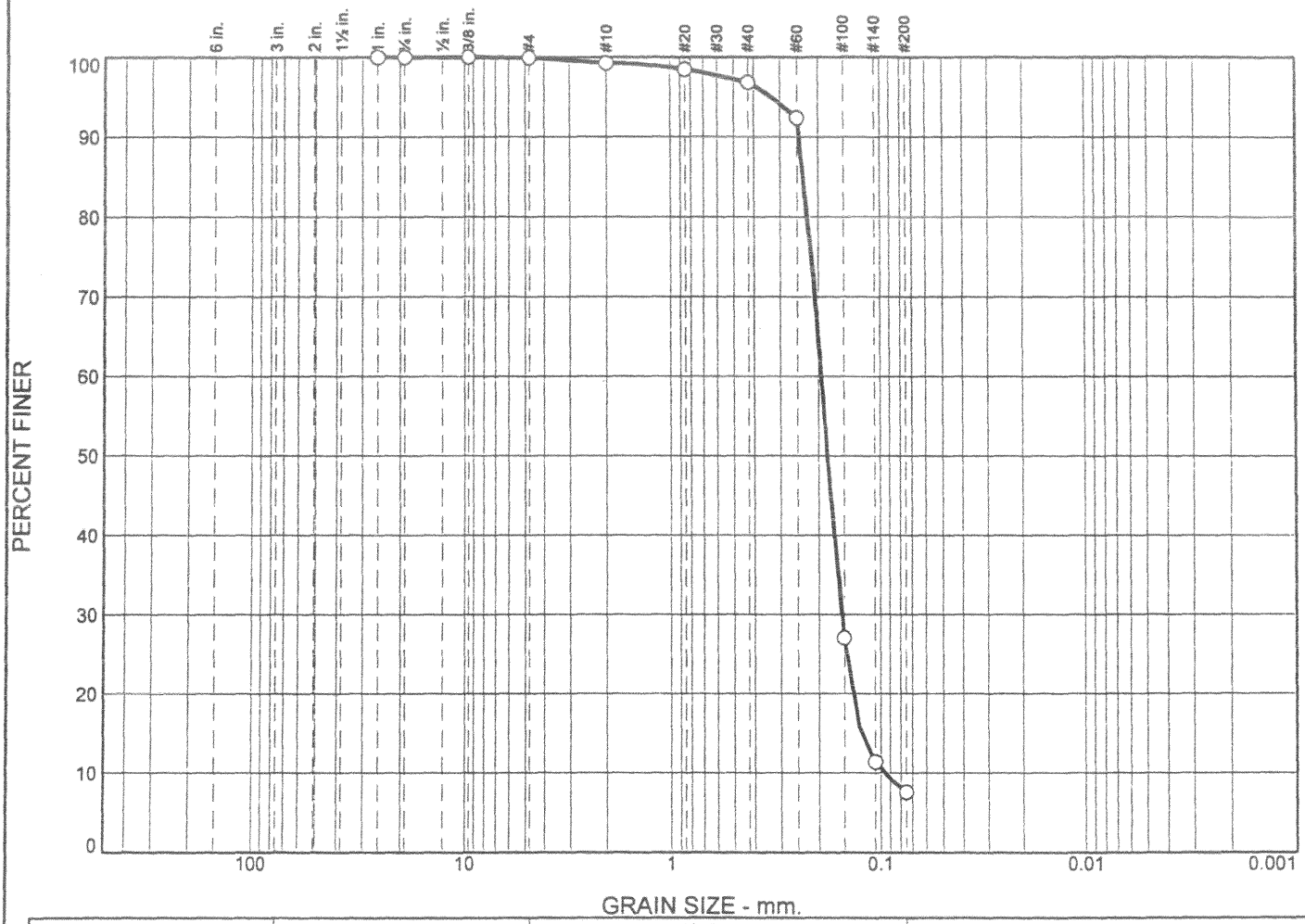
Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	1	2	89	8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2321	0.1930	0.1802	0.1544	0.1237	0.0959	1.29	2.01

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 44.5' **Sample Number:** 28

Date: ○

Remarks:
○ Moisture Content % 31.2 CP05-EAARS-CB-0256 @ 44.5'

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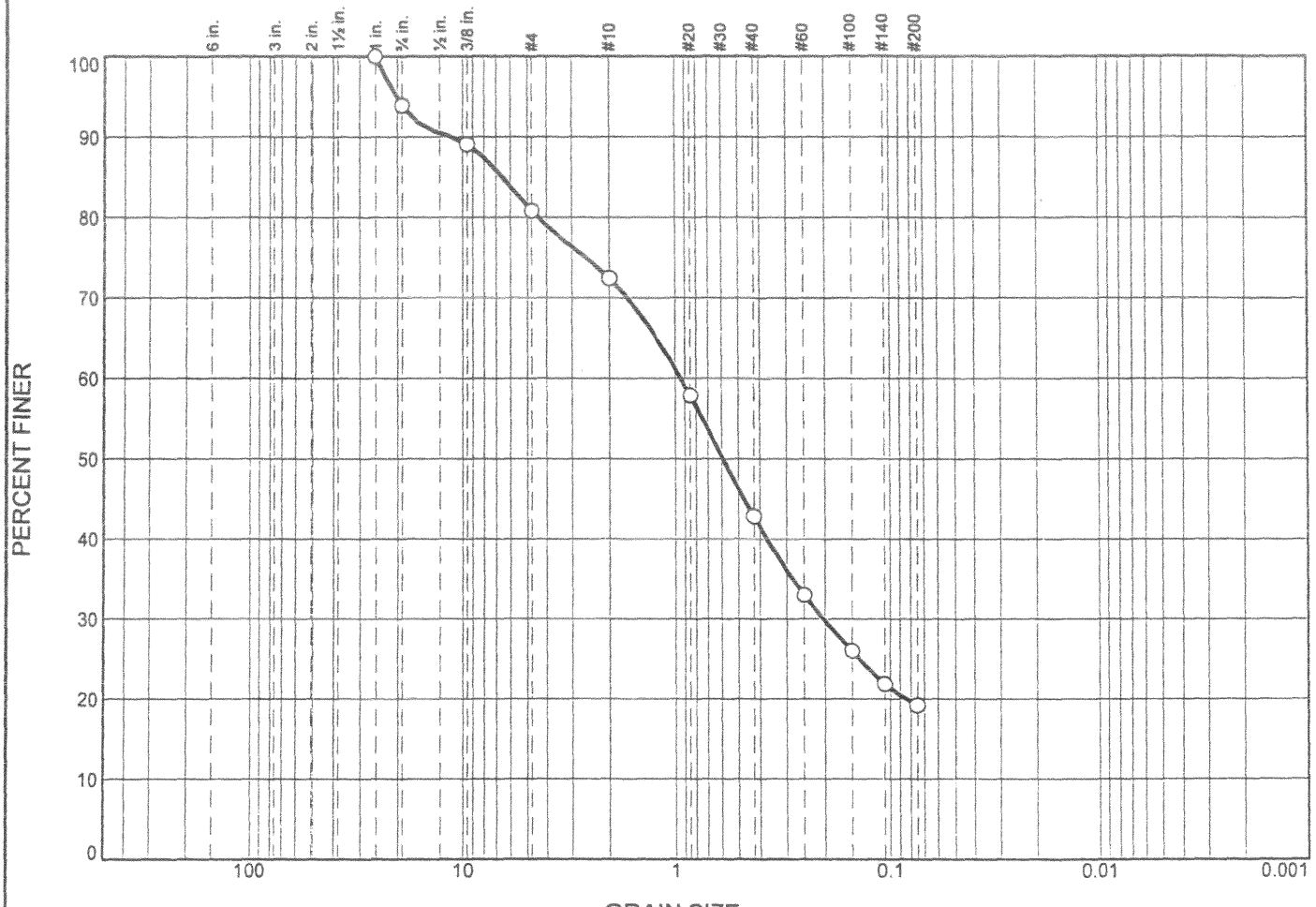
Miami Lakes, FL

Figure

Tested By: Pedro Carraraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	6	13	9	29	24	19	

☒	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			6.5563	0.9411	0.5912	0.2037				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 23.5' **Sample Number:** 14

Date: ○

Remarks:
○ Moisture Content % 29.3 CP05-EAARS-CB-0256 @ 23.5'

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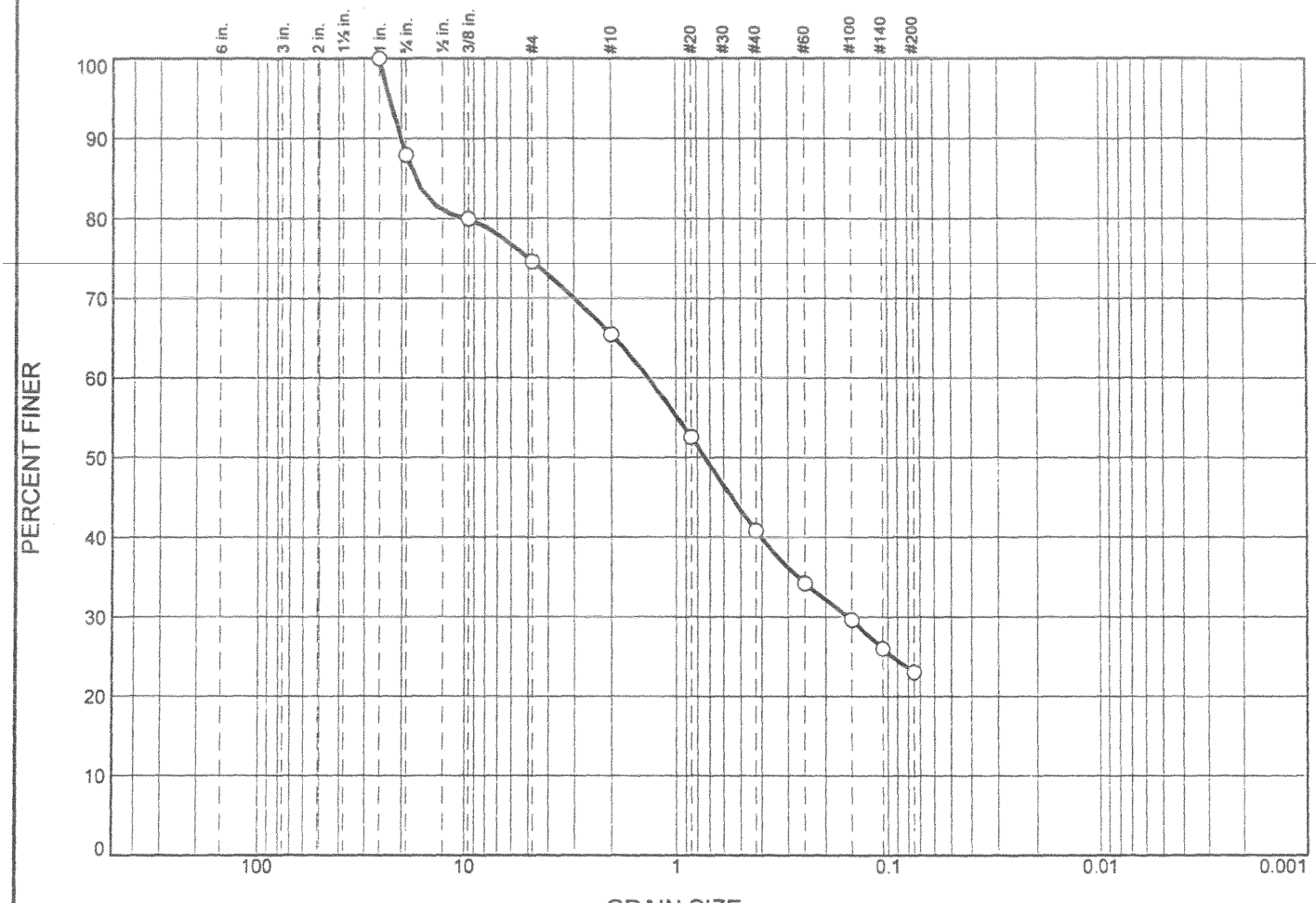
Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	12	13	10	24	18	23	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			17.0853	1.3499	0.7341	0.1557				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 21.5' **Sample Number:** 16

Date: ○

Remarks:
○ Moisture Content % 21.4 CP05-EAARS-CB-0256 @ 21.5'

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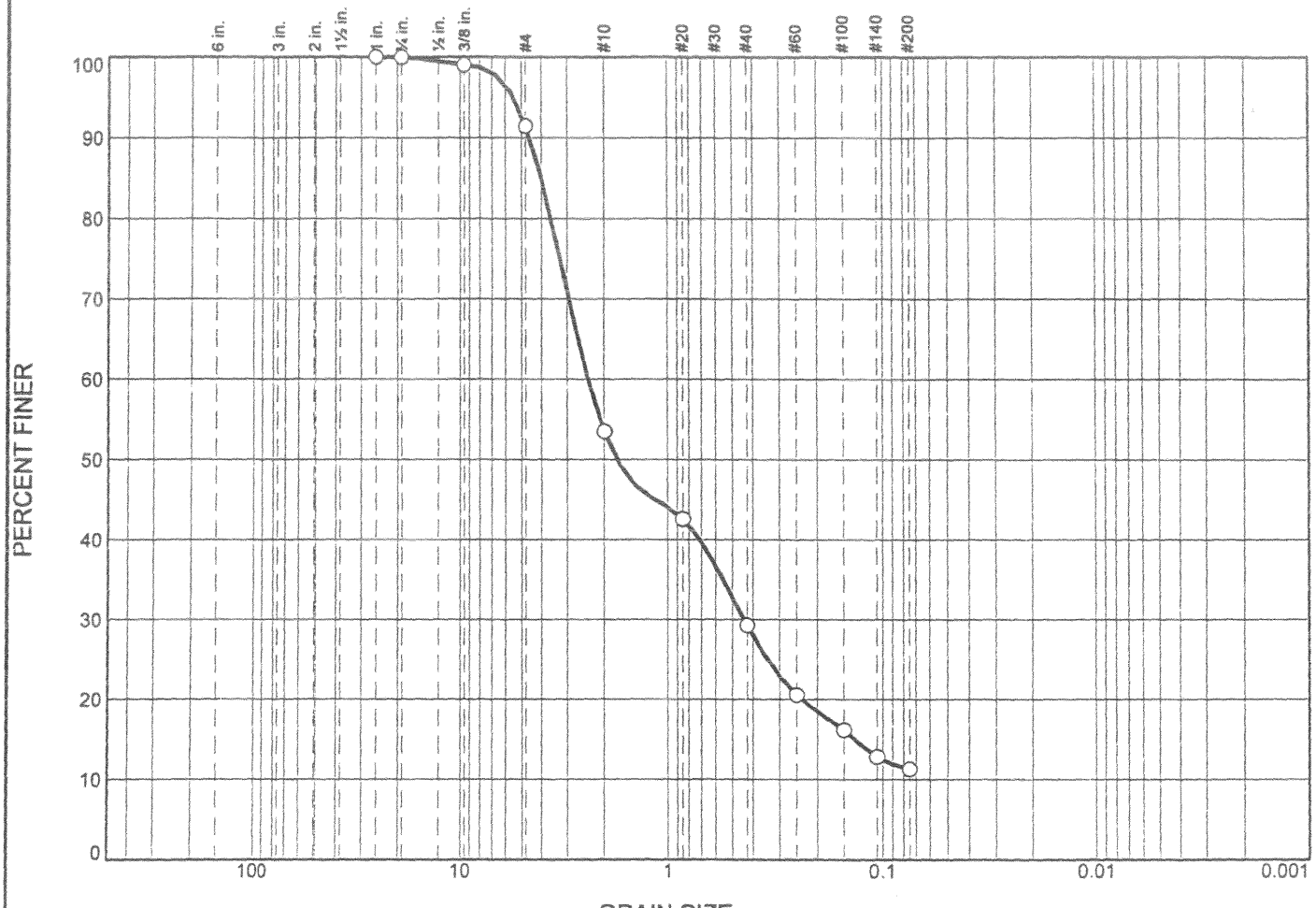
Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	9	38	24	18	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			3.9995	2.3726	1.7525	0.4401	0.1335			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)

○ **Source of Sample:** CB-158 **Depth:** 76.0' **Sample Number:** 49

Date: ○

Remarks:

○ Moisture Content % 27.5 CP05-EAARS-CB-0256 @ 76.0'

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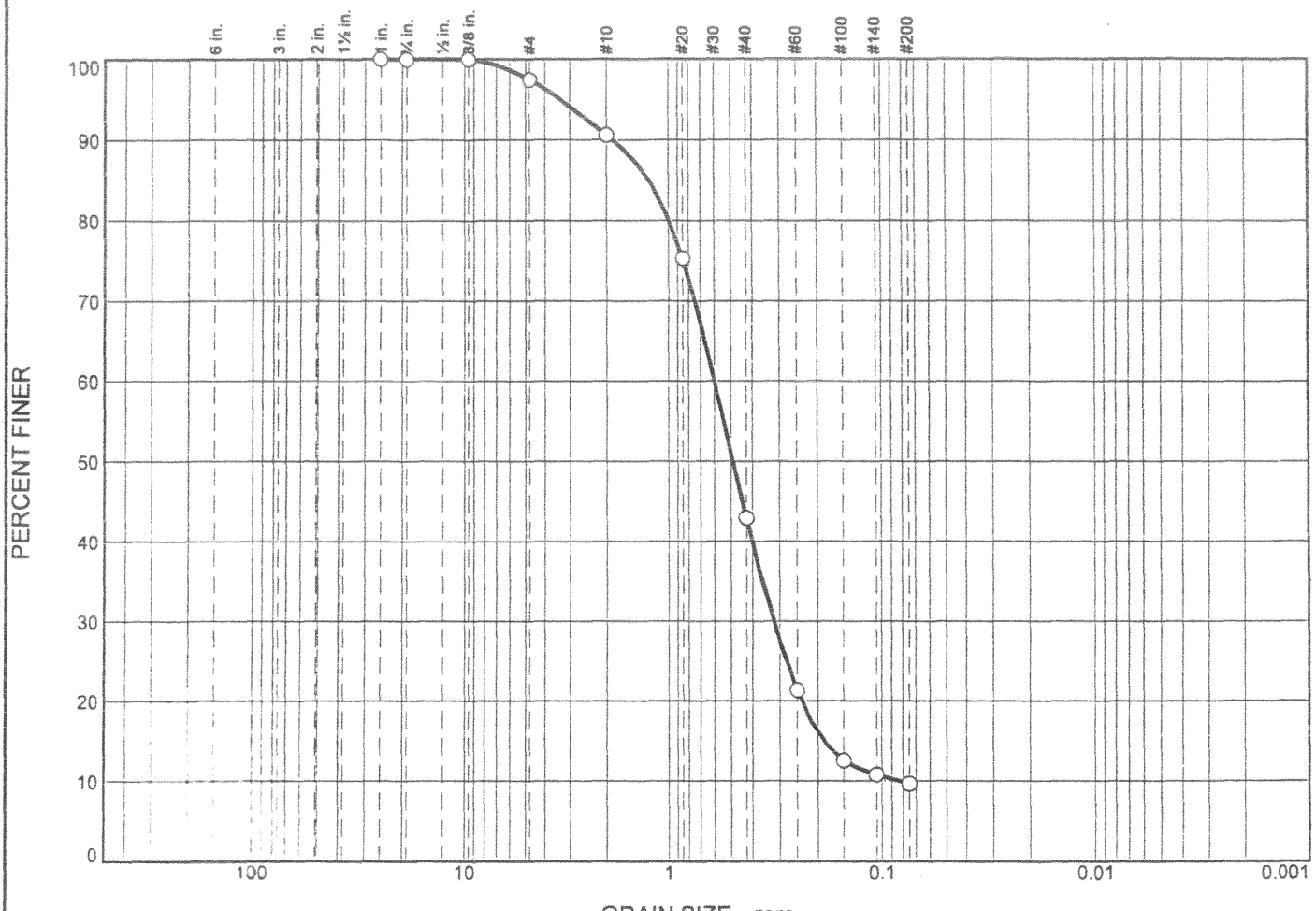
Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	3	6	48	33	10	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			1.2481	0.5969	0.4892	0.3196	0.1861	0.0836	2.05	7.14

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)

○ **Source of Sample:** CB-158 **Depth:** 80.5' **Sample Number:** 52

Date: ○

Remarks:

○ Moisture Content % 19.9 CP05-EAARS-CB-0256 @ 80.5'

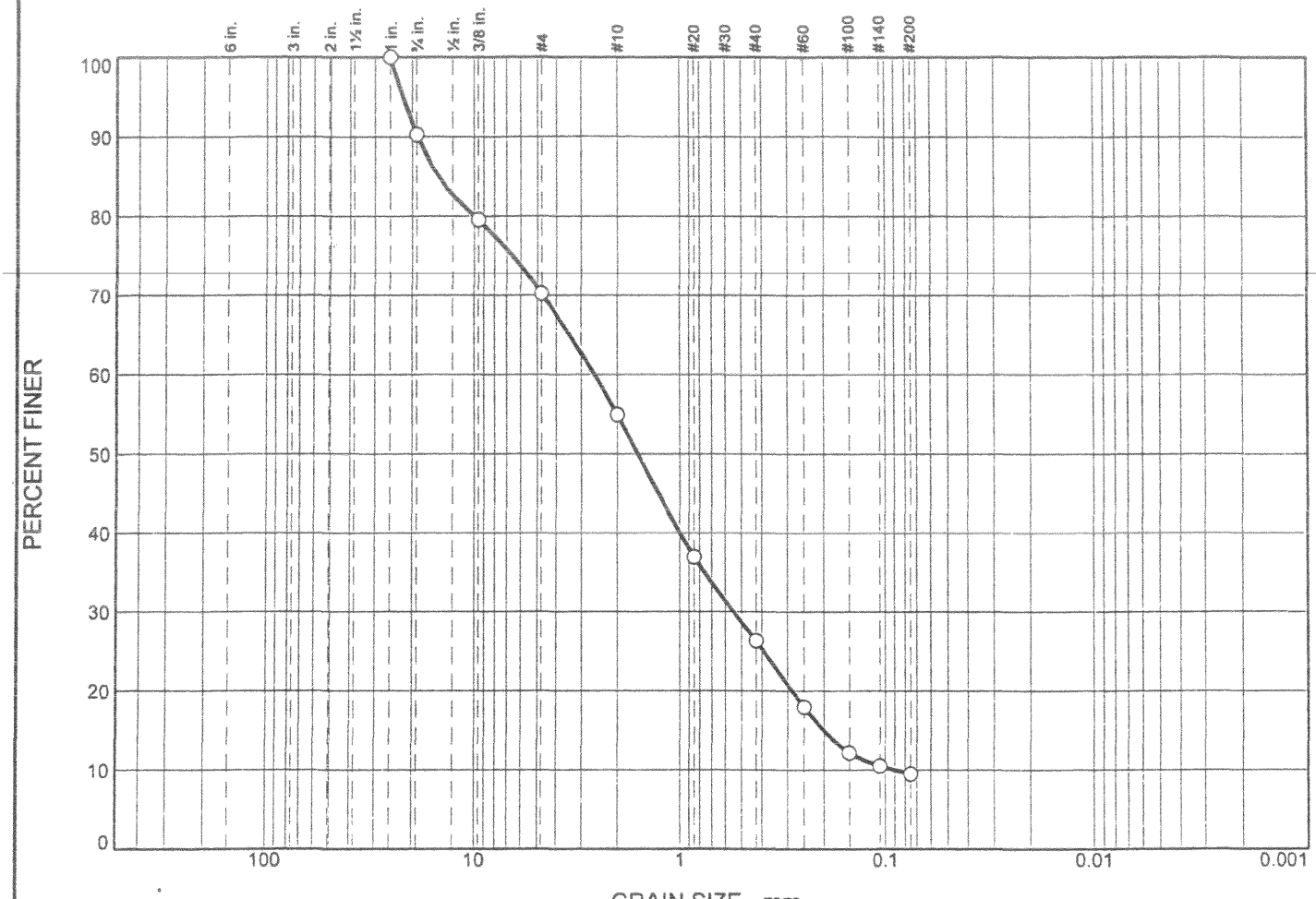
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	10	20	15	29	17	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			14.9592	2.5838	1.5875	0.5455	0.2004	0.0896	1.29	28.85

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 85.0' **Sample Number:** 55

Date: ○

Remarks:
○ Moisture Content % 26.2 CP05-EAARS-CB-0256 @ 85.0'

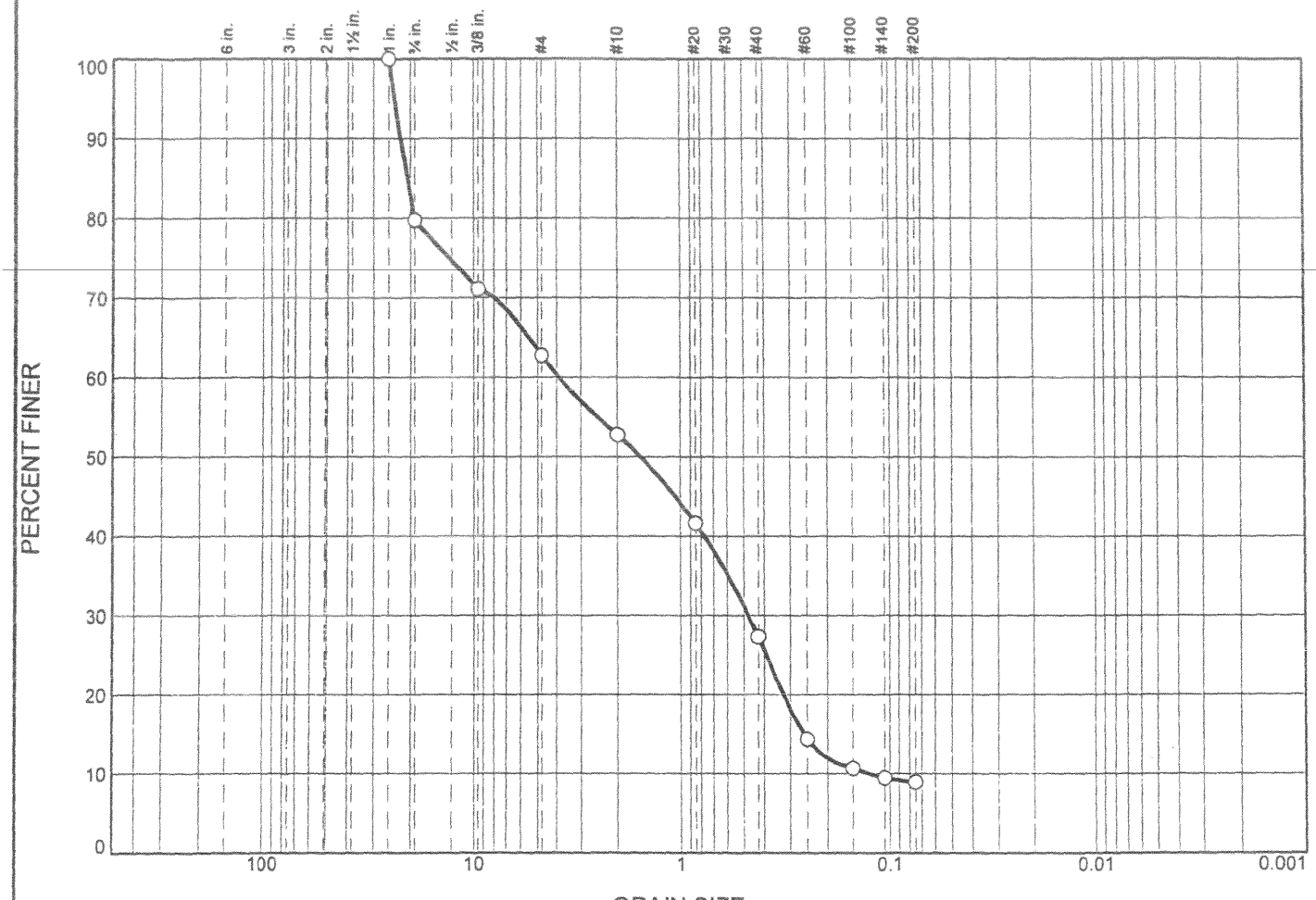
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	20	17	10	26	18	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			20.8086	3.8827	1.5585	0.4729	0.2594	0.1252	0.46	31.01

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 89.5' **Sample Number:** 58

Date: ○

Remarks:
○ Moisture Content % 26.2 CP05-EAARS-CB-0256 @ 85.0'

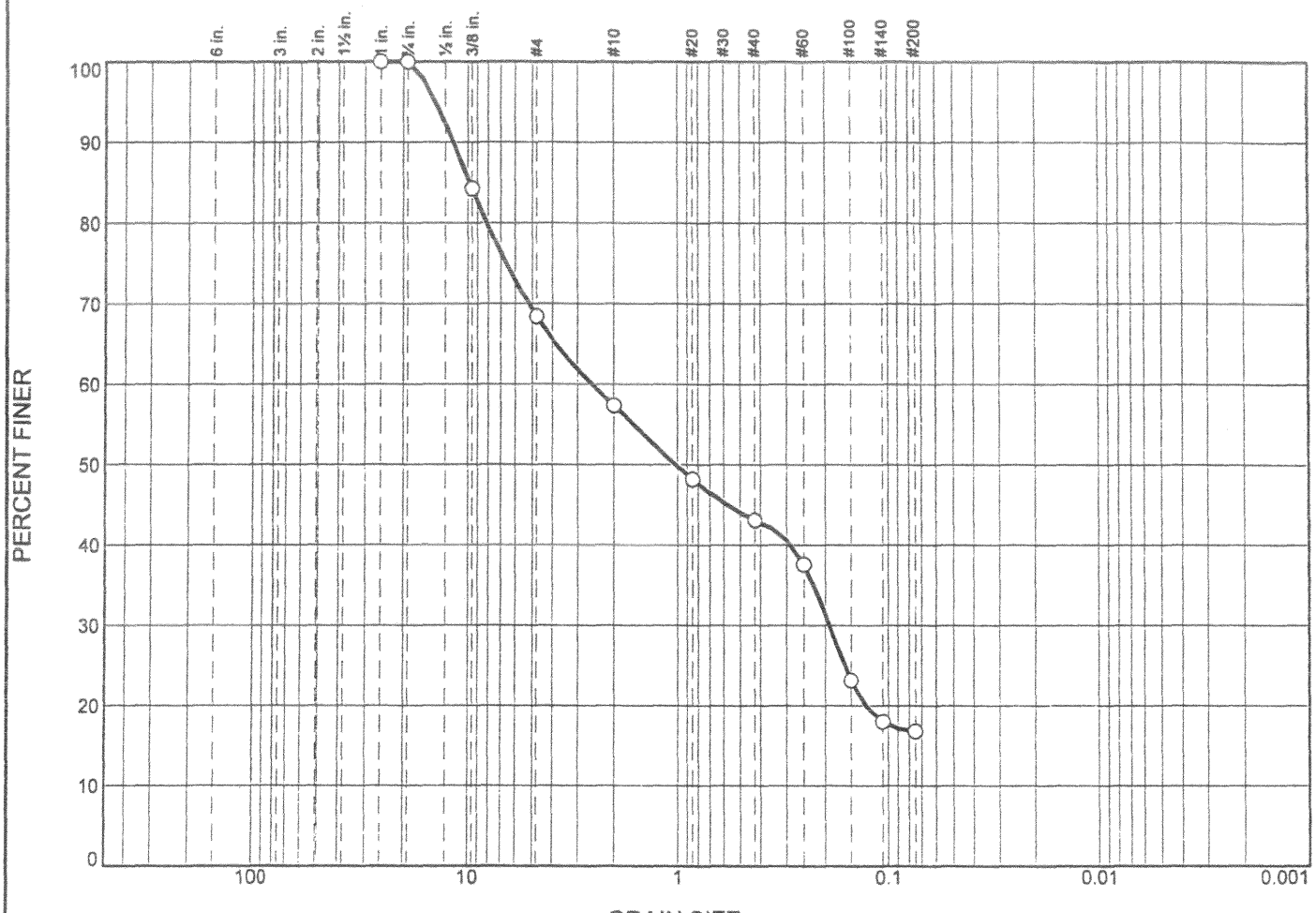
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	32	11	14	26	17	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			9.7706	2.5428	1.0211	0.1905				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 91.0' **Sample Number:** 59

Date: ○

Remarks:
○ Moisture Content % 21.1 CP05-EAARS-CB-0256 @ 91.0'

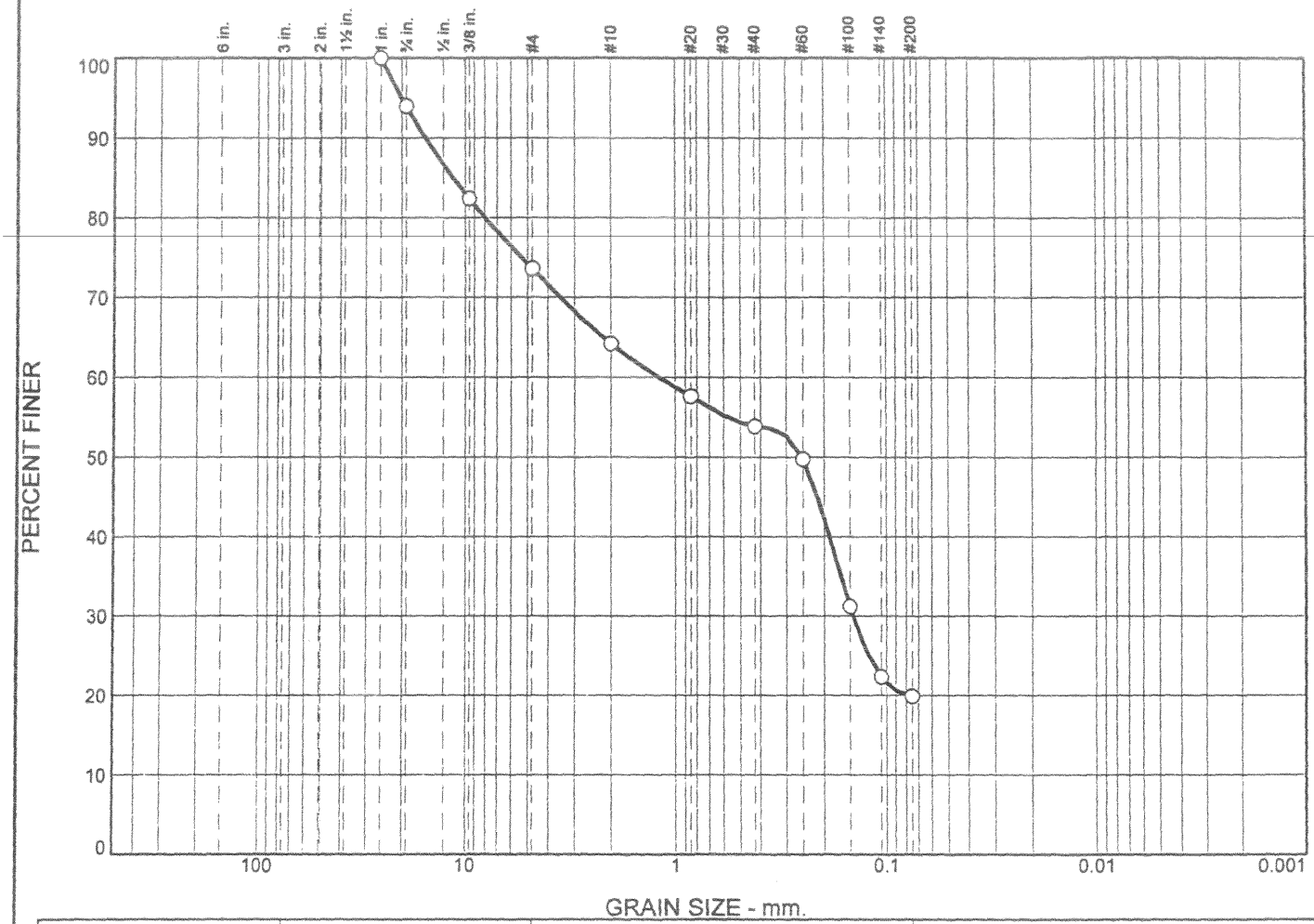
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	6	20	10	10	34	20	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			11.3755	1.1886	0.2525	0.1450				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)

○ **Source of Sample:** CB-158 **Depth:** 95.5' **Sample Number:** 62

Date: ○

Remarks:

○ Moisture Content % 19.3 CP05-EAARS-CB-0256 @ 95.5'

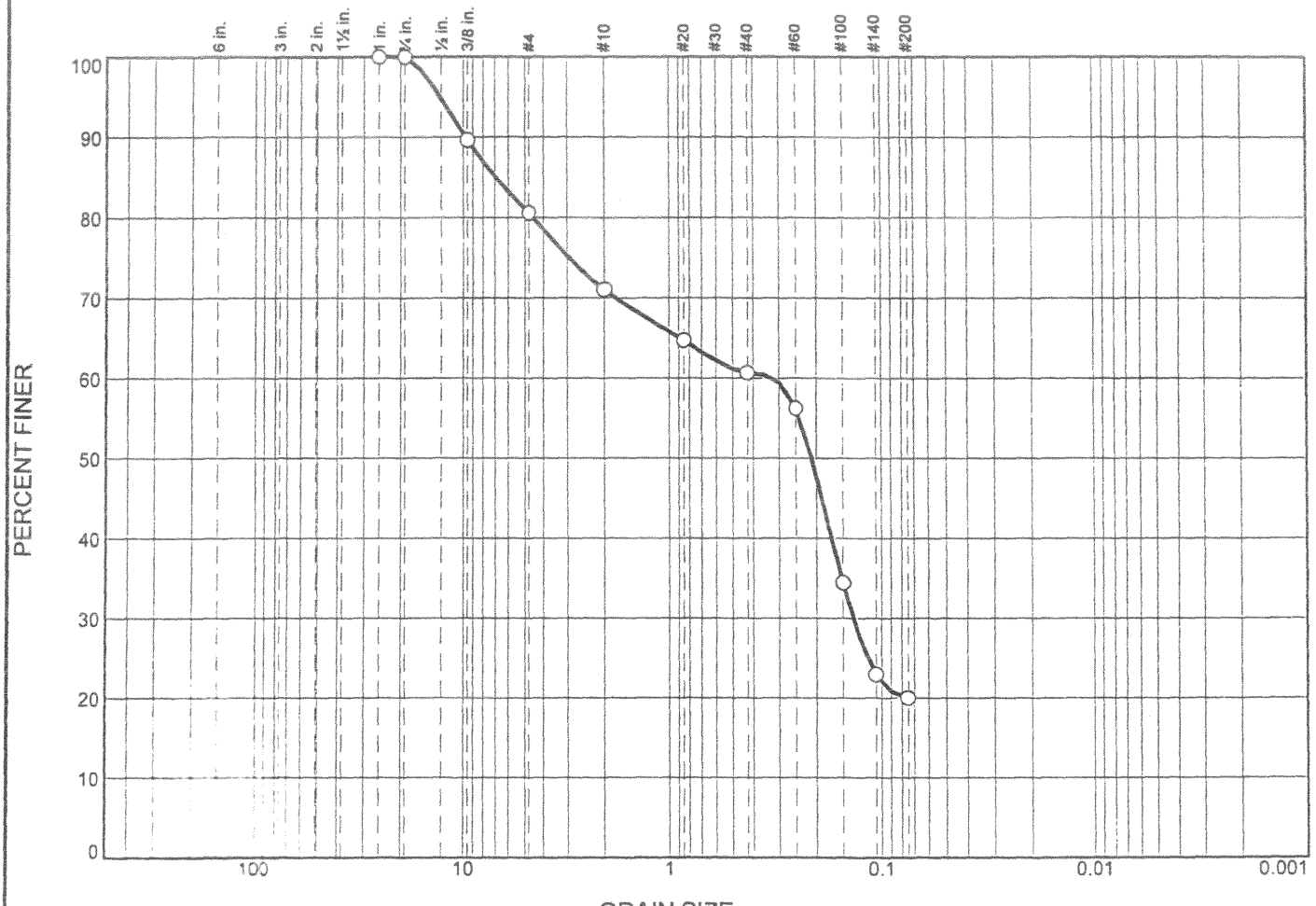
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Carraraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	19	10	10	41	20	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			6.9231	0.3181	0.2097	0.1346				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 98.5' **Sample Number:** 69

Date: ○

Remarks:
○ Moisture Content % 21.6 CP05-EAARS-CB-0256 @ 98.5'

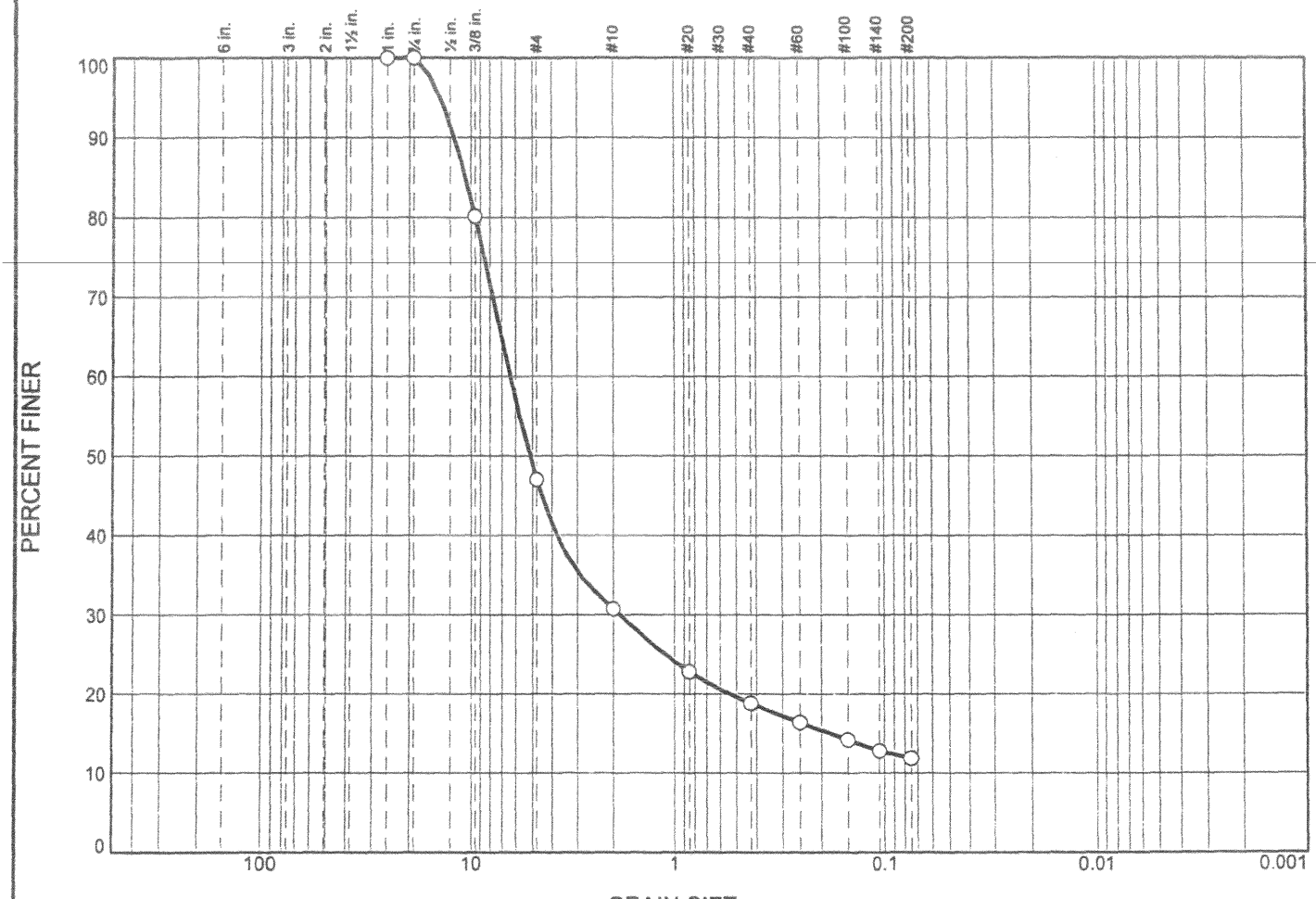
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Cesaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	53	16	12	7	12	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			10.6373	6.3584	5.1205	1.8548	0.1816			

Material Description	USCS	AASHTO
○ Poorly graded gravel with silt and sand	GP-GM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-158 **Depth:** 14.5' **Sample Number:** 8

Date: ○

Remarks:
○ Moisture Content % 62.9 CP05-EAARS-CB-0256 @ 14.5'

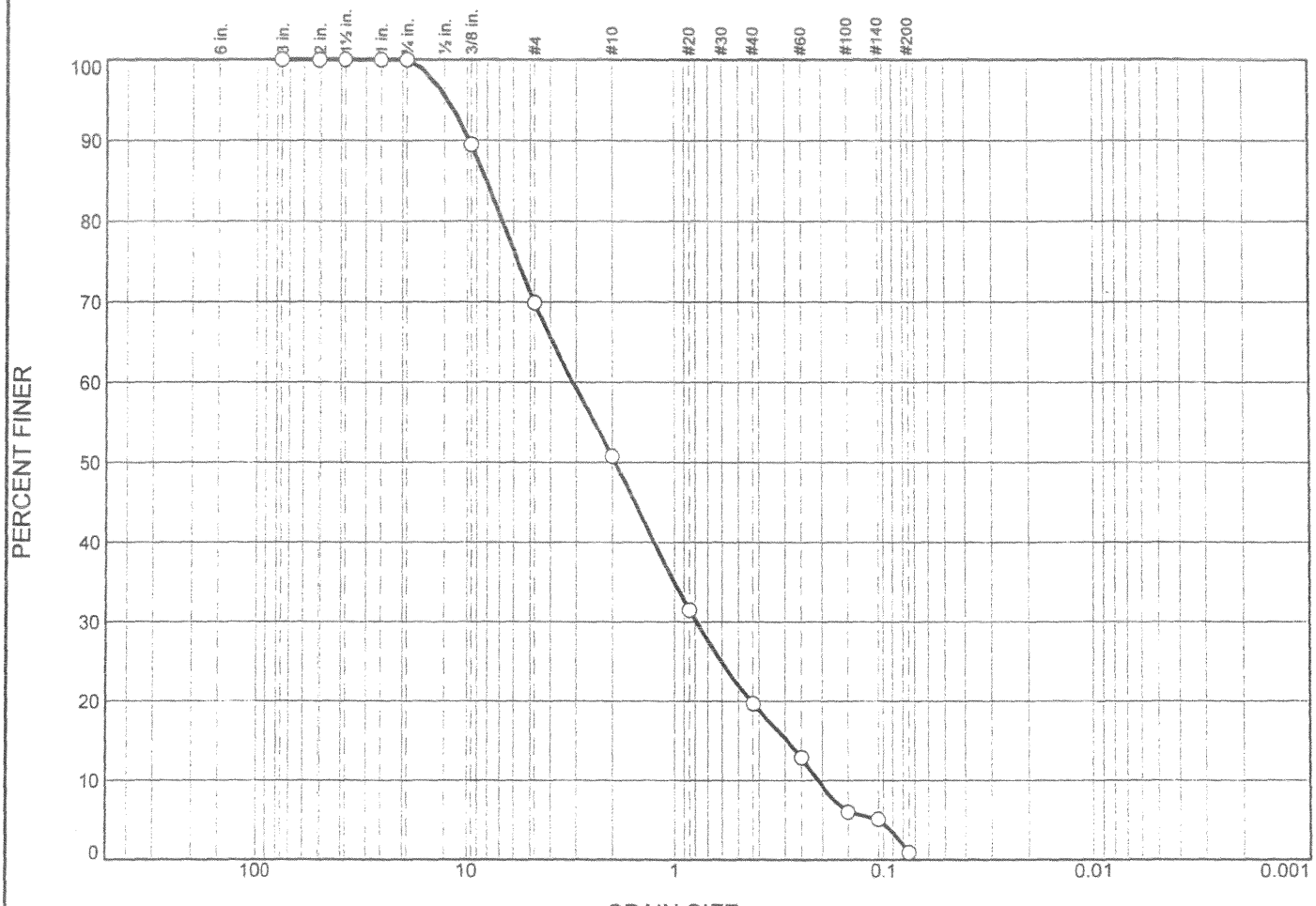
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	30.1	19.1	31.1	18.8	0.9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			8.0475	3.1055	1.9281	0.7896	0.2908	0.2084	0.96	14.90

Material Description	USCS	AASHTO
○ WELL GRADED SAND WITH GRAVEL	SW	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A(Reservoir) W/O #4

○ **Depth:** 4.5-9.5' **Sample Number:** CB-0168

Remarks:
○ Moisture Content % 13 CP05-EAARS-CB-0256 @ 4.5'-9.5'

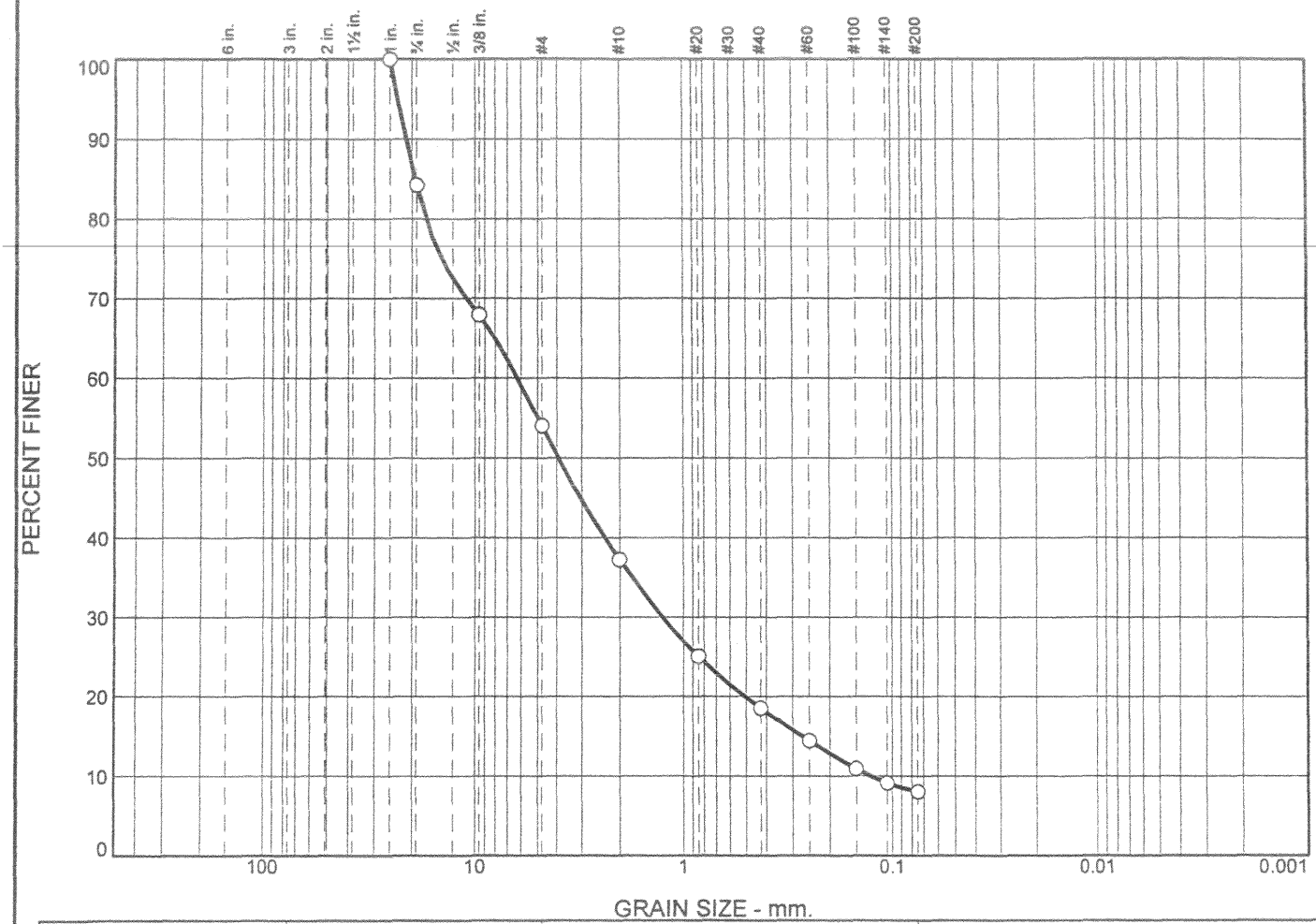
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Camaraza **Checked By:** M Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	16	30	17	18	11	8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			19.3721	6.2672	3.9118	1.2546	0.2694	0.1274	1.97	49.20

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 5.5' **Sample Number:** 3

Date: ○

Remarks:
○ Moisture Content % 13.4
CP05-EAARS-CB-0266

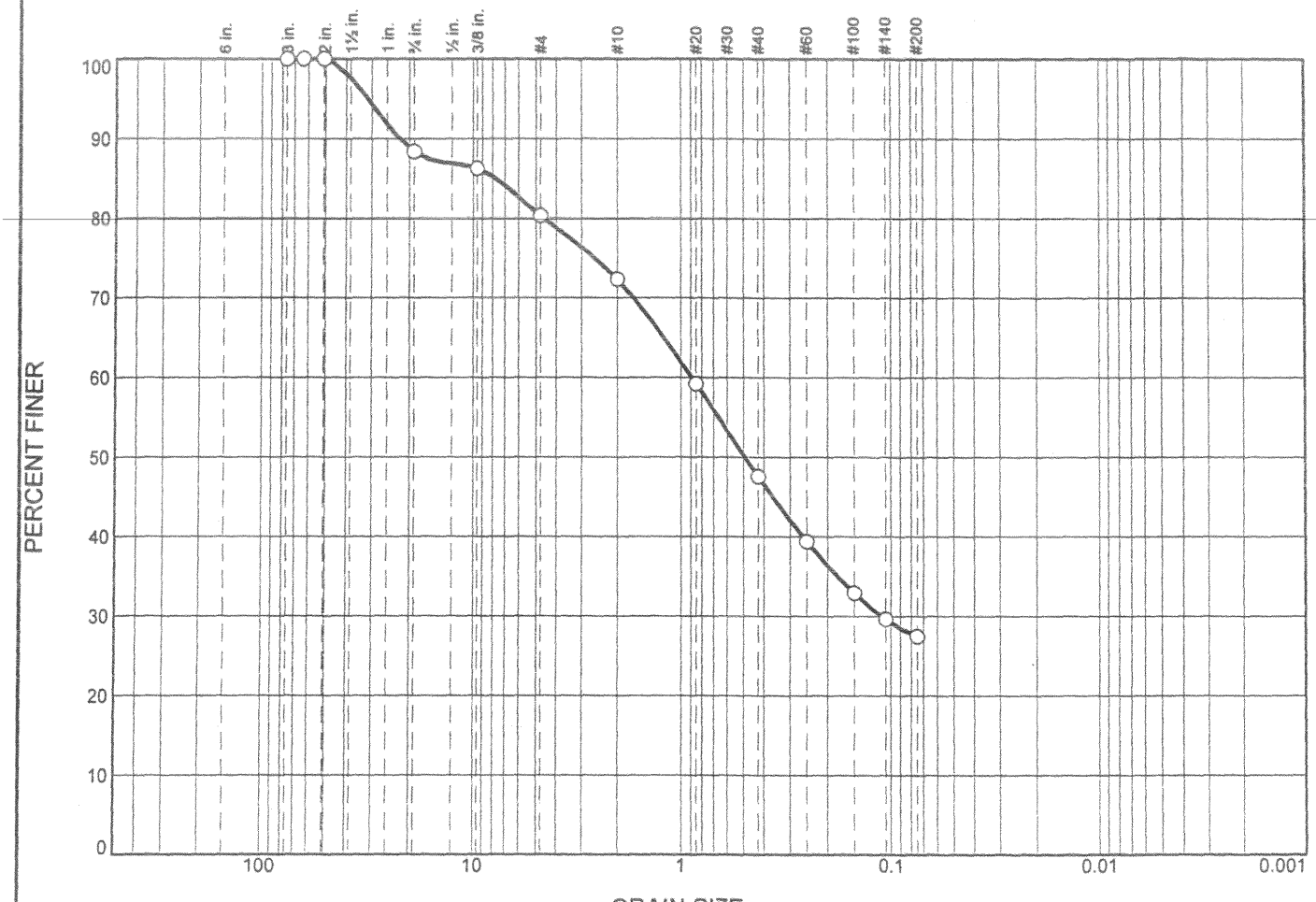
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	12	8	8	24	21	27	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			7.7404	0.8895	0.4916	0.1110				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 11.5' **Sample Number:** 7

Date: ○

Remarks:
○ Moisture Content % 24.0
CP05-EAARS-CB-0266

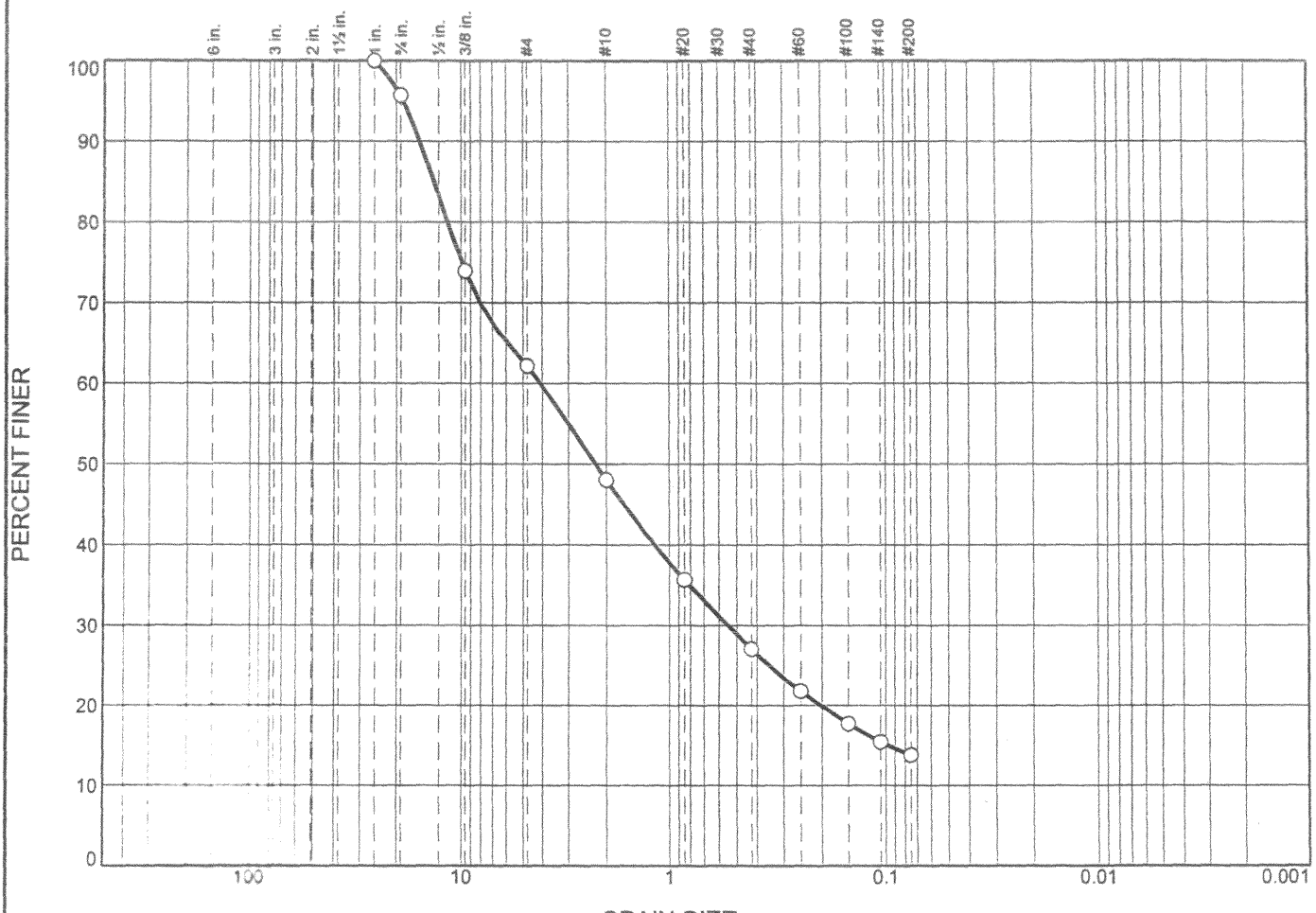
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	4	34	14	21	13	14	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			13.3363	4.0871	2.2470	0.5460	0.0976			

Material Description	USCS	AASHTO
○ Well graded sand with silt gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 14.5' **Sample Number:** 9

Date: ○

Remarks:
○ Moisture Content % 34.3 CP05-EAARS-CB-0266

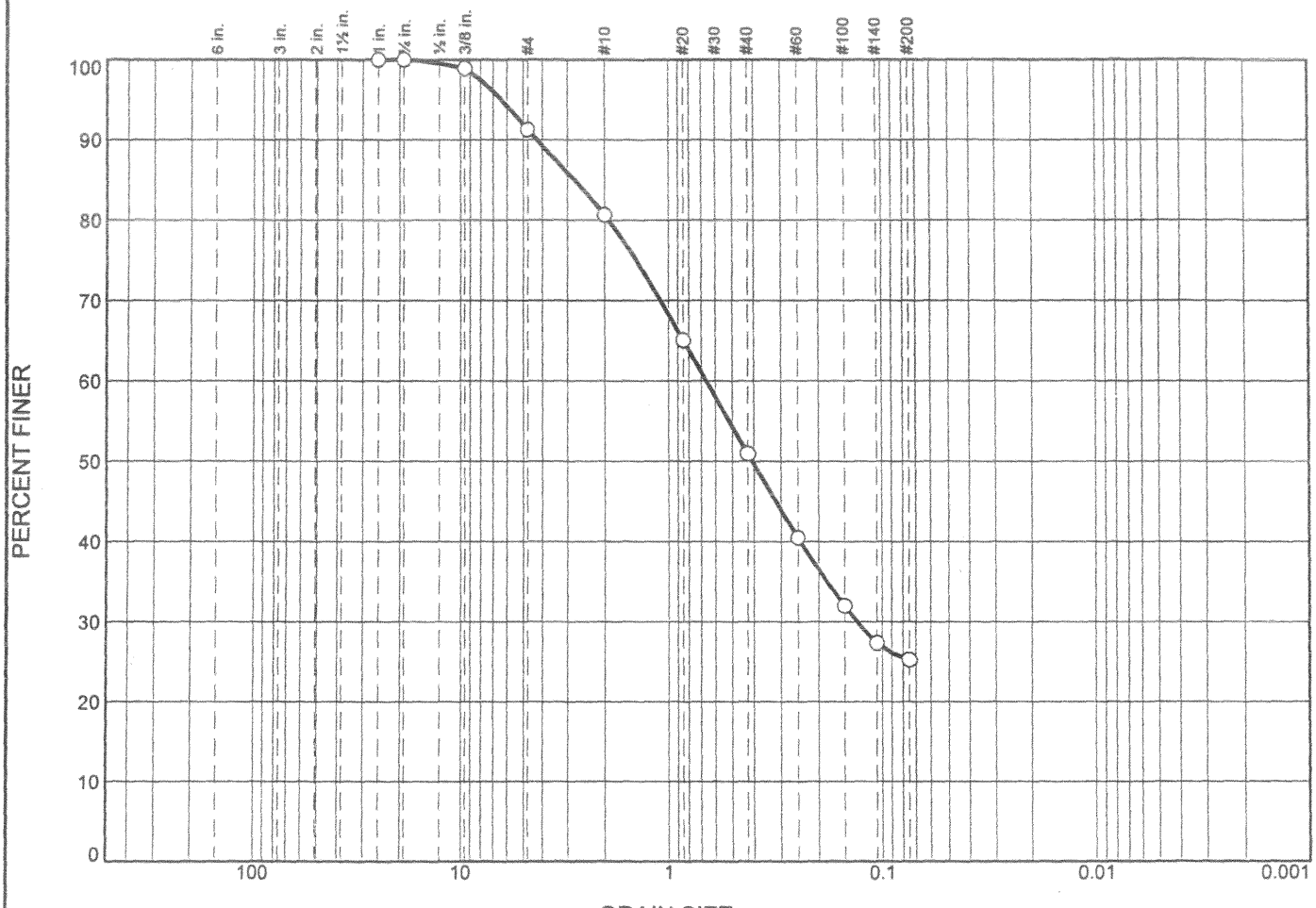
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	9	10	30	26	25	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.7798	0.6608	0.4050	0.1312				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 16.0' **Sample Number:** 10

Date: ○

Remarks:
○ Moisture Content % 36.2
CP05-EAARS-CB-0266

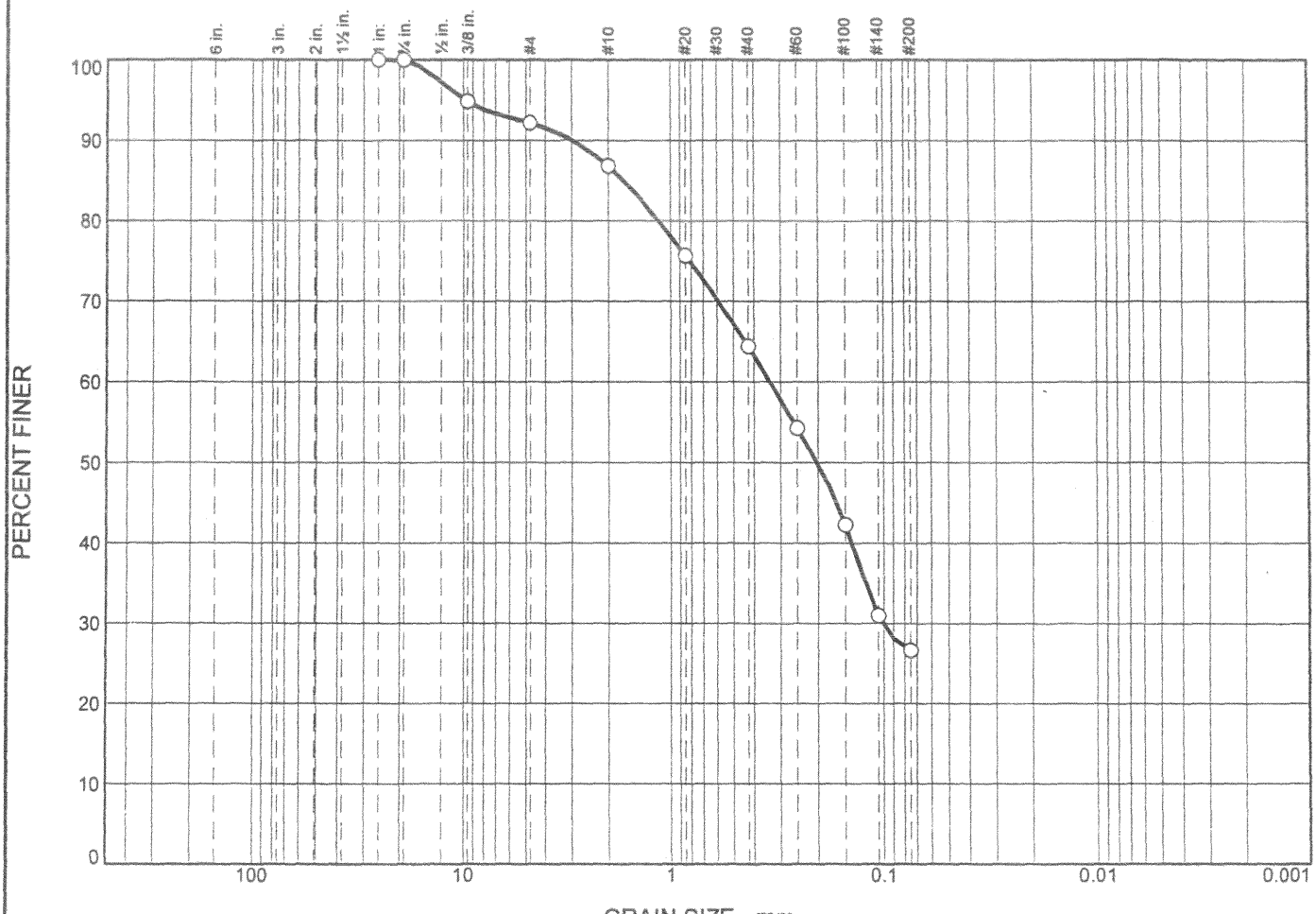
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	8	5	23	37	27	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			1.6852	0.3360	0.2016	0.1011				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 20.5' **Sample Number:** 13

Date: ○

Remarks:
○ Moisture Content % 27.5
CP05-EAARS-CB-0266

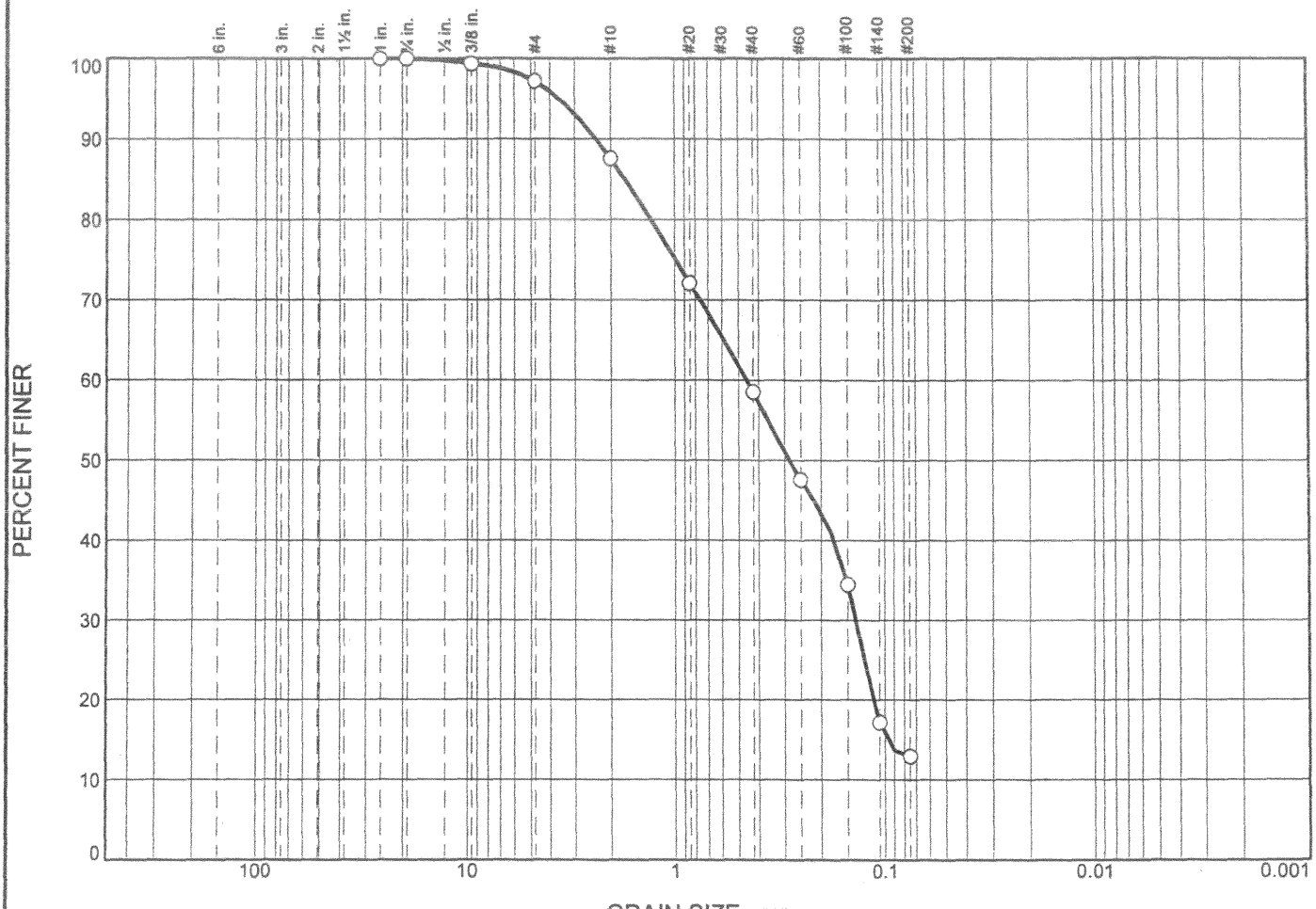
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	3	9	29	46	13	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			1.7068	0.4558	0.2839	0.1373	0.0979			

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 26.5' **Sample Number:** 17

Date: ○

Remarks:
○ Moisture Content % 22.0 CP05-EAARS-CB-0266

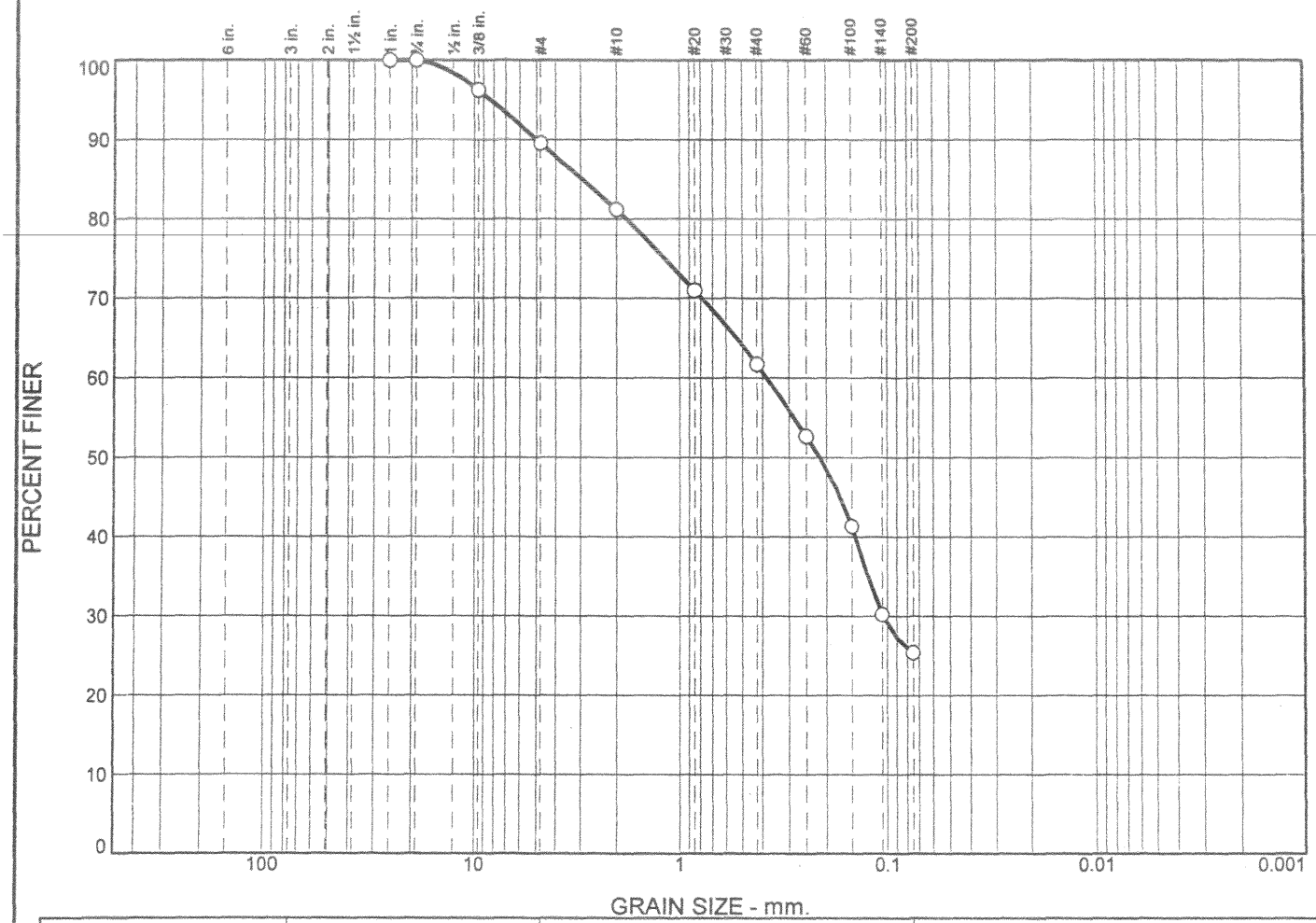
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	10	9	19	37	25	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.9309	0.3809	0.2156	0.1050				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 31.0' **Sample Number:** 20

Date: ○

Remarks:
○ Moisture Content % 22.0 CP05-EAARS-CB-0266

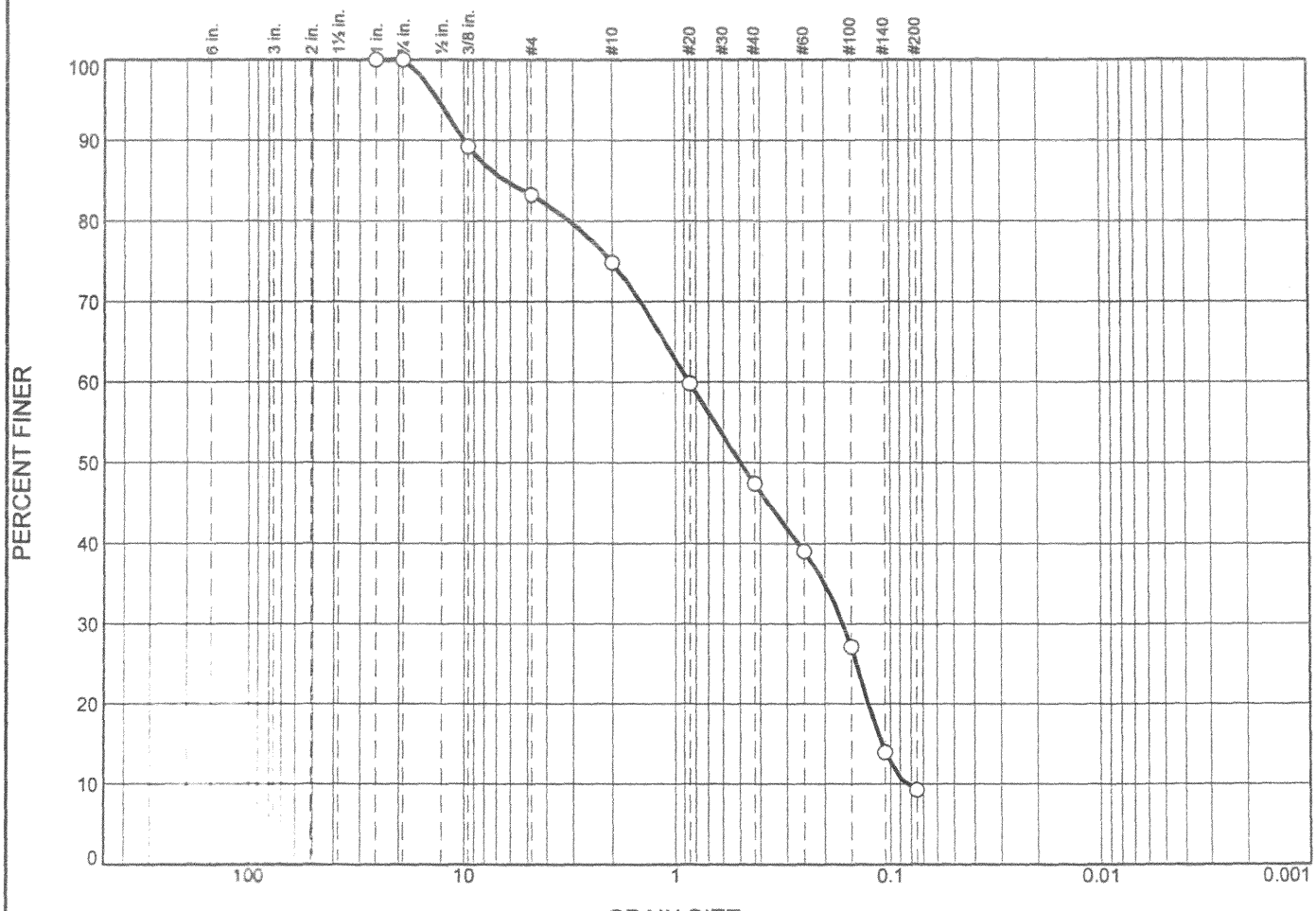
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	17	8	28	38	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			6.3126	0.8590	0.4962	0.1634	0.1098	0.0835	0.37	10.28

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 37.0' **Sample Number:** 24

Date: ○

Remarks:
○ Moisture Content % 26.6
CP05-EAARS-CB-0266

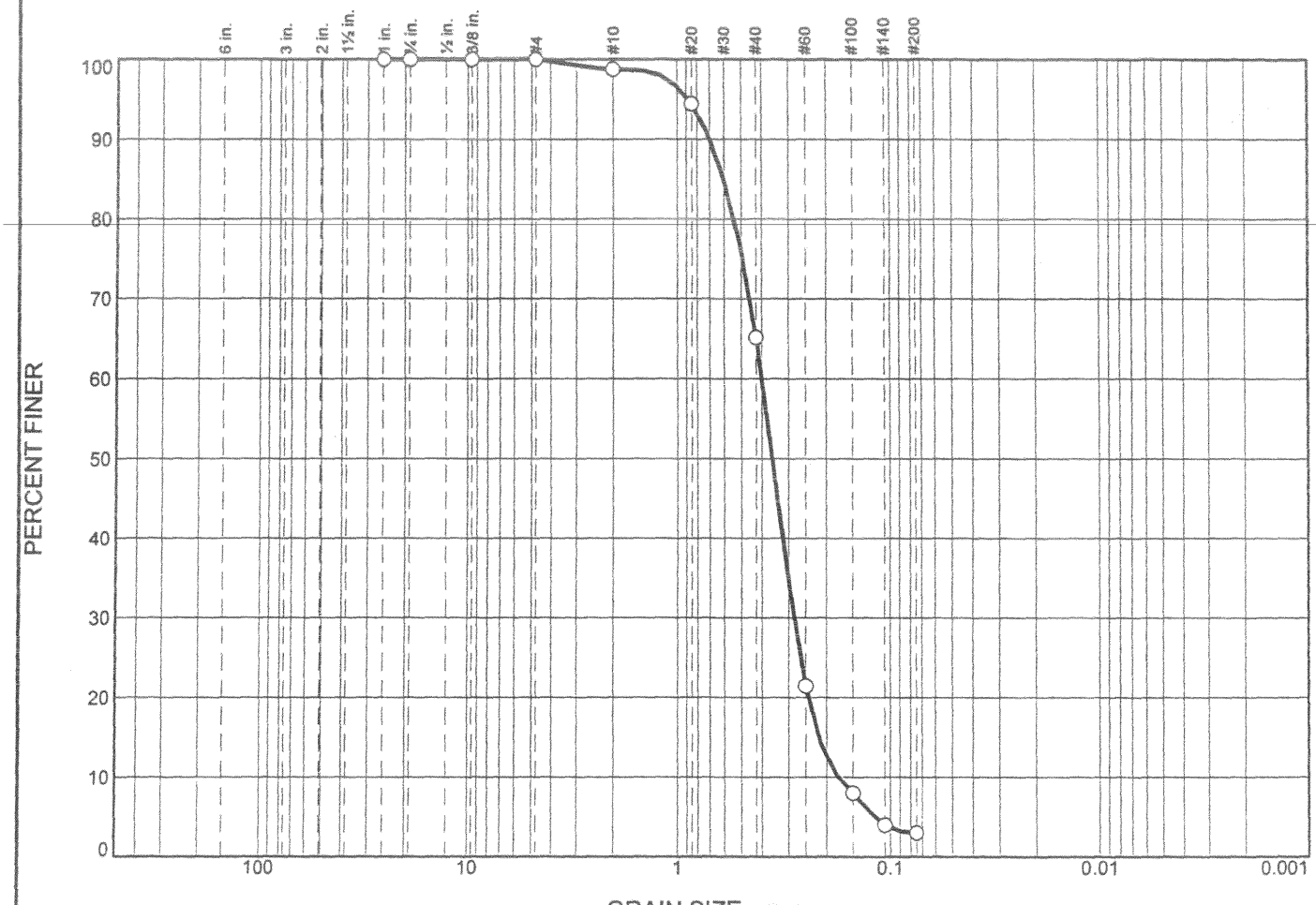
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	1	34	62	3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.6013	0.3988	0.3559	0.2827	0.2173	0.1756	1.14	2.27

Material Description	USCS	AASHTO
○ Poorly graded sand	SP	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 44.5' **Sample Number:** 29

Date: ○

Remarks:
○ Moisture Content % 24.9
CP05-EAARS-CB-0266

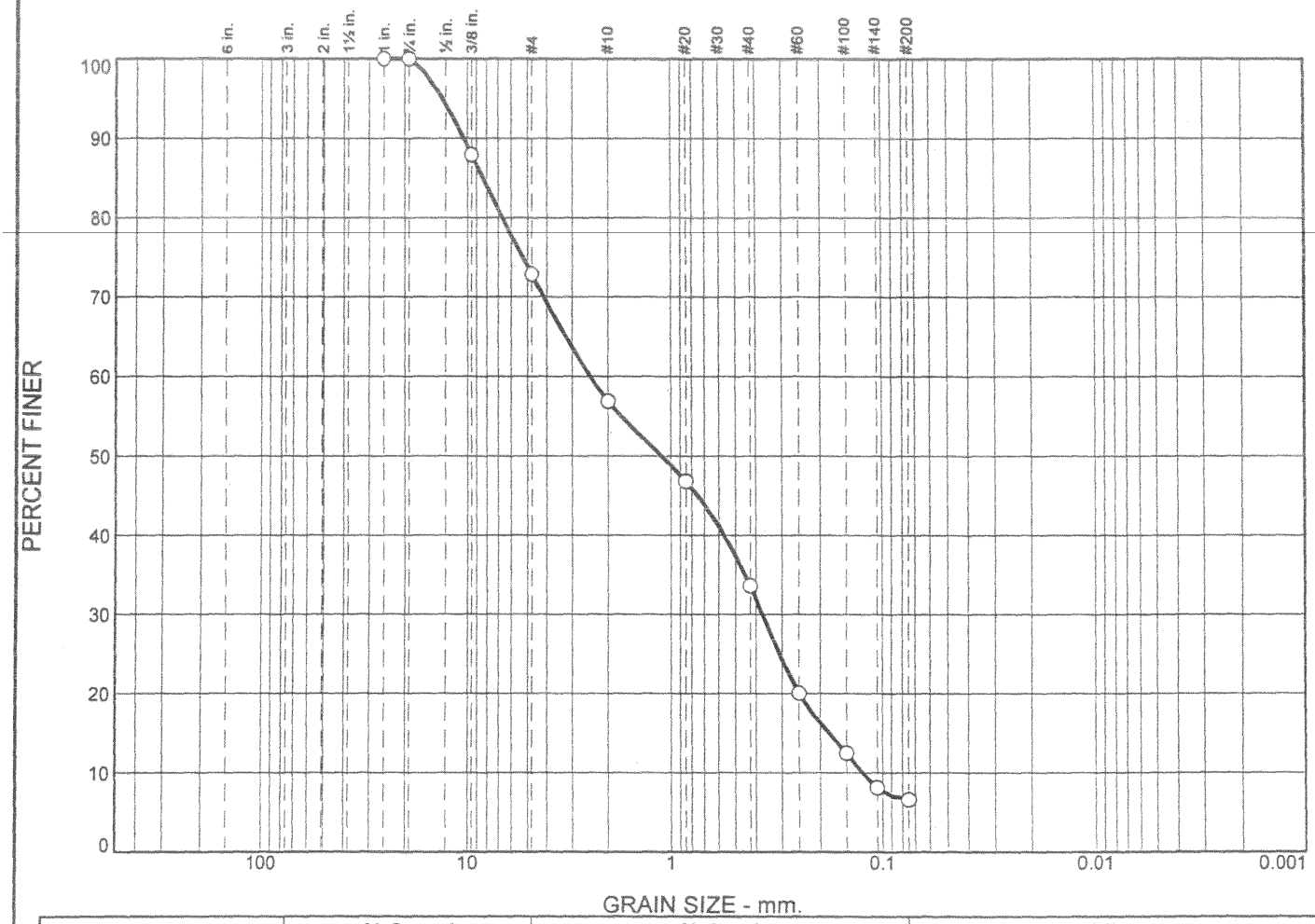
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	27	16	23	27	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			8.3569	2.4481	1.1035	0.3709	0.1820	0.1251	0.45	19.58

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 49.0' **Sample Number:** 32

Date: ○

Remarks:
○ Moisture Content % 20.9
CP05-EAARS-CB-0266

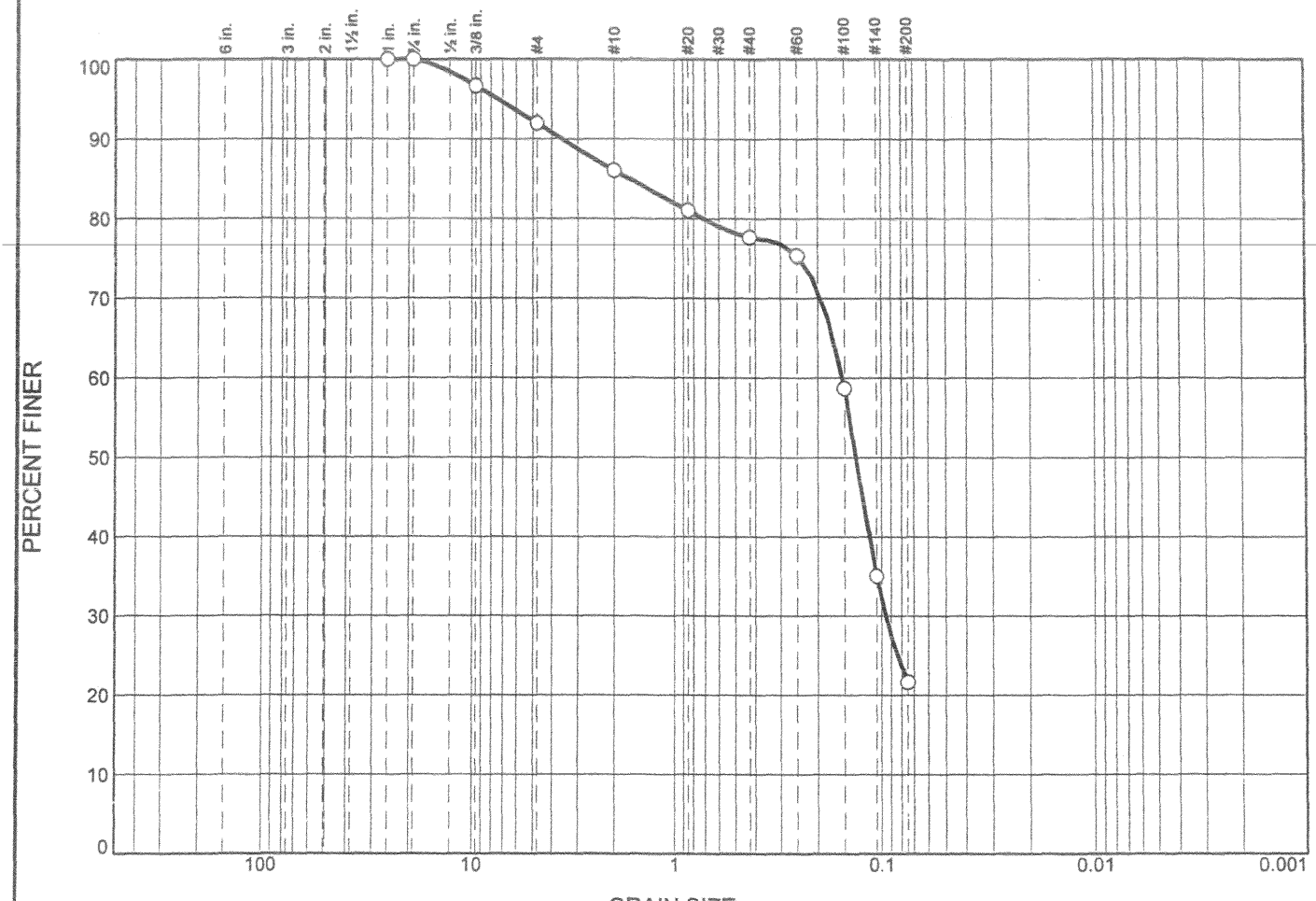
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Eduardo Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	8	6	8	56	22	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			1.6787	0.1533	0.1319	0.0959				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 55.0' **Sample Number:** 36

Date: ○

Remarks:
○ Moisture Content % 30.4
CP05-EAARS-CB-0266

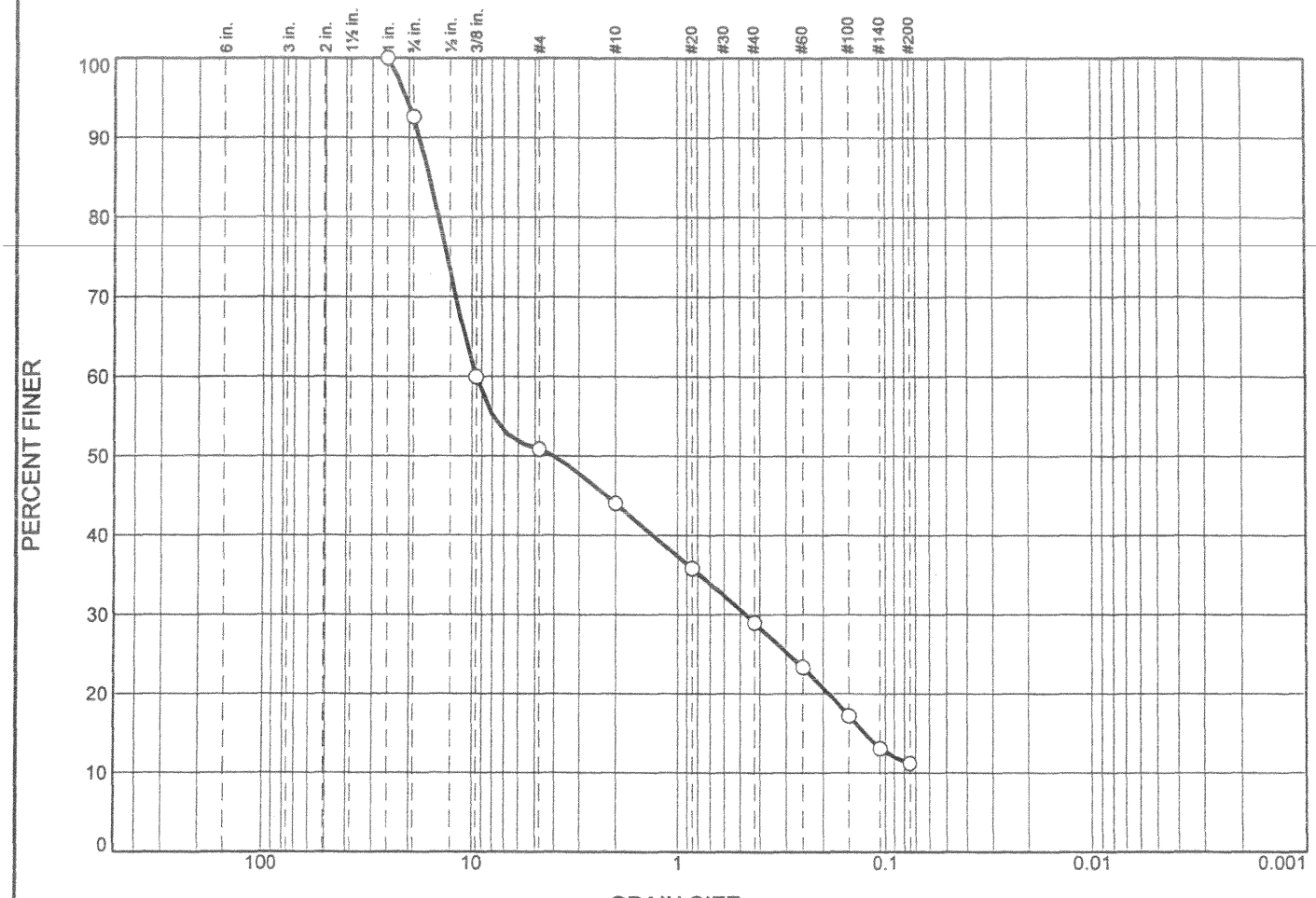
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pablo Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	7	42	7	15	18	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			15.9470	9.5331	4.0274	0.4704	0.1263			

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 61.0' **Sample Number:** 40

Date: ○

Remarks:
○ Moisture Content % 29.9
CP05-EAARS-CB-0266

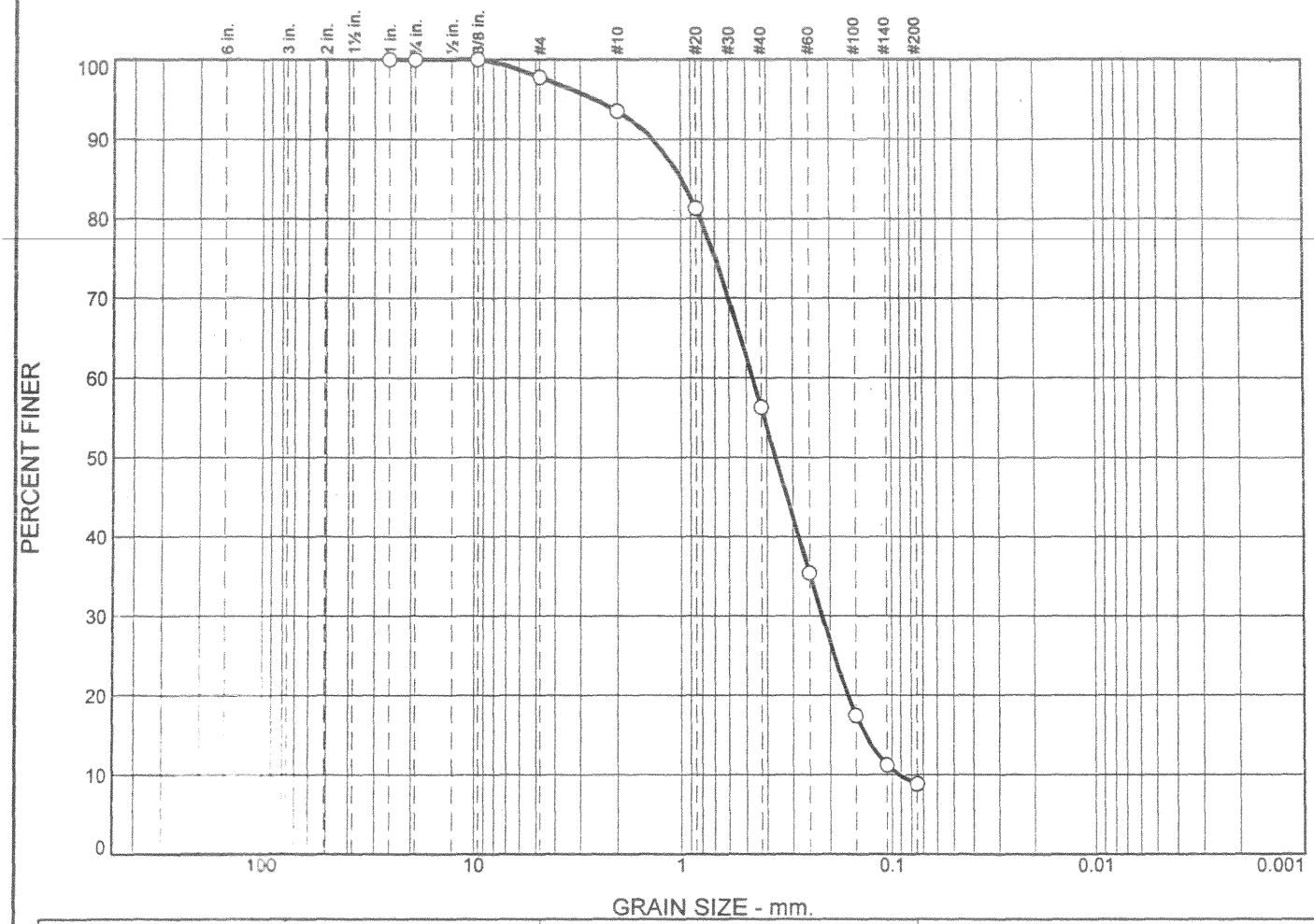
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pablo Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	2	4	38	47	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.9915	0.4660	0.3624	0.2177	0.1352	0.0926	1.10	5.03

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 65.5' **Sample Number:** 43

Date: ○

Remarks:
○ Moisture Content % 21.6
CP05-EAARS-CB-0266

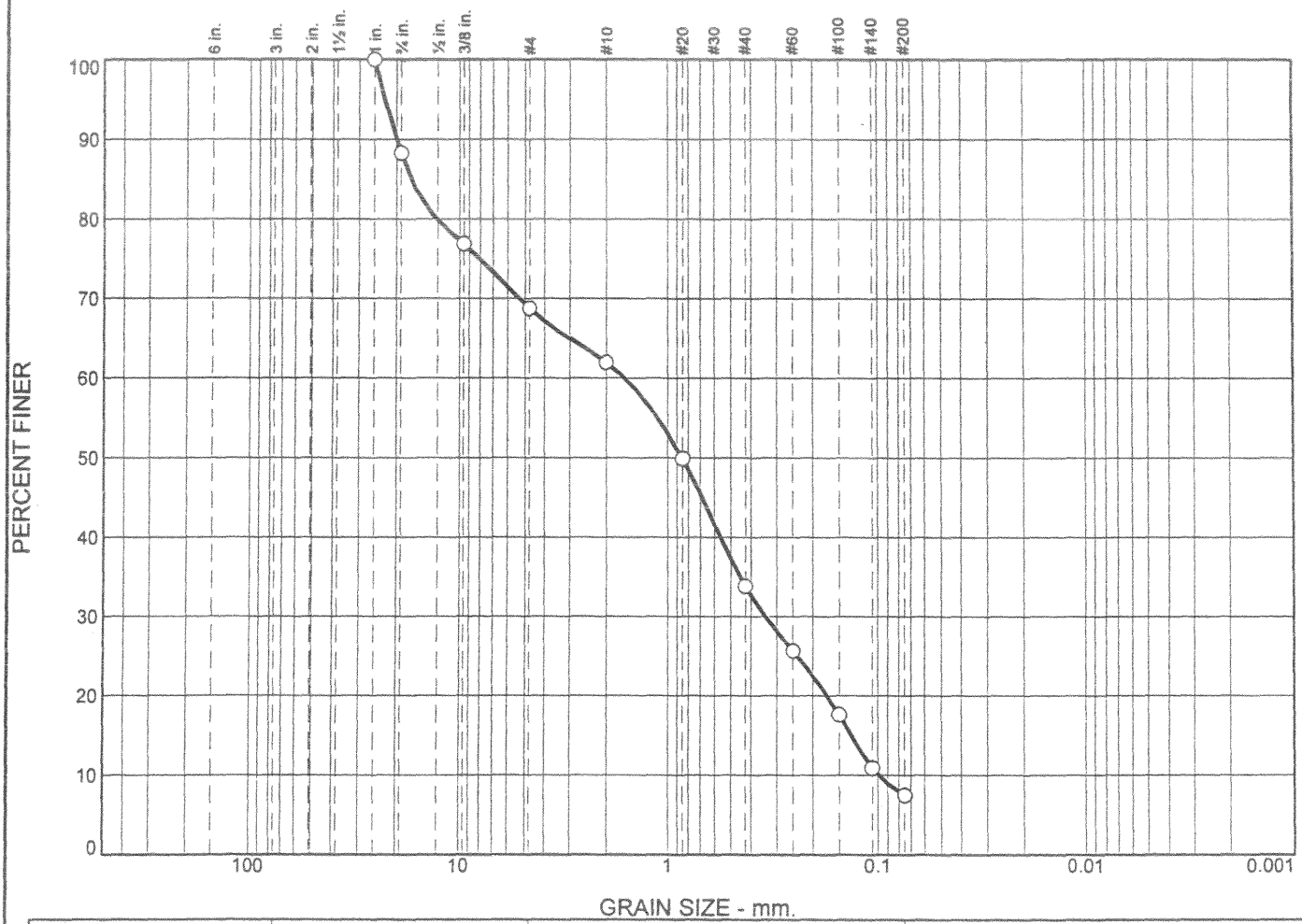
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pablo Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	12	19	7	28	27	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			16.9881	1.6324	0.8528	0.3402	0.1320	0.0994	0.71	16.43

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 68.5' **Sample Number:** 45

Date: ○

Remarks:
○ Moisture Content % 22.3
CP05-EAARS-CB-0266

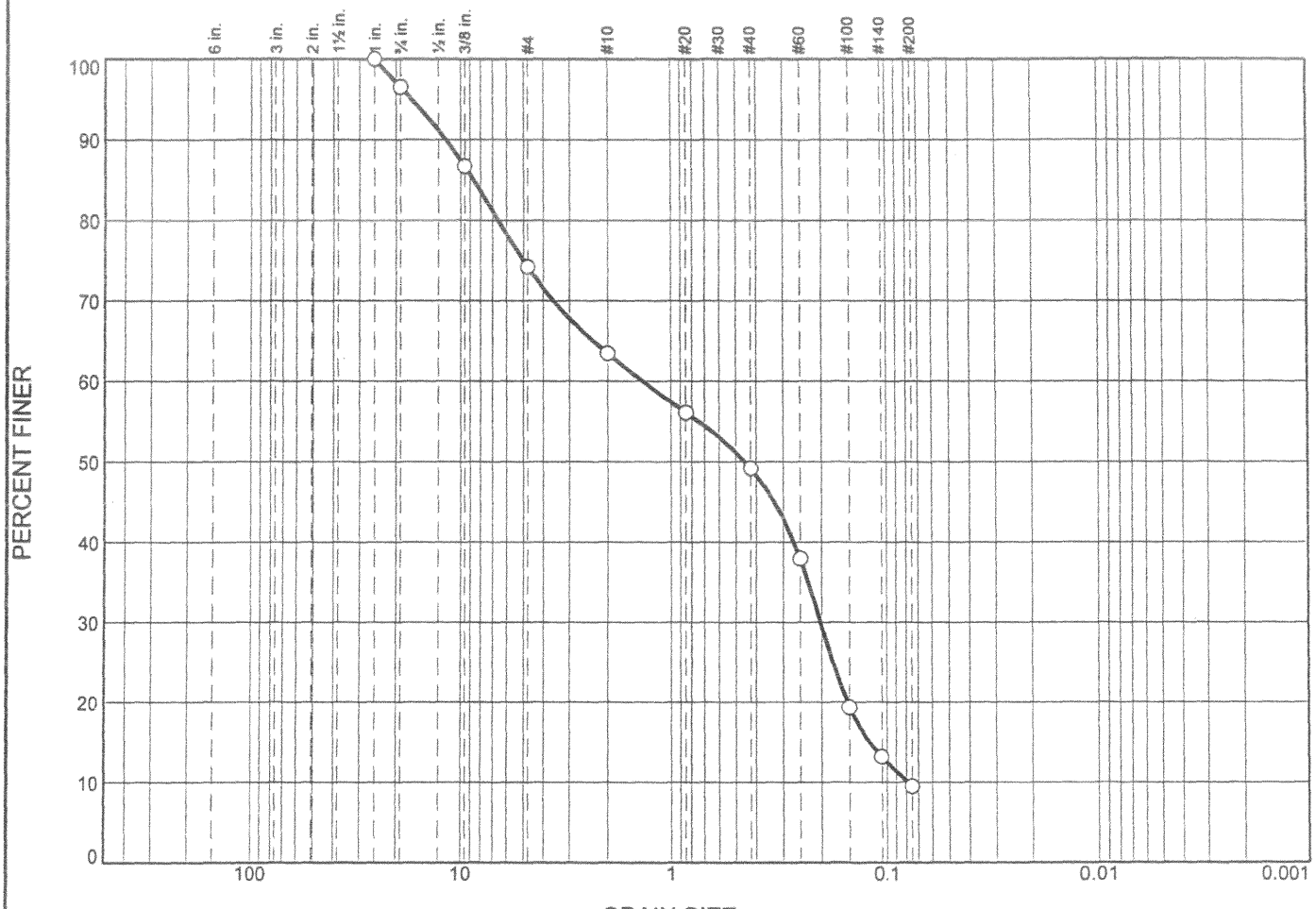
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	3	23	11	14	40	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			8.6203	1.3627	0.4514	0.2021	0.1215	0.0788	0.38	17.29

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 73.0' **Sample Number:** 48

Date: ○

Remarks:
○ Moisture Content % 21.3
CP05-EAARS-CB-0266

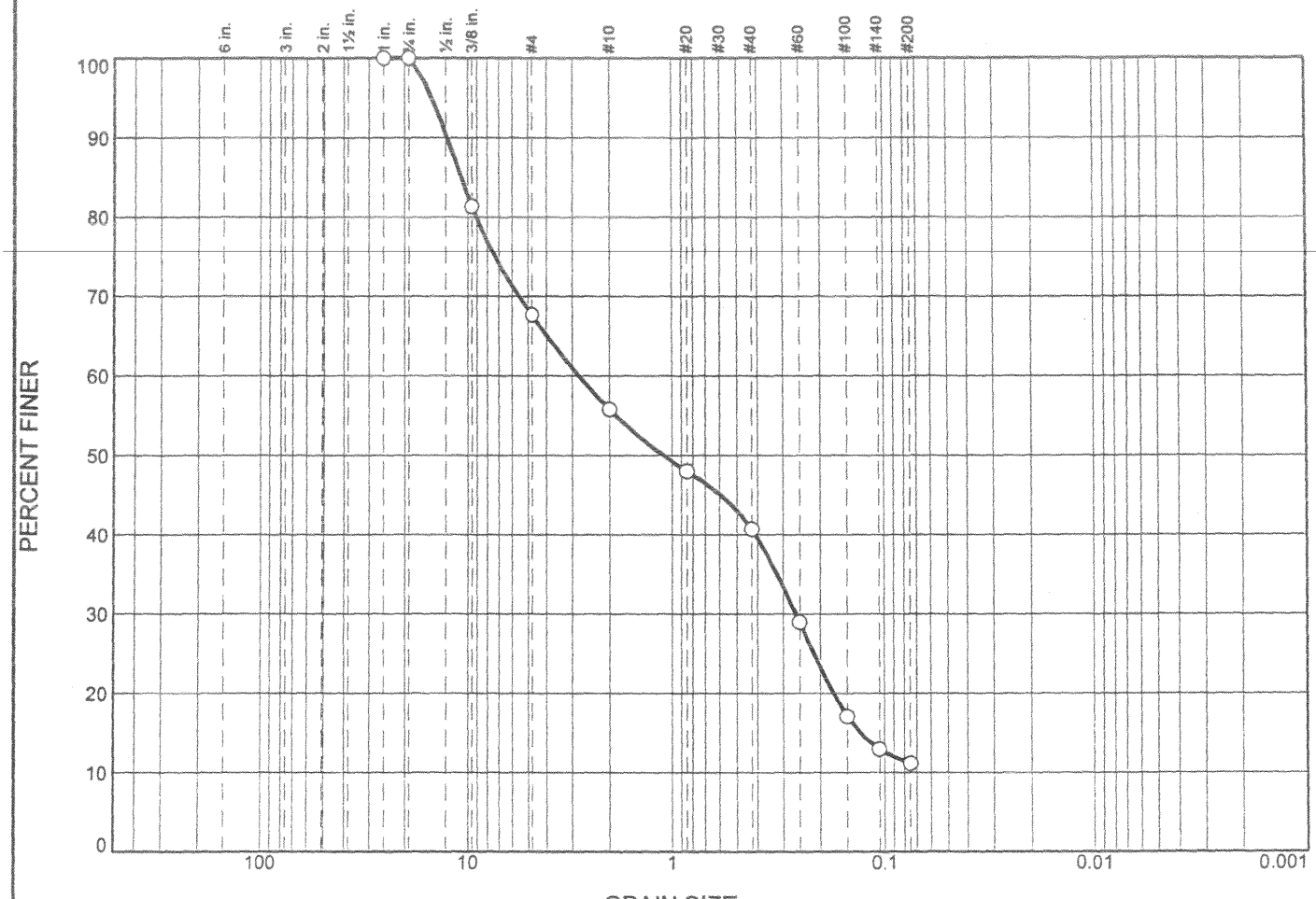
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pablo Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	32	12	15	30	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			10.7289	2.7914	1.0931	0.2603	0.1303			

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 76.0' **Sample Number:** 50

Date: ○

Remarks:
○ Moisture Content % 18.3 CP05-EAARS-CB-0266

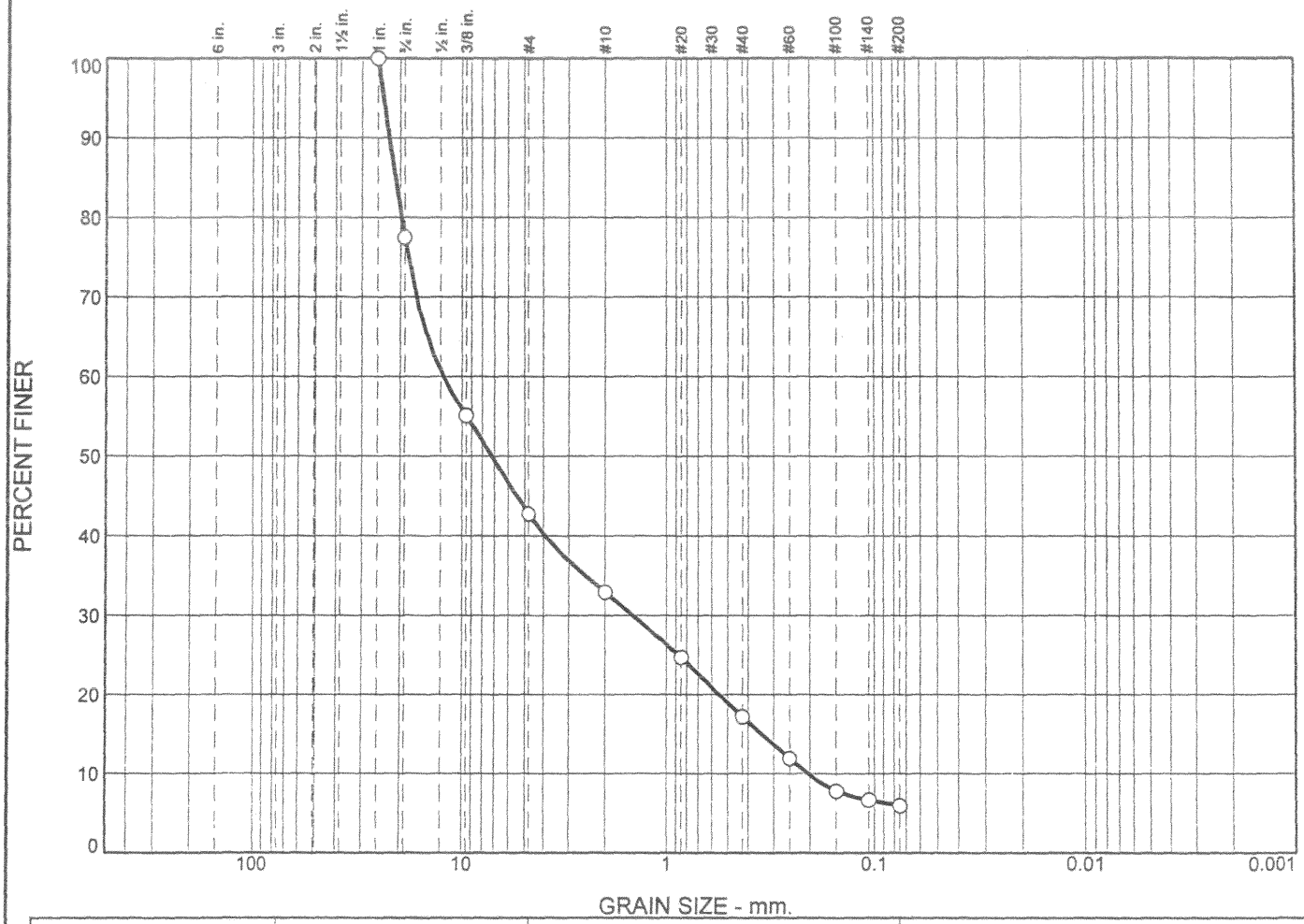
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	23	34	10	16	11	6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			21.1728	12.3387	7.2008	1.4580	0.3425	0.2034	0.85	60.65

Material Description	USCS	AASHTO
○ Well graded gravel with silt and sand	GW-GM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 85.0' **Sample Number:** 56

Date: ○

Remarks:
○ Moisture Content % 18.4 CP05-EAARS-CB-0266

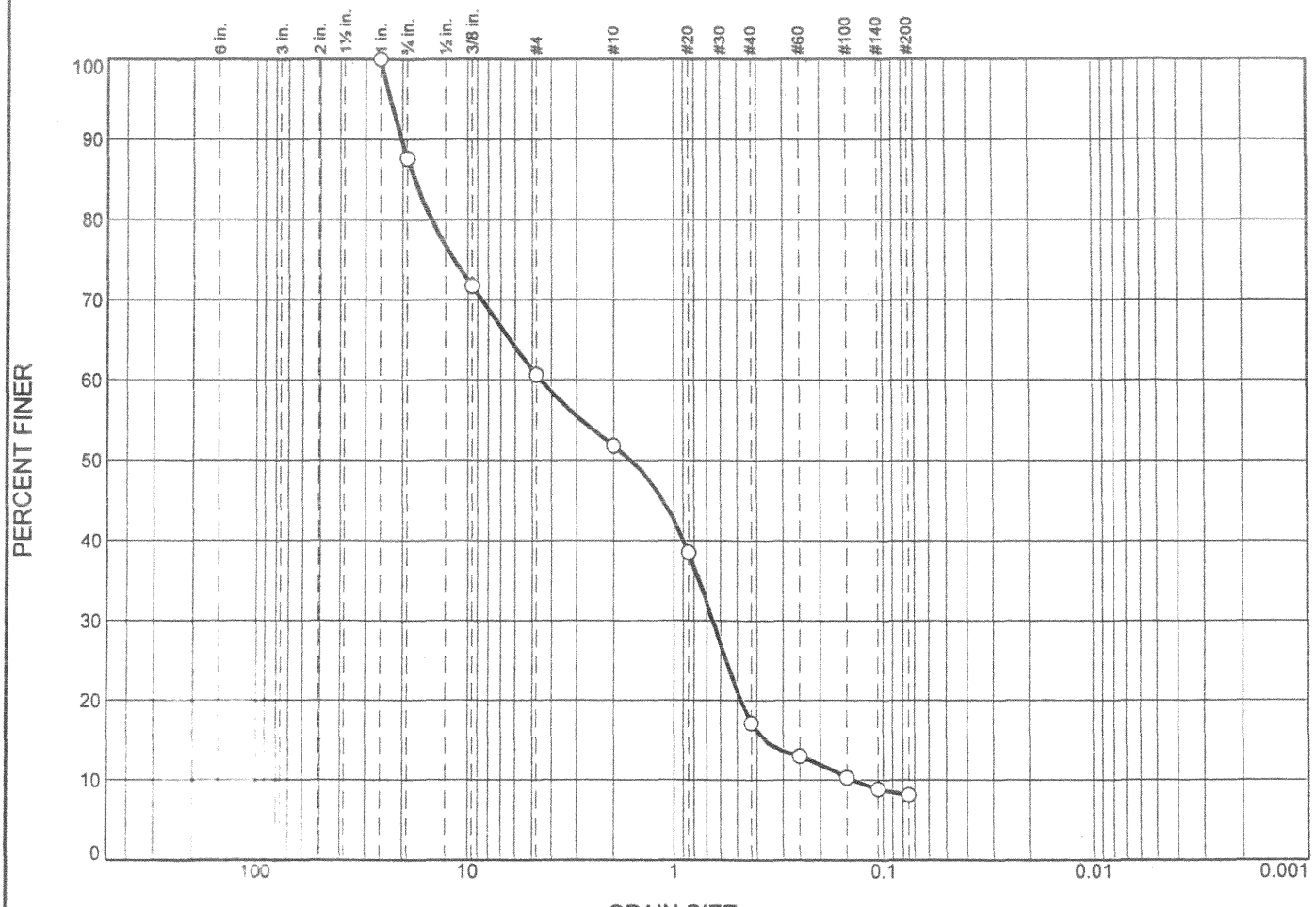
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown July 2014

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	12	27	9	35	9	8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			17.6613	4.5220	1.6420	0.6544	0.3675	0.1408	0.67	32.11

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0169 **Depth:** 89.5' **Sample Number:** 59

Date: ○

Remarks:
○ Moisture Content % 14.2
CP05-EAARS-CB-0266

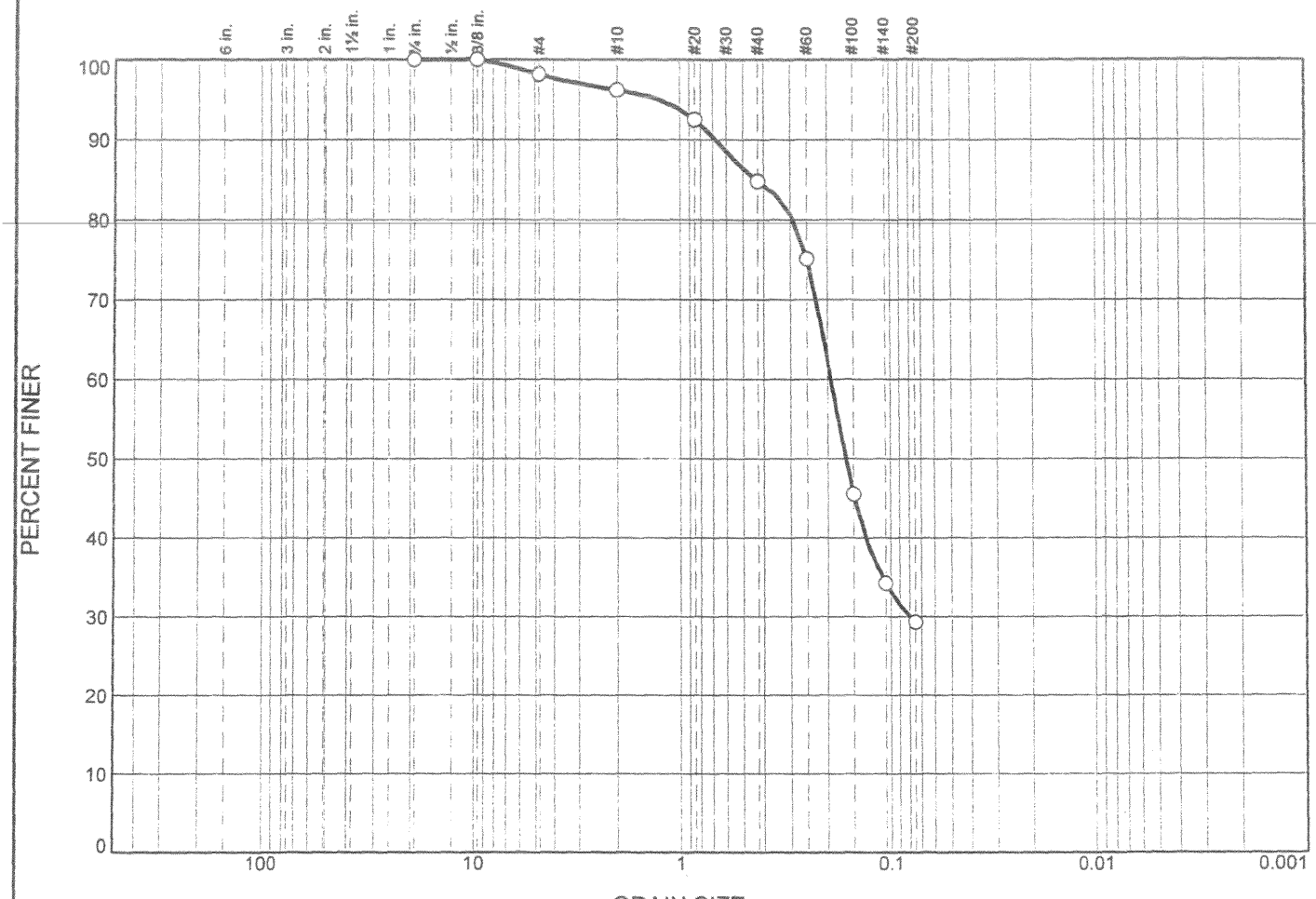
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	1.9	1.9	11.4	55.5	29.3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.4344	0.1915	0.1630	0.0796				

Material Description	USCS	AASHTO
○ Silty Sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB170 **Depth:** 88.5'-90.0' **Sample Number:** CB170

Remarks:

○ Moisture Content % 21.4 CP05-EAARS-CB-0267

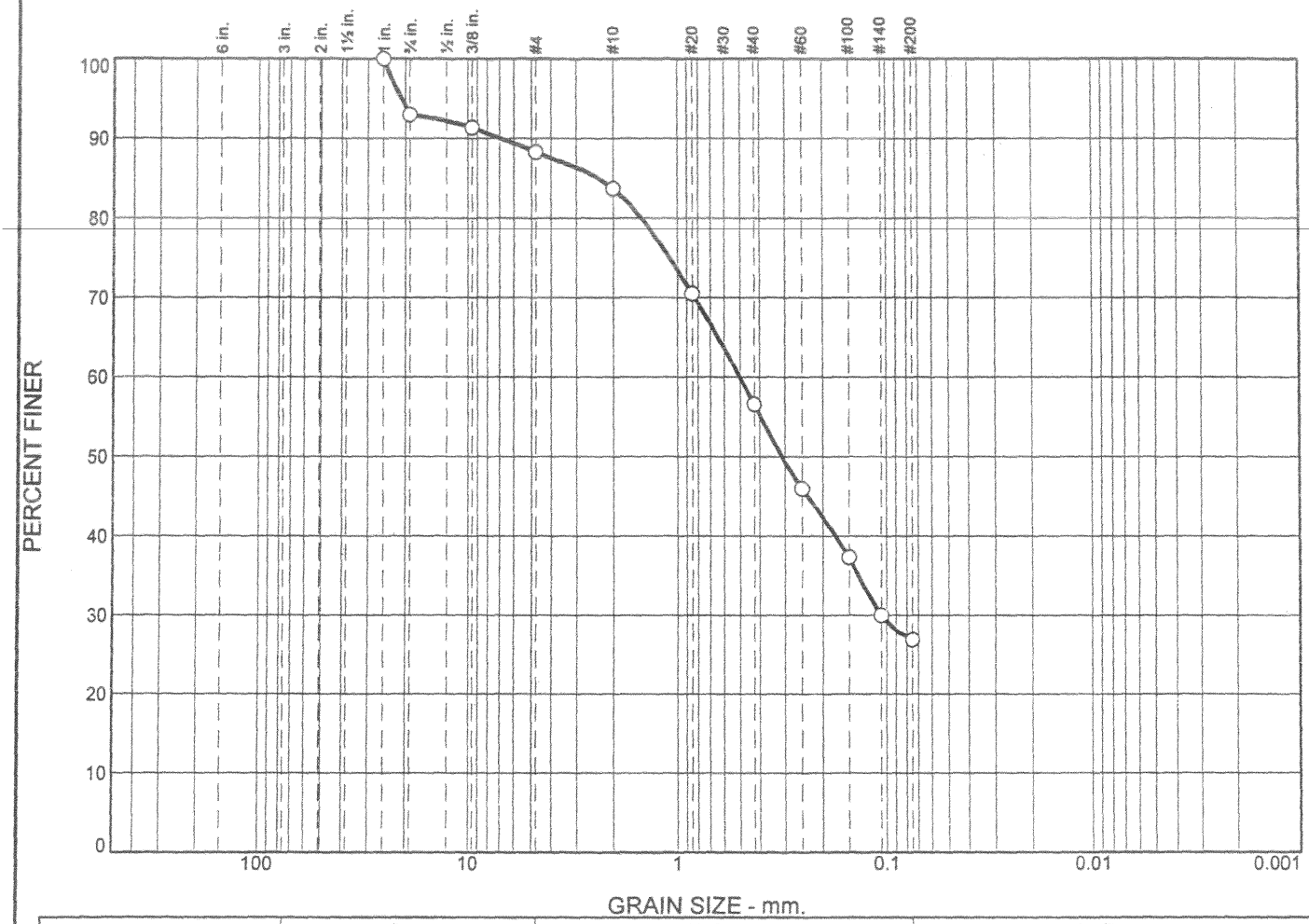
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	7	5	4	27	30	27	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.3383	0.5011	0.3099	0.1060				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0171 **Depth:** 13.5' **Sample Number:** 4

Date: ○

Remarks:
○ Moisture Content % 30.2 CP05-EAARS-CB-0268

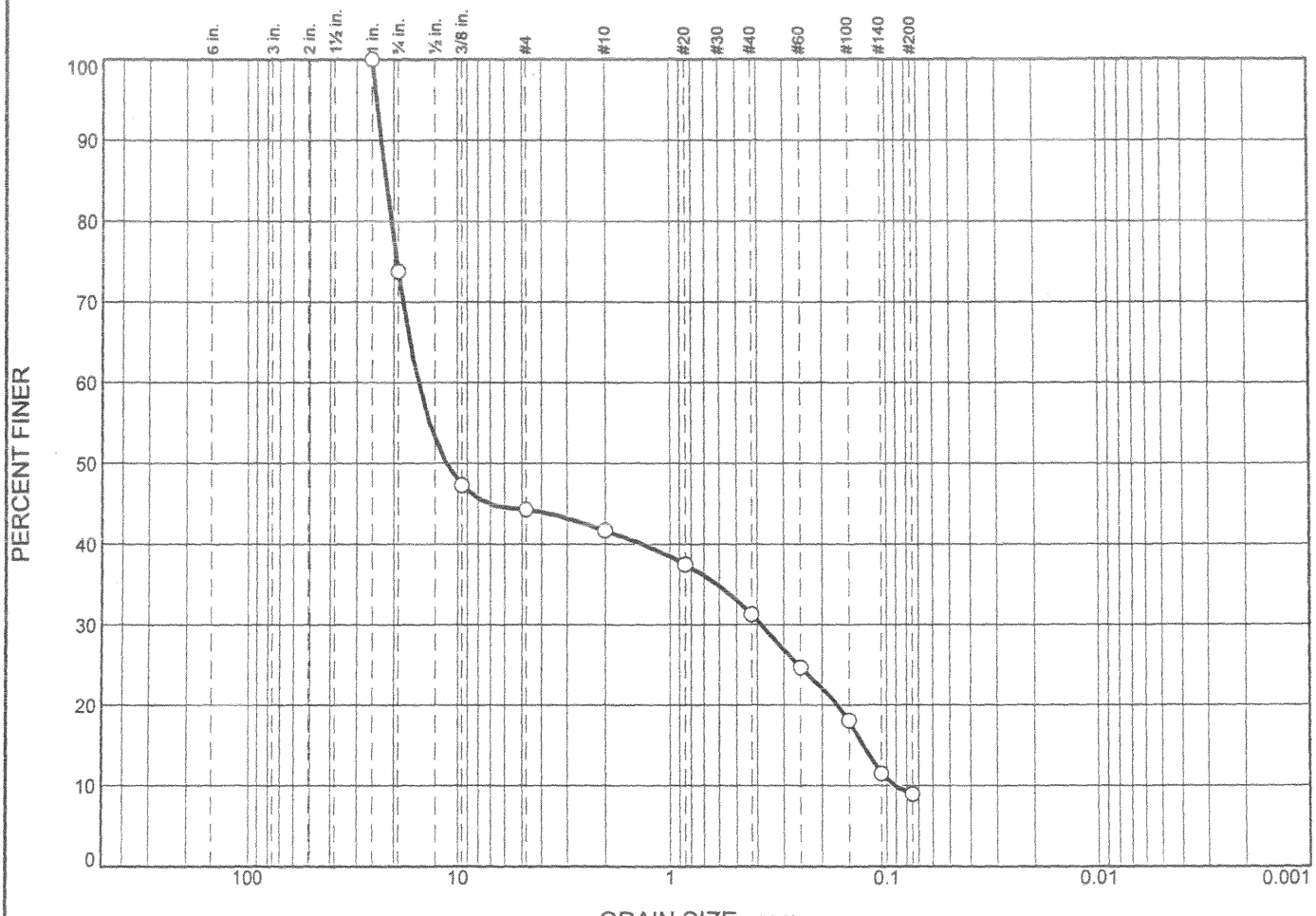
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pablo Cabaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	26	30	2	11	22	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			21.7308	15.2316	11.2605	0.3823	0.1285	0.0919	0.10	165.72

Material Description	USCS	AASHTO
○ Poorly graded gravel with silt and sand	GP-GM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0171 **Depth:** 18.5' **Sample Number:** 5

Date: ○

Remarks:
○ Moisture Content % 21.5 CP05-EAARS-CB-0268

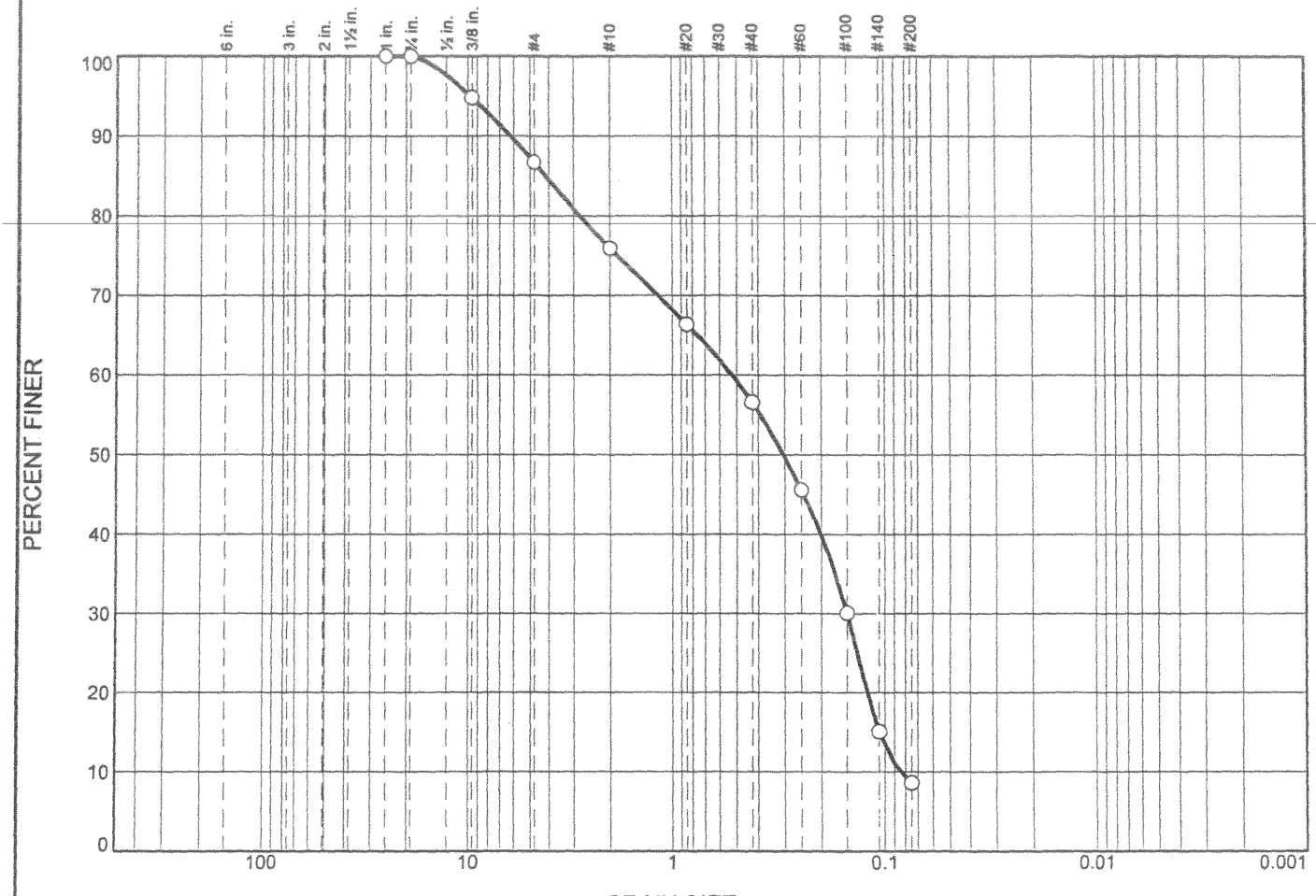
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	13	11	19	48	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.1445	0.5239	0.3043	0.1497	0.1058	0.0839	0.51	6.24

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0171 **Depth:** 33.5' **Sample Number:** 8

Date: ○

Remarks:
○ Moisture Content % 17.7 CP05-EAARS-CB-0268

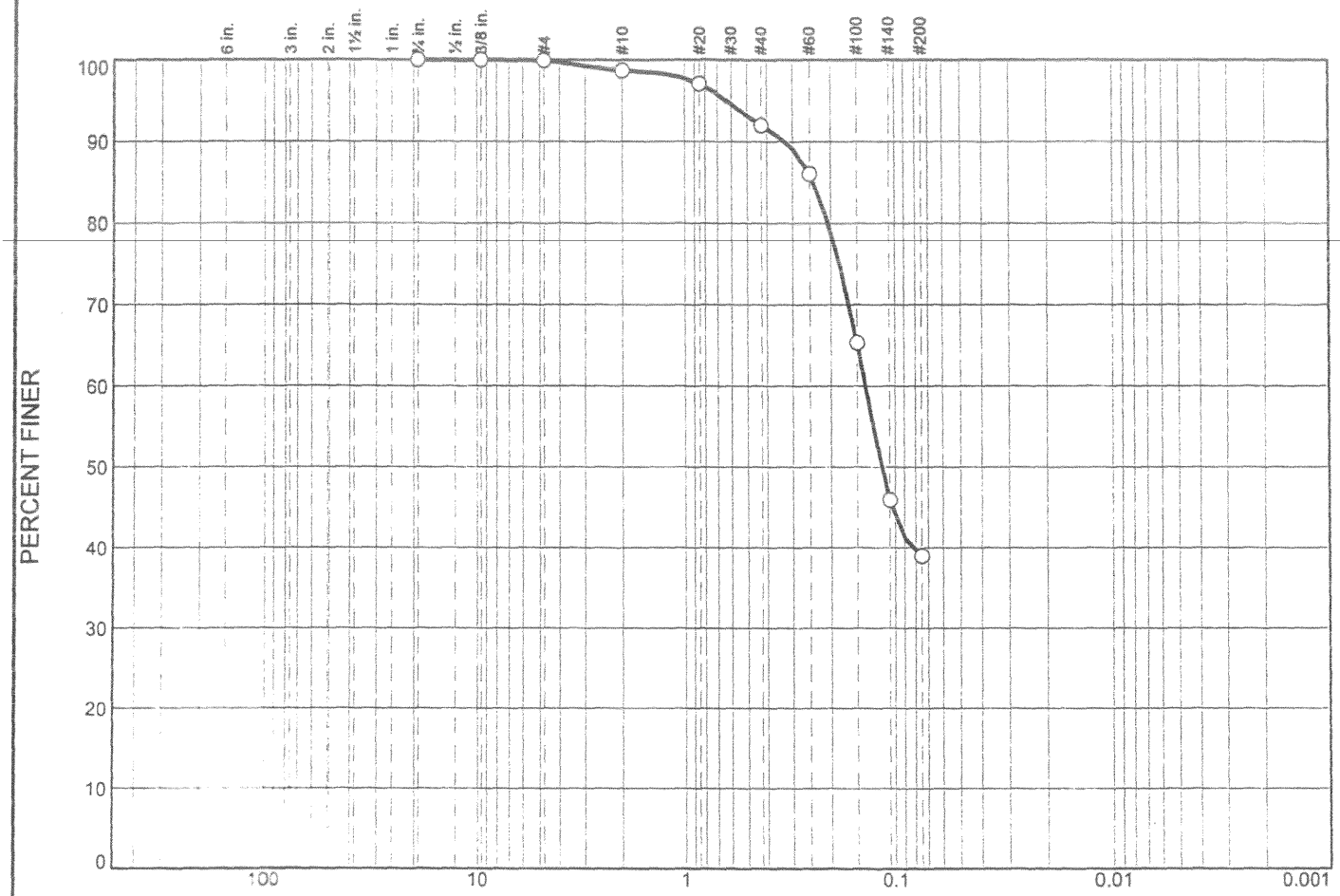
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.1	1.2	6.7	53.0	39.0	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2395	0.1373	0.1157					

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB171 **Depth:** 78.5'-80.0 **Sample Number:** CB171

Remarks:

○ Moisture Content % 26.4 CP05-EAARS-CB-0268

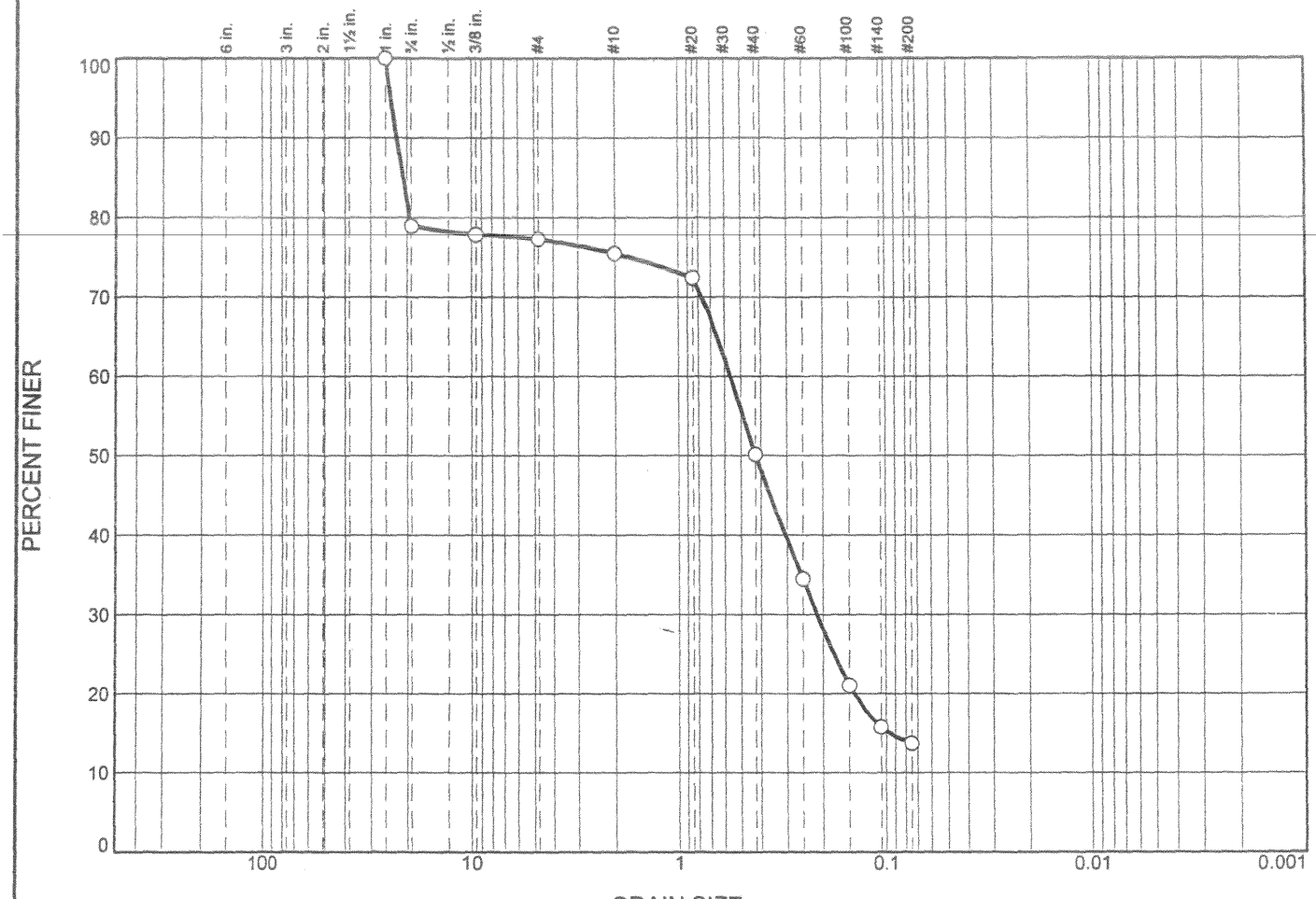
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	21	2	2	25	36	14	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			21.0463	0.5610	0.4232	0.2134	0.0963			

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0172 **Depth:** 0.0' **Sample Number:** 1

Date: ○

Remarks:
○ Moisture Content % 136.8 CP05-EAARS-CB-0269

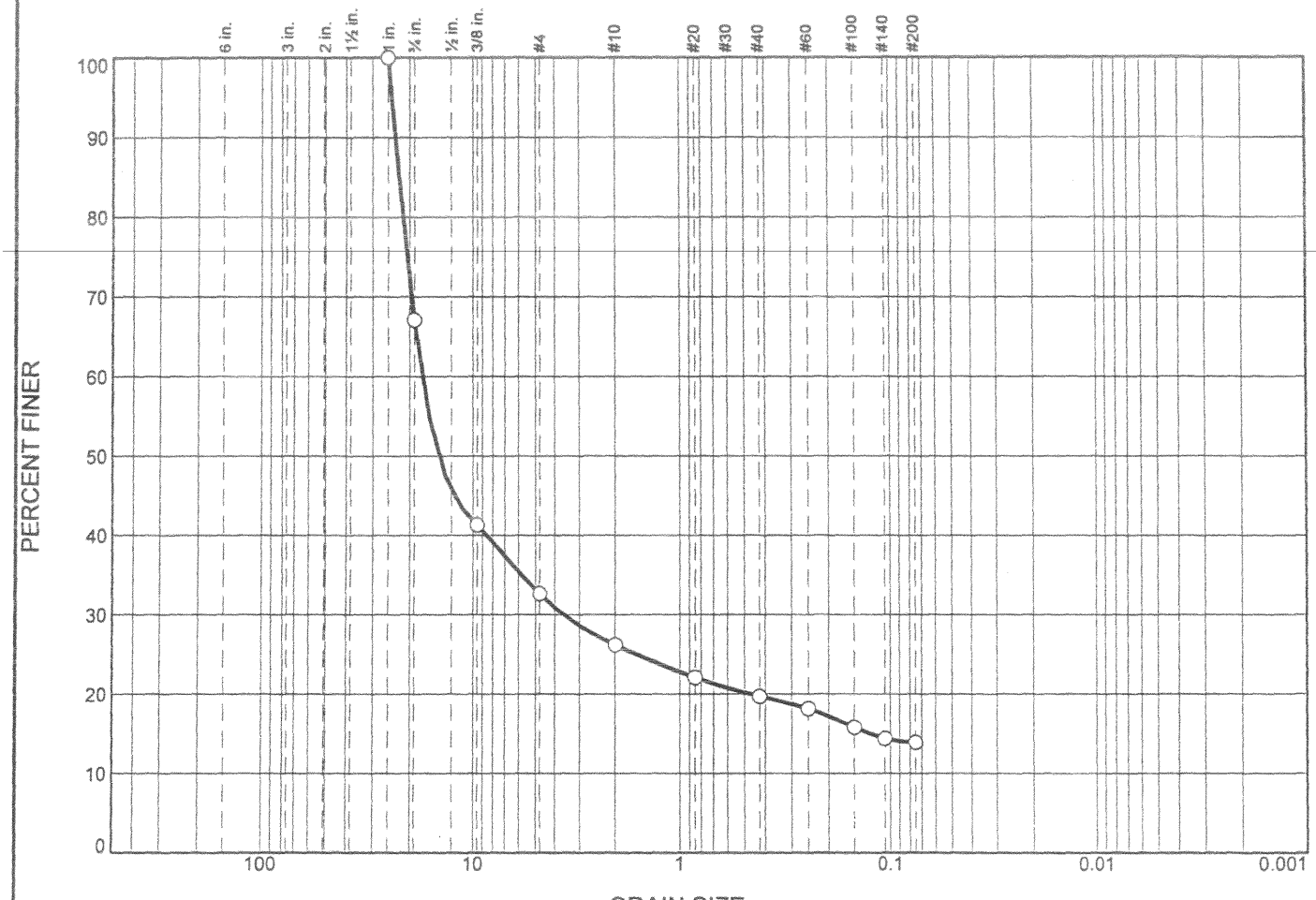
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	33	34	7	6	6	14	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			22.5022	17.4618	14.5600	3.5945	0.1253			

Material Description	USCS	AASHTO
○ Silty gravel with sand	GM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0173 **Depth:** 3.5' **Sample Number:** 3

Date: ○

Remarks:
○ Moisture Content % 27 CP05-EAARS-CB-0269

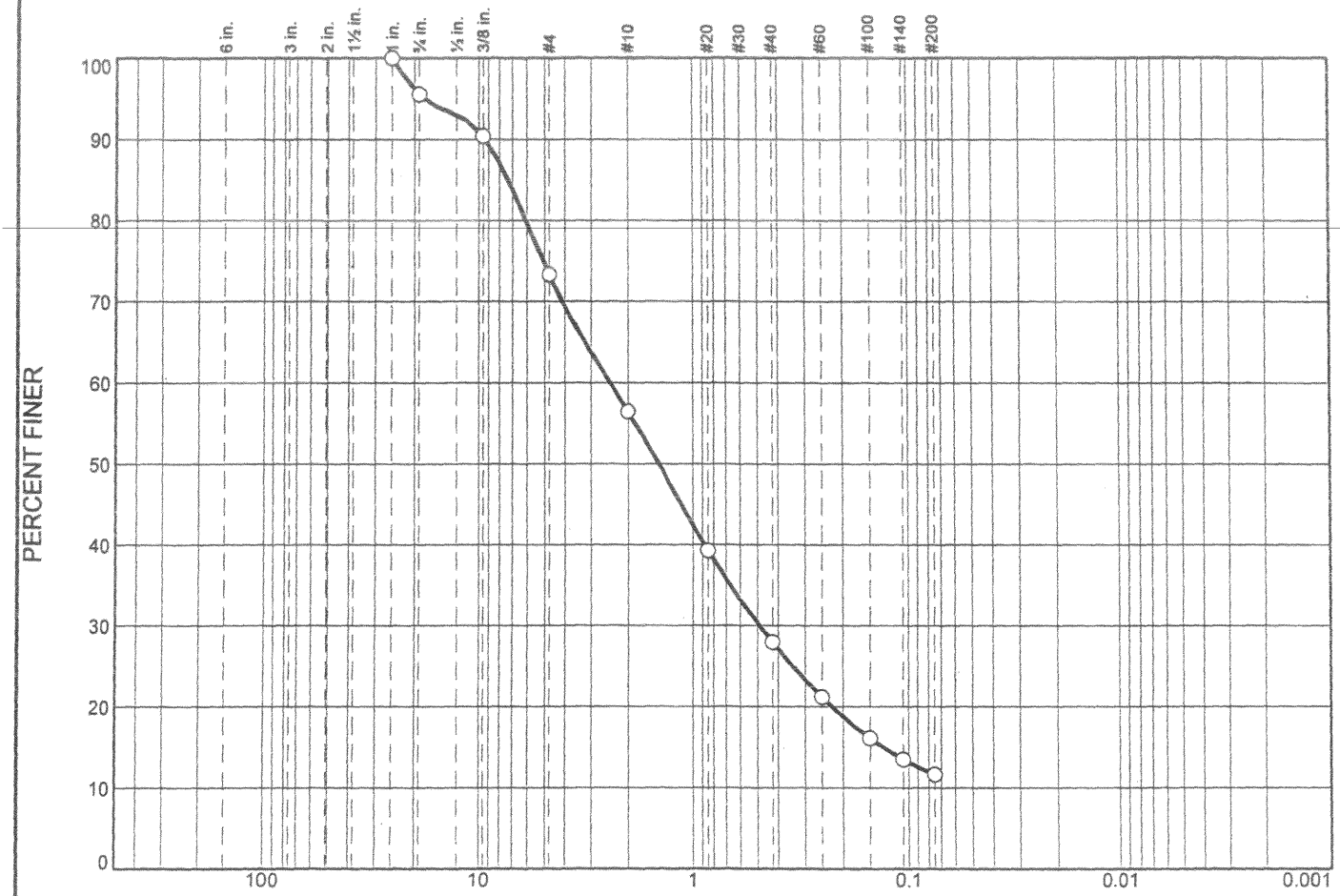
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	4	23	17	28	16	12	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			7.3316	2.4333	1.4431	0.4882	0.1307			

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0172 **Depth:** 8.5' **Sample Number:** 3

Date: ○

Remarks:
○ Moisture Content % 23.8 CP05-EAARS-CB-0269

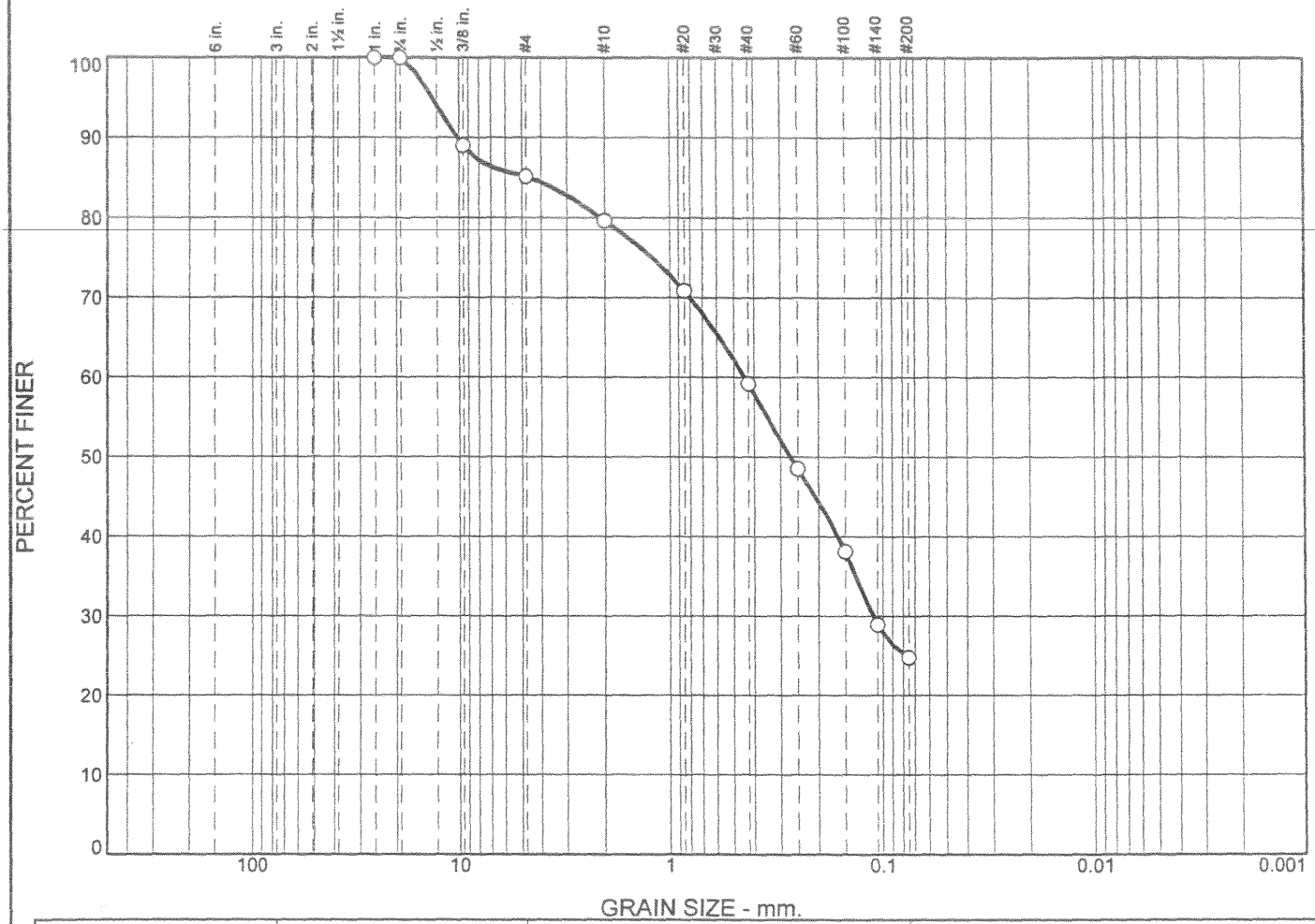
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pablo Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	15	5	21	34	25	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.5605	0.4425	0.2697	0.1114				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0172 **Depth:** 13.5' **Sample Number:** 4

Date: ○

Remarks:
○ Moisture Content % 31.9 CP05-EAARS-CB-0269

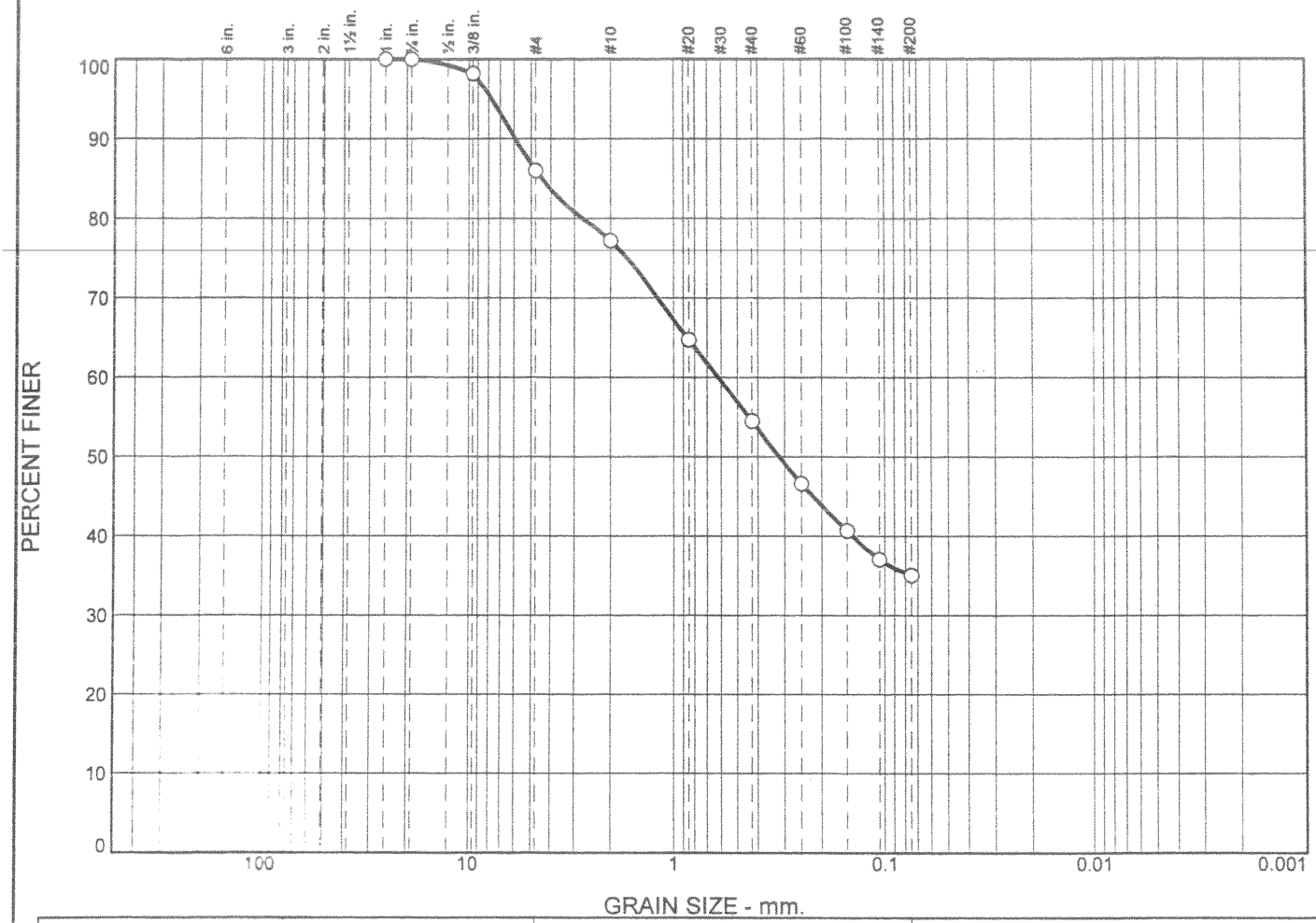
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	14	9	23	19	35	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.4426	0.6188	0.3170					

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0173 **Depth:** 13.5' **Sample Number:** 5

Date: ○

Remarks:
○ Moisture Content % 36.4 CP05-EAARS-CB-0269

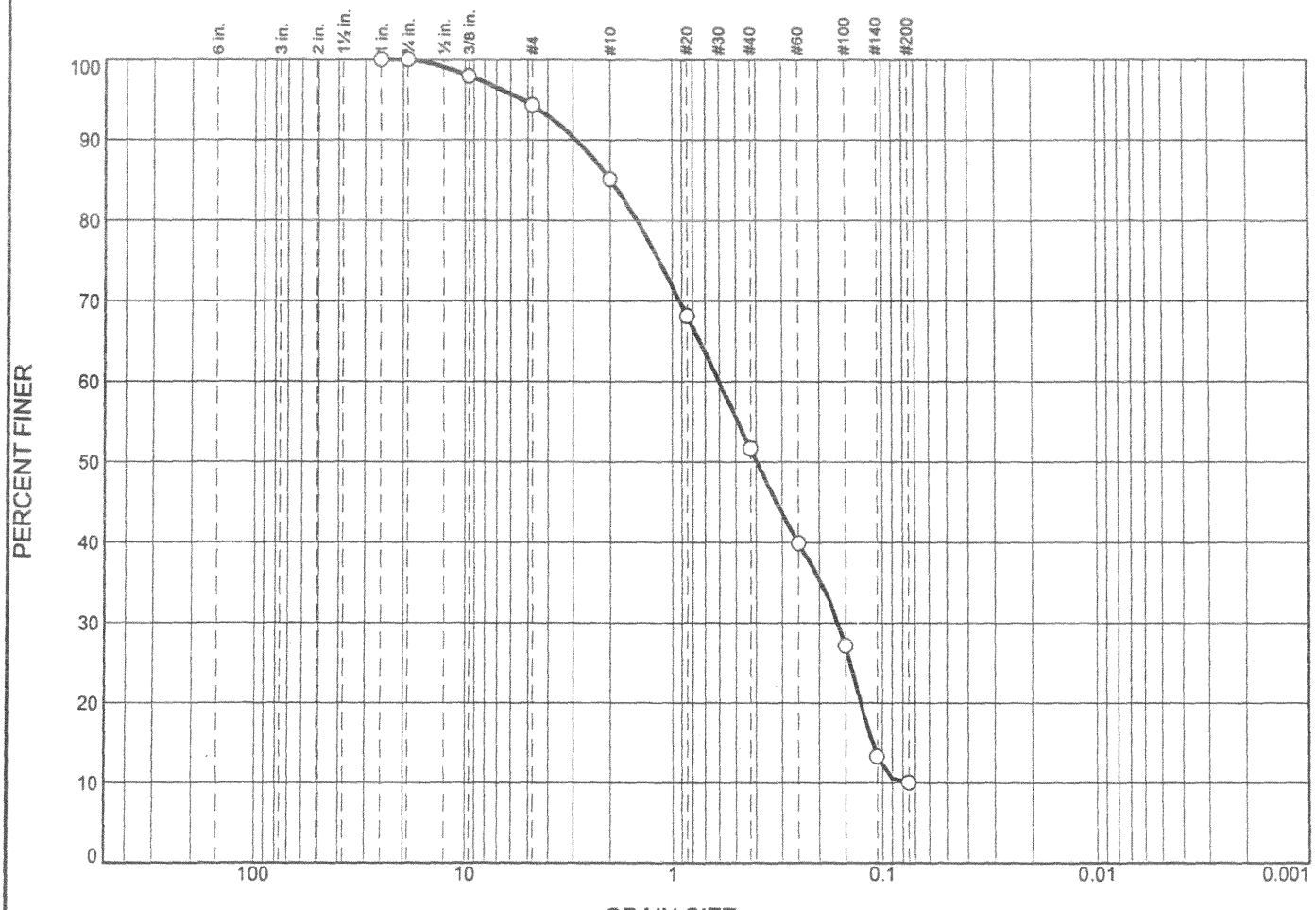
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	6	9	33	42	10	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_U
○			1.9799	0.6016	0.3958	0.1623	0.1119			

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0172 **Depth:** 18.5' **Sample Number:** 5

Date: ○

Remarks:
○ Moisture Content % 22.7 CP05-EAARS-CB-0269

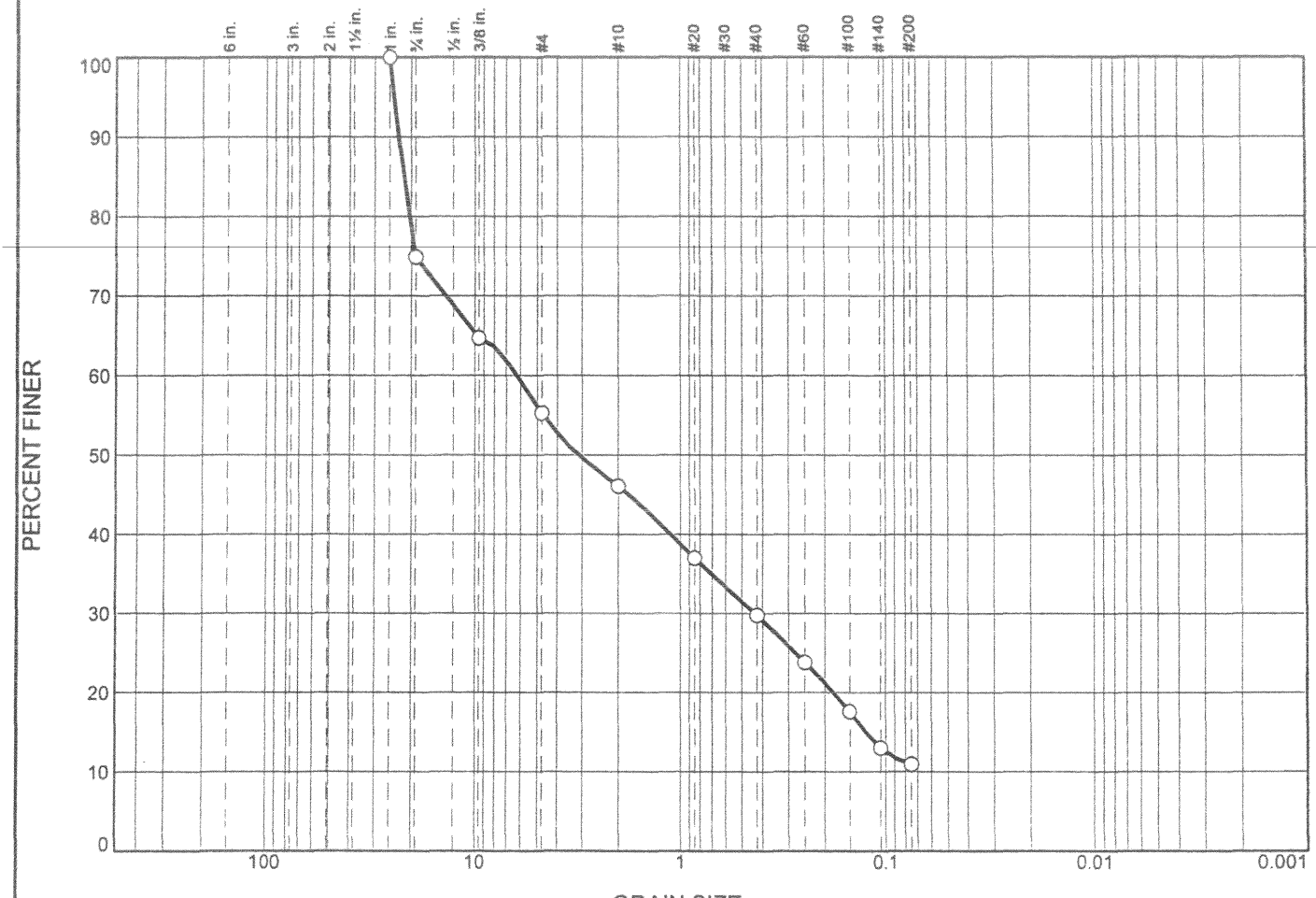
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	25	20	9	16	19	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			21.7109	6.2377	3.1064	0.4346	0.1251			

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0173 **Depth:** 18.5' **Sample Number:** 6

Date: ○

Remarks:
○ Moisture Content % 26.0 CP05-EAARS-CB-0269

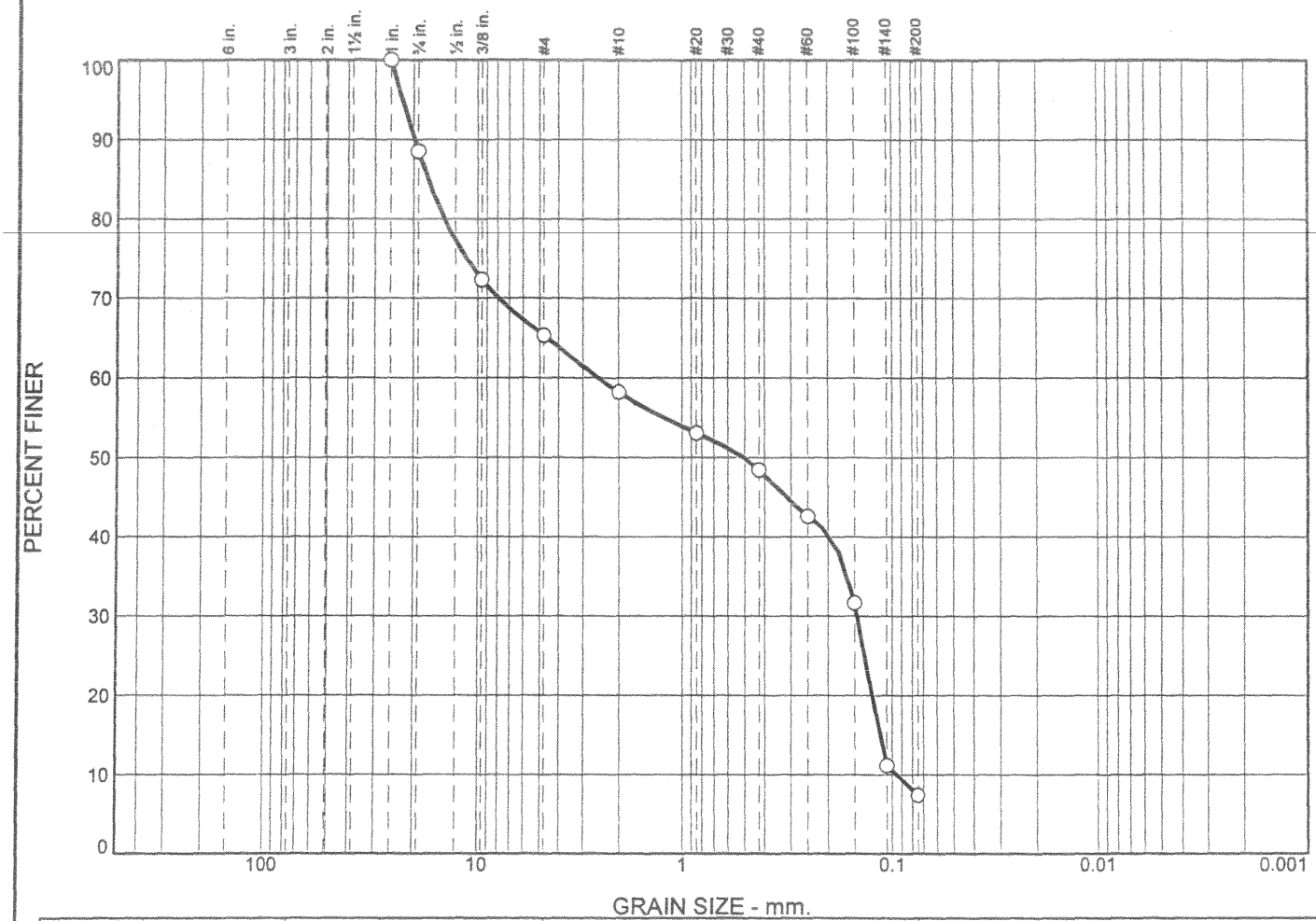
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	11	24	7	10	41	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			17.1489	2.5176	0.5043	0.1455	0.1146	0.0952	0.09	26.45

Material Description	USCS	AASHTO
○ Poorly graded sand with gravel	SP	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0172 **Depth:** 33.5' **Sample Number:** 8

Date: ○

Remarks:
○ Moisture Content % 16.4 CP05-EAARS-CB-0269

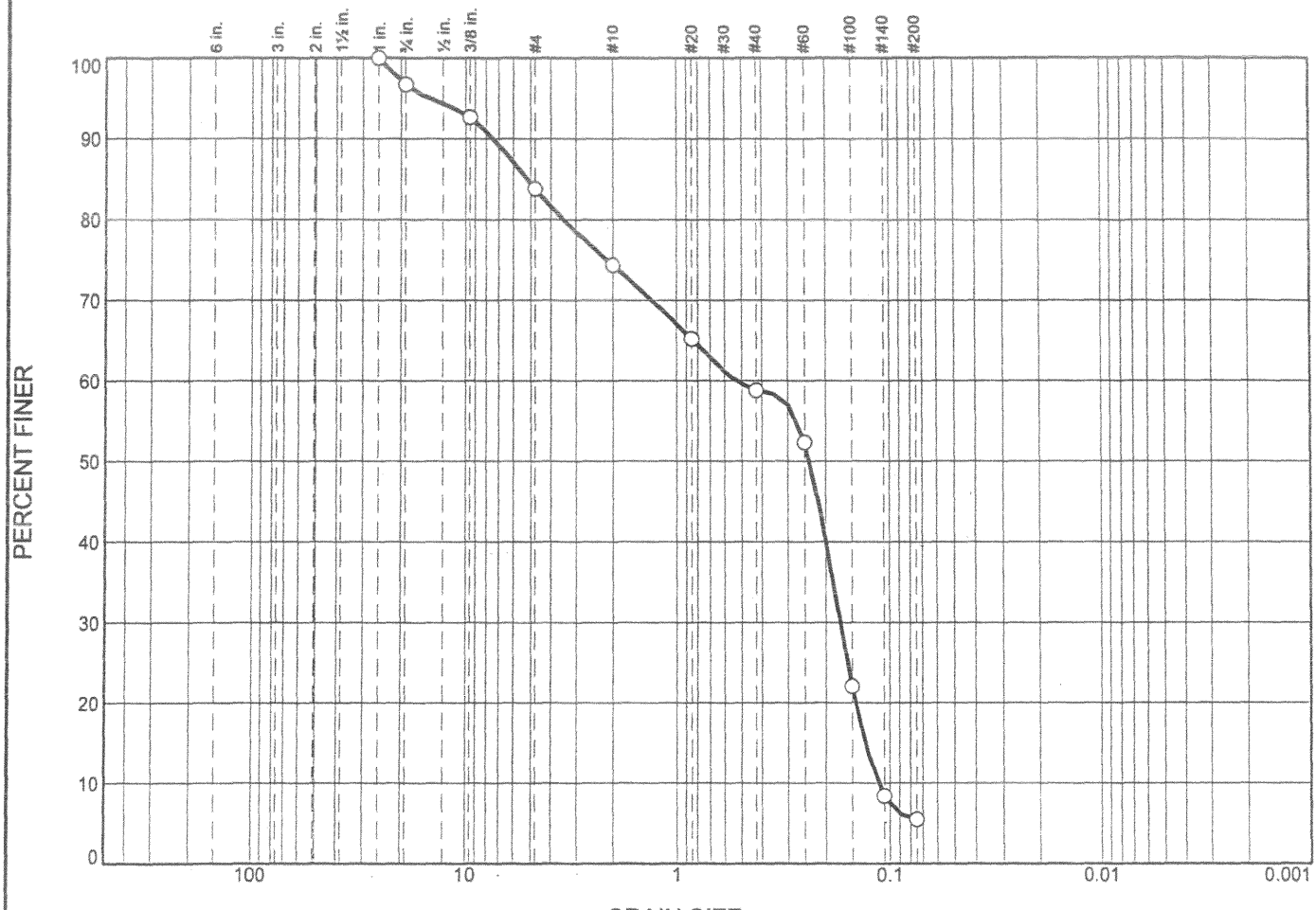
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	3	13	10	15	54	5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			5.1746	0.5272	0.2369	0.1706	0.1302	0.1130	0.49	4.66

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0172 **Depth:** 38.5' **Sample Number:** 9

Date: ○

Remarks:
○ Moisture Content % 20.9 CP05-EAARS-CB-0269

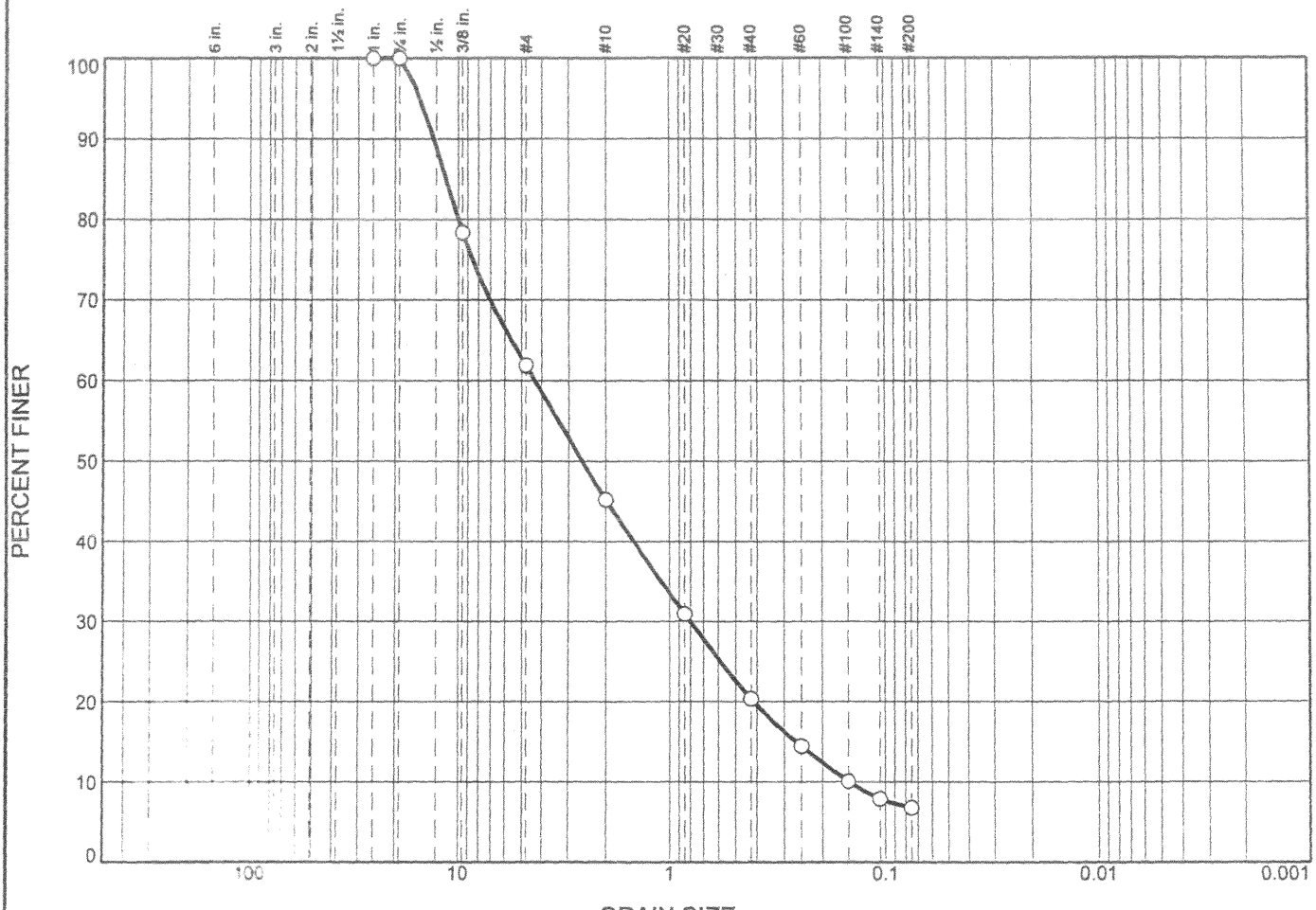
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Casaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	38	17	25	13	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			11.4156	4.3044	2.5799	0.8016	0.2641	0.1486	1.00	28.98

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0173 **Depth:** 1.5' **Sample Number:** 2

Date: ○

Remarks:
○ Moisture Content % 157.6 CP05-EAARS-CB-0270

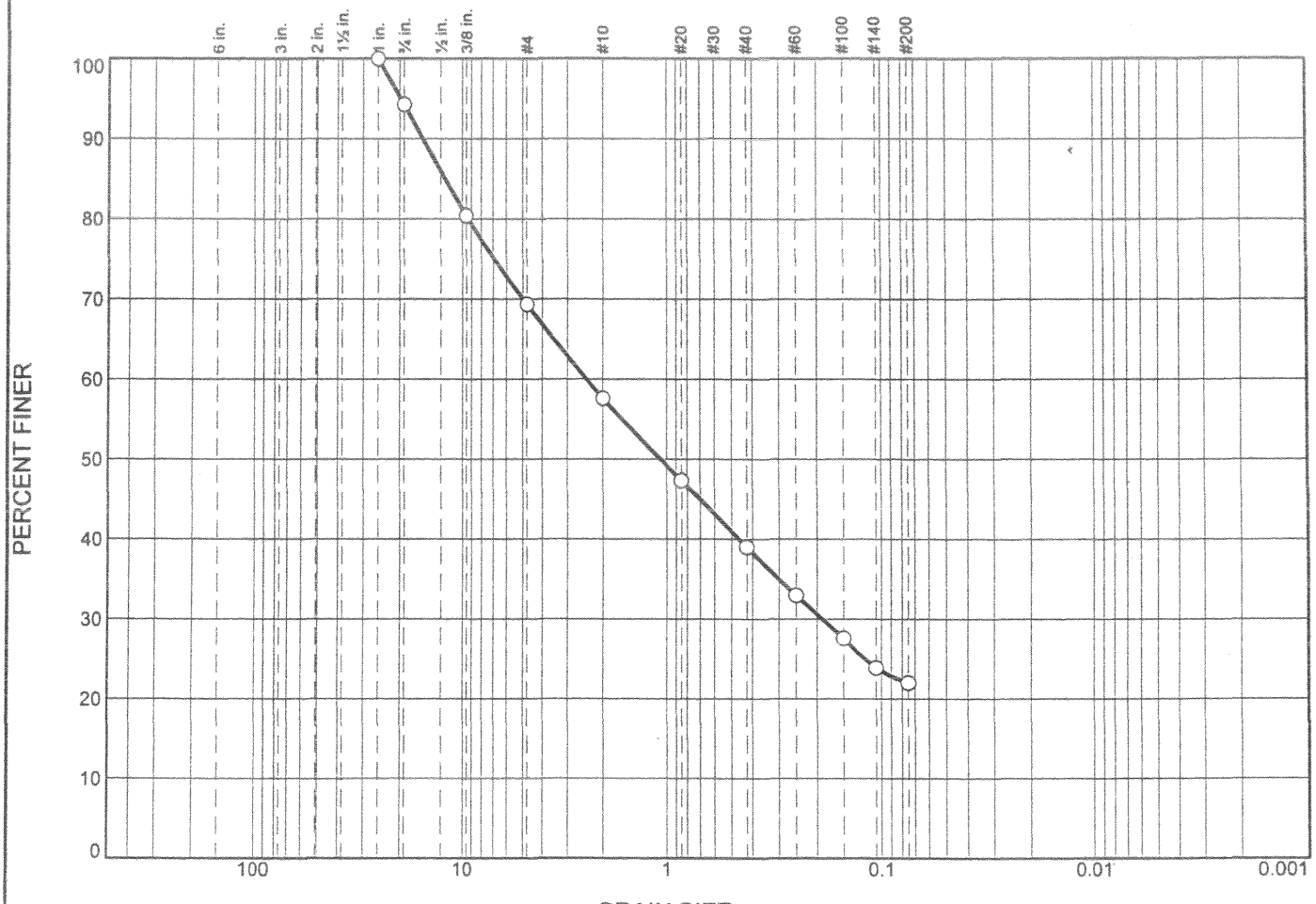
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	6	25	11	19	17	22	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			12.0906	2.4134	1.0653	0.1880				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0175 **Depth:** 0.0' **Sample Number:** 1

Date: ○

Remarks:
○ Moisture Content % 12.3 CP05-EAARS-CB-0271

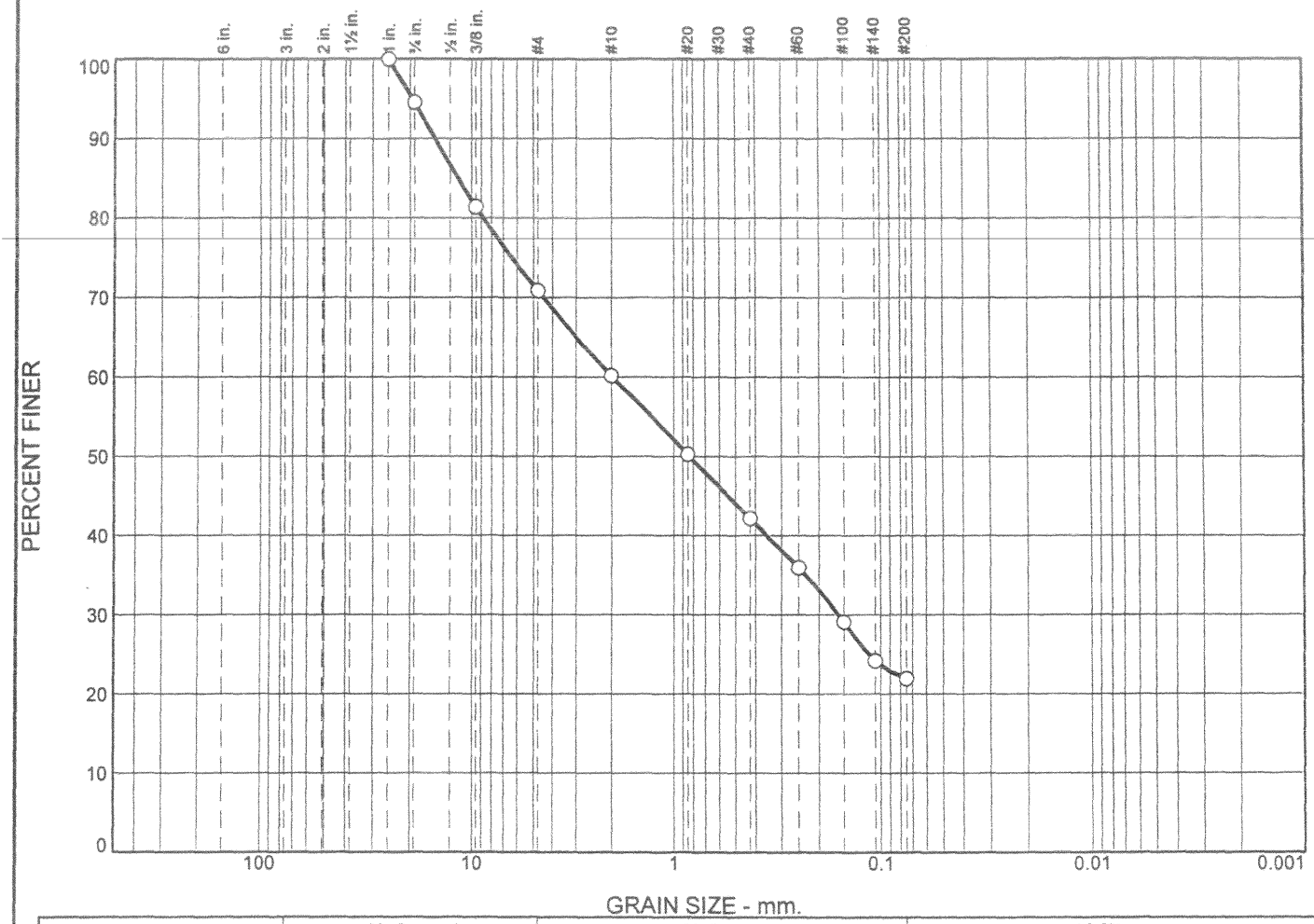
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	5	24	11	18	20	22	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			11.6299	1.9706	0.8308	0.1595				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0175 **Depth:** 2.0' **Sample Number:** 2

Date: ○

Remarks:
○ Moisture Content % 20.4 CP05-EAARS-CB-0271

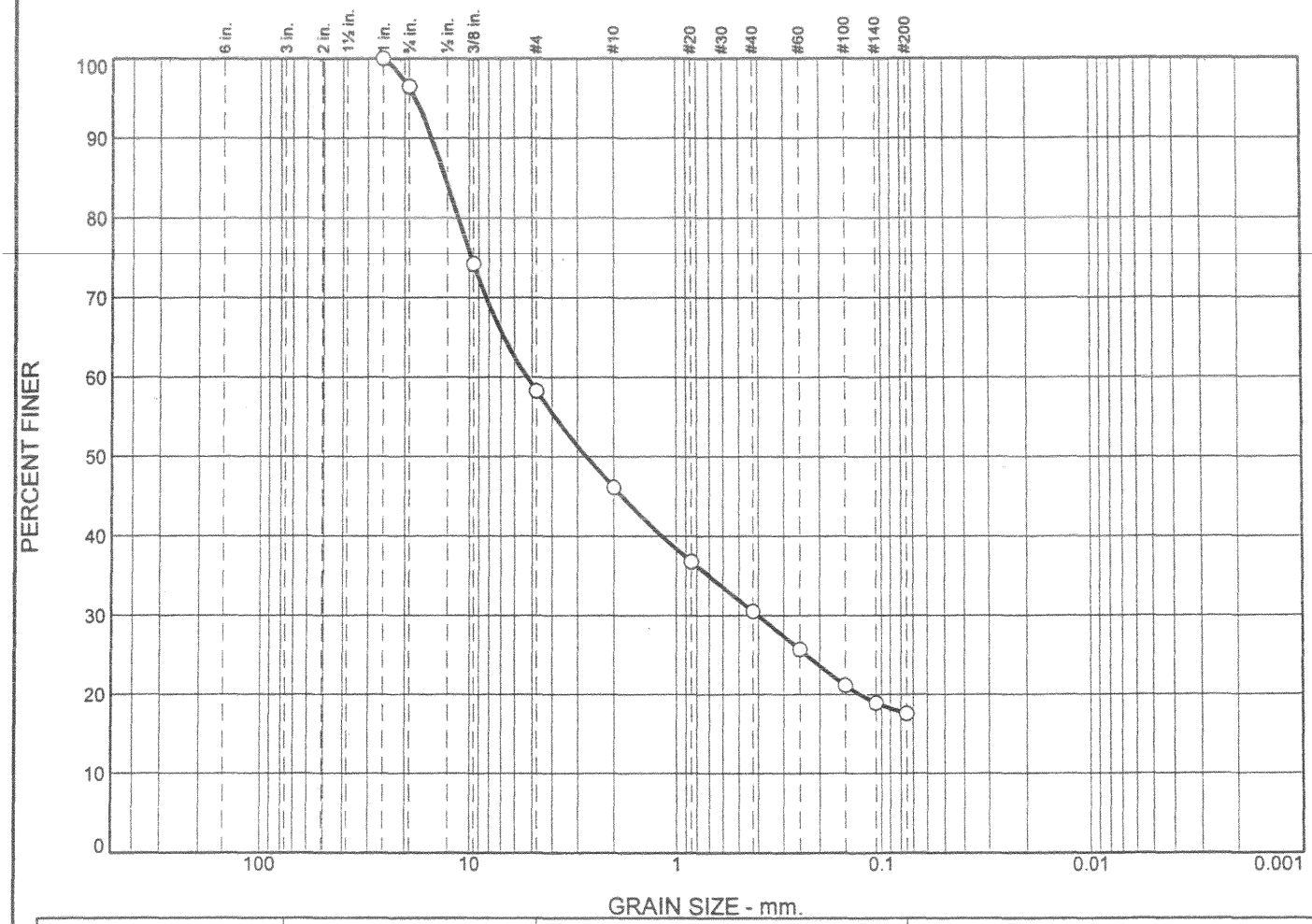
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	4	38	12	15	13	18	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			12.9138	5.2460	2.7193	0.4005				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0175 **Depth:** 10.5' **Sample Number:** 4

Date: ○

Remarks:
○ Moisture Content % 24.0 CP05-EAARS-CB-0271

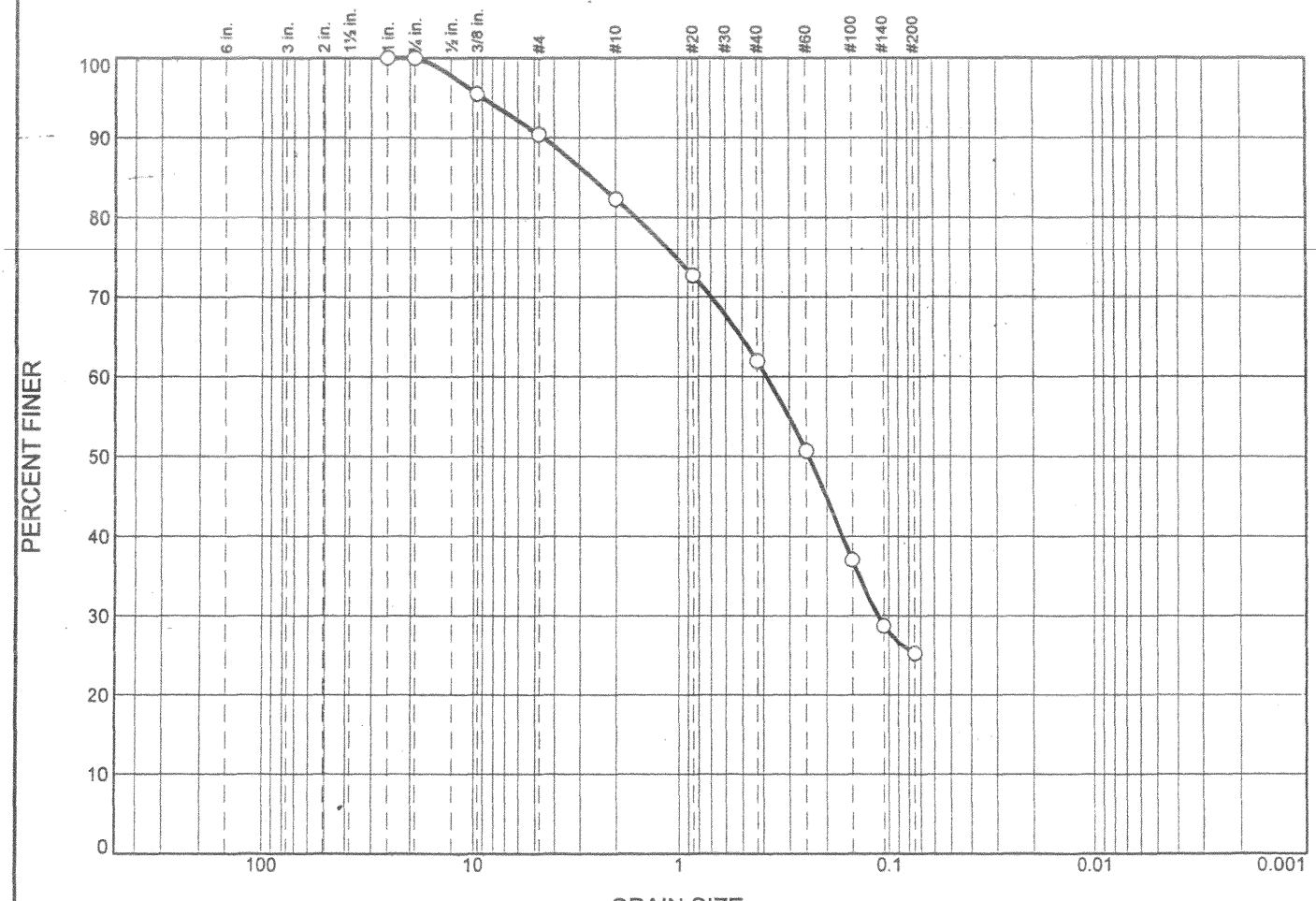
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	10	8	20	37	25	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.6123	0.3832	0.2430	0.1135				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0175 **Depth:** 18.5' **Sample Number:** 6

Date: ○

Remarks:
○ Moisture Content % 25.3 CP05-EAARS-CB-0271

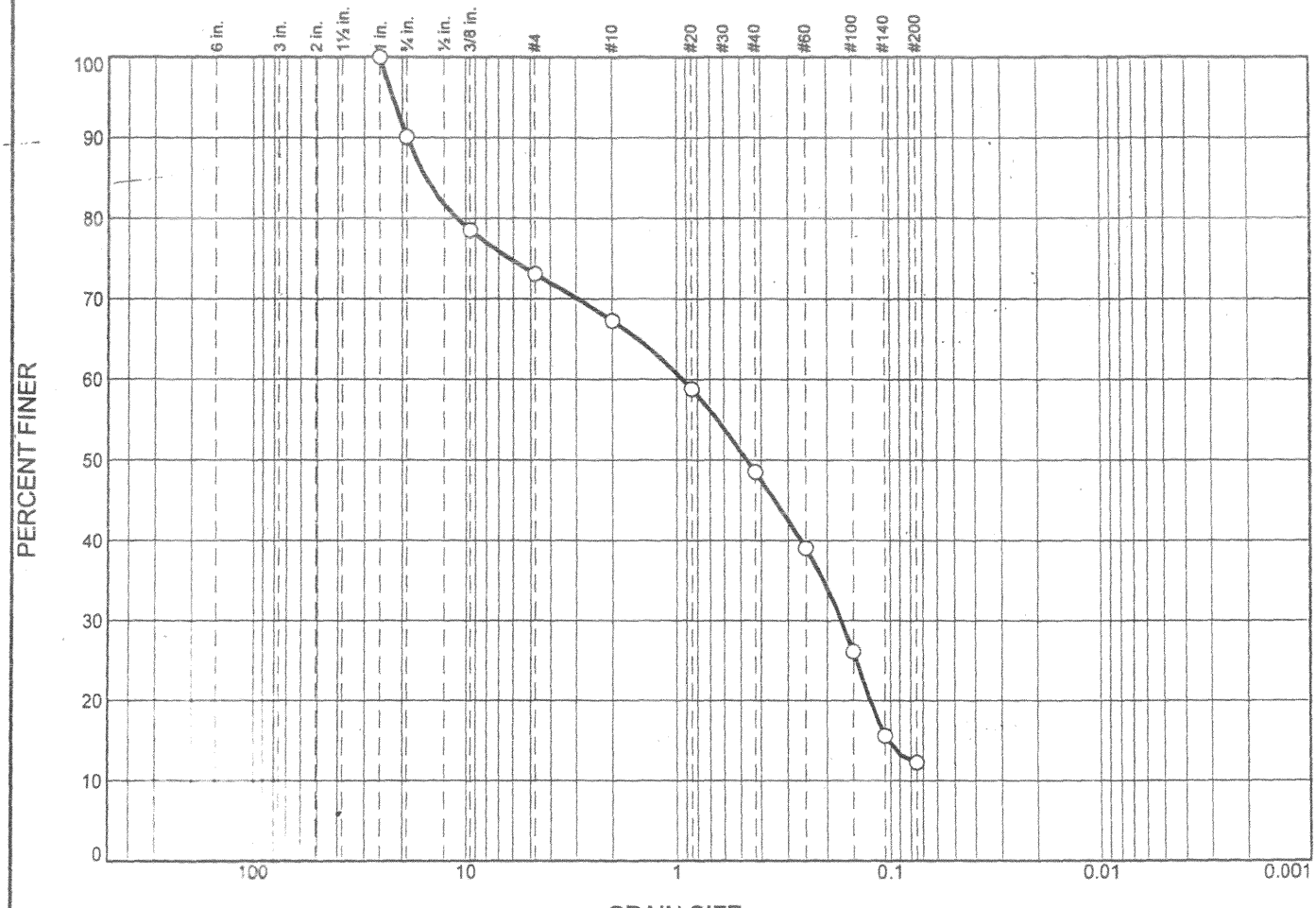
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	10	17	6	18	37	12	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			15.4527	0.9369	0.4658	0.1706	0.1028			

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0175 **Depth:** 23.5' **Sample Number:** 7

Date: ○

Remarks:
○ Moisture Content % 21.5 CP05-EAARS-CB-0271

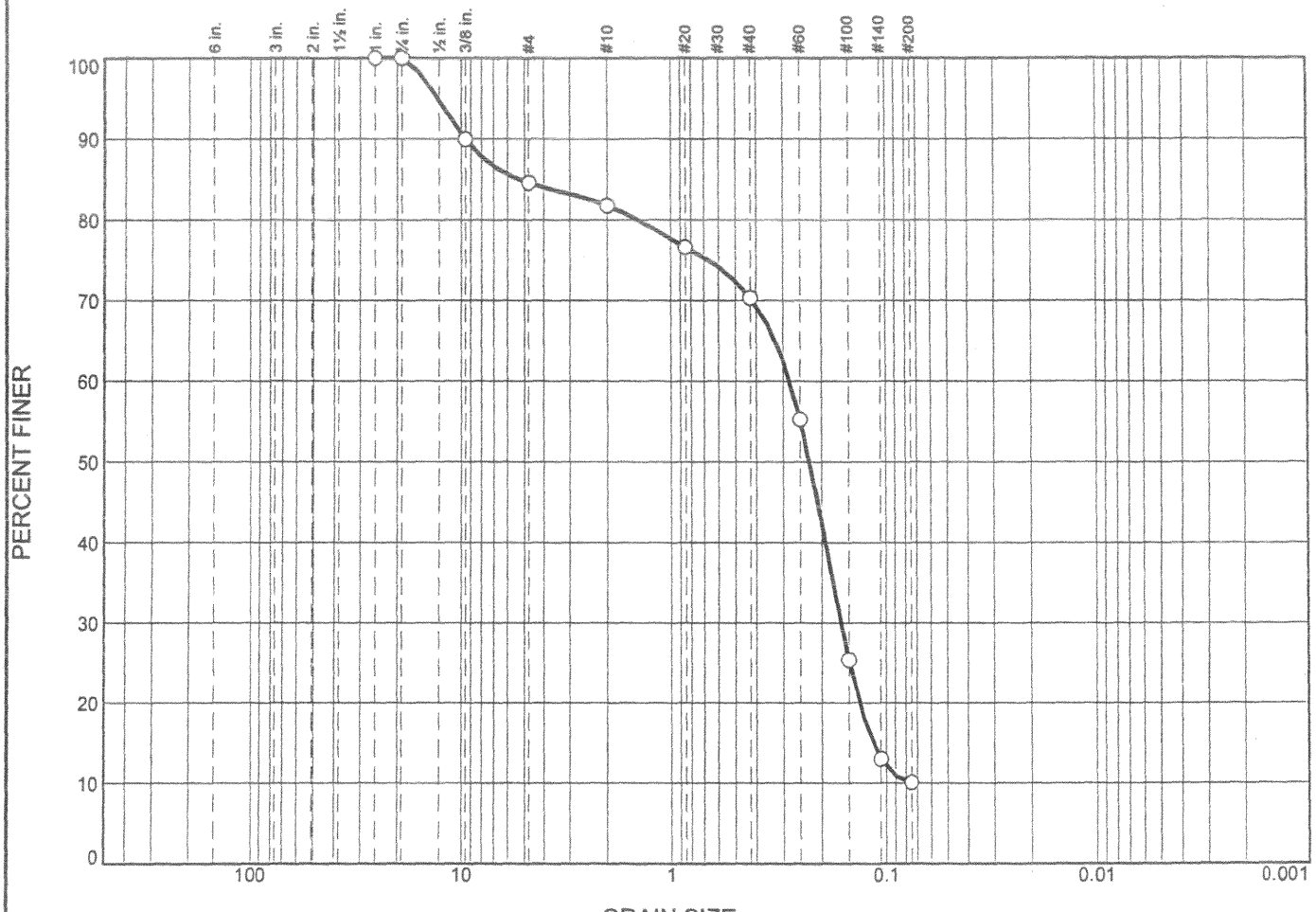
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pablo Casaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	15	3	12	60	10	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			5.2820	0.2788	0.2265	0.1632	0.1154			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0175 **Depth:** 38.5' **Sample Number:** 10

Date: ○

Remarks:
○ Moisture Content % 24.3 CP05-EAARS-CB-0271

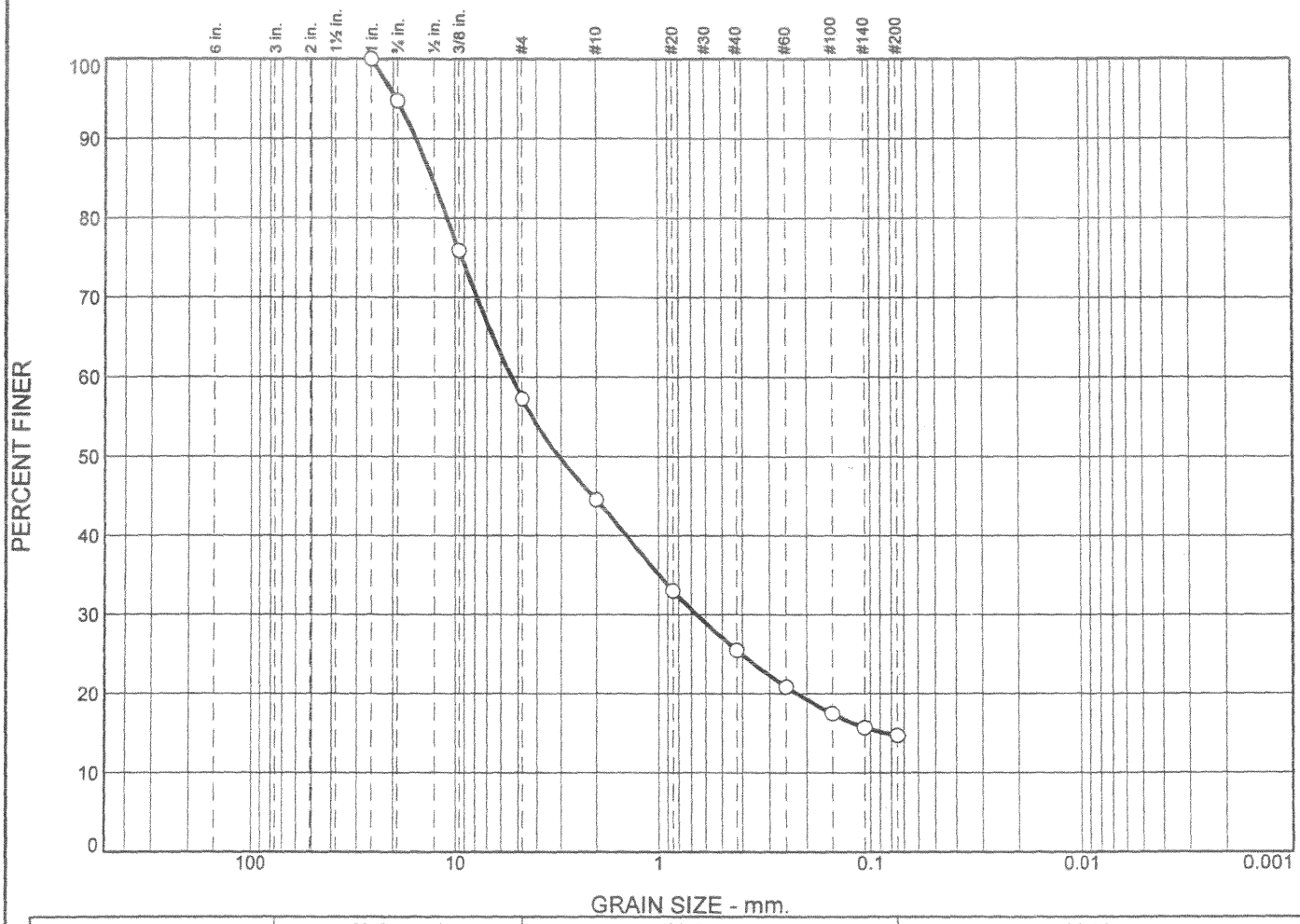
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	5	38	12	20	10	15	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			12.9561	5.3701	3.0774	0.6588	0.0847			

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0176 **Depth:** 5.1' **Sample Number:** 2

Date: ○

Remarks:
○ Moisture Content % 19.0 CP05-EAARS-CB-0272

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Miami Lakes, FL

Figure

Tested By: Pablo Camaraza Checked By: Michael Brown

Particle Size Distribution Report

	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	8	7	6	18	37	24	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.8044	0.4006	0.2281	0.1135				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0176 **Depth:** 10.0' **Sample Number:** 4

Date: ○

Remarks:
○ Moisture Content % 29.1
CP05-EAARS-CB-0272

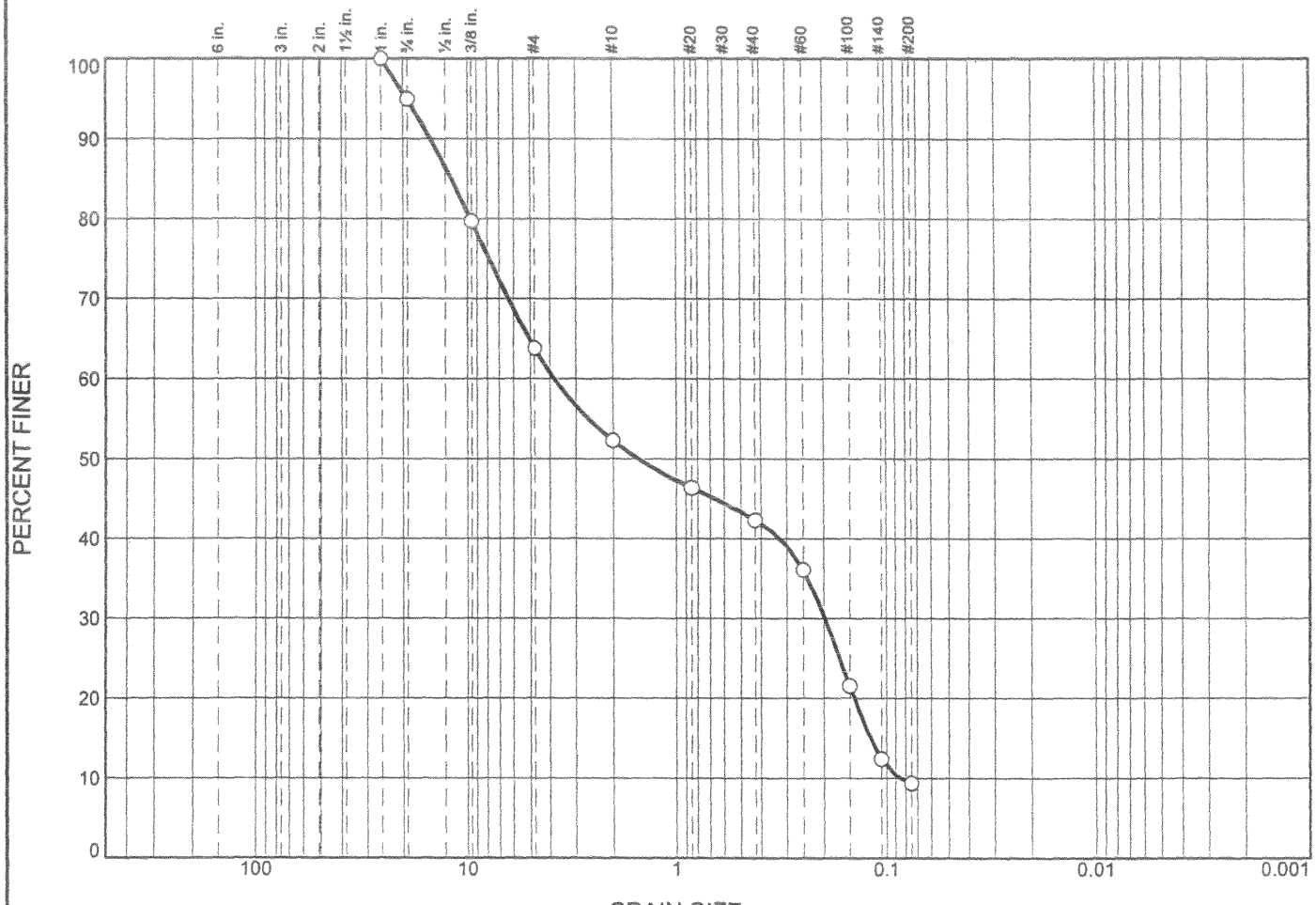
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	5	31	12	10	33	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			11.9080	3.8204	1.5043	0.1970	0.1197	0.0851	0.12	44.89

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0176 **Depth:** 18.5' **Sample Number:** 6

Date: ○

Remarks:
○ Moisture Content % 10.6
CP05-EAARS-CB-0272

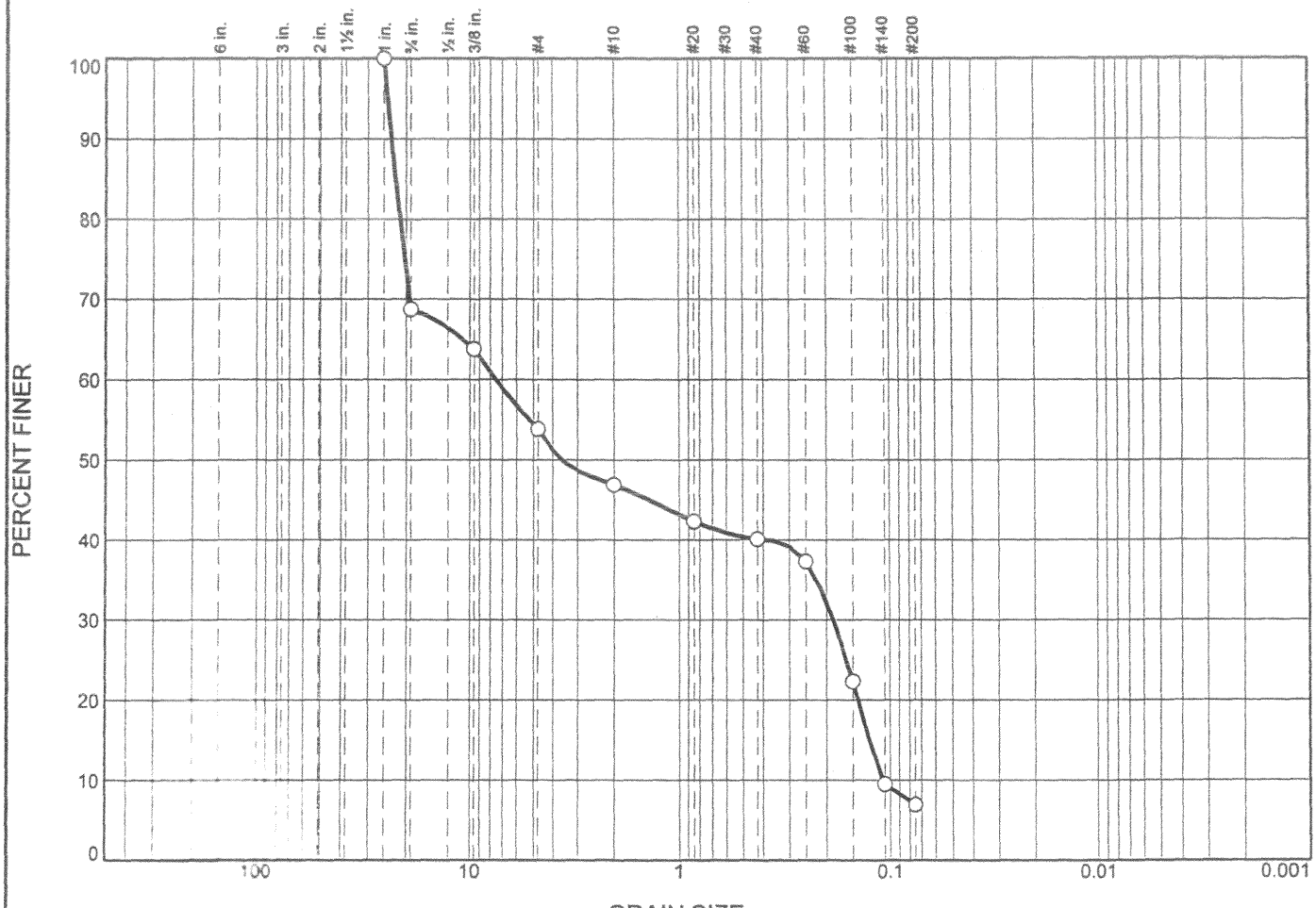
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	31	15	7	7	33	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			22.4677	7.5320	3.5705	0.1851	0.1256	0.1081	0.04	69.67

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0176 **Depth:** 23.5' **Sample Number:** 7

Date: ○

Remarks:
○ Moisture Content % 14.5
CP05-EAARS-CB-0272

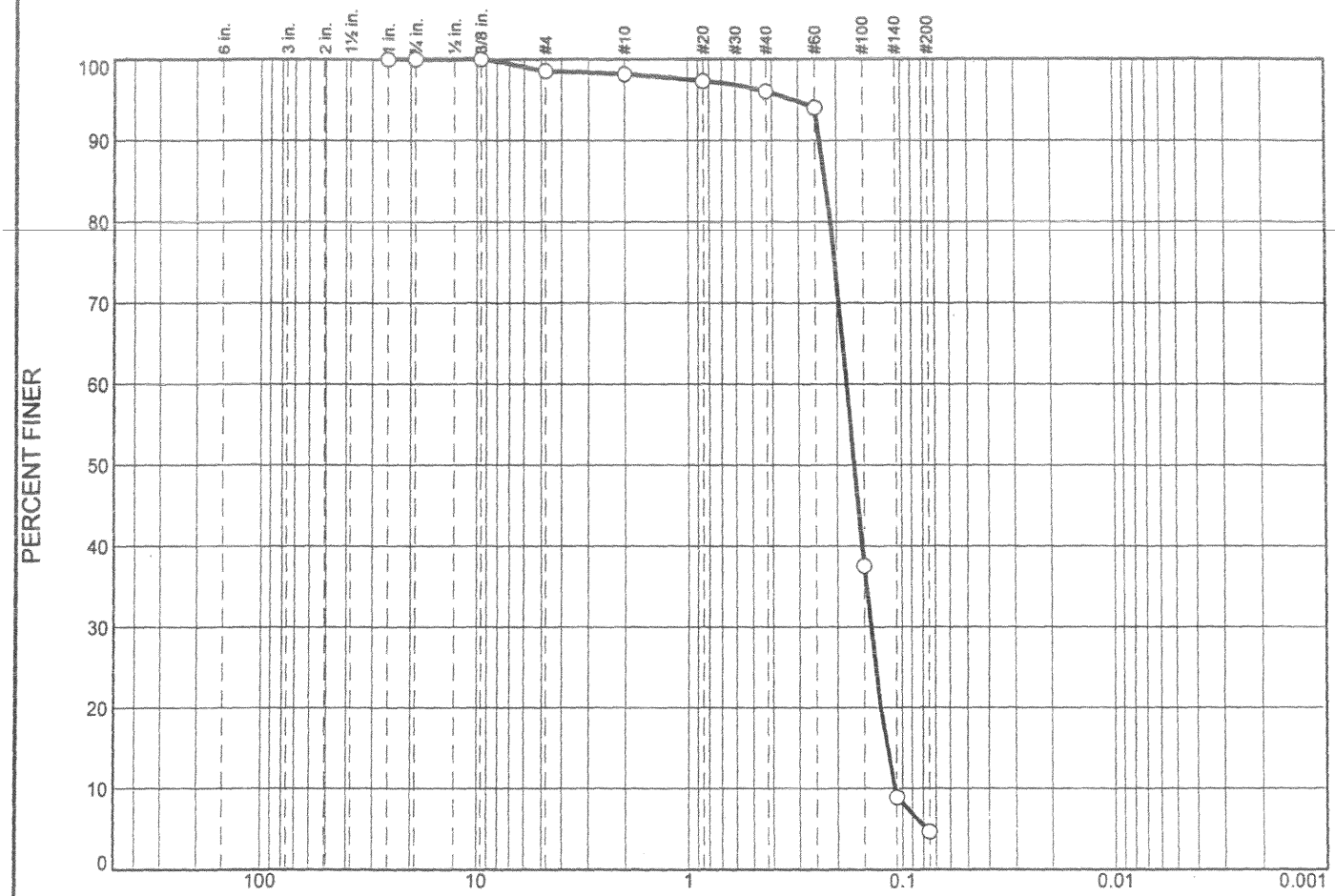
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pablo Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	1	1	2	91	5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2233	0.1798	0.1661	0.1400	0.1180	0.1085	1.01	1.66

Material Description	USCS	AASHTO
○ Poorly graded sand	SP	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0176 **Depth:** 28.5' **Sample Number:** 8

Date: ○

Remarks:
○ Moisture Content % 29.2
CP05-EAARS-CB-0272

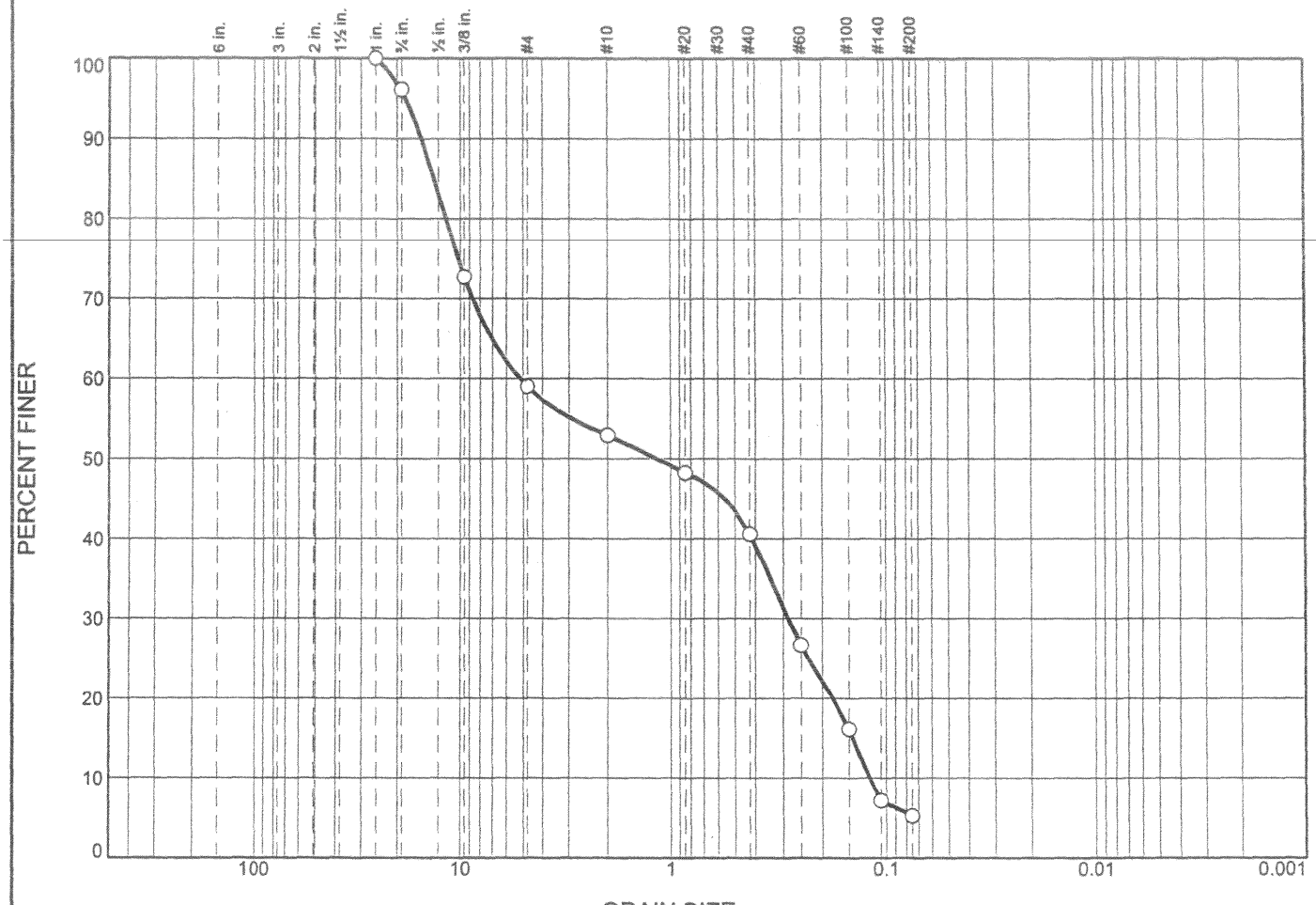
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pablo Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	4	37	6	12	36	5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			13.3245	5.1638	1.1584	0.2854	0.1436	0.1202	0.13	42.96

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0176 **Depth:** 33.5' **Sample Number:** 9

Date: ○

Remarks:
○ Moisture Content % 15.6 CP05-EAARS-CB-0272

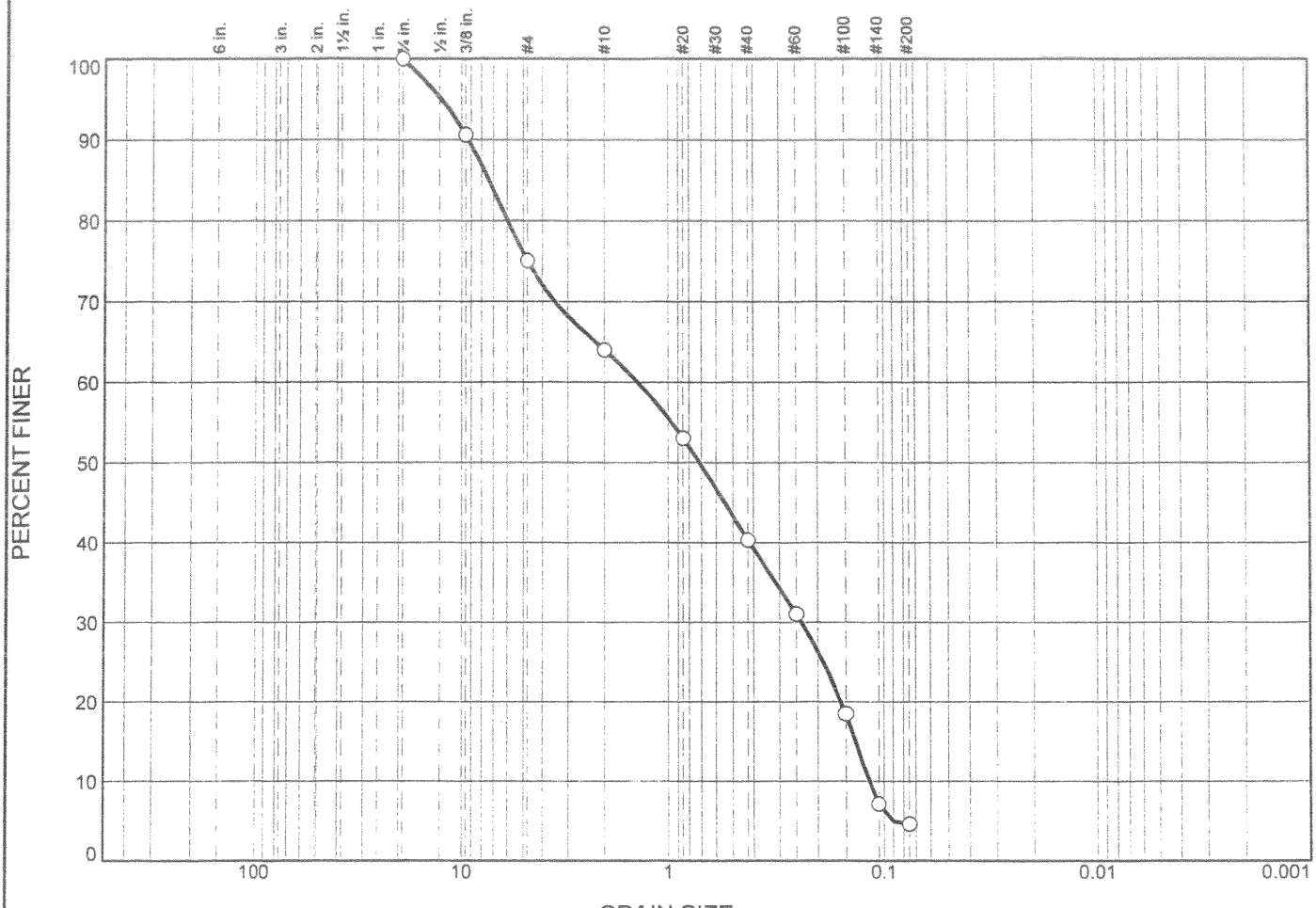
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	24.9	11.1	23.6	35.8	4.6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_U
○			7.3567	1.3892	0.7137	0.2365	0.1360	0.1179	0.34	11.78

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB176 **Depth:** 58.5'-60.0 **Sample Number:** CB176

Remarks:
○ Moisture Content % 21.4 CP05-EAARS-CB-0272

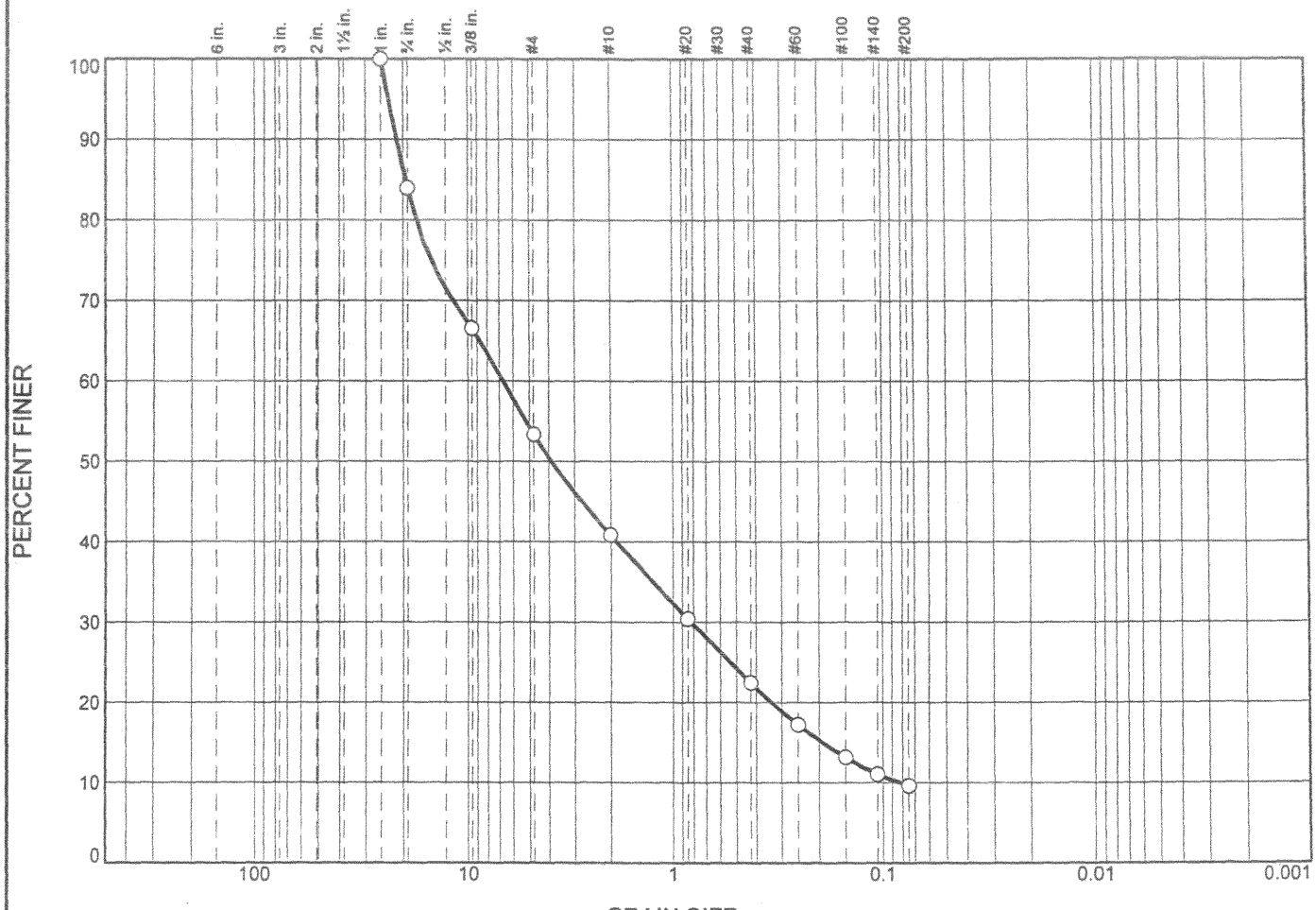
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: M Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	16	31	12	19	12	10	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			19.4681	6.7137	3.8994	0.8206	0.1921	0.0831	1.21	80.82

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 5.5' **Sample Number:** 5

Date: ○

Remarks:
○ Moisture Content % 24.3 CP05-EAARS-CB-0275

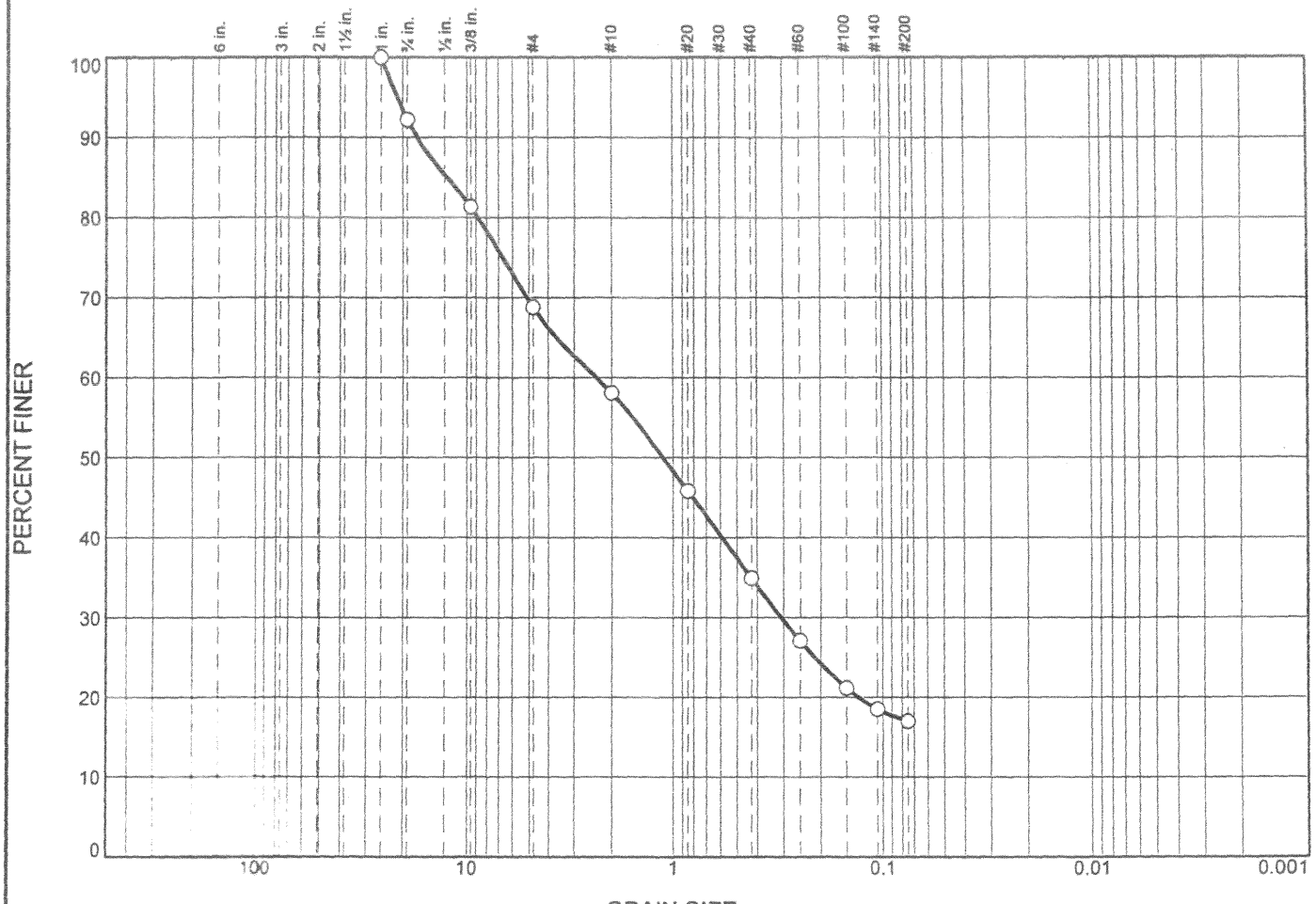
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	8	23	11	23	18	17	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			12.3808	2.3590	1.1147	0.3071				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 7.5' **Sample Number:** 3

Date: ○

Remarks:
○ Moisture Content % 25.0 CP05-EAARS-CB-0275

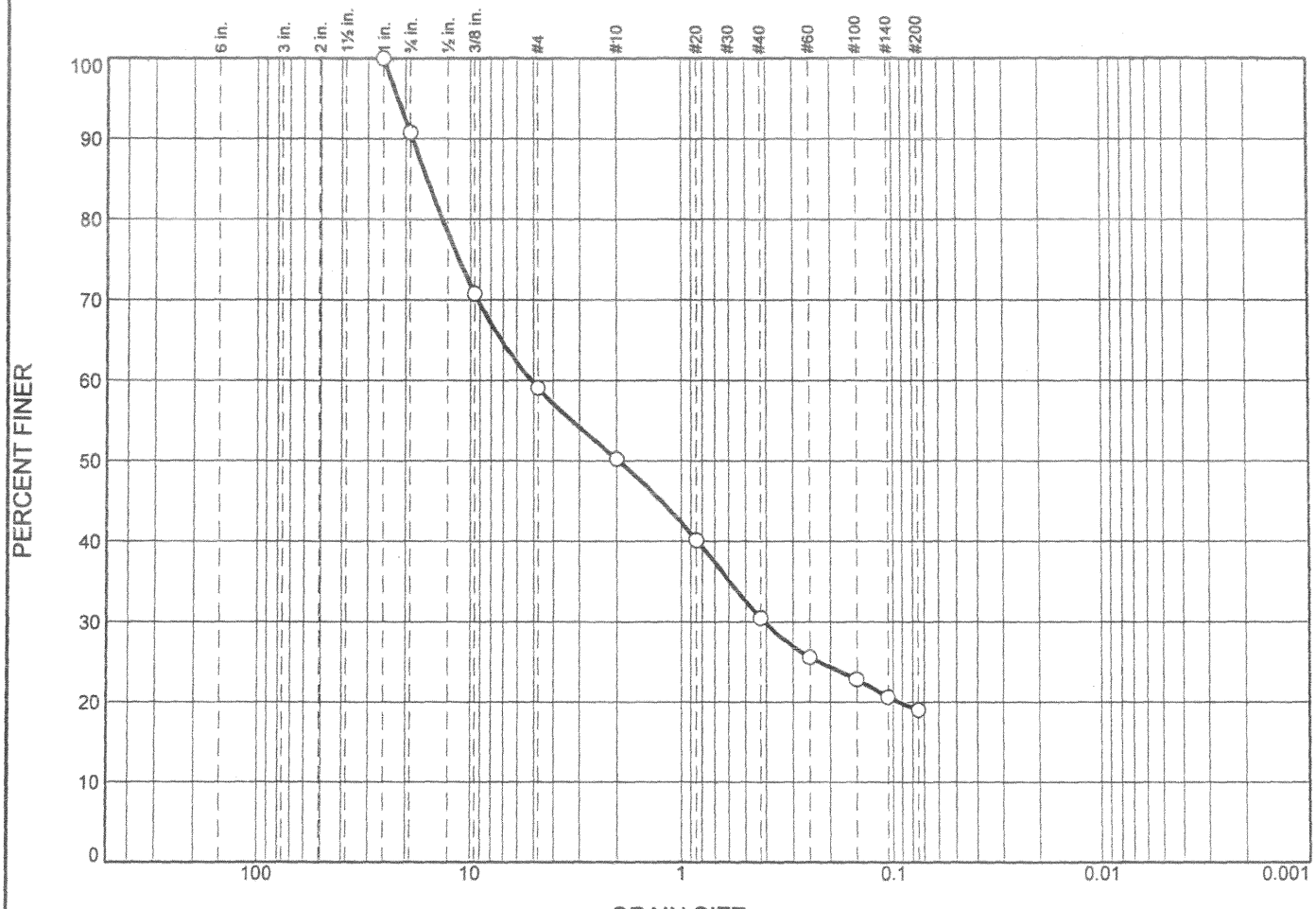
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pablo Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	9	32	9	20	11	19	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			15.8645	5.1109	1.9488	0.4078				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 13.5' **Sample Number:** 4

Date: ○

Remarks:
○ Moisture Content % 17.7 CP05-EAARS-CB-0275

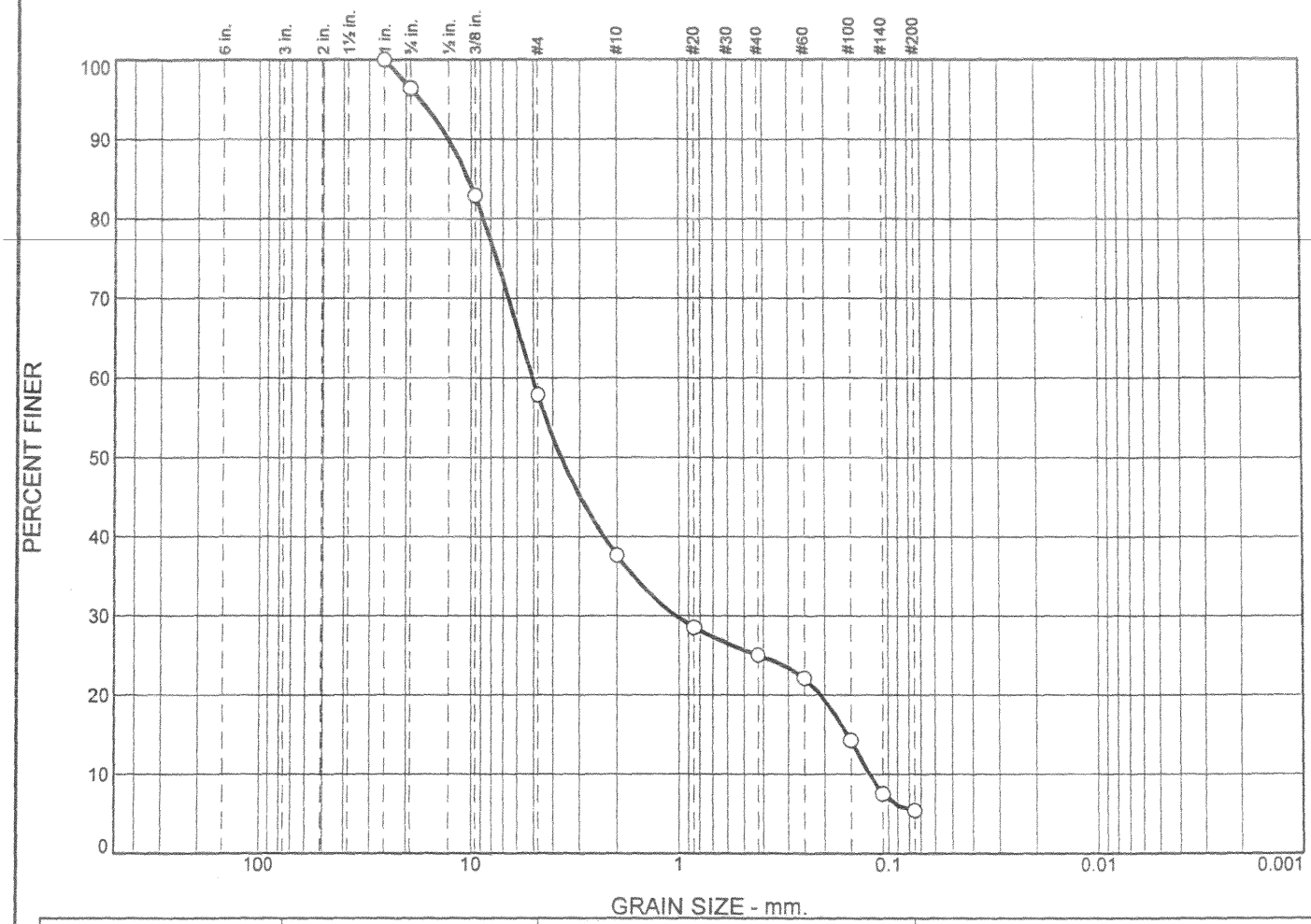
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pablo Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	4	38	20	13	20	5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			10.2470	5.0457	3.6562	1.0304	0.1554	0.1226	1.72	41.14

Material Description	USCS	AASHTO
○ Well graded sand with gravel	SW	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 23.5' **Sample Number:** 6

Date: ○

Remarks:
○ Moisture Content % 14.2 CP05-EAARS-CB-0275

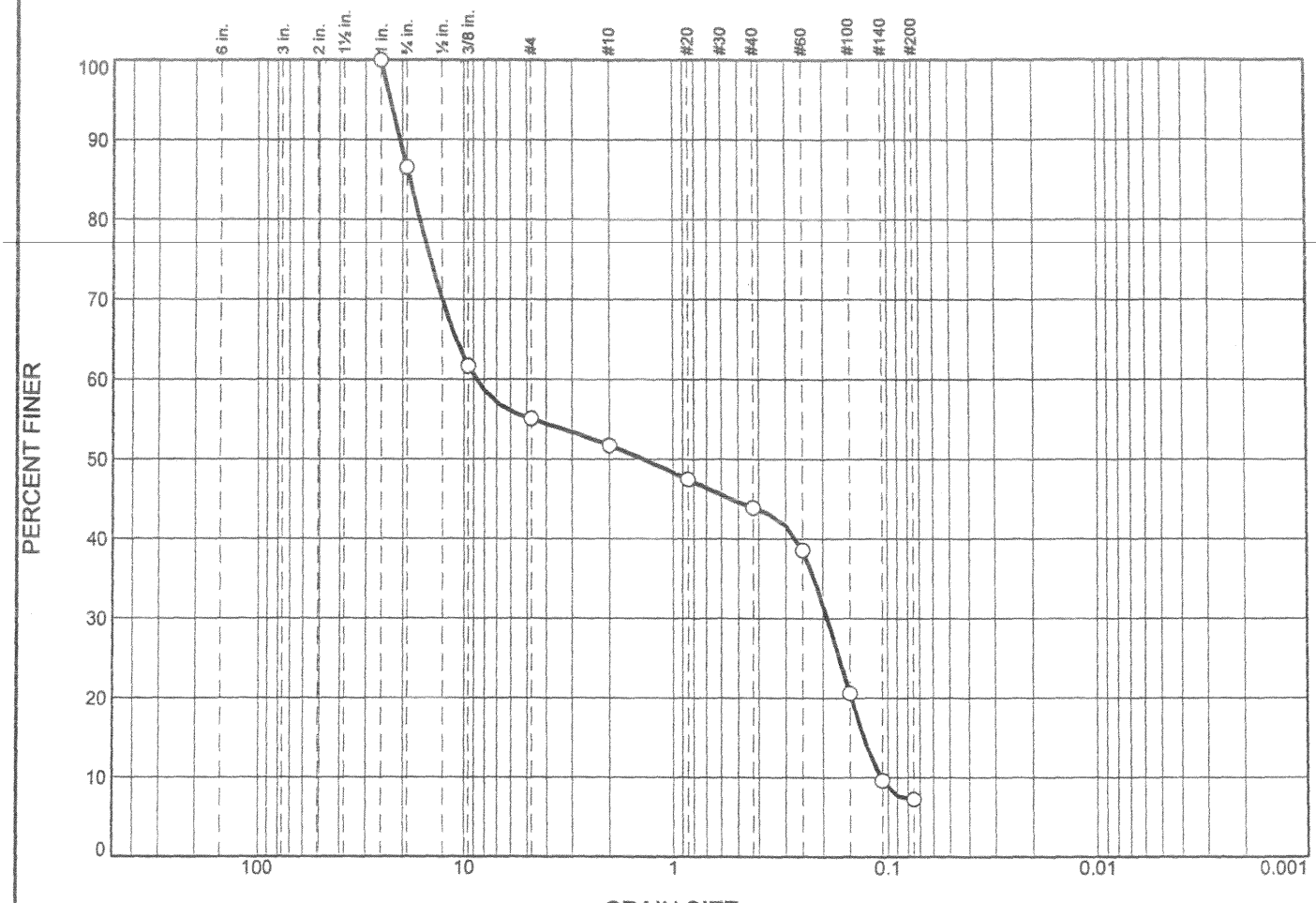
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	13	32	3	8	37	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			18.4152	8.7349	1.3774	0.1906	0.1291	0.1081	0.04	80.82

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 28.5' **Sample Number:** 7

Date: ○

Remarks:
○ Moisture Content % 15.1 CP05-EAARS-CB-0275

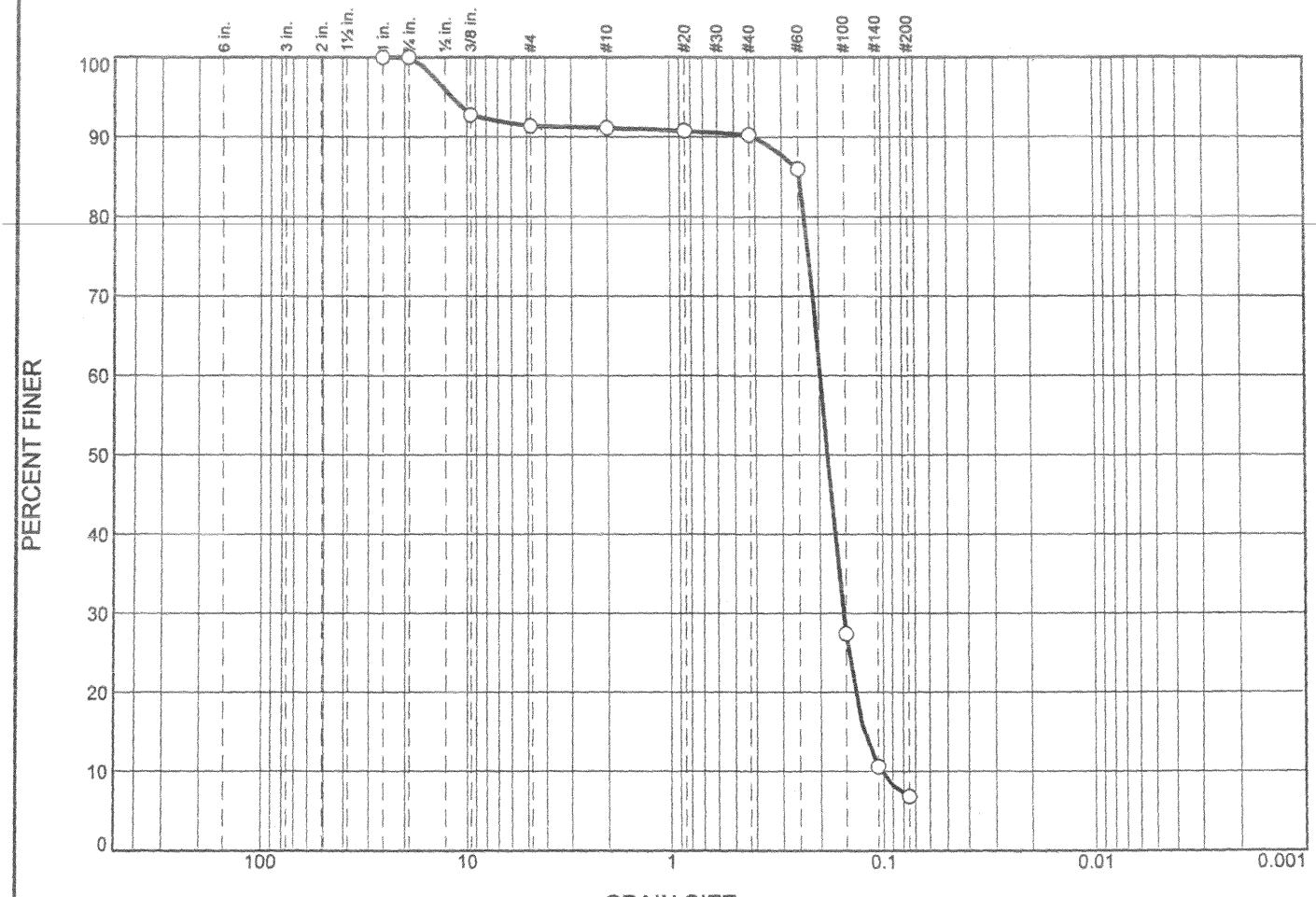
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	9	0	1	83	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2469	0.1969	0.1824	0.1541	0.1236	0.1027	1.17	1.92

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 33.5' **Sample Number:** 8

Date: ○

Remarks:
○ Moisture Content % 25.2 CP05-EAARS-CB-0275

Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report

	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	19	8	1	6	62	4	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			20.3903	0.3211	0.2542	0.1906	0.1509	0.1325	0.85	2.42

Material Description	USCS	AASHTO
○ Poorly graded sand with gravel	SP	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 38.5' **Sample Number:** 9

Date: ○

Remarks:
○ Moisture Content % 20.9 CP05-EAARS-CB-0275

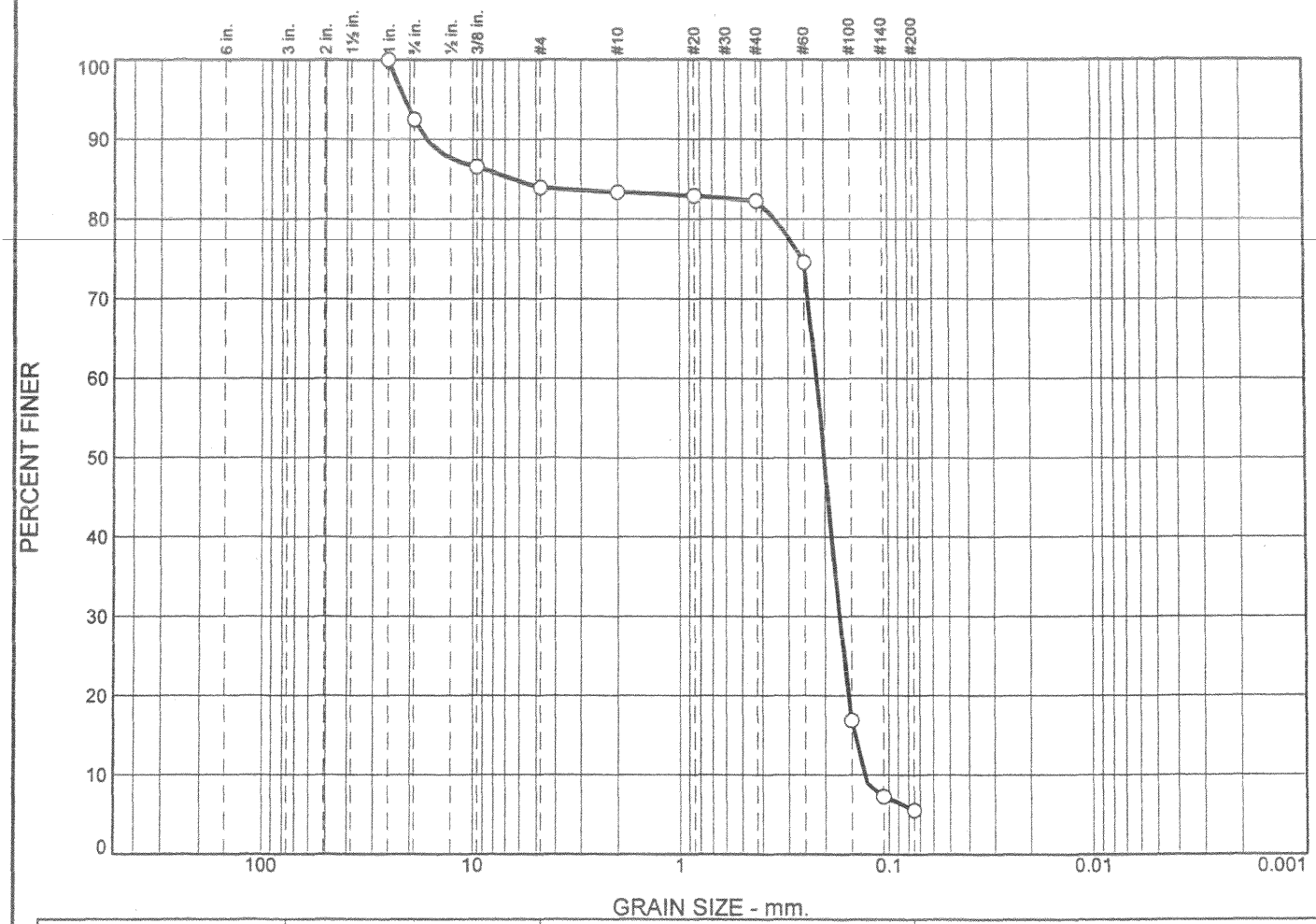
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	8	8	1	1	76	6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			6.4523	0.2171	0.2006	0.1713	0.1460	0.1312	1.03	1.65

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 48.5' **Sample Number:** 11

Date: ○

Remarks:
○ Moisture Content % 20.7 CP05-EAARS-CB-0275

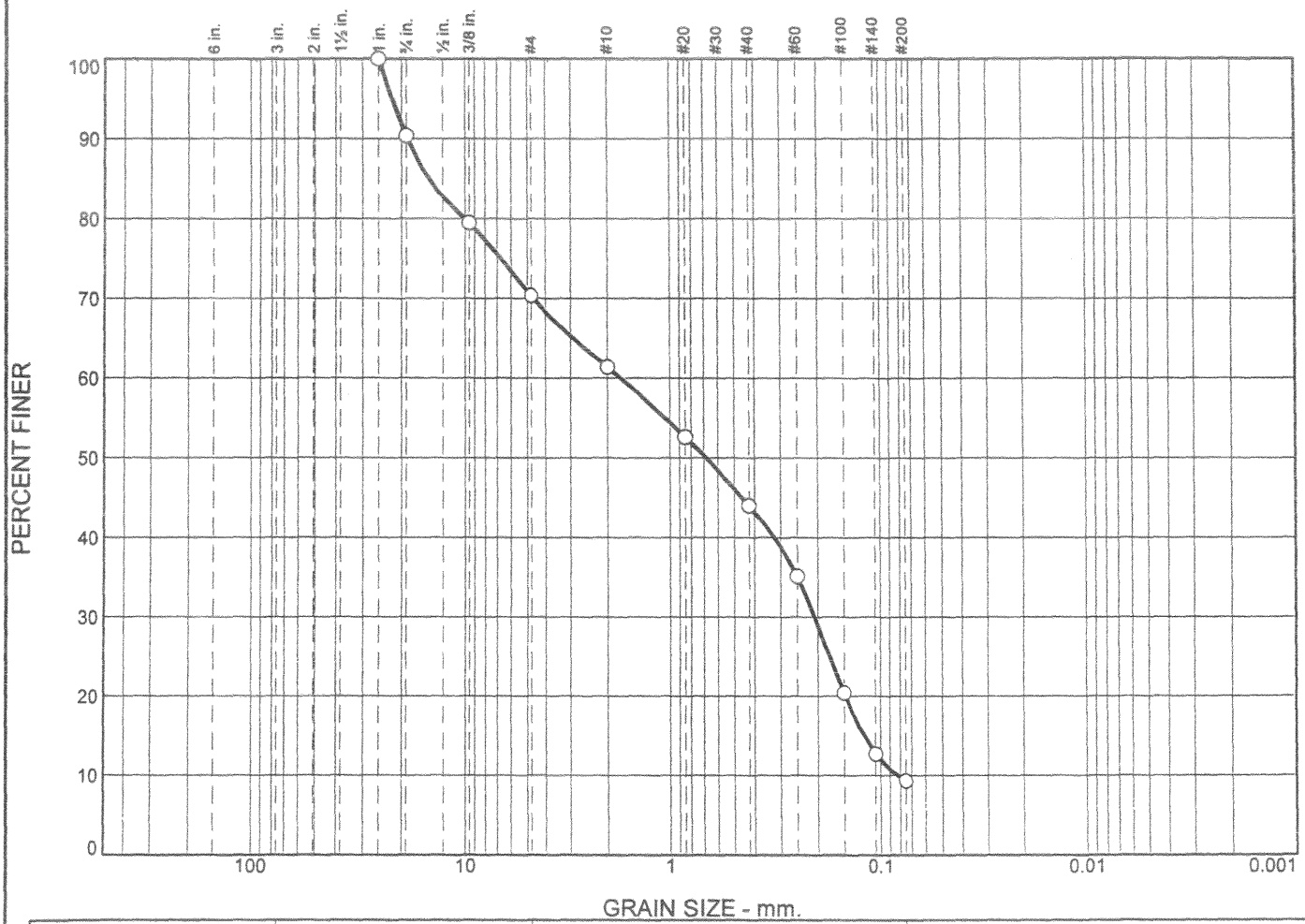
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	10	20	9	17	35	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			14.8821	1.7256	0.6803	0.2069	0.1204	0.0825	0.30	20.91

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 58.5' **Sample Number:** 13

Date: ○

Remarks:
○ Moisture Content % 22.7 CP05-EAARS-CB-0275

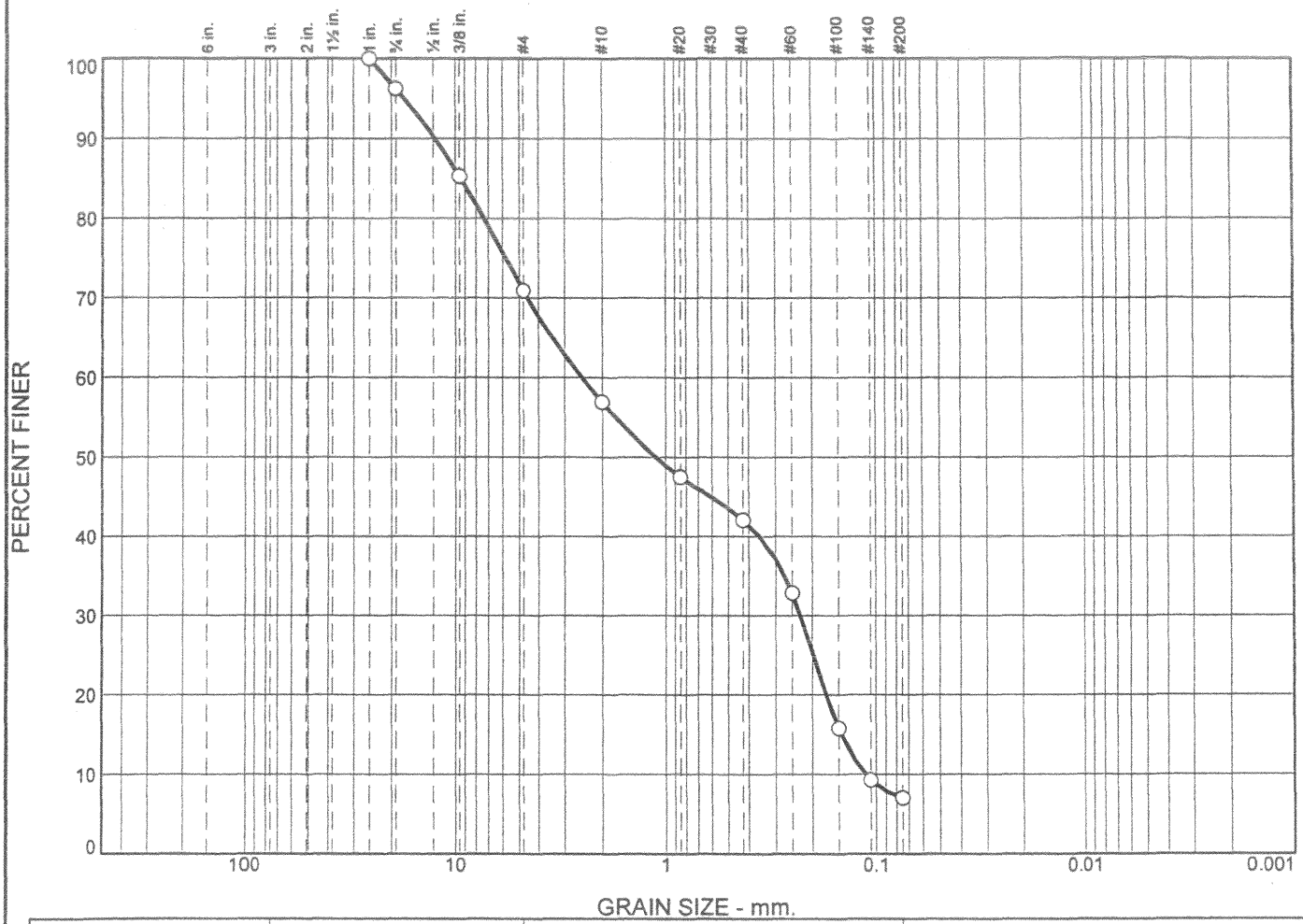
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	4	25	14	15	35	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			9.3797	2.4919	1.1159	0.2280	0.1457	0.1125	0.19	22.16

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 63.5' **Sample Number:** 14

Date: ○

Remarks:
○ Moisture Content % 28.1 CP05-EAARS-CB-0275

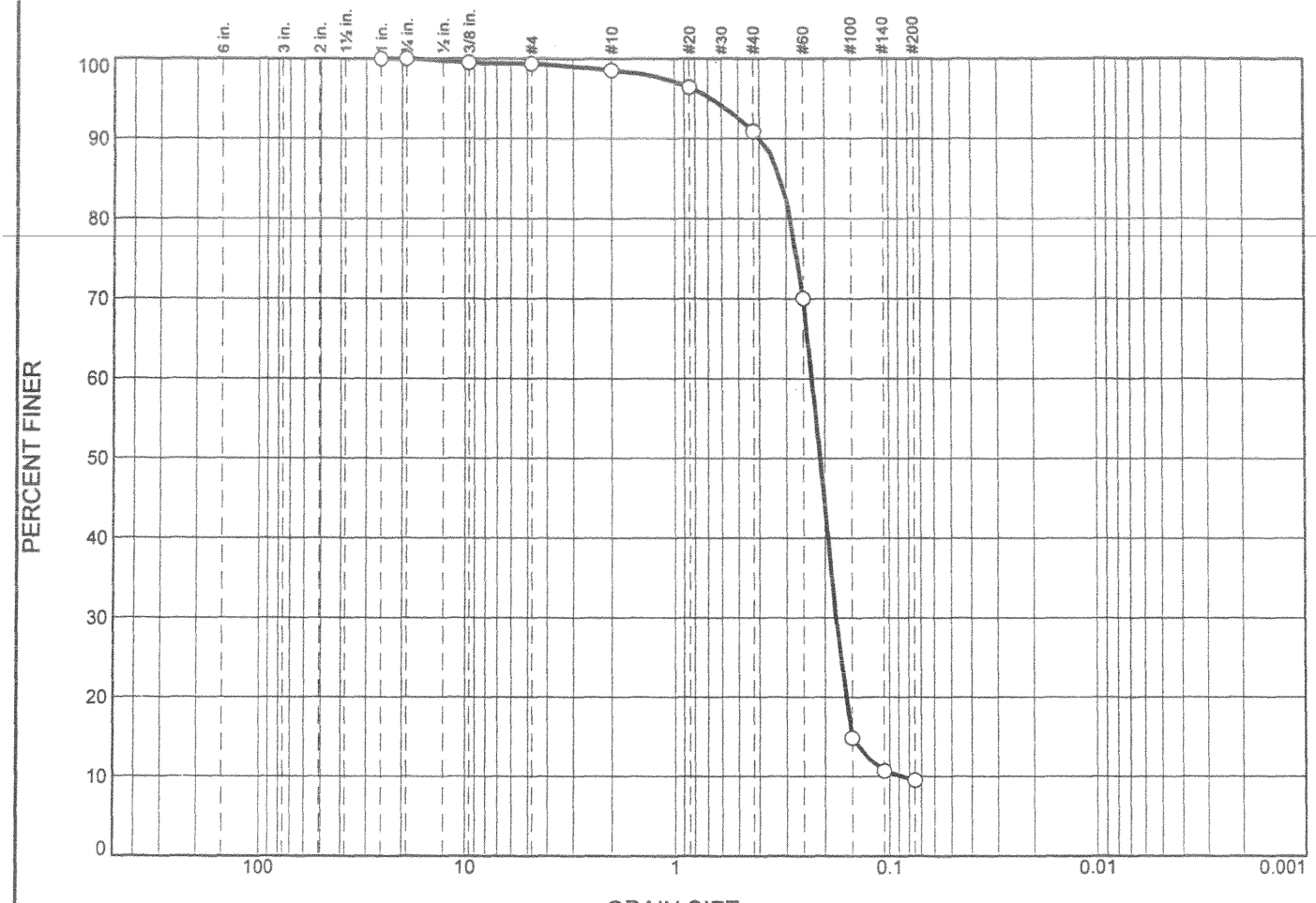
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Peter Carraraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	1	0	8	81	10	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.3171	0.2274	0.2094	0.1777	0.1504	0.0868	1.60	2.62

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 73.5' **Sample Number:** 16

Date: ○

Remarks:
○ Moisture Content % 22.3 CP05-EAARS-CB-0275

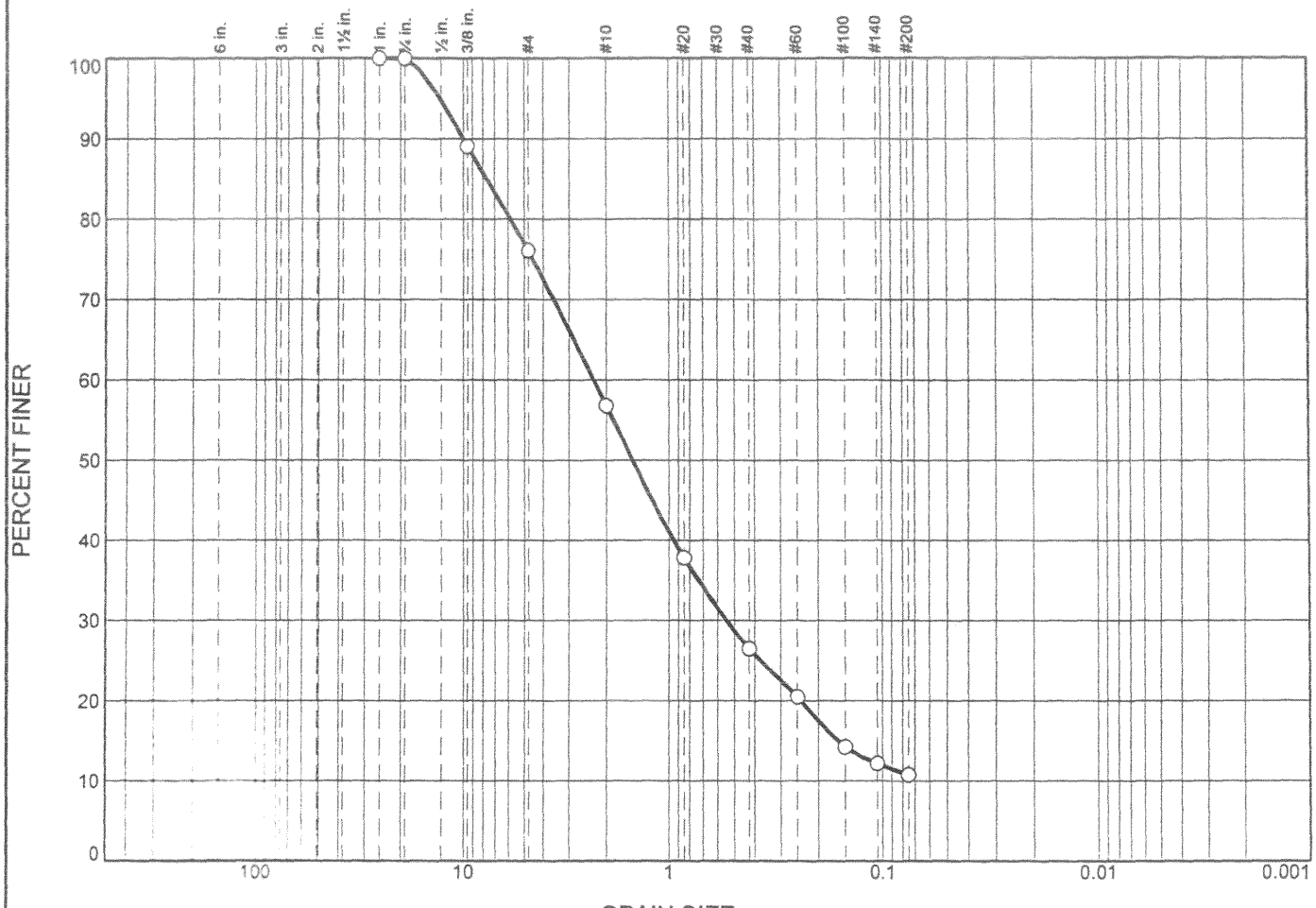
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	24	19	30	16	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			7.6741	2.2908	1.4926	0.5453	0.1619			

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 83.5' **Sample Number:** 18

Date: ○

Remarks:
○ Moisture Content % 20.0 CP05-EAARS-CB-0275

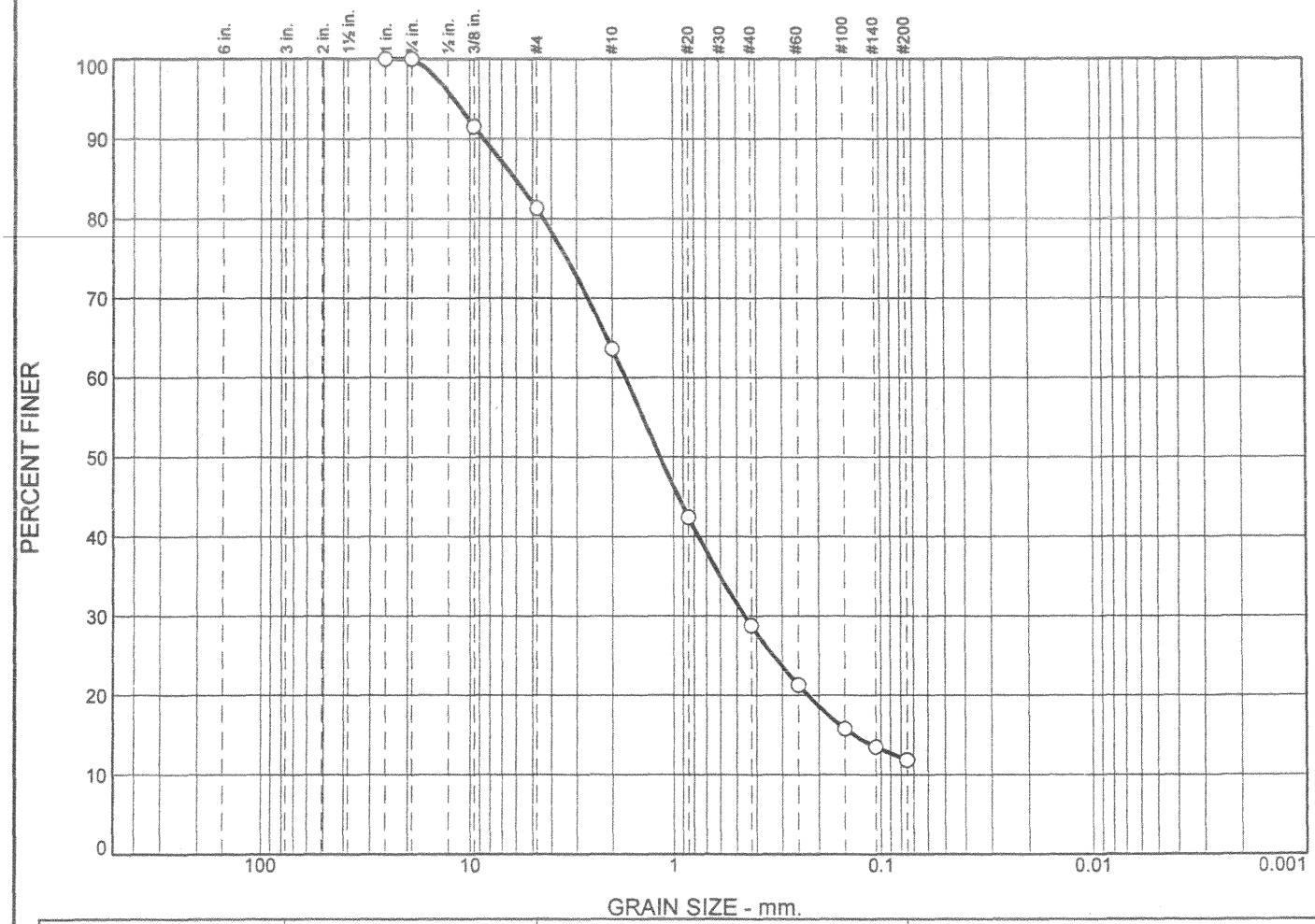
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	19	17	35	17	12	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			6.0425	1.7226	1.1603	0.4570	0.1355			

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0179 **Depth:** 93.5' **Sample Number:** 20

Date: ○

Remarks:
○ Moisture Content % 17.7 CP05-EAARS-CB-0275

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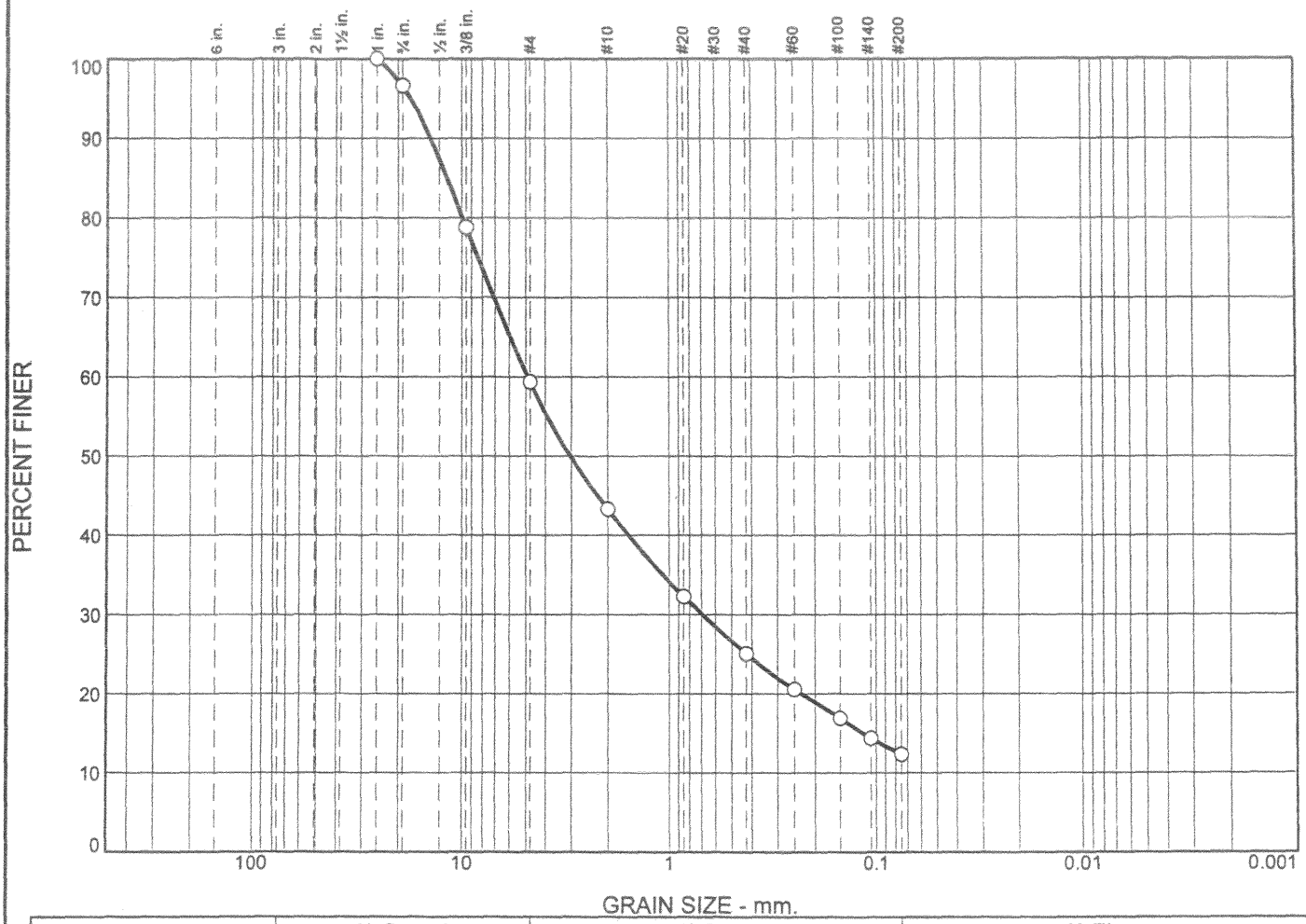
Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	3	38	16	18	13	12	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			11.6913	4.8791	3.0291	0.6926	0.1158			

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0180 **Depth:** 8.0' **Sample Number:** 3

Date: ○

Remarks:
○ Moisture Content % 16.7 CP05-EAARS-CB-0276

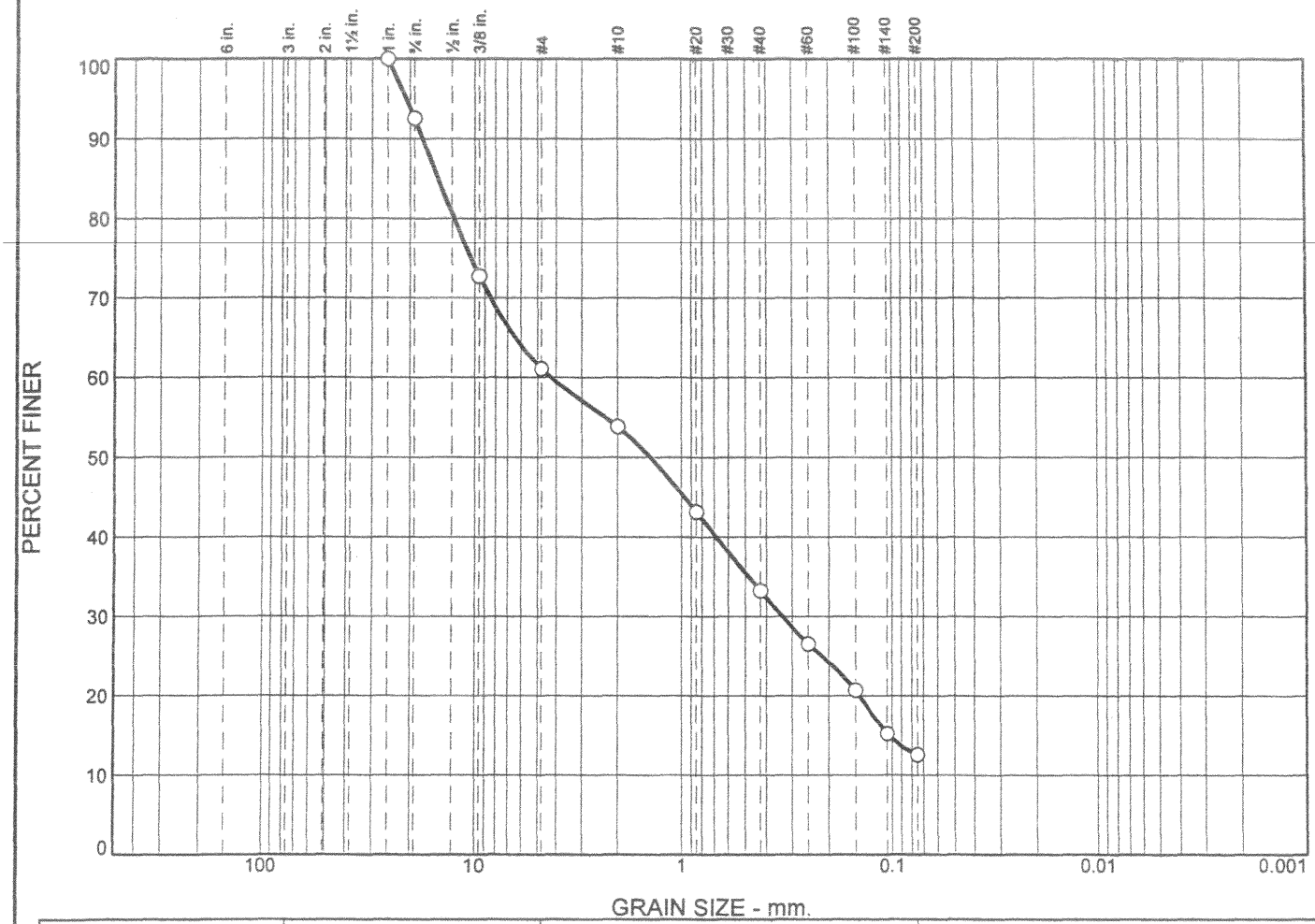
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	7	32	7	21	20	13	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			14.6956	4.2654	1.4109	0.3341	0.1042			

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0180 **Depth:** 13.5' **Sample Number:** 5

Date: ○

Remarks:
○ Moisture Content % 24.8 CP05-EAARS-CB-0276

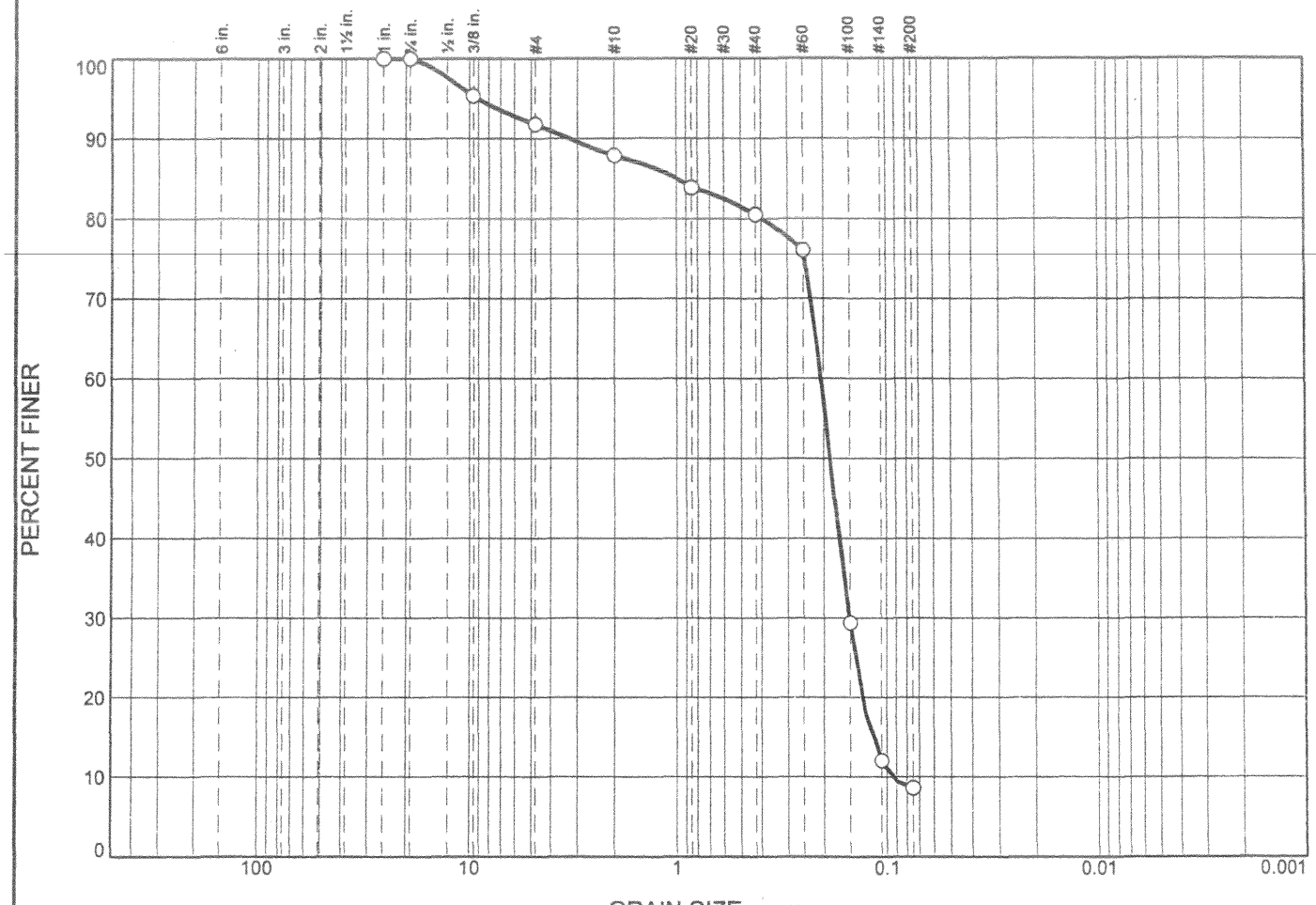
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Brian Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	8	4	8	71	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.9899	0.2050	0.1858	0.1511	0.1170	0.0946	1.18	2.17

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0180 **Depth:** 18.5' **Sample Number:** 6

Date: ○

Remarks:
○ Moisture Content % 25.5 CP05-EAARS-CB-0276

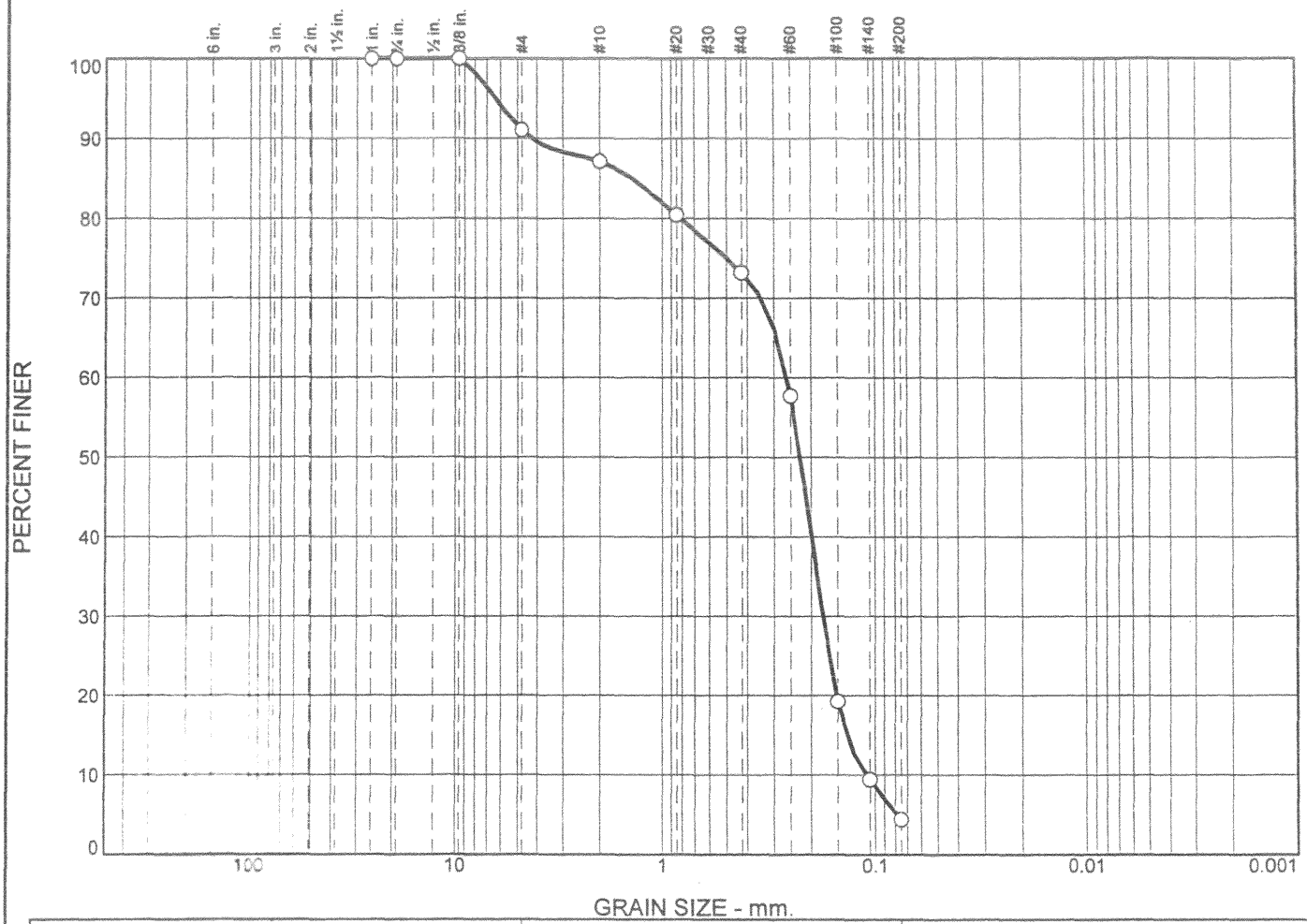
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	9	4	14	69	4	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			1.4049	0.2599	0.2242	0.1758	0.1363	0.1099	1.08	2.36

Material Description	USCS	AASHTO
○ Poorly graded sand	SP	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0180 **Depth:** 23.5' **Sample Number:** 7

Date: ○

Remarks:
○ Moisture Content % 24.6
CP05-EAARS-CB-0276

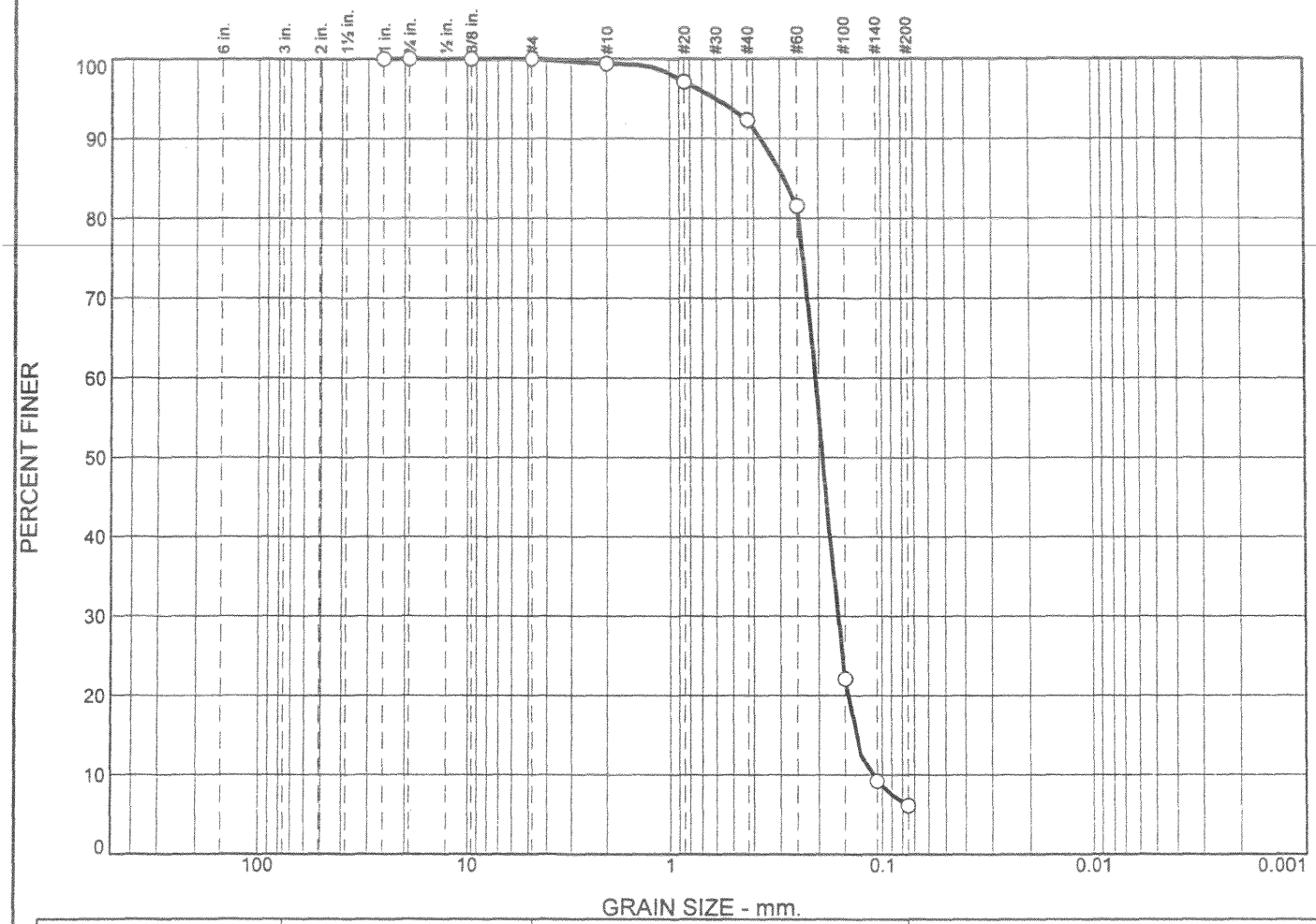
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	1	7	86	6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2876	0.2060	0.1910	0.1627	0.1343	0.1126	1.14	1.83

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0180 **Depth:** 28.5' **Sample Number:** 8

Date: ○

Remarks:
○ Moisture Content % 26.5
CP05-EAARS-CB-0276

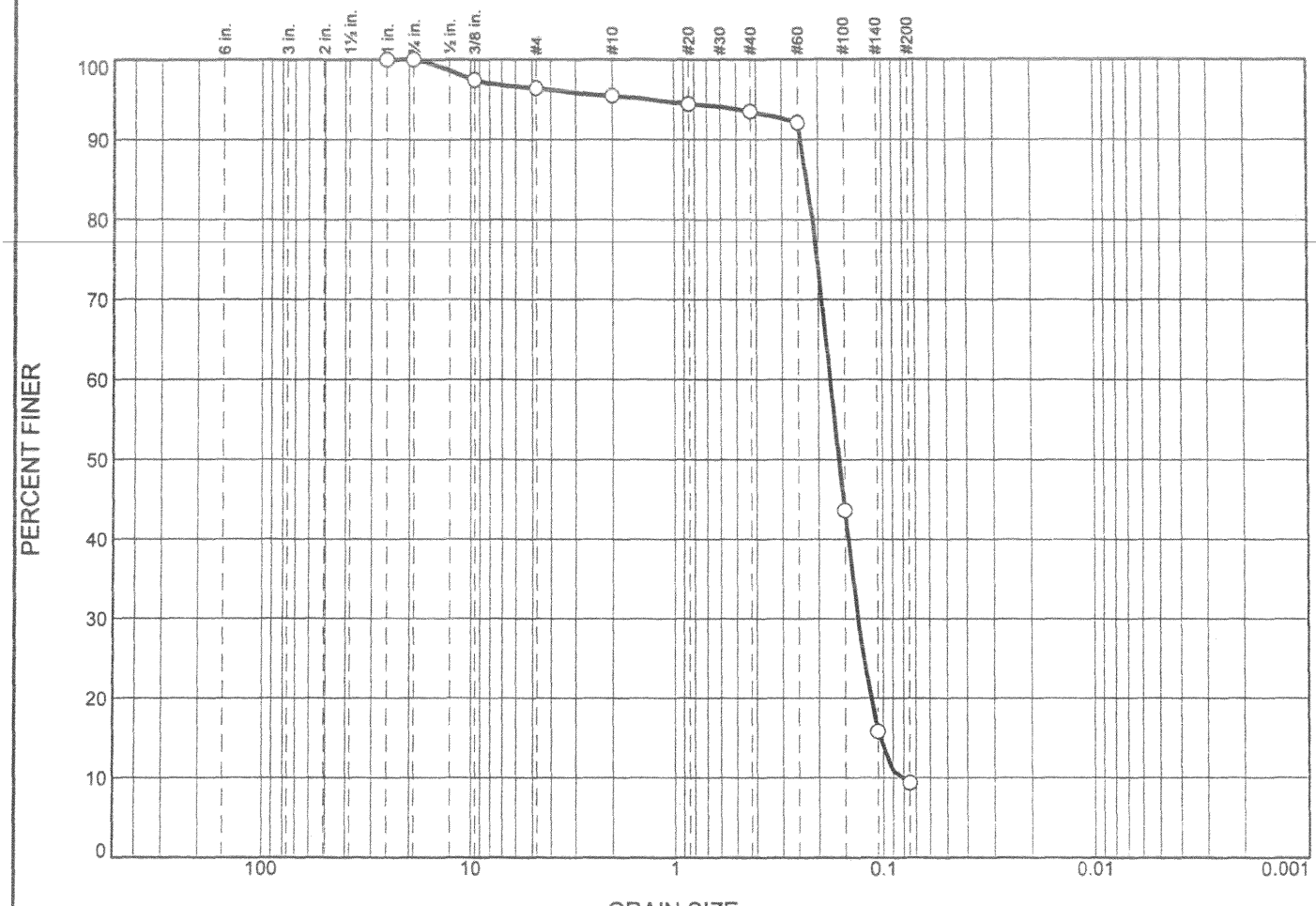
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	4	1	2	84	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2244	0.1743	0.1591	0.1303	0.1041	0.0835	1.17	2.09

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0180 **Depth:** 33.5' **Sample Number:** 9

Date: ○

Remarks:
○ Moisture Content % 27.4
CP05-EAARS-CB-0276

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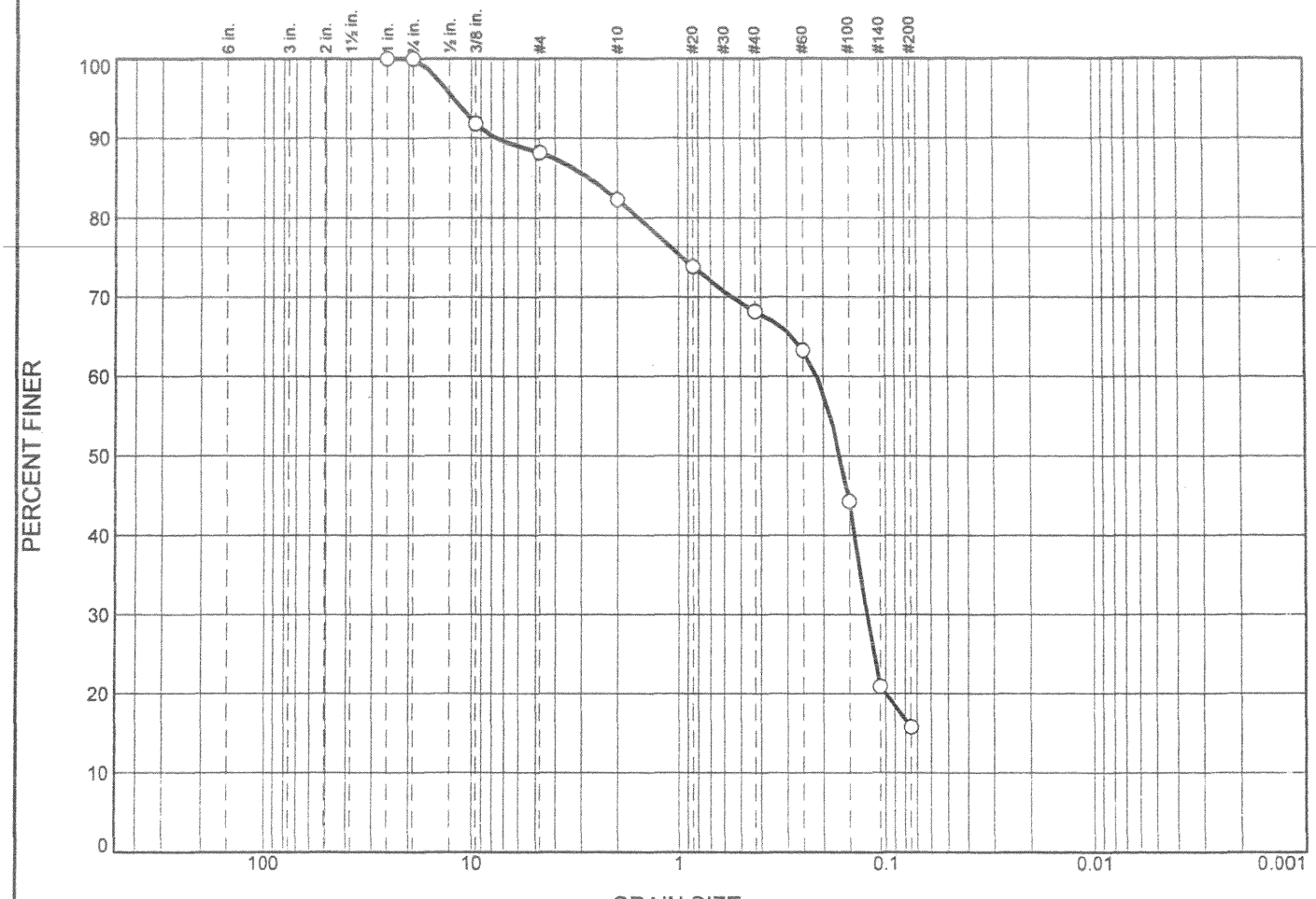
Miami Lakes, FL

Figure

Tested By: Pablo Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	12	6	14	52	16	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.7524	0.2145	0.1653	0.1231				

Material Description	USCS	AASHTO
○ Silty sand	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0181 **Depth:** 23.5' **Sample Number:** 7

Date: ○

Remarks:
○ Moisture Content % 24.7 CP05-EAARS-CB-0277

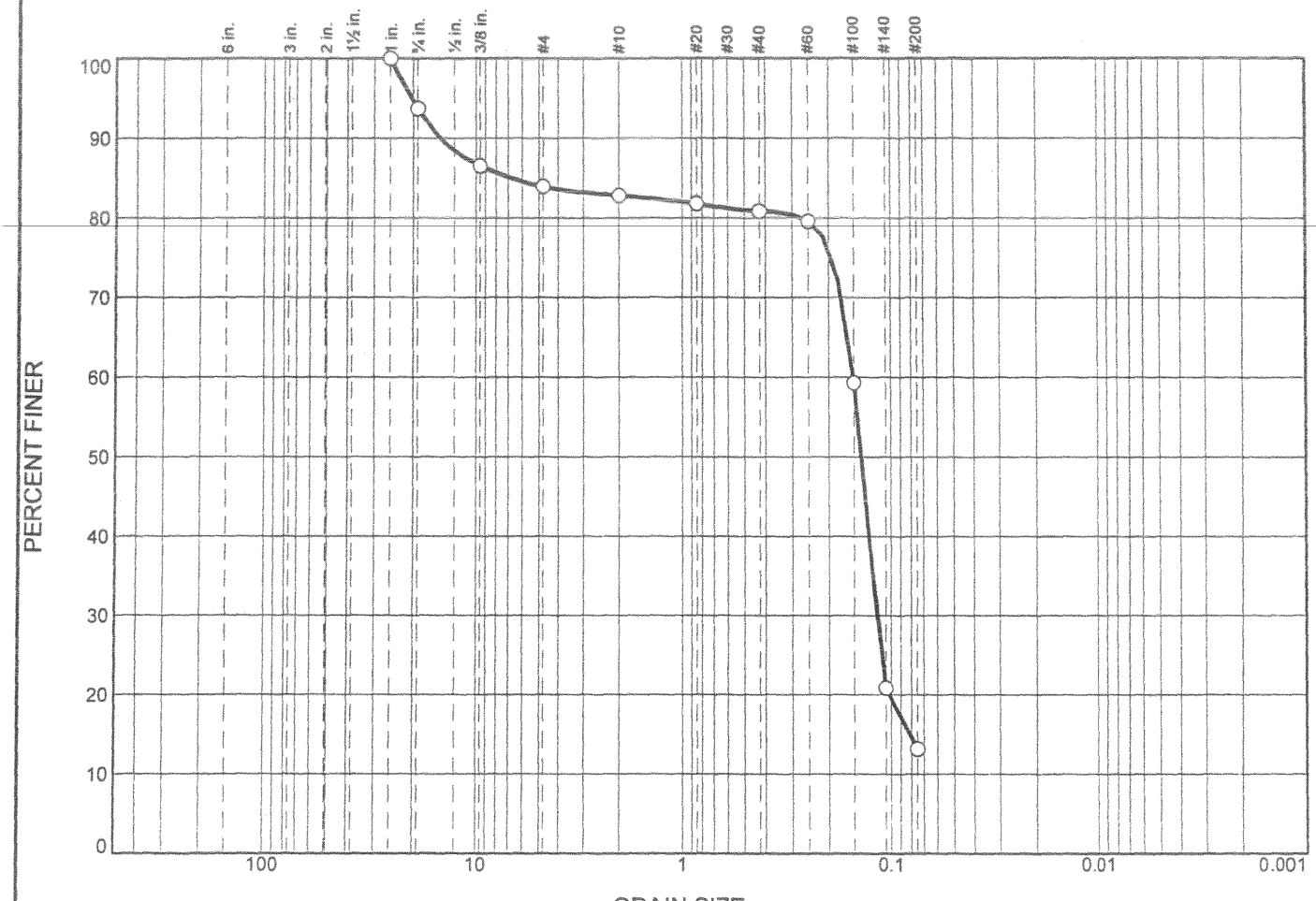
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Osmaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	6	10	1	2	68	13	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			6.7701	0.1510	0.1378	0.1167	0.0814			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0181 **Depth:** 28.5' **Sample Number:** 8

Date: ○

Remarks:
○ Moisture Content % 24.1 CP05-EAARS-CB-0277

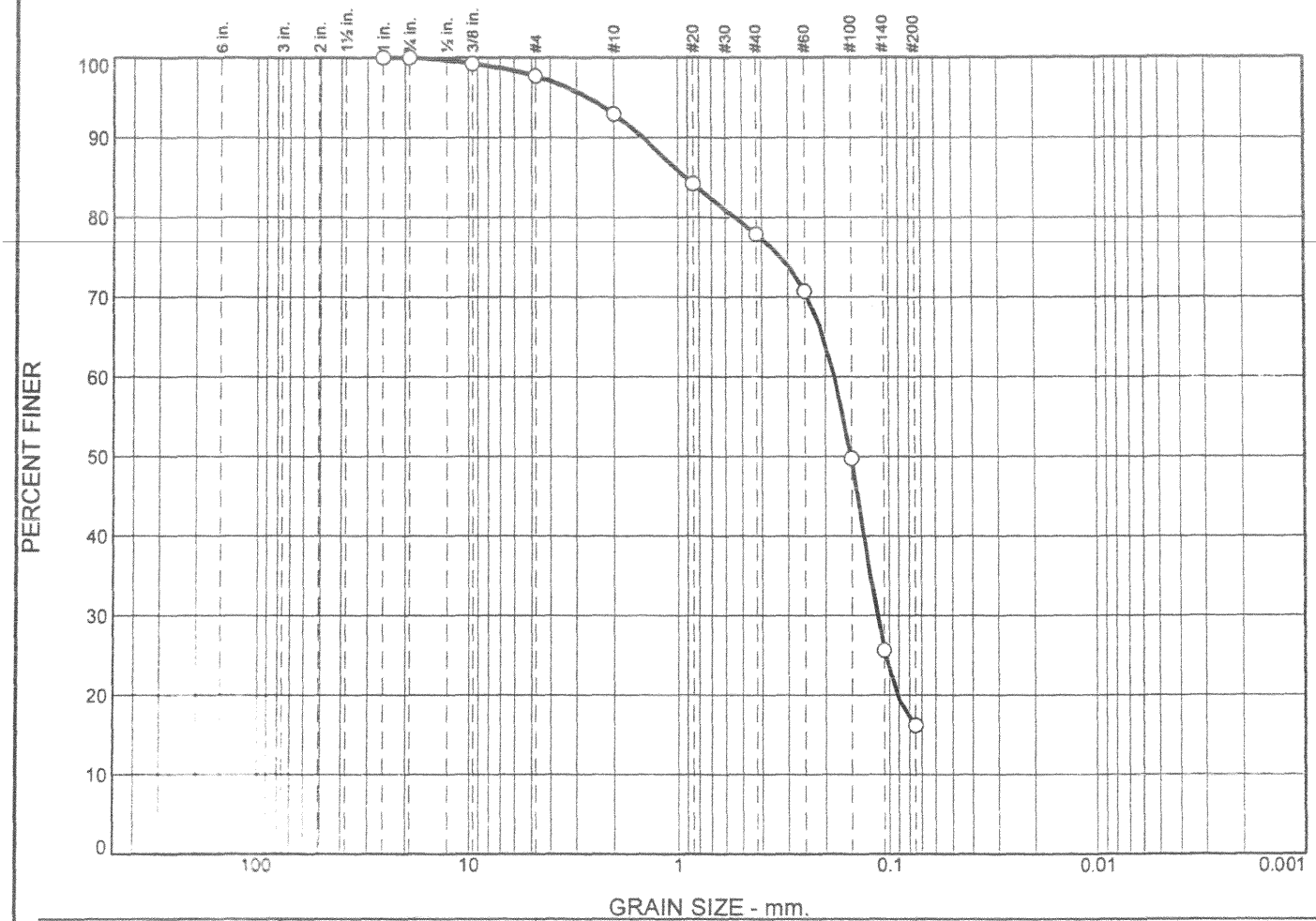
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Zamaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	2	5	15	62	16	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.9169	0.1799	0.1505	0.1141				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0181 **Depth:** 33.5' **Sample Number:** 9

Date: ○

Remarks:
○ Moisture Content % 29.5 CP05-EAARS-CB-0277

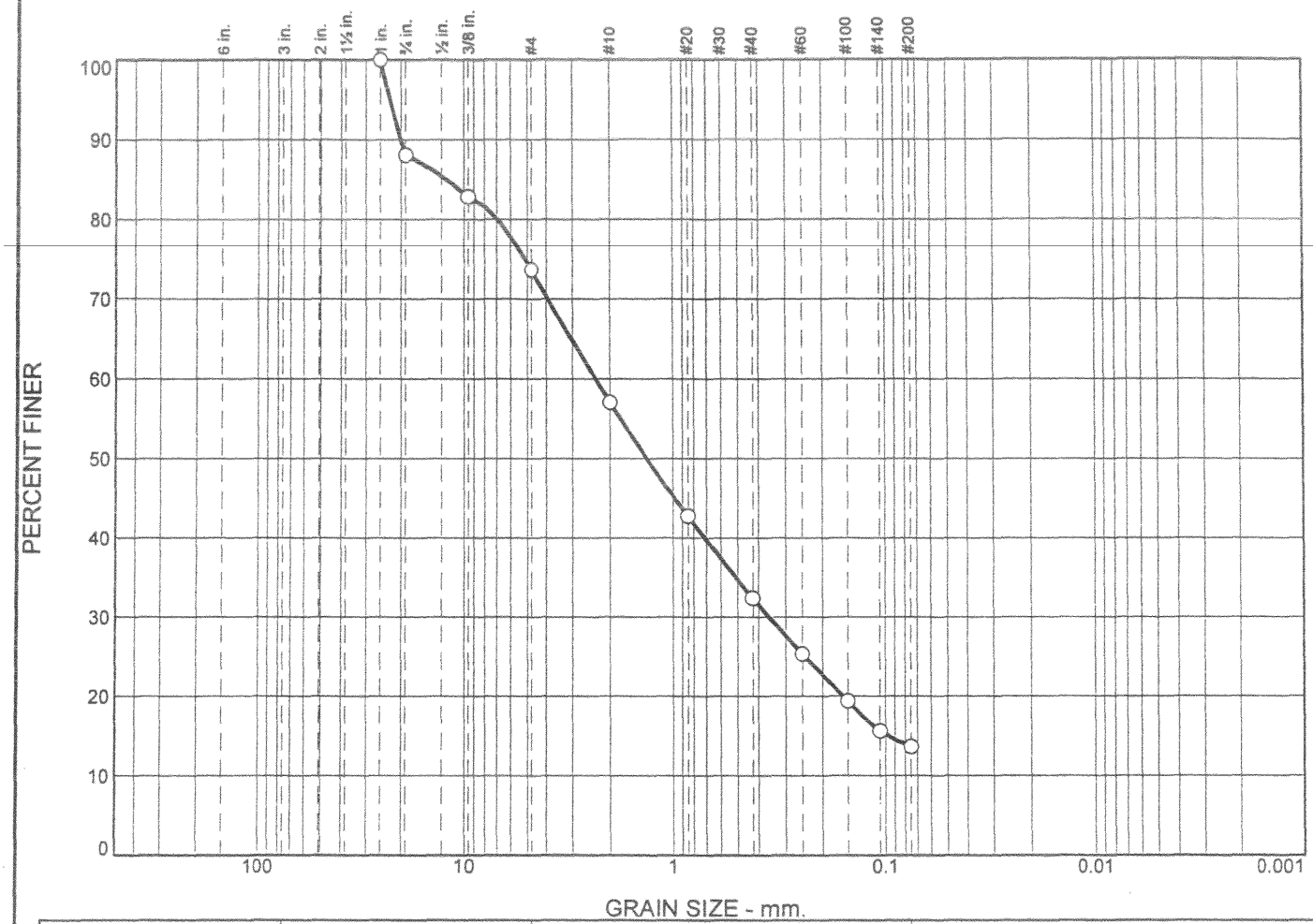
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	12	14	17	25	18	14	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			12.0142	2.3406	1.3329	0.3577	0.0975			

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0183 **Depth:** 18.5' **Sample Number:** 5

Date: ○

Remarks:
○ Moisture Content % 21.2 CP05-EAARS-CB-0278

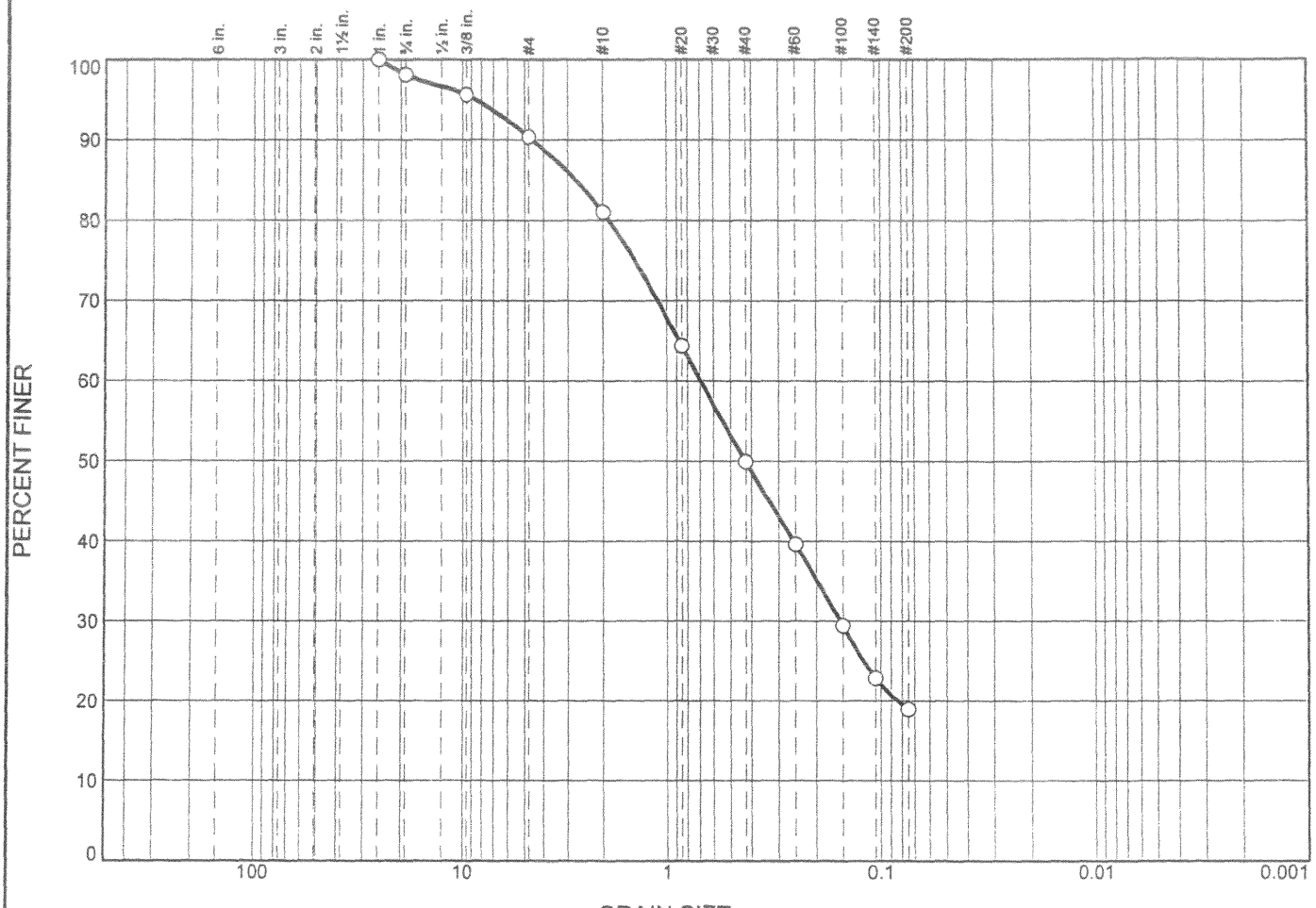
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Zamaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	2	8	9	31	31	19	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.7026	0.6923	0.4269	0.1541				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0183 **Depth:** 23.5' **Sample Number:** 6

Date: ○

Remarks:
○ Moisture Content % 24.2 CP05-EAARS-CB-0278

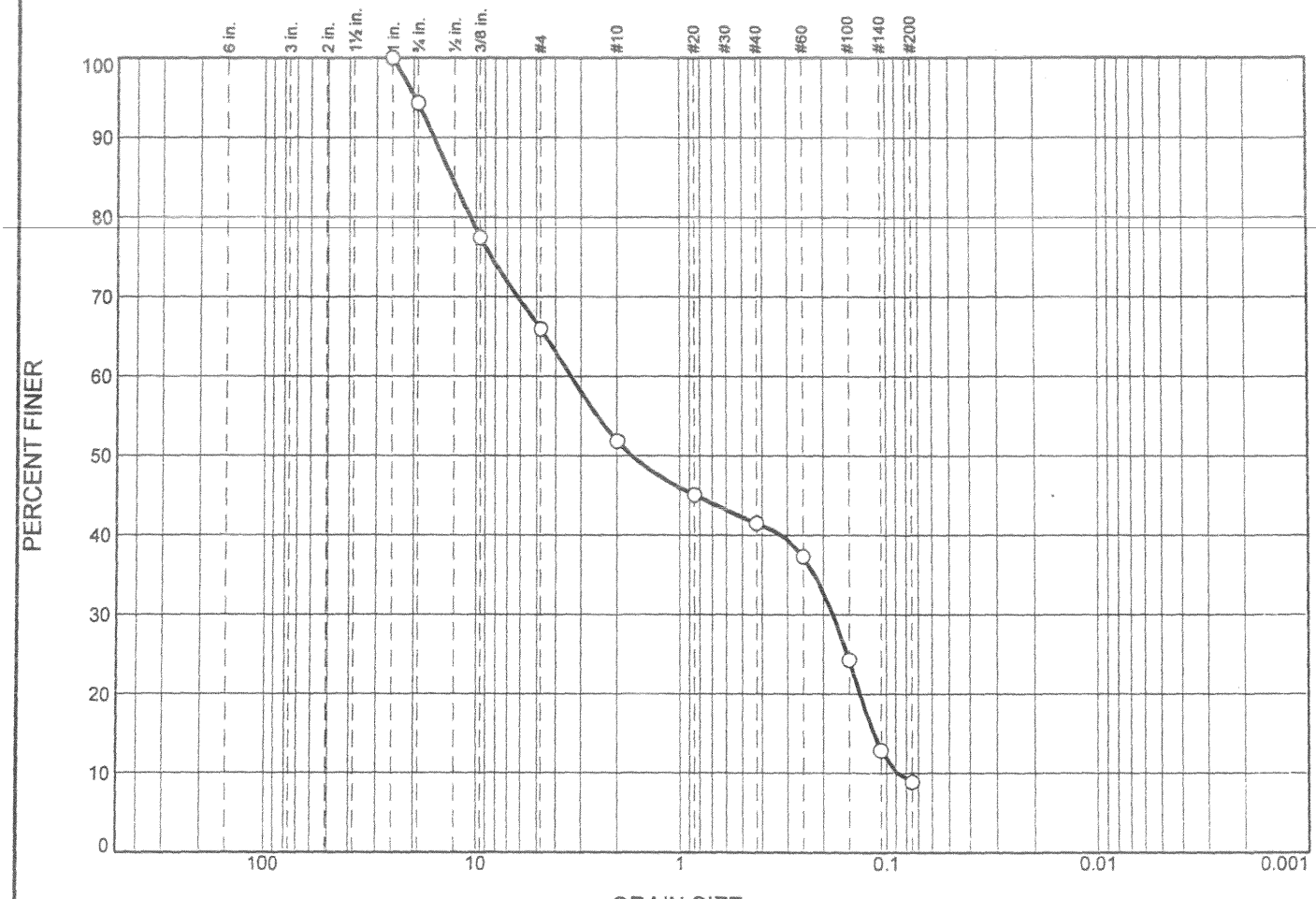
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	6	28	14	10	33	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			13.0387	3.3463	1.7055	0.1794	0.1149	0.0883	0.11	37.90

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0183 **Depth:** 28.5' **Sample Number:** 7

Date: ○

Remarks:
○ Moisture Content % 12.3 CP05-EAARS-CB-0278

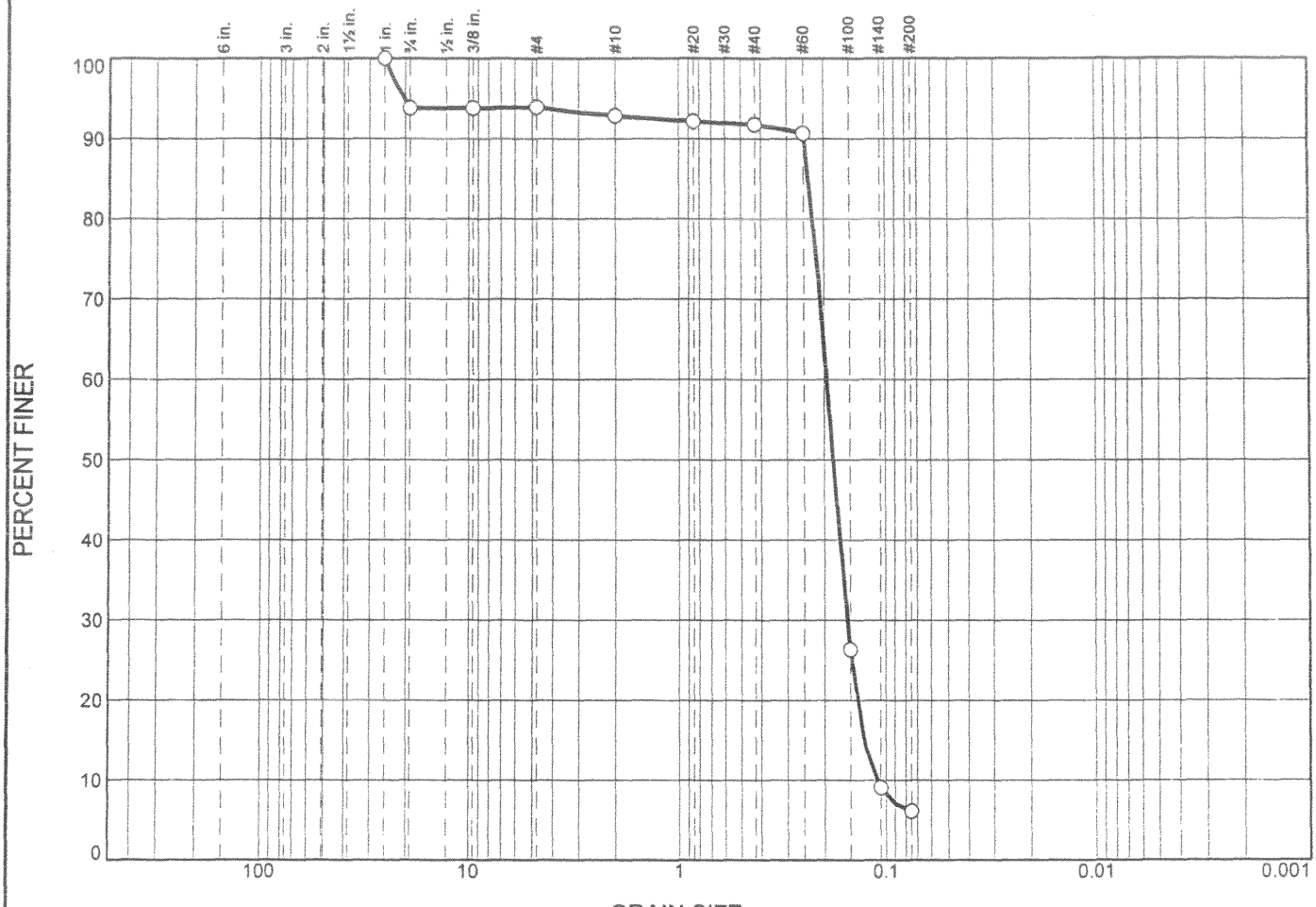
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	6	0	1	1	86	6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2350	0.1937	0.1808	0.1552	0.1283	0.1110	1.12	1.75

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0183 **Depth:** 33.5' **Sample Number:** 8

Date: ○

Remarks:
○ Moisture Content % 24.0 CP05-EAARS-CB-0278

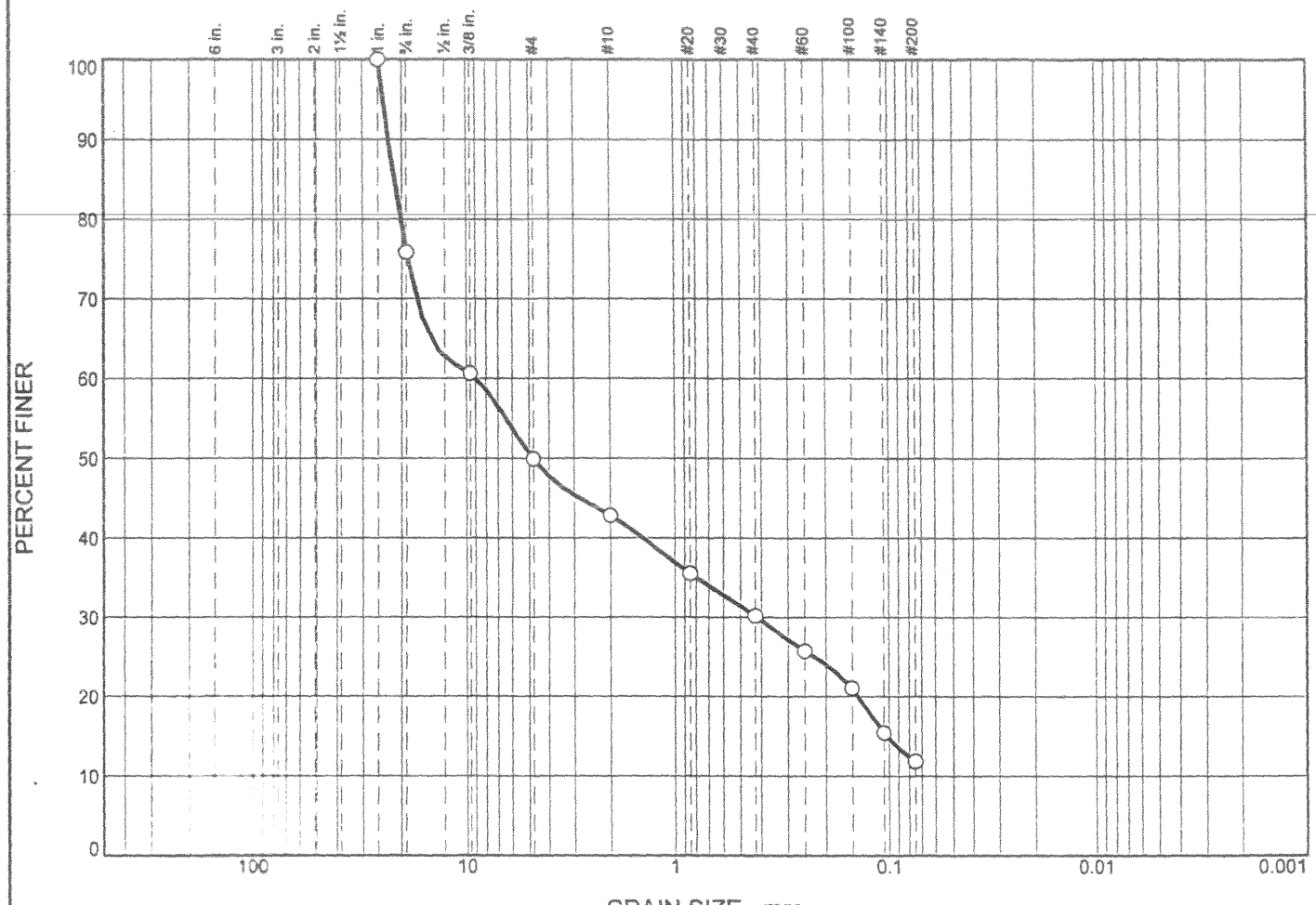
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	24	26	7	13	18	12	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			21.5191	8.9225	4.7754	0.4160	0.1026			

Material Description	USCS	AASHTO
○ Poorly graded gravel with silt and sand	GP-GM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0184 **Depth:** 0.0' **Sample Number:** 1

Date: ○

Remarks:
○ Moisture Content %11.0 CP05-EAARS-CB-0279 @ 0.0'

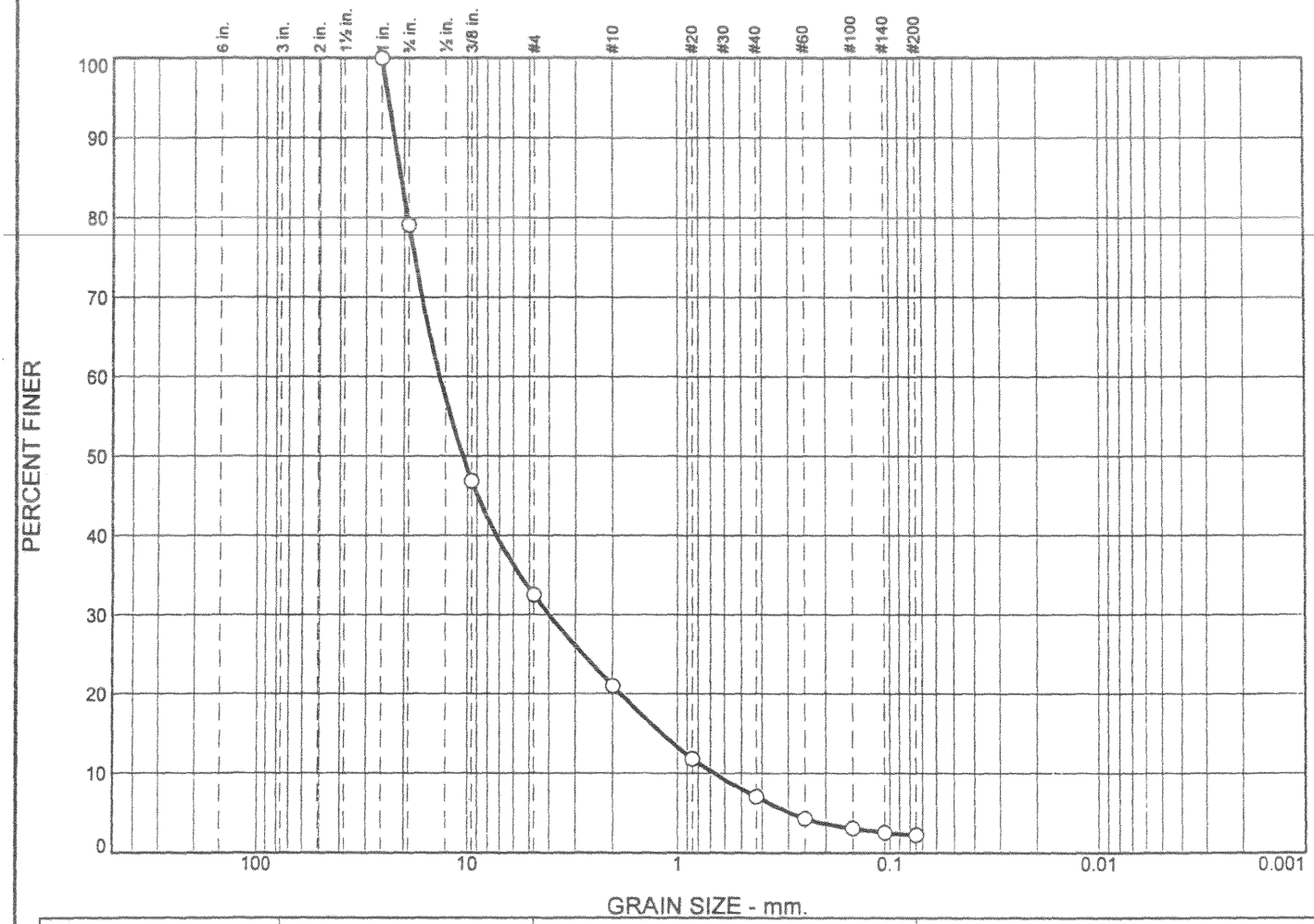
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	21	46	12	14	5	2	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			20.7582	13.5168	10.5011	3.9928	1.1866	0.6733	1.75	20.08

Material Description	USCS	AASHTO
○ Well graded gravel with sand	GW	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 7.0' **Sample Number:** 3

Date: ○

Remarks:
○ Moisture Content % 18.1 CP05-EAARS-CB-0280 @ 7.0'

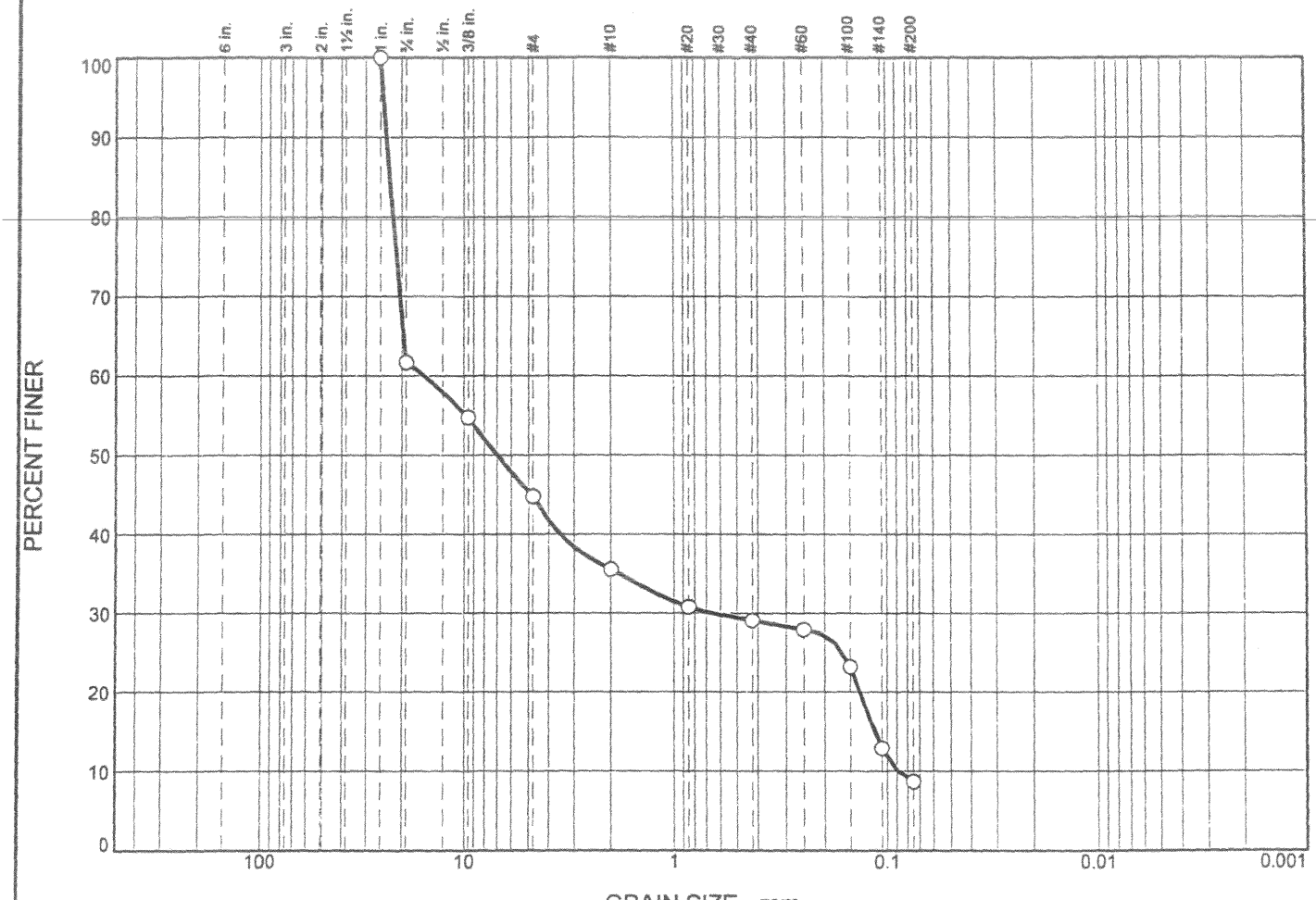
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	38	17	9	7	20	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			22.9953	15.6024	6.9816	0.6584	0.1147	0.0888	0.31	175.63

Material Description	USCS	AASHTO
○ Poorly graded gravel with silt and sand	GP-GM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)

○ **Source of Sample:** CB-0185 **Depth:** 28.5' **Sample Number:** 7

Date: ○

Remarks:

○ Moisture Content % 13.4 CP05-EAARS-CB-0280 @ 28.5'

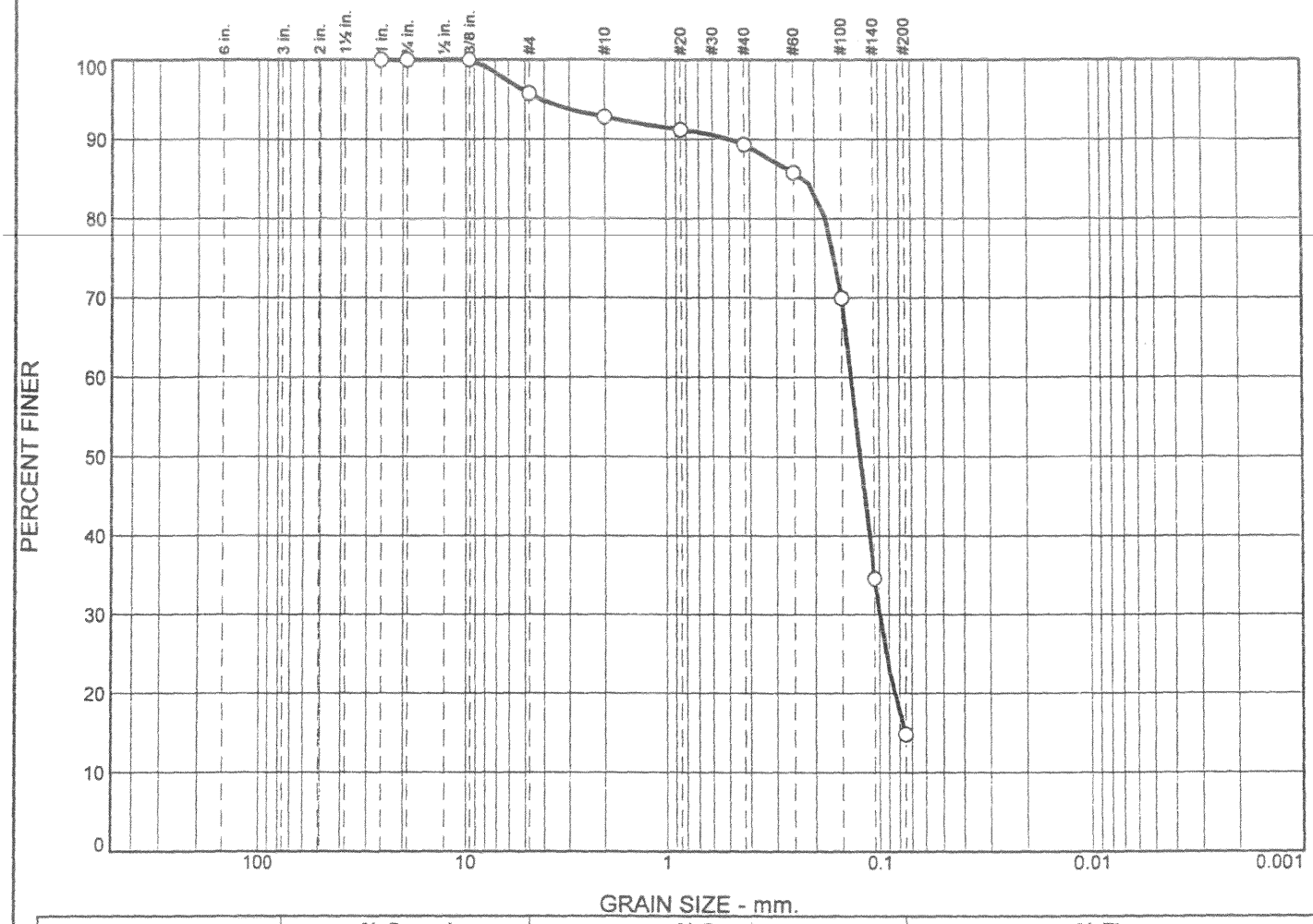
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	4	3	4	74	15	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2232	0.1351	0.1232	0.1002	0.0753			

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 33.5' **Sample Number:** 8

Date: ○

Remarks:
○ Moisture Content % 28.0 CP05-EAARS-CB-0280 @ 33.5'

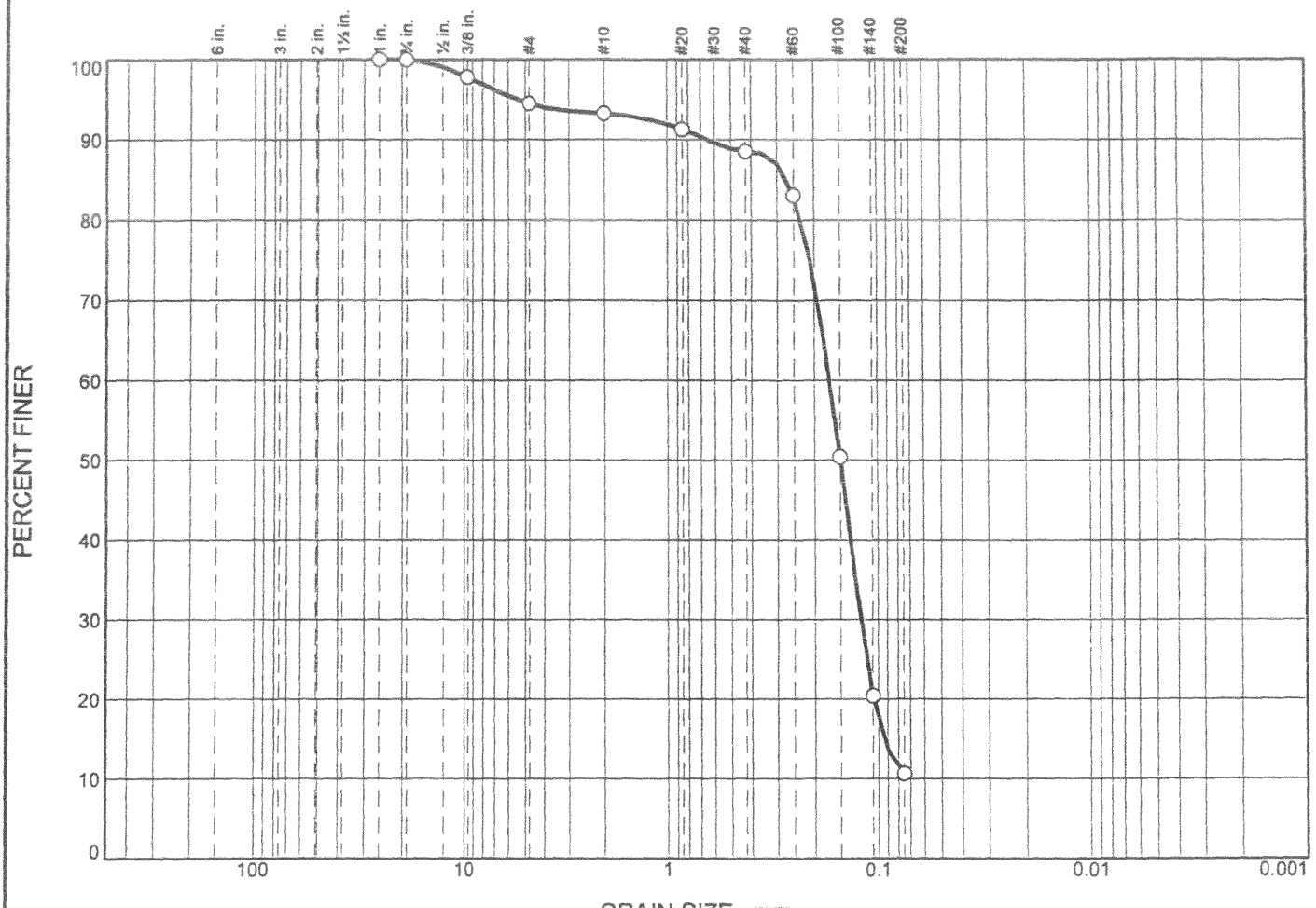
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	5	2	4	78	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2674	0.1677	0.1493	0.1205	0.0941			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 38.5' **Sample Number:** 9

Date: ○

Remarks:
○ Moisture Content % 24.3 CP05-EAARS-CB-0280 @ 38.5'

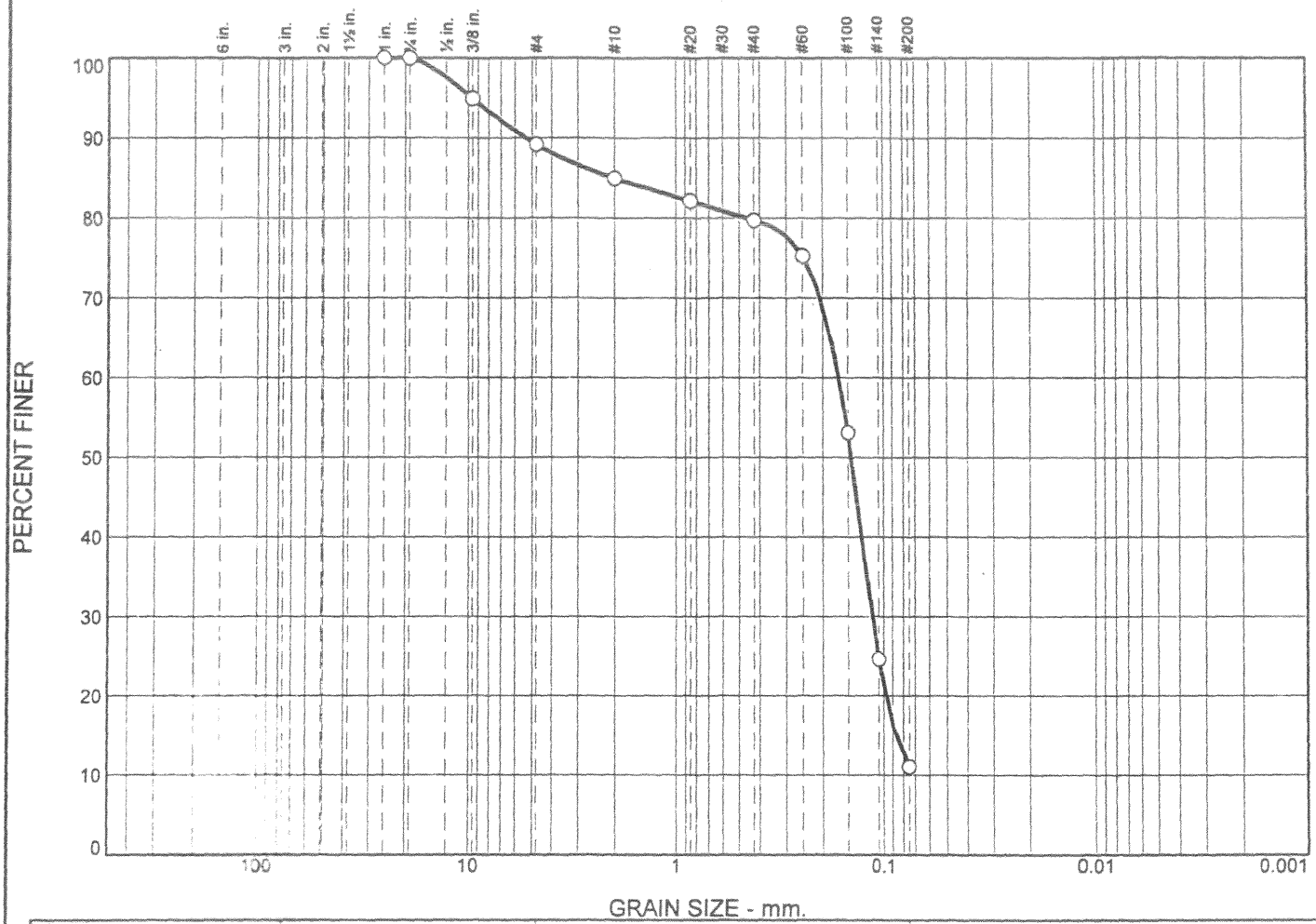
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	11	4	5	69	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.0119	0.1659	0.1442	0.1142	0.0862			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 43.5' **Sample Number:** 10

Date: ○

Remarks:
○ Moisture Content % 25.3 CP05-EAARS-CB-0280 @ 43.5'

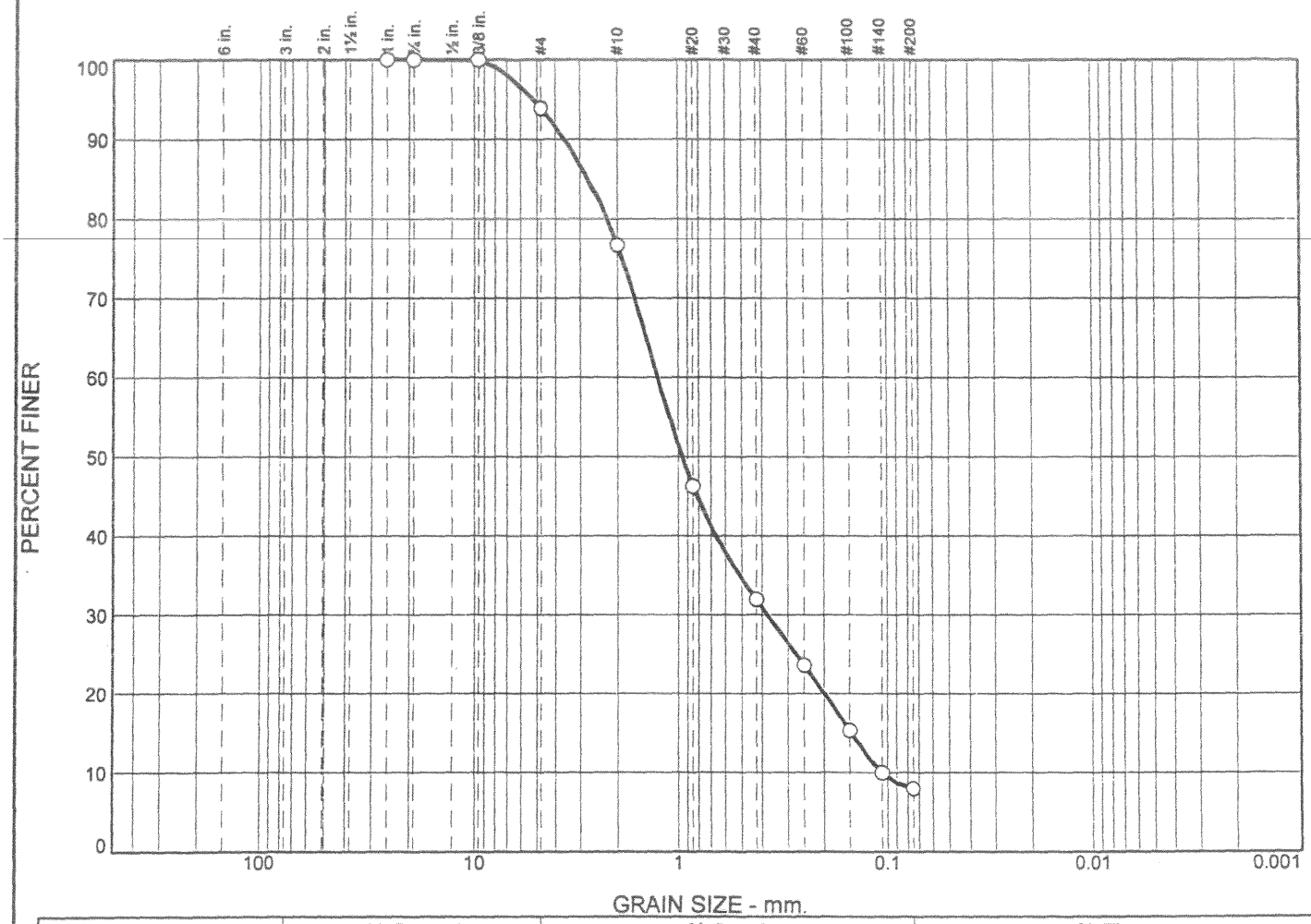
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	6	17	45	24	8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.7478	1.2579	0.9556	0.3757	0.1471	0.1066	1.05	11.81

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 48.5' **Sample Number:** 11

Date: ○

Remarks:
○ Moisture Content % 28.9 CP05-EAARS-CB-0280 @ 48.5'

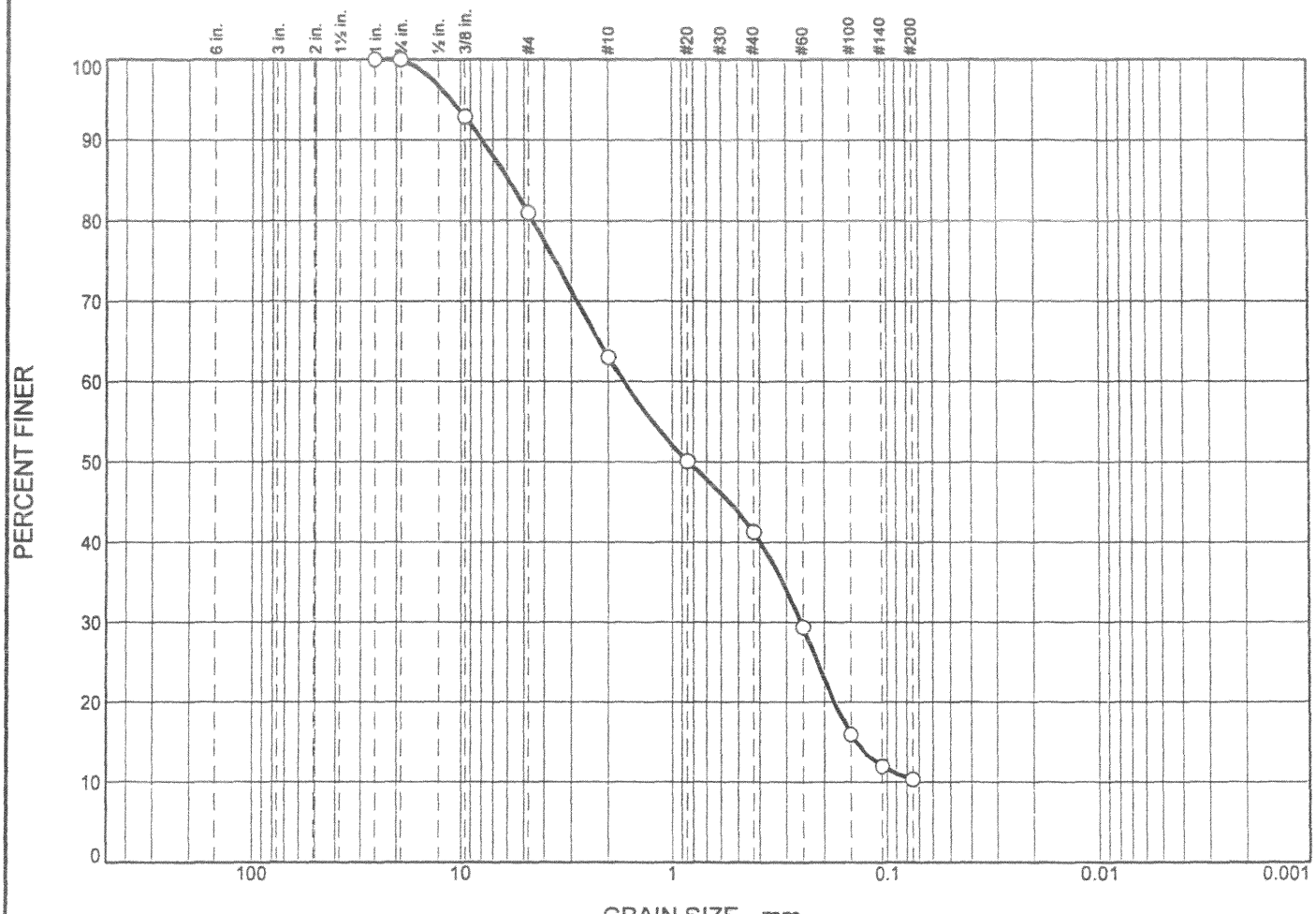
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Carraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	19	18	22	31	10	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			5.8773	1.6915	0.8432	0.2557	0.1419			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 68.5' **Sample Number:** 15

Date: ○

Remarks:
○ Moisture Content % 23.2 CP05-EAARS-CB-0280 @ 68.5'

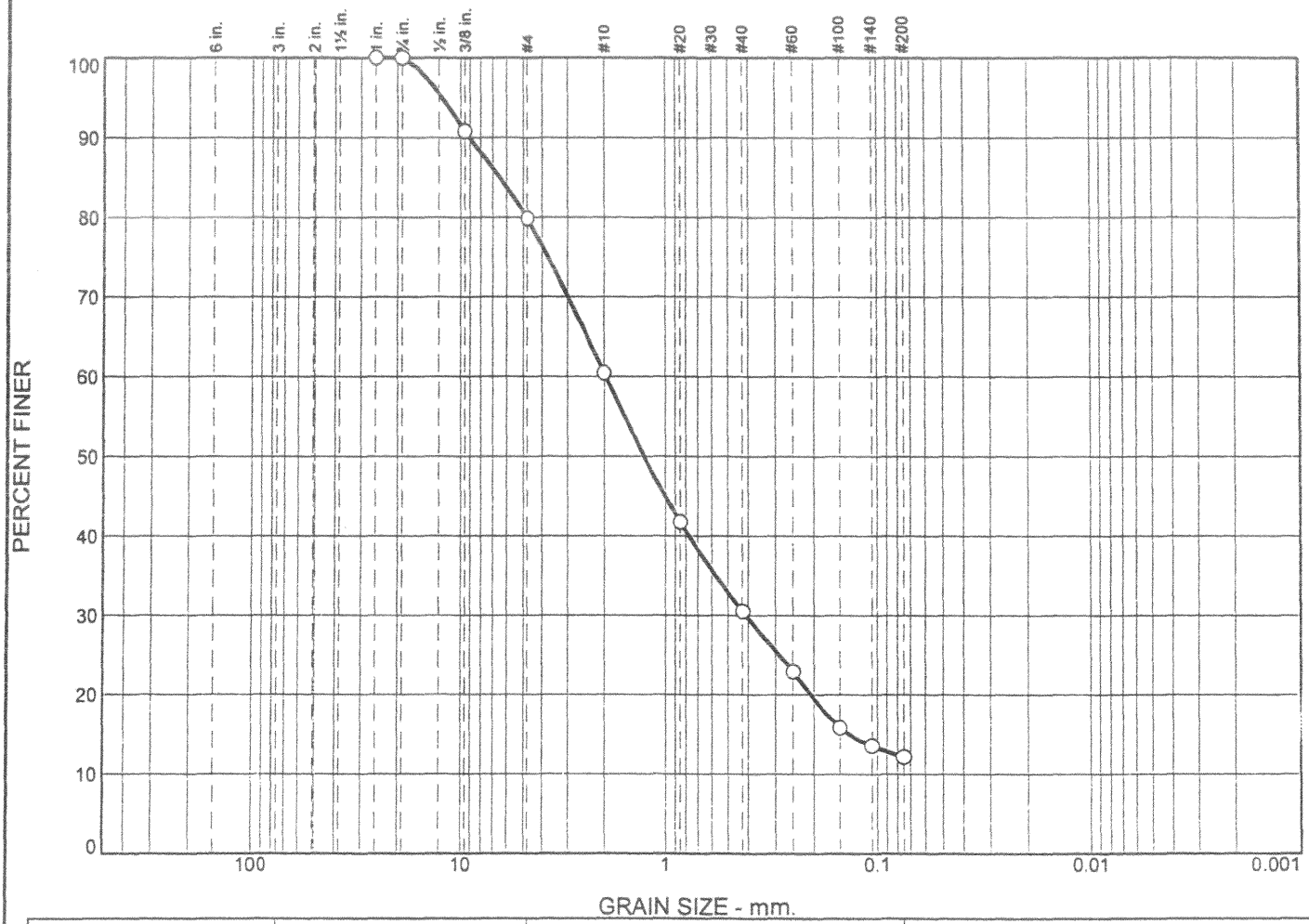
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	20	20	29	19	12	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			6.4837	1.9618	1.2715	0.4095	0.1360			

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 73.5' **Sample Number:** 16

Date: ○

Remarks:
○ Moisture Content % 25.7 CP05-EAARS-CB-0280 @ 73.5'

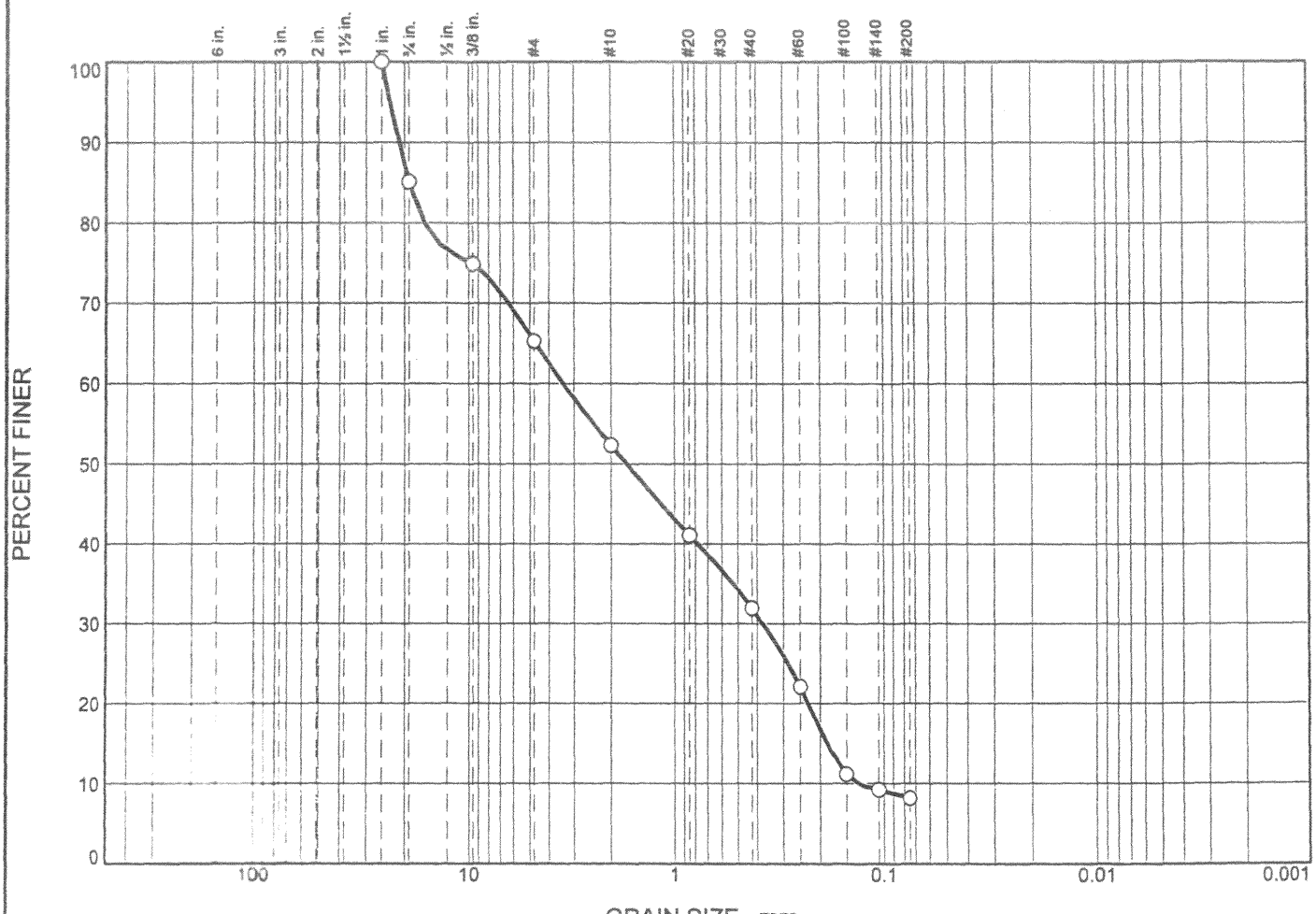
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Samaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	15	20	13	20	24	8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			18.9695	3.3903	1.6902	0.3753	0.1857	0.1322	0.31	25.64

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)

○ **Source of Sample:** CB-0185 **Depth:** 78.5' **Sample Number:** 17

Date: ○

Remarks:

○ Moisture Content % 19.4 CP05-EAARS-CB-0280 @ 78.5'

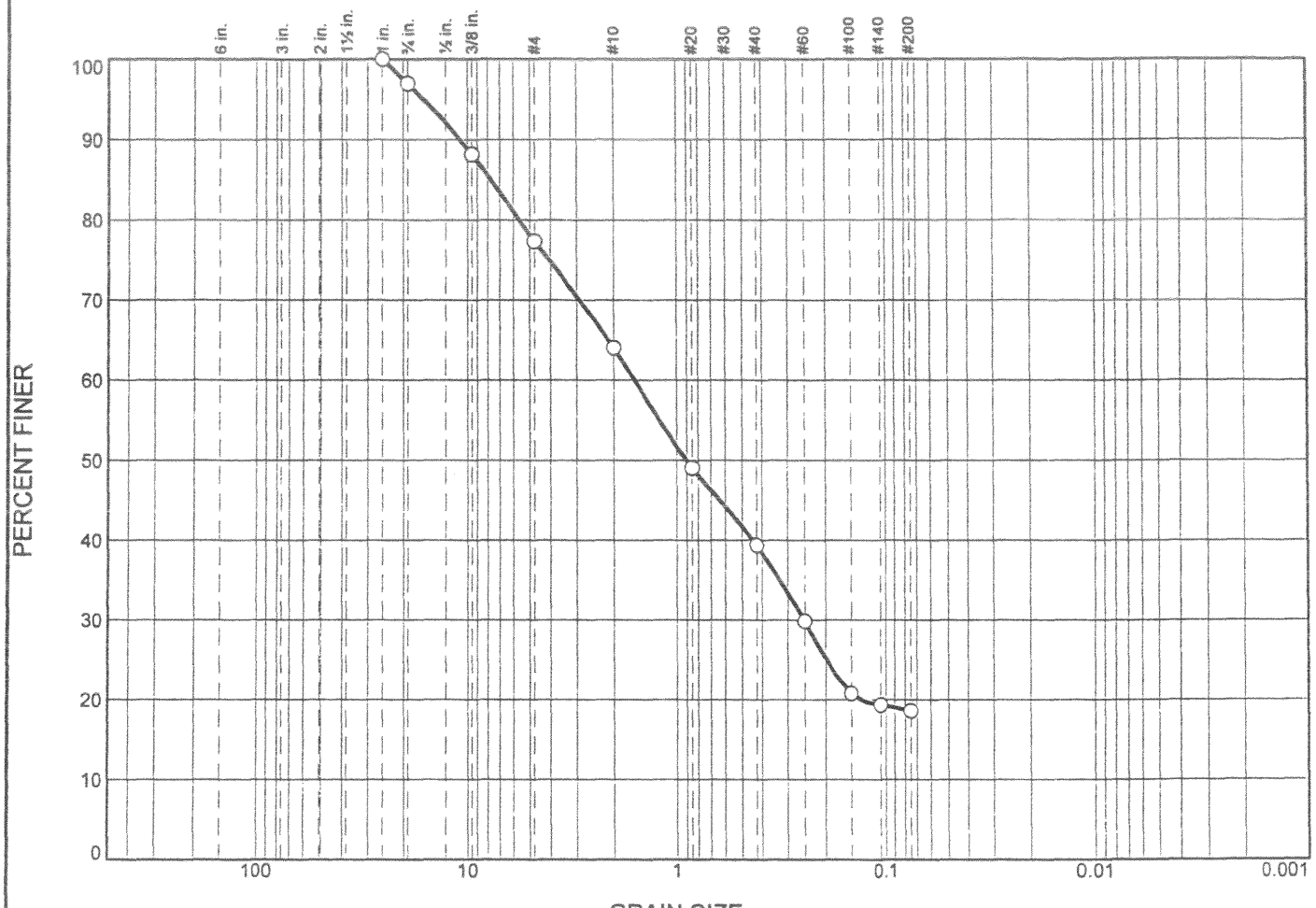
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	3	20	13	25	20	19	

☒	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			7.7115	1.5914	0.9036	0.2518				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 83.5' **Sample Number:** 18

Date: ○

Remarks:
○ Moisture Content % 21.9 CP05-EAARS-CB-0280 @ 83.5'

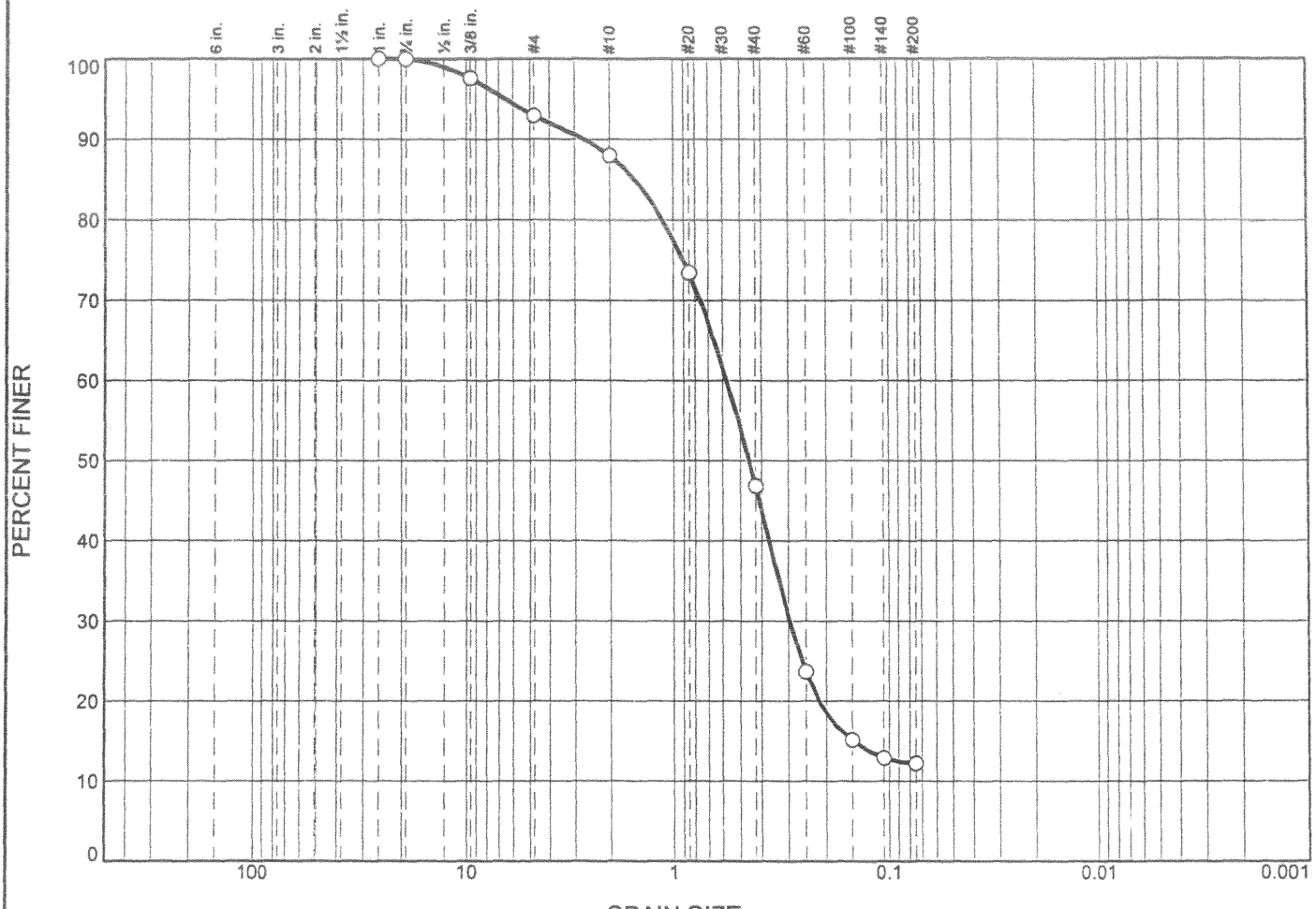
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	7	5	41	35	12	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			1.5091	0.5746	0.4550	0.2965	0.1471			

Material Description	USCS	AASHTO
○ Well graded sand with silt	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 88.5' **Sample Number:** 19

Date: ○

Remarks:
○ Moisture Content % 23.1 CP05-EAARS-CB-0280 @ 88.5'

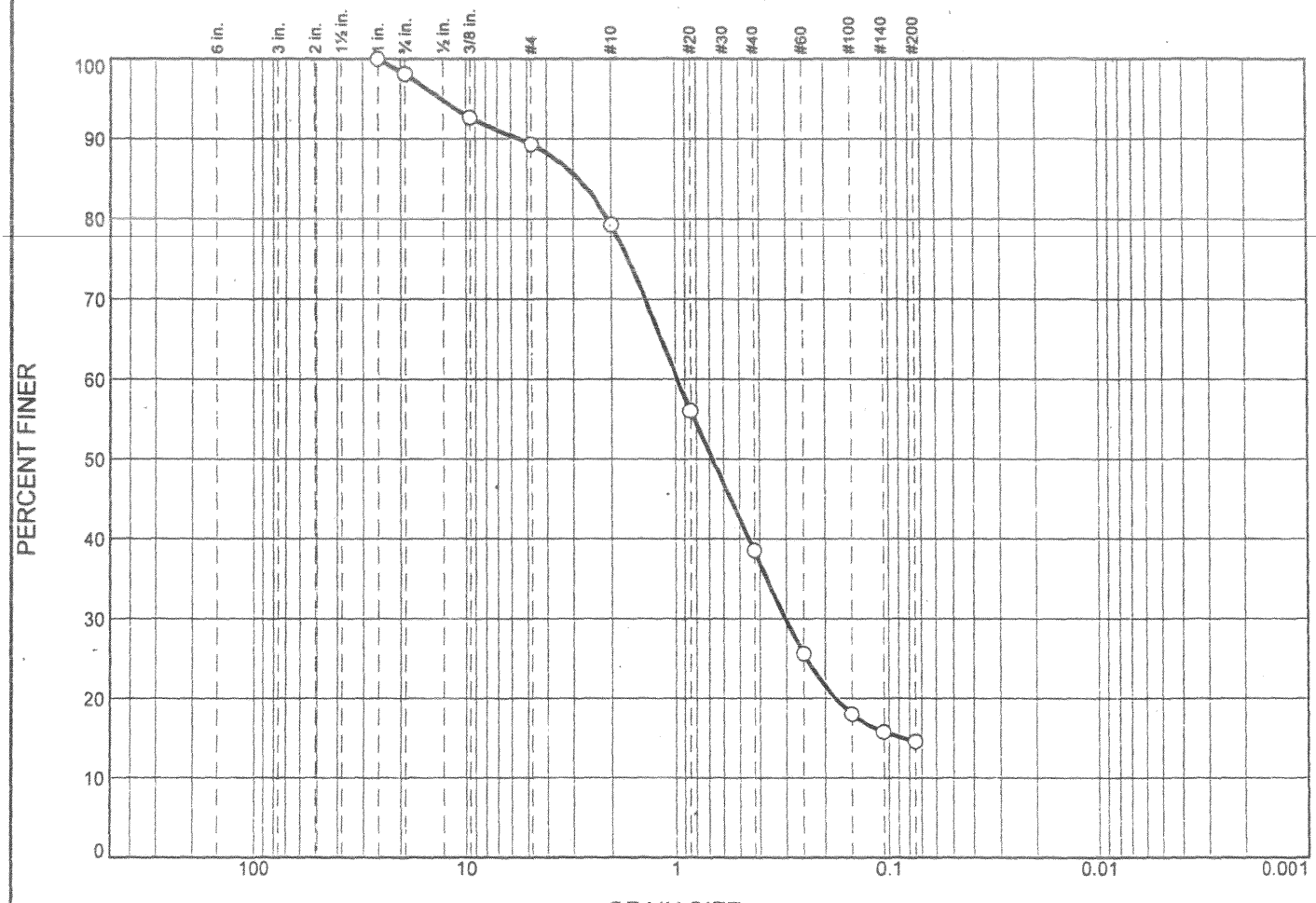
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	2	9	10	40	24	15	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.8337	0.9776	0.6751	0.3031	0.0858			

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 93.5' **Sample Number:** 20

Date: ○

Remarks:
○ Moisture Content % 24.1 CP05-EAARS-CB-0280 @ 93.5'

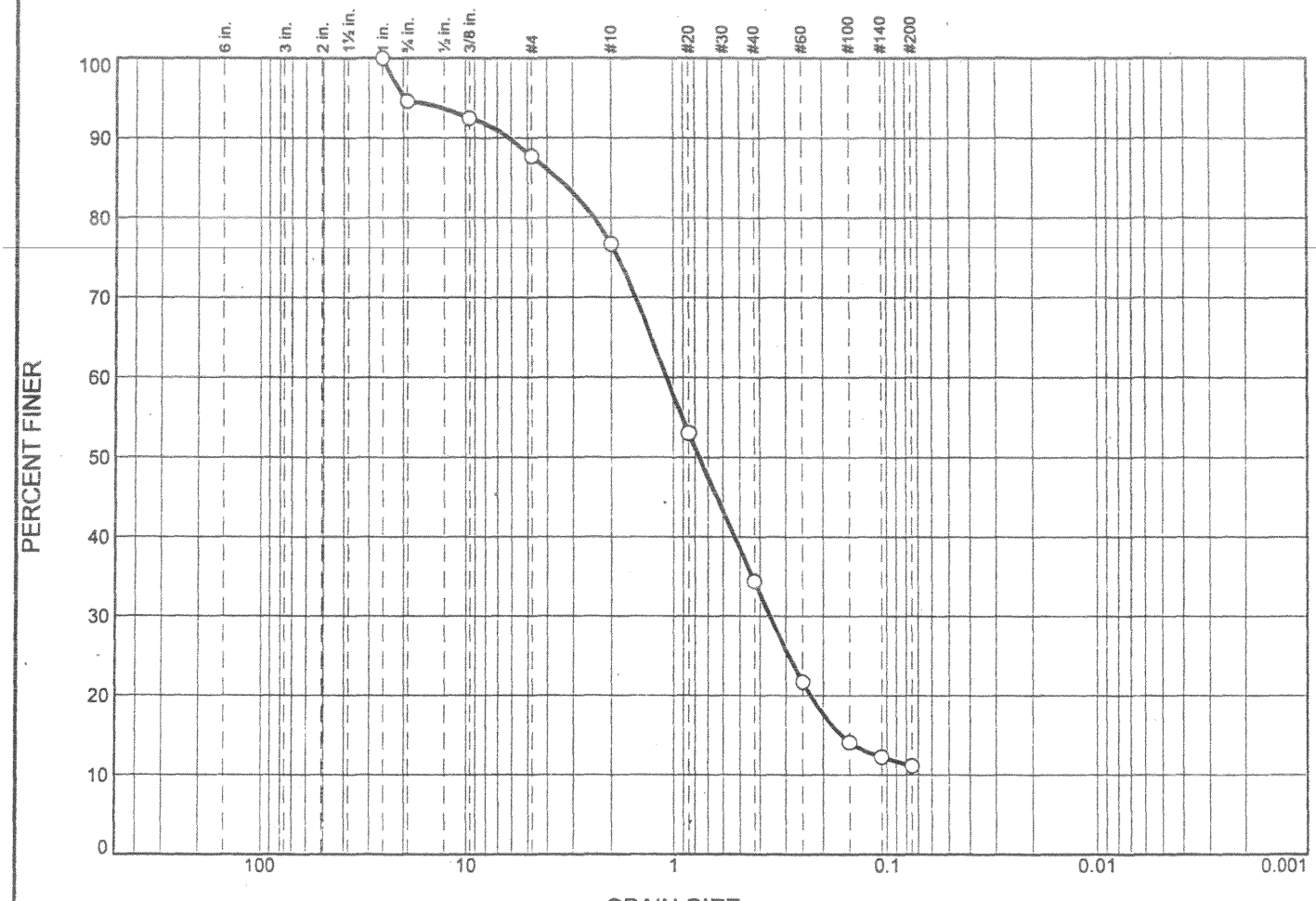
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	5	7	11	43	23	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			3.5493	1.0734	0.7647	0.3575	0.1642			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 98.5' **Sample Number:** 21

Date: ○

Remarks:
○ Moisture Content % 23.8 CP05-EAARS-CB-0280 @ 98.5'

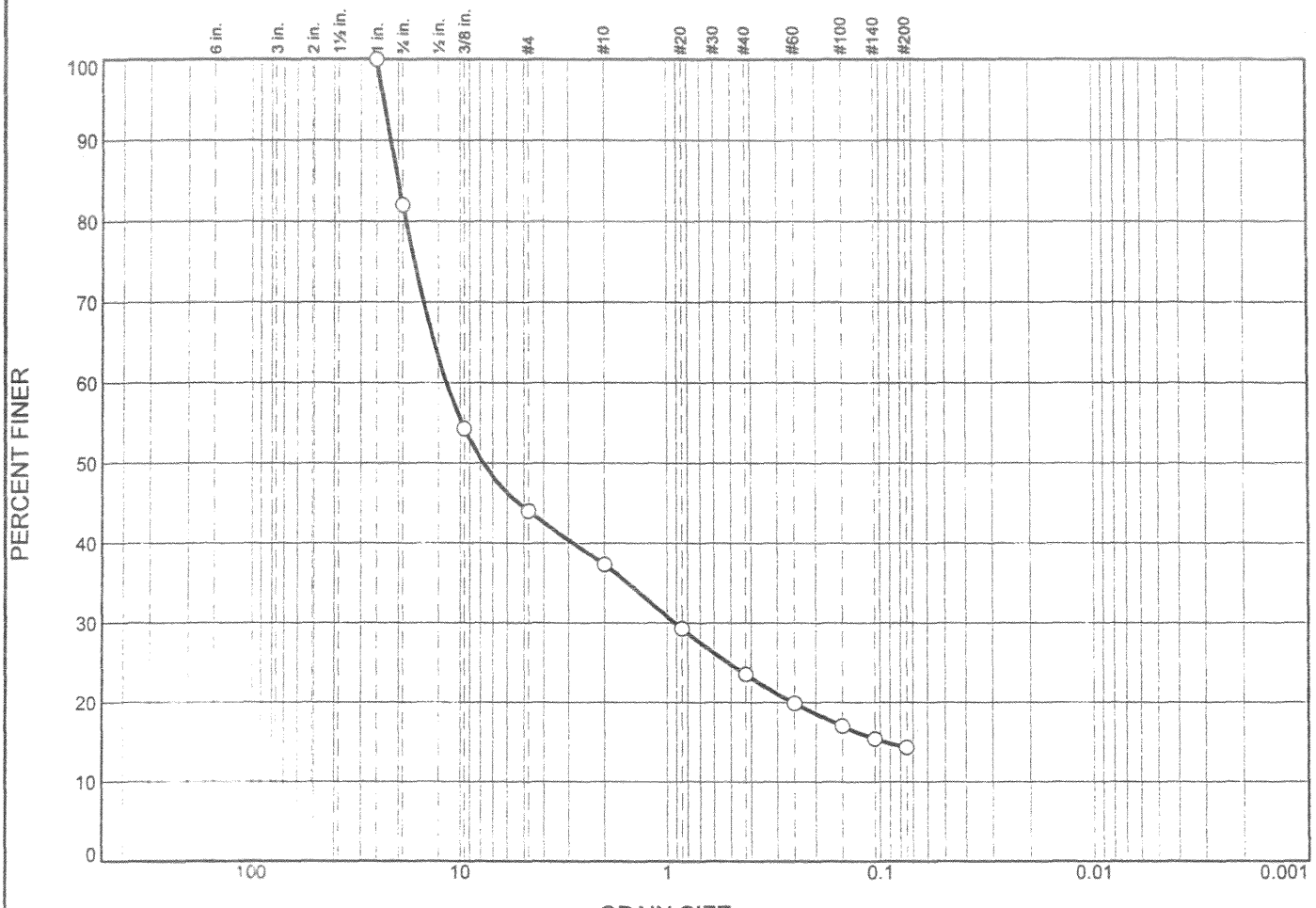
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Zamaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	18.0	38.0	6.7	13.8	9.2	14.3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			20.0393	11.6207	7.7570	0.9163	0.0948			

Material Description	USCS	AASHTO
○ Silty gravel with sand	GM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB164 **Depth:** 5.0'-10.0' **Sample Number:** CB164

Remarks:
○ Moisture Content % 5.7 CP05-EAARS-VB-0282

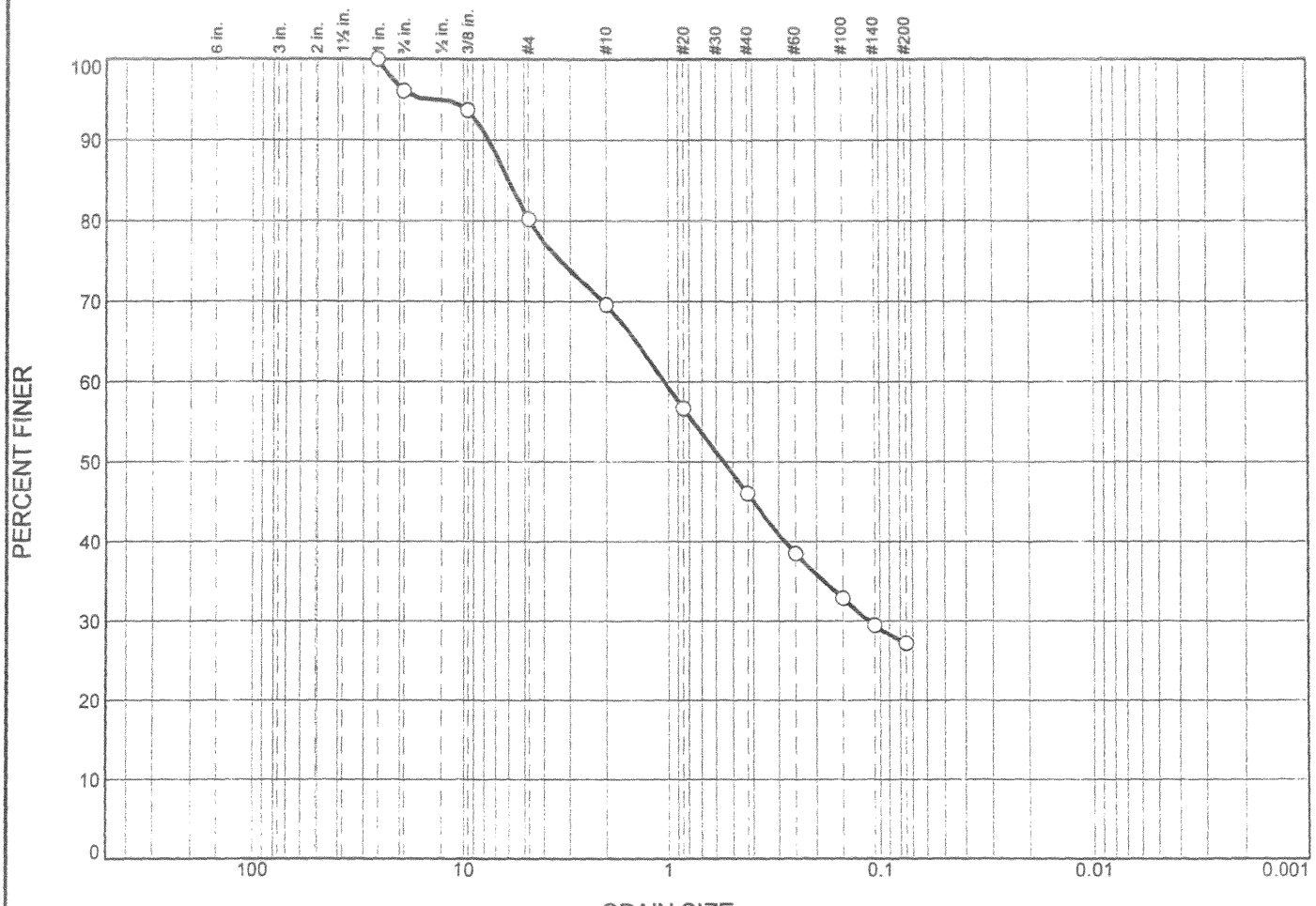
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Bolooki Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	3.9	15.9	10.6	23.5	18.9	27.2	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			5.9549	1.0430	0.5522	0.1128				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB164 **Depth:** 10.0'-15.0' **Sample Number:** CB164

Remarks:

○Moisture Content % 21.4 CP05-EAARS-VB-0282

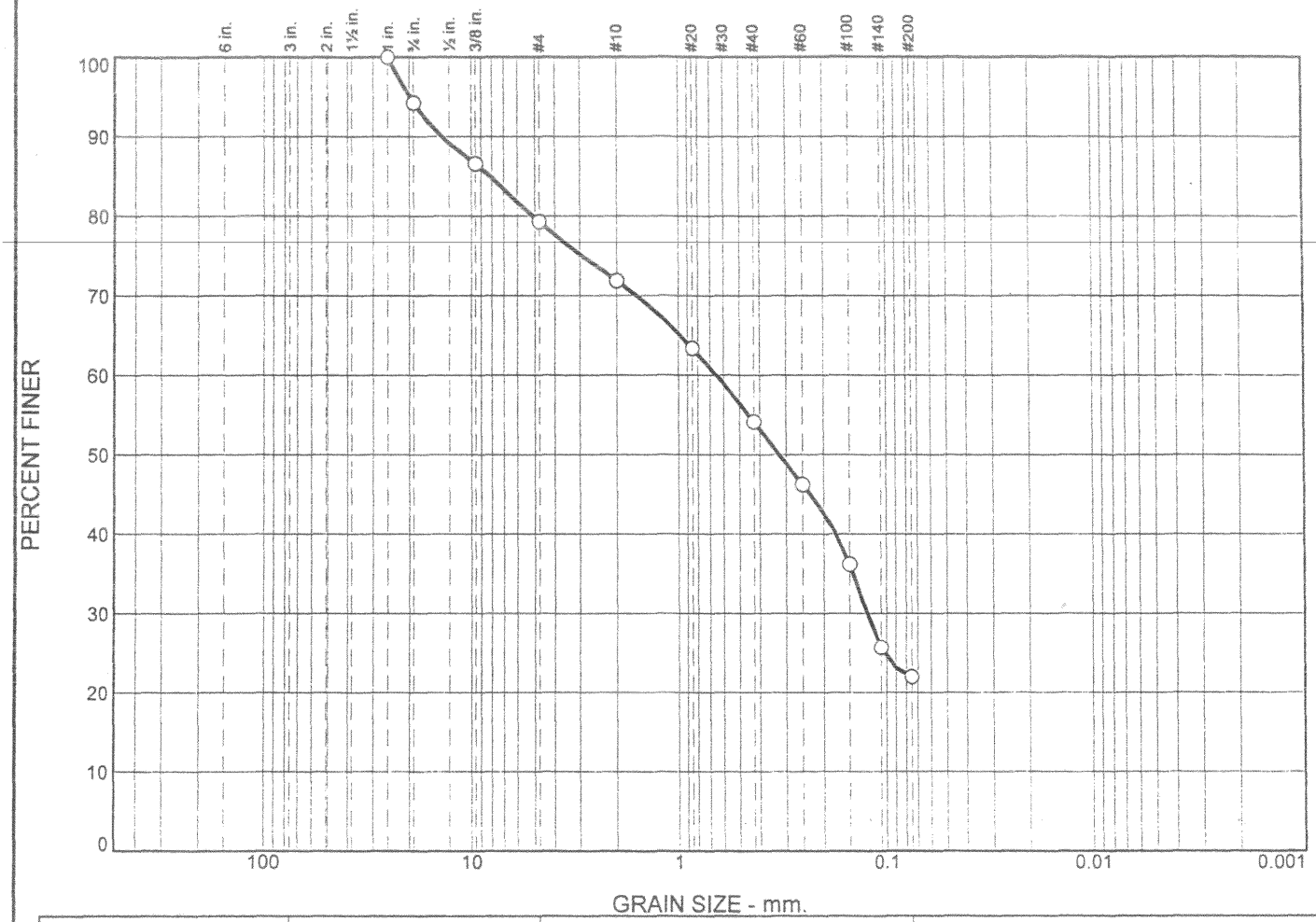
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Bolooki **Checked By:** K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	6	15	7	18	32	22	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			8.1303	0.6480	0.3215	0.1237				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0164 **Depth:** 15' to 30'

Date: ○

Remarks:
○ Moisture Content %20.0 CP05-EAARS-VB-0282

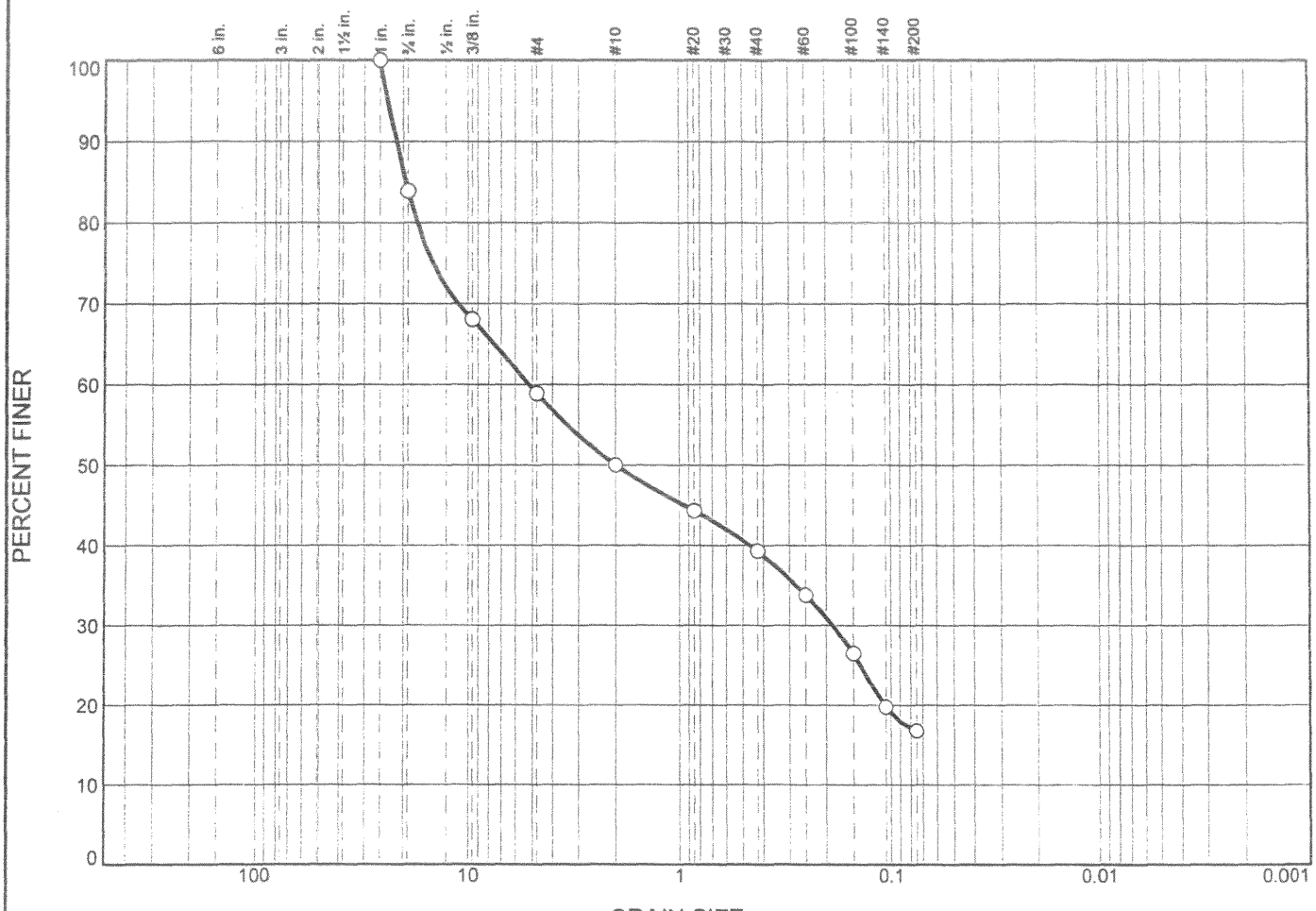
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	16.1	25.0	8.9	10.7	22.5	16.8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			19.4947	5.1674	1.9899	0.1850				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB164 **Depth:** 30.0'-35.0 **Sample Number:** CB164

Remarks:
○ Moisture Content % 7.5 CP05-EAARS-VB-0282

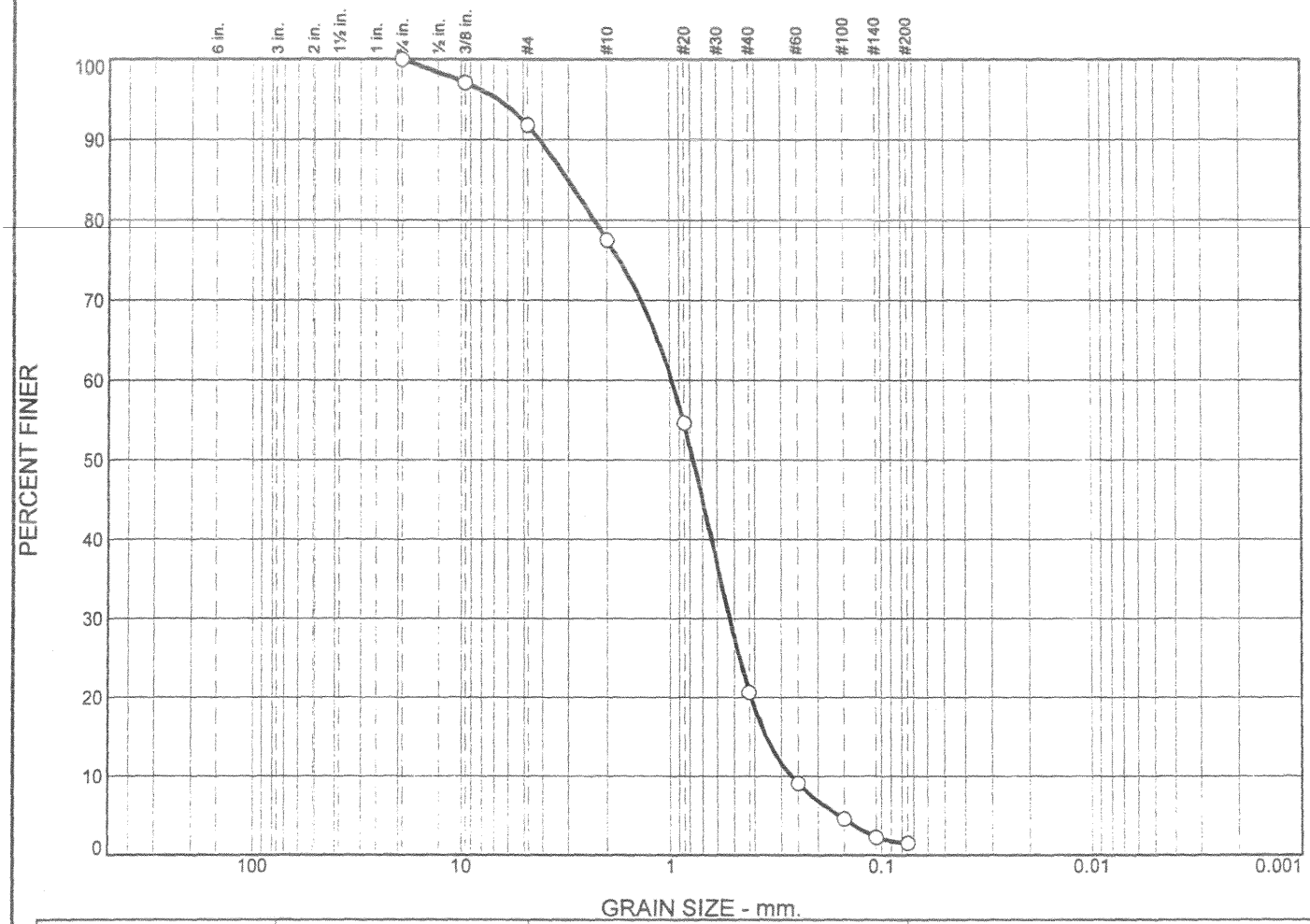
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	8.1	14.4	56.9	19.1	1.5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			3.0098	0.9722	0.7703	0.5245	0.3541	0.2694	1.05	3.61

Material Description	USCS	AASHTO
○ Well graded sand	SW	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB164 **Depth:** 45.0'-50.0' **Sample Number:** CB164

Remarks:
○ Moisture Content % 14.0 CP05-EAARS-VB-0282

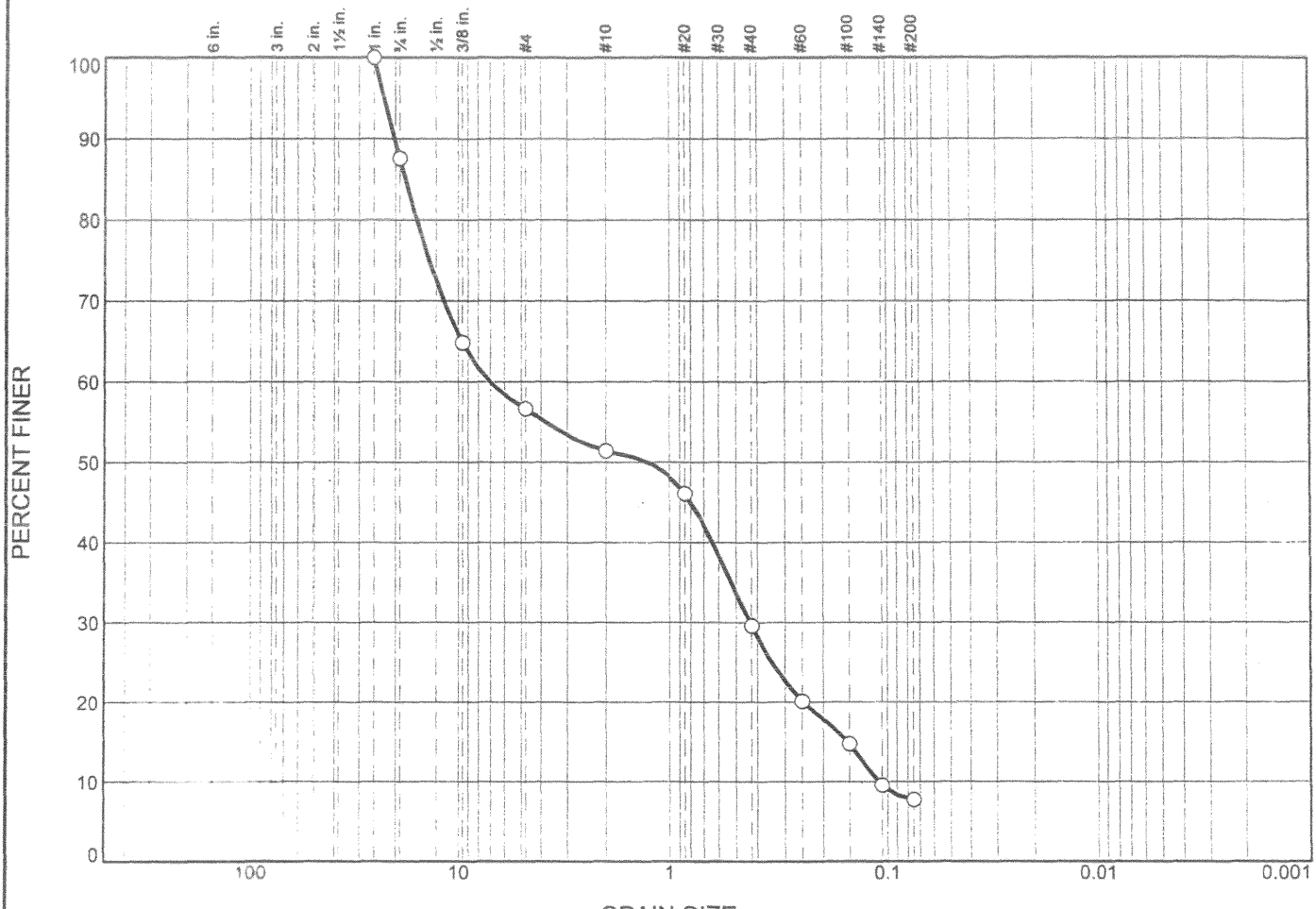
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Bolooki Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	12.4	31.0	5.2	21.8	21.9	7.7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			17.8777	7.0260	1.2499	0.4323	0.1524	0.1100	0.24	63.87

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB164 **Depth:** 55.0'-60.0' **Sample Number:** CB164

Remarks:
○ Moisture Content % 10.2 CP05-EAARS-VB-0282

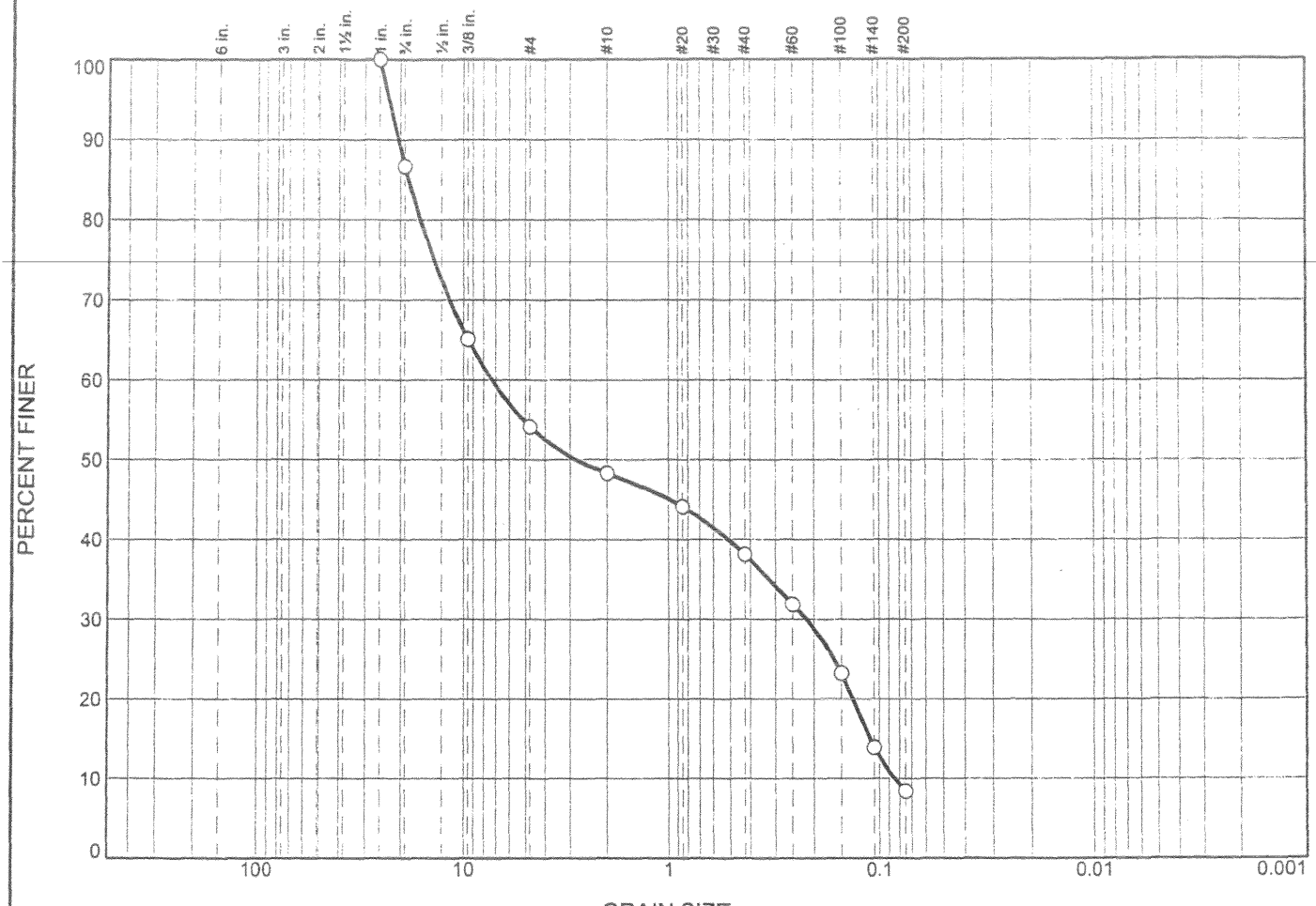
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	13	33	6	10	30	8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			18.2916	7.3217	2.8133	0.2167	0.1109	0.0847	0.08	86.41

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0164 **Depth:** 60' to 65'

Date: ○

Remarks:
○ Moisture Content % 11.7
CP05-EAARS-VB-0282

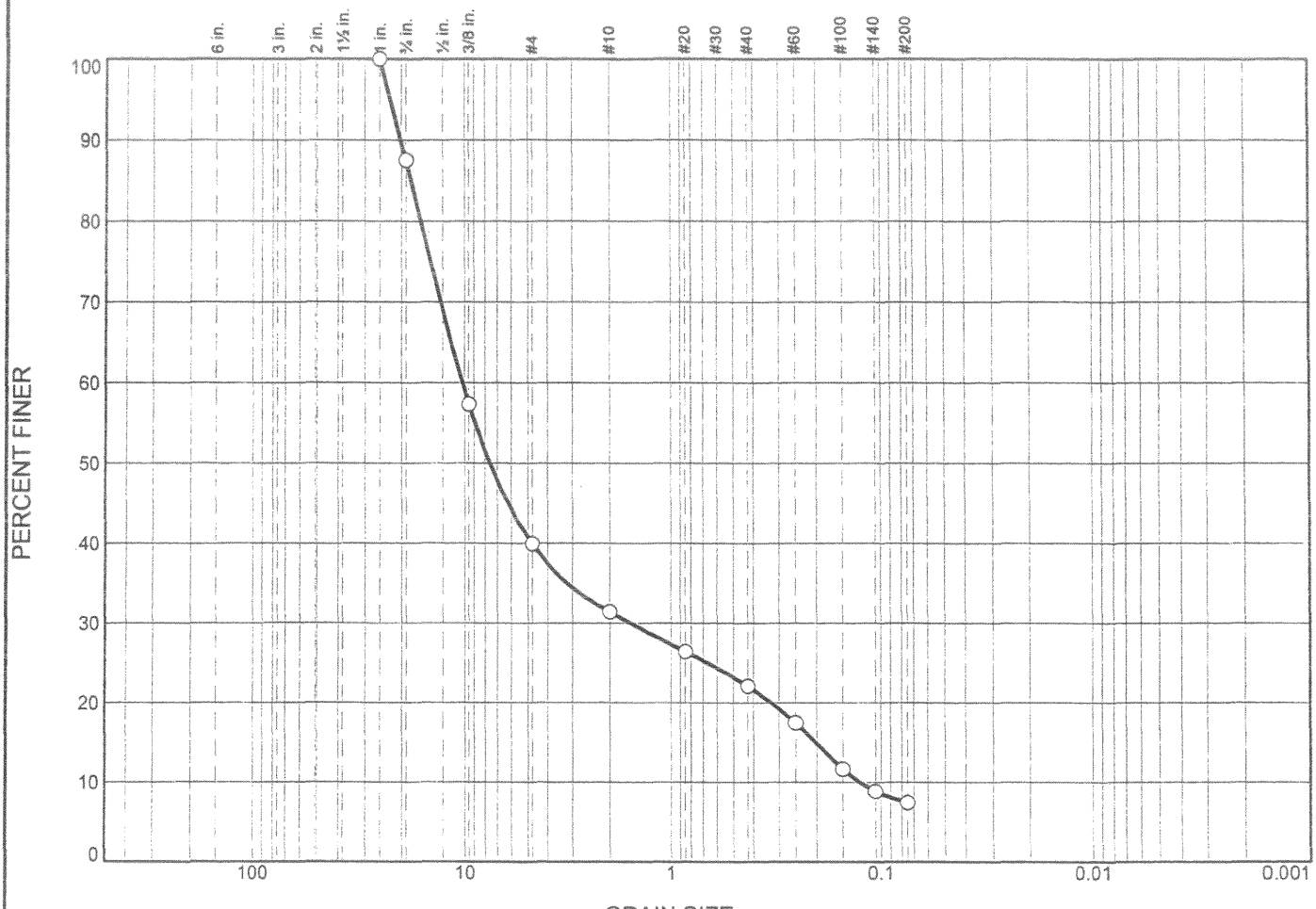
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	12.4	47.6	8.6	9.3	14.7	7.4	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			18.0005	10.2300	7.5847	1.5879	0.2011	0.1252	1.97	81.68

Material Description	USCS	AASHTO
○ Poorly graded gravel with silt	GP-GM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB164 **Depth:** 70.0'-75.0' **Sample Number:** CB164

Remarks:

○ Moisture Content % 7.0 CP05-EAARS-VB-0282

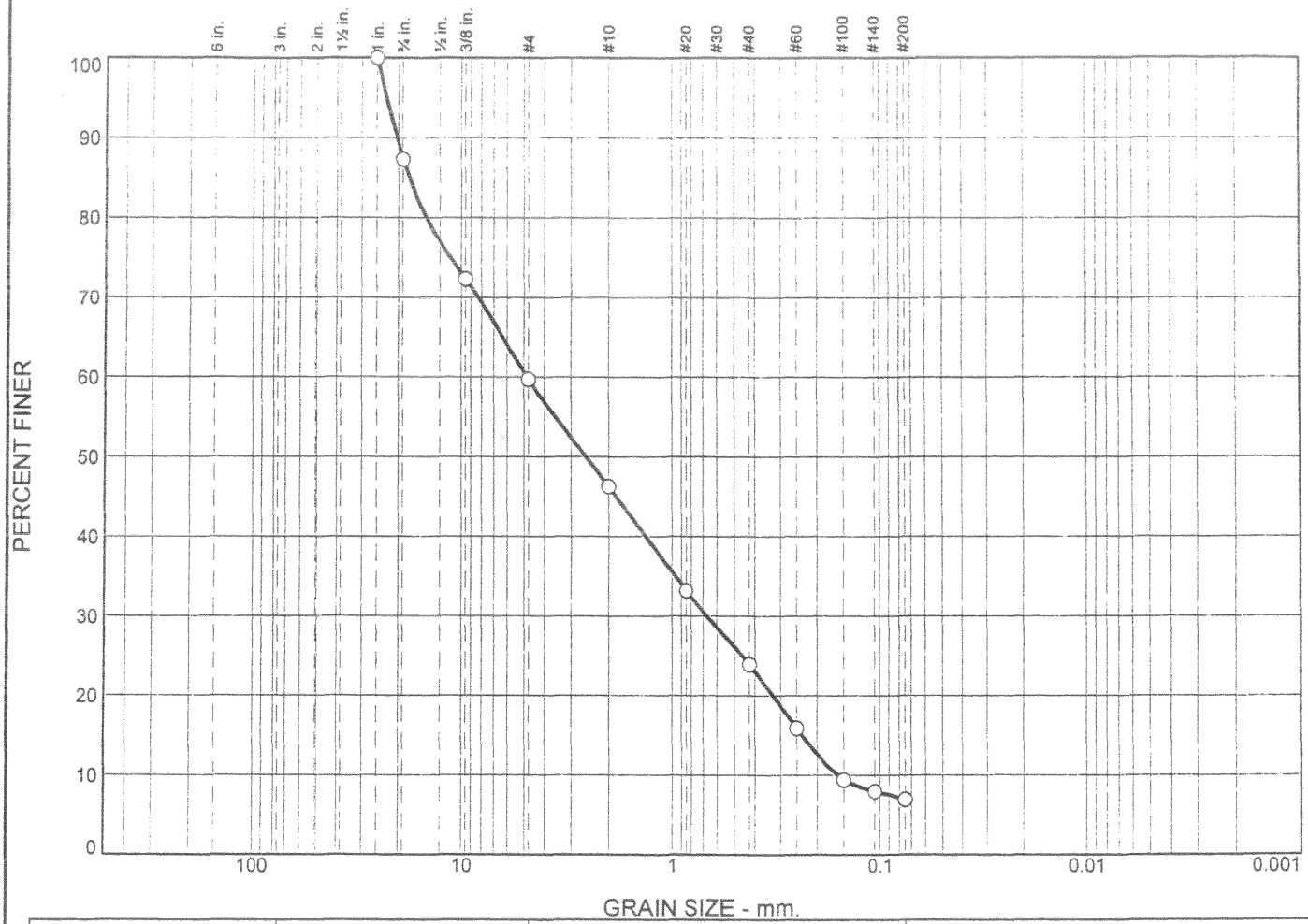
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	13	27	14	22	17	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			17.8046	4.8353	2.5699	0.6715	0.2356	0.1609	0.58	30.06

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0164 **Depth:** 80' to 85'

Date: ○

Remarks:
○ Moisture Content % 11.0 CP05-EAARS-VB-0282

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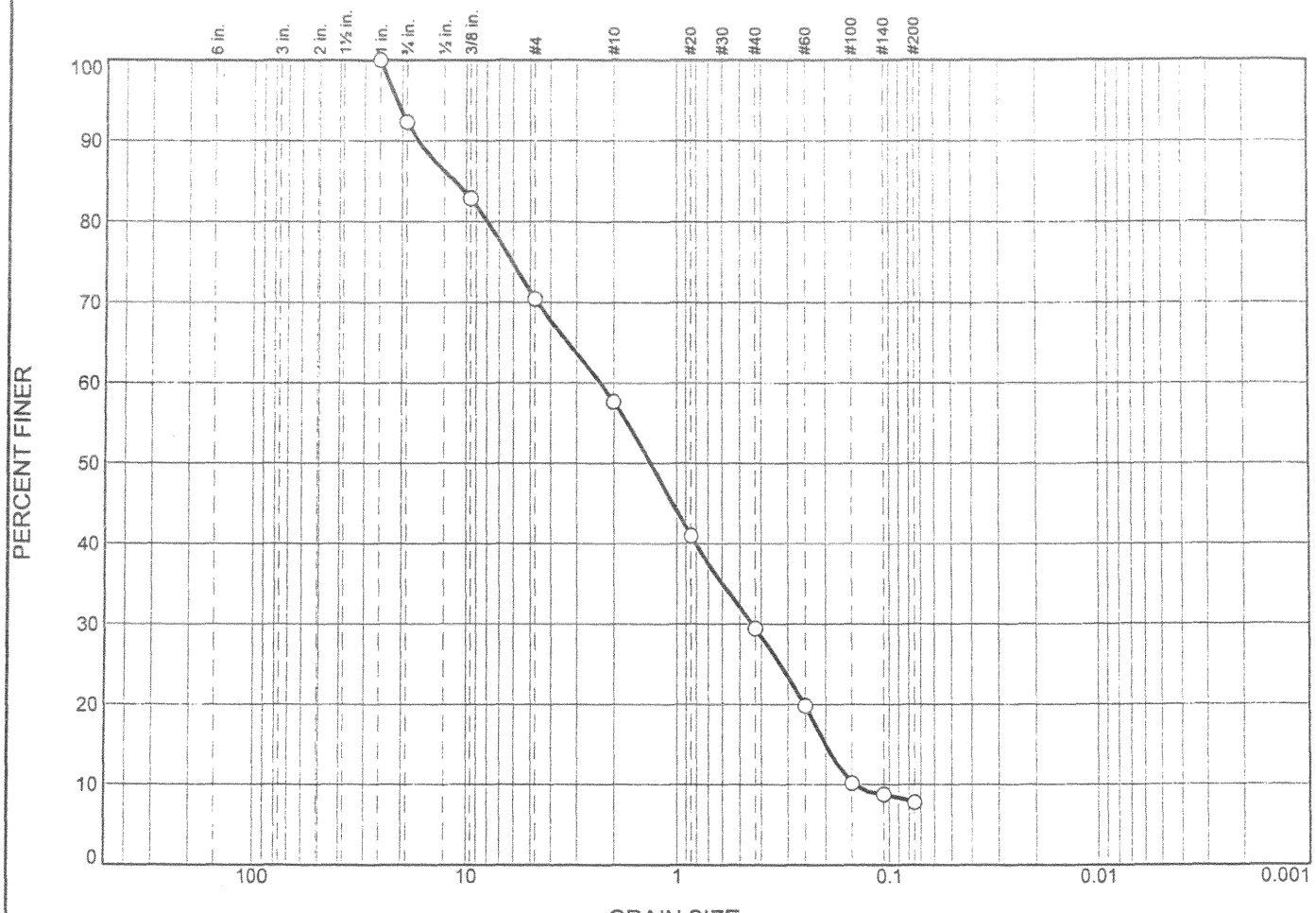
Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	8	22	12	29	21	8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			11.3124	2.3166	1.3336	0.4398	0.2004	0.1478	0.56	15.67

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0164 **Depth:** 85' to 90'

Date: ○

Remarks:
○ Moisture Content % 11.3
CP05-EAARS-VB-0282

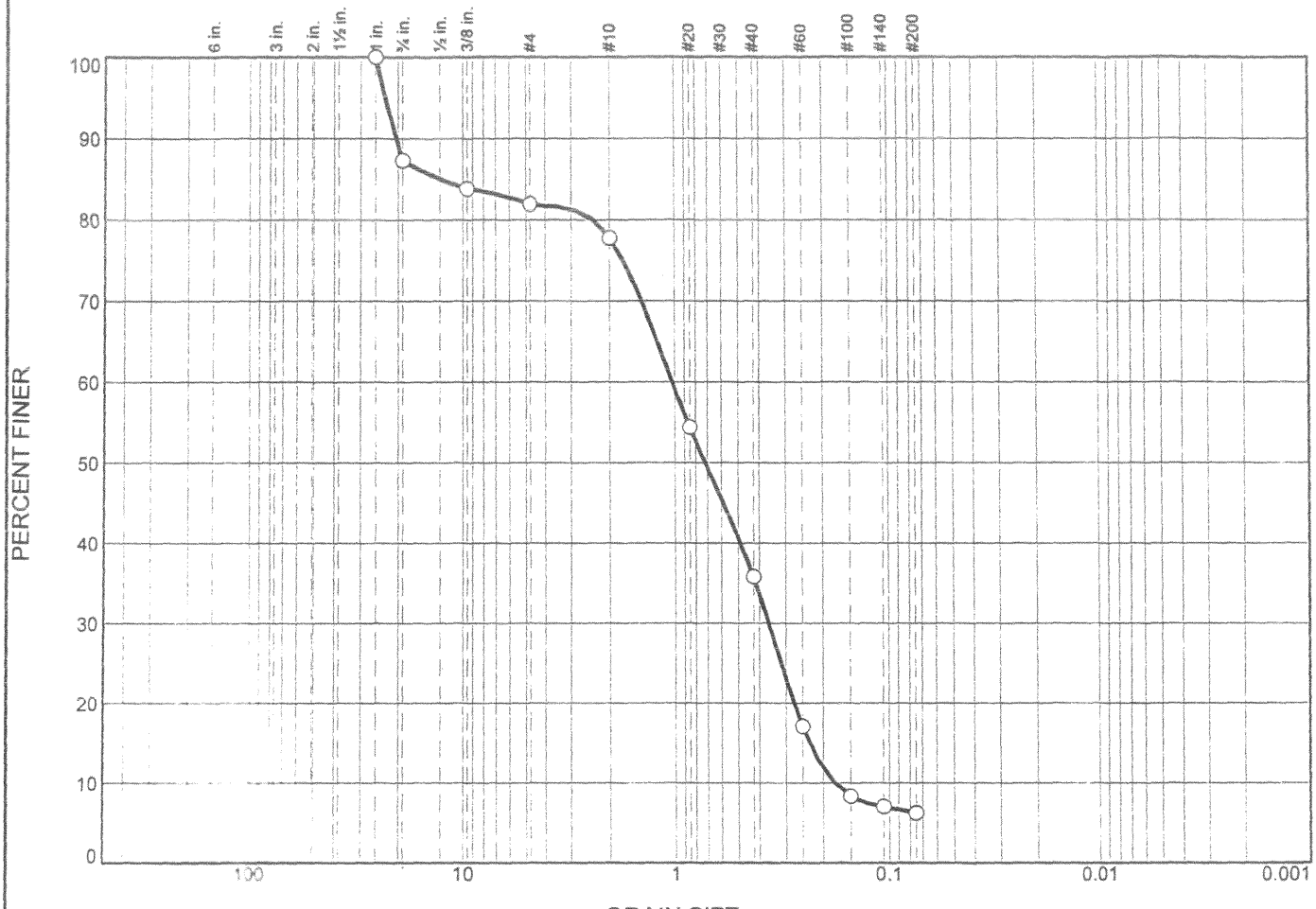
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	12.7	5.3	4.2	42.0	29.6	6.2	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			12.4963	1.0282	0.7182	0.3608	0.2311	0.1767	0.72	5.82

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB164 **Depth:** 95.0'-100.0' **Sample Number:** CB164

Remarks:

○ Moisture Content % 21.9 CP05-EAARS-VB-0282

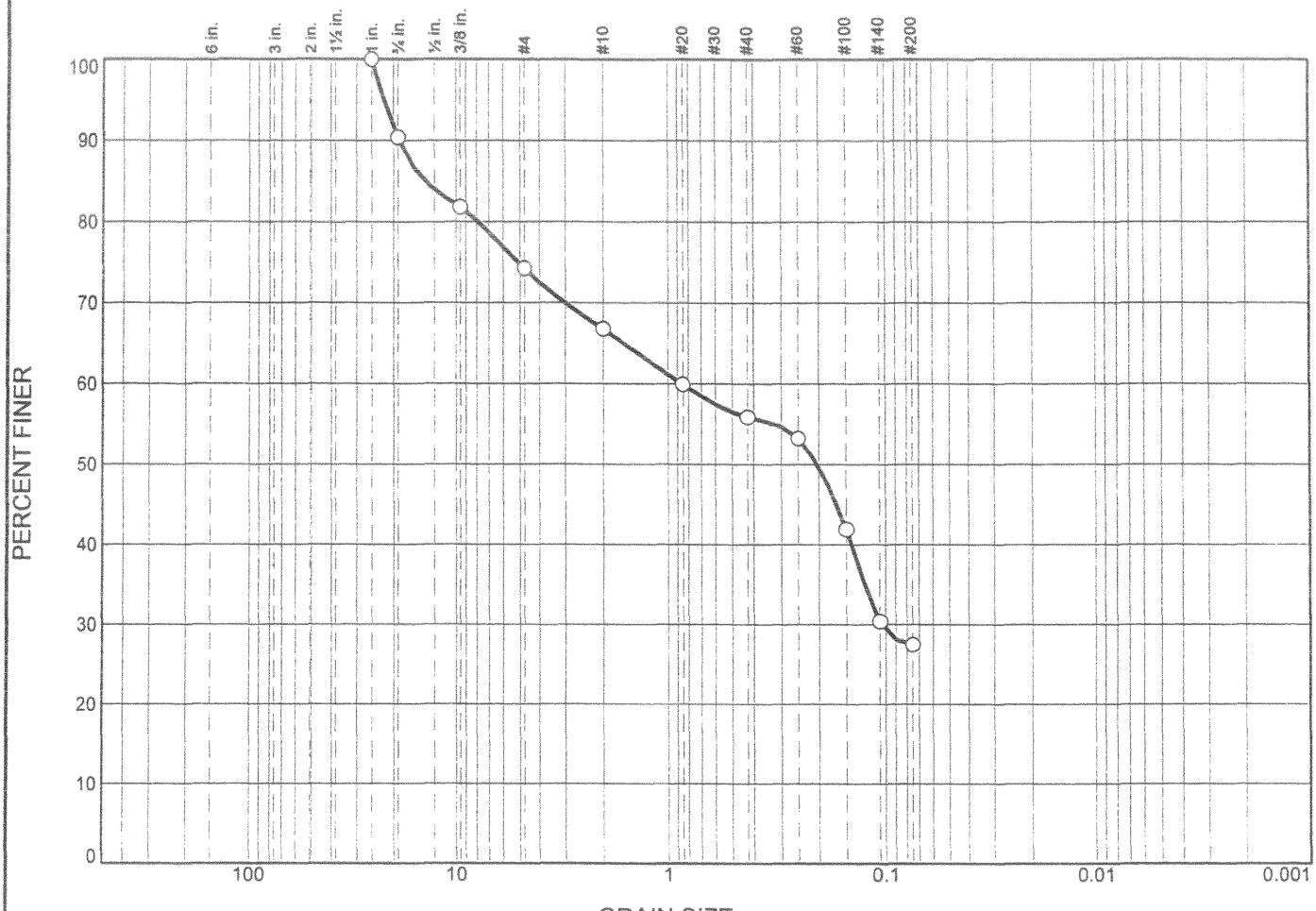
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	9.6	16.2	7.4	11.0	28.3	27.5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			14.1219	0.8574	0.2026	0.1039				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB164 **Depth:** 115.0'-120.0' **Sample No.:** CB164

Remarks:
○ Moisture Content % 19.7 CP05-EAARS-VB-0282

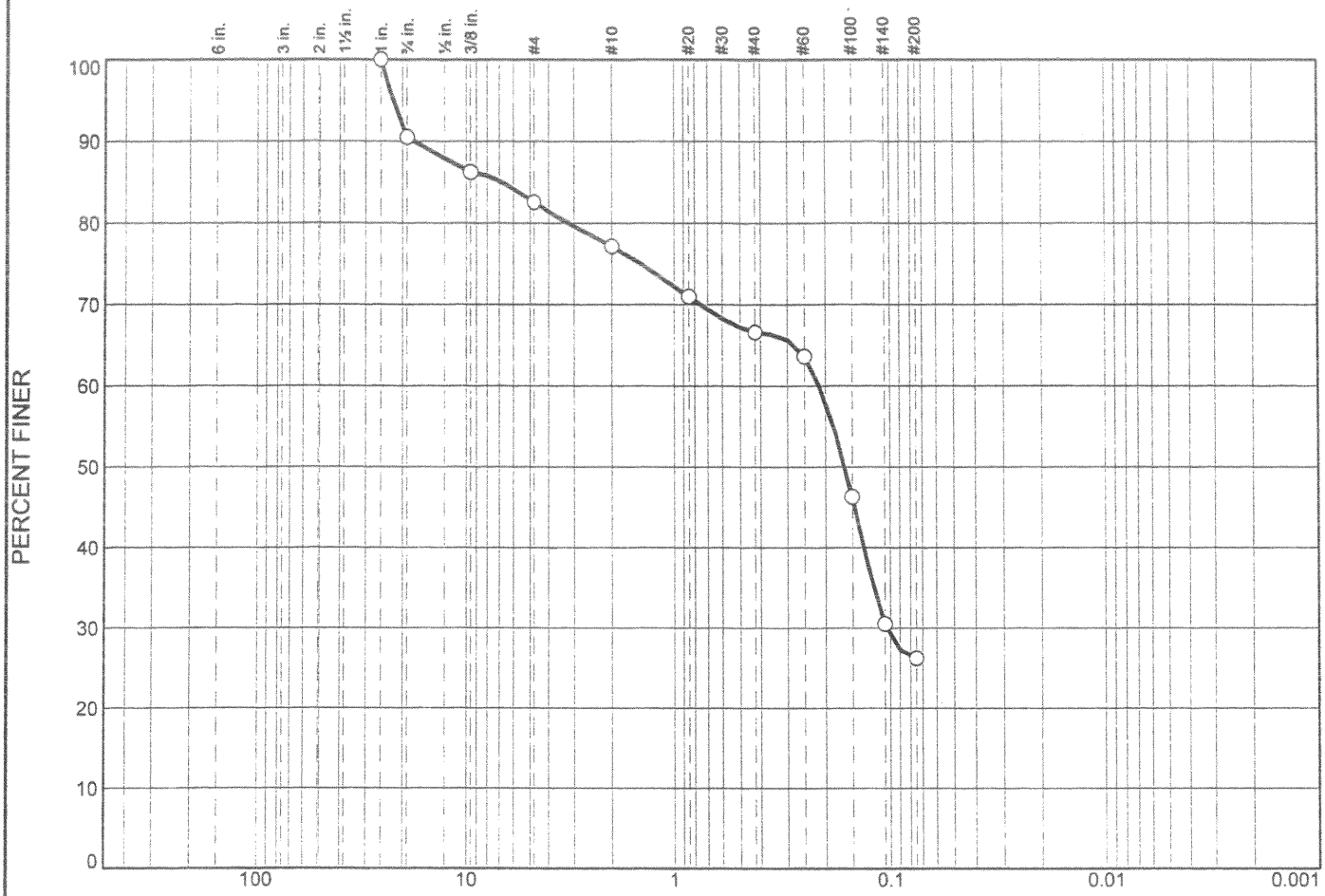
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	9.5	7.9	5.5	10.5	40.3	26.3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			6.8095	0.2131	0.1623	0.1041				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB164 **Depth:** 120.0'-125.0' **Sample No.:** CB164

Remarks:

○ Moisture Content % 22.0 CP05-EAARS-VB-0282

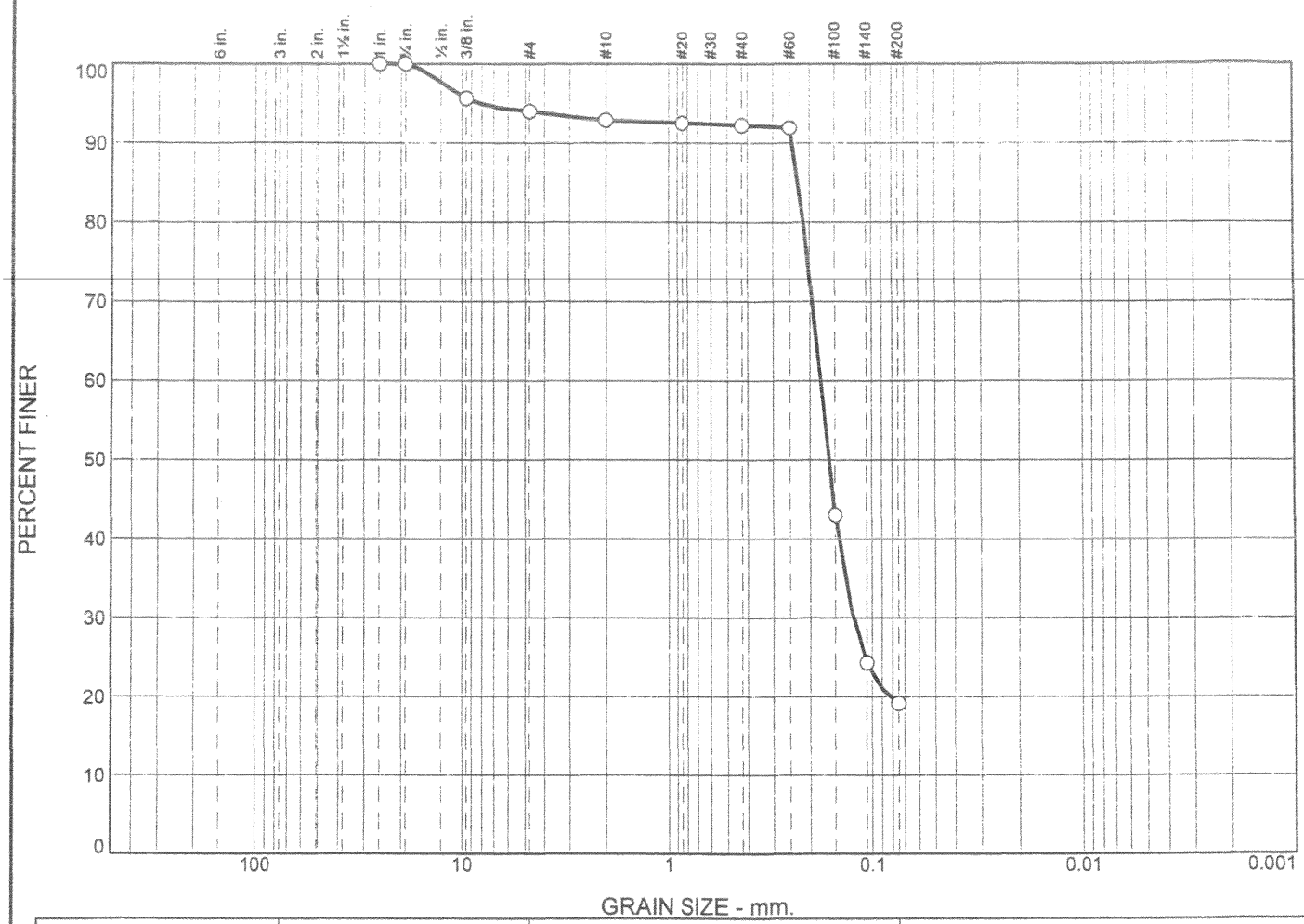
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	6	1	1	73	19	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2266	0.1776	0.1616	0.1233				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0164 **Depth:** 125' to 130'

Date: ○

Remarks:
○ Moisture Content % 18.7
CP05-EAARS-VB-0282

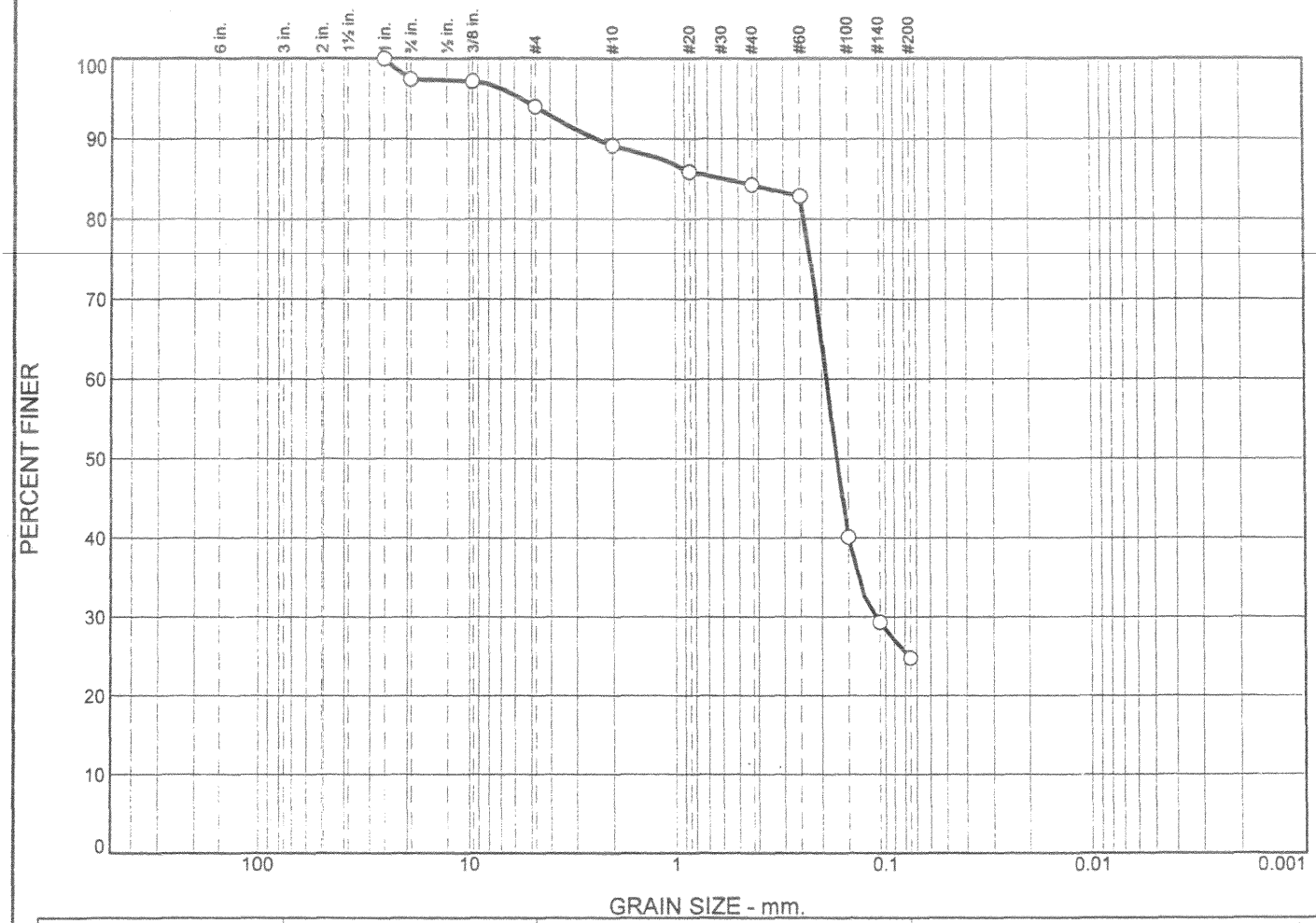
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	2.6	3.4	4.8	4.9	59.5	24.8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.5734	0.1893	0.1702	0.1111				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB164 **Depth:** 130'-135' **Sample Number:** CB164

Remarks:

○ Moisture Content % 21.1 CP05-EAARS-VB-0282

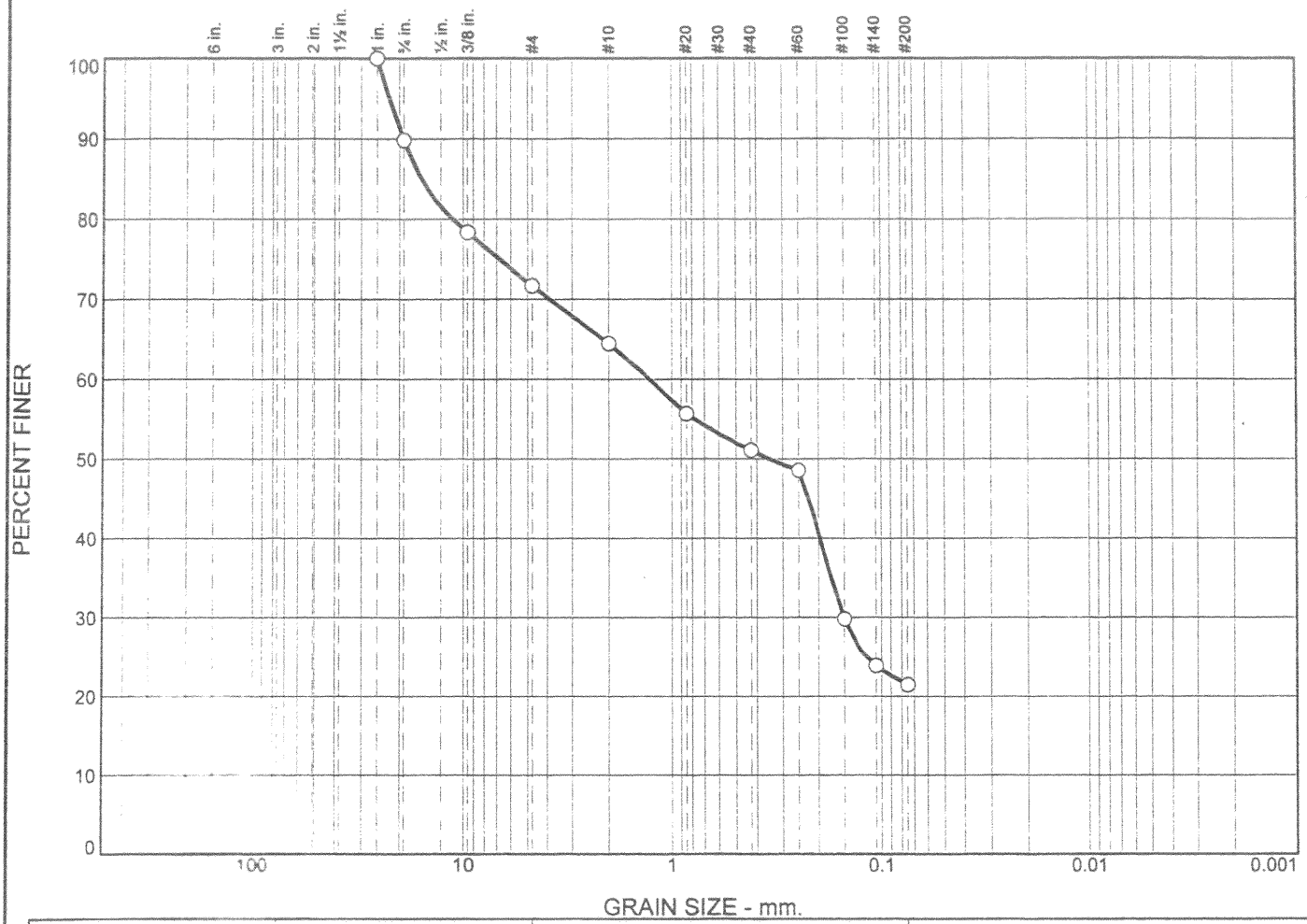
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Bulocki Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	10.2	18.1	7.2	13.4	29.6	21.5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			15.6596	1.2777	0.3461	0.1510				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB164 **Depth:** 135.0'-140.0' **Sample No.:** CB164

Remarks:

○ Moisture Content % 20.9 CP05-EAARS-VB-0282

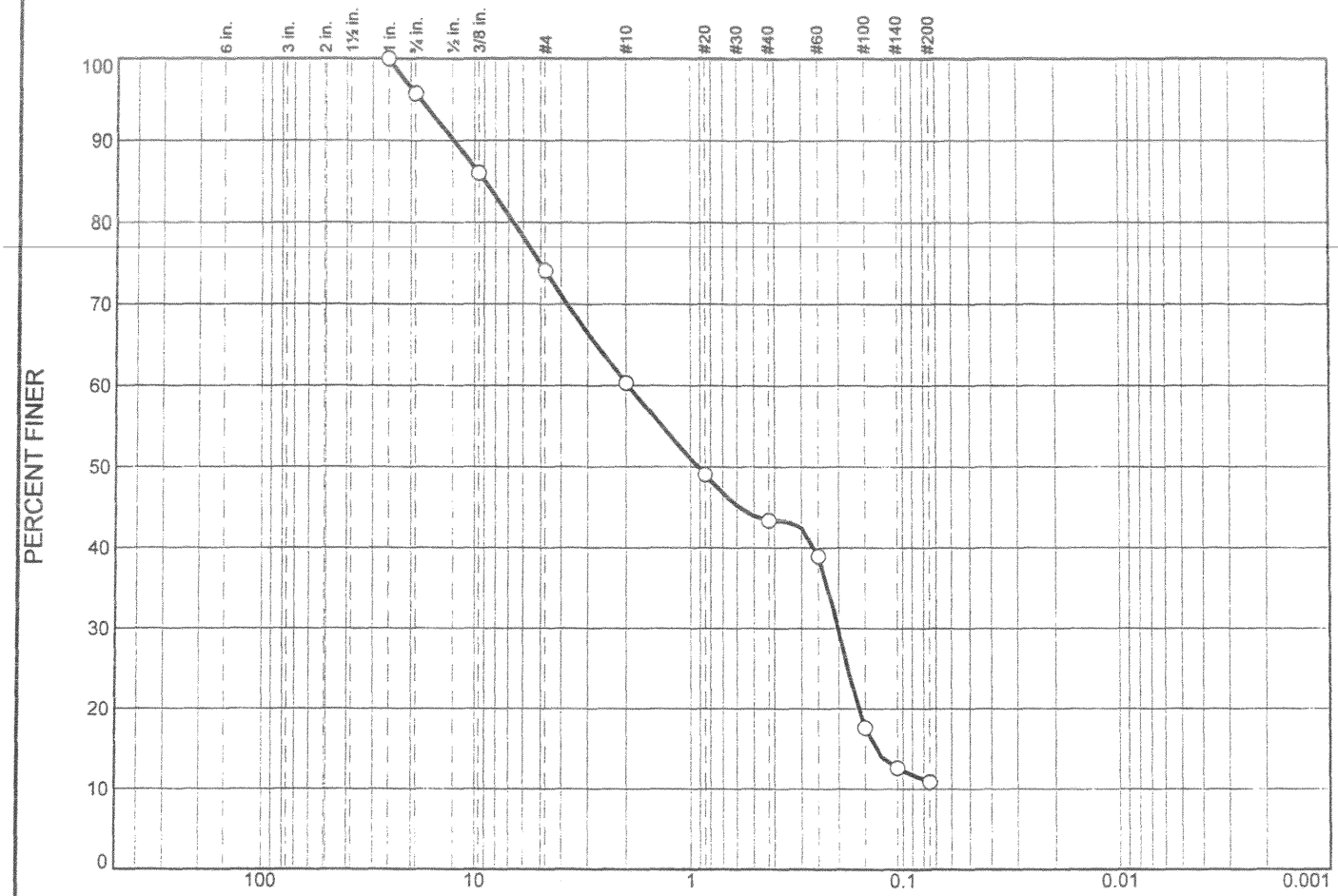
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Bobski Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	4.3	21.6	13.8	16.9	32.5	10.9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			8.9081	1.9524	0.9175	0.2006	0.1342			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB164 **Depth:** 145.0'-150.0' **Sample No.:** CB164

Remarks:

○ Moisture Content % 12.7 CP05-EAARS-VB-0282

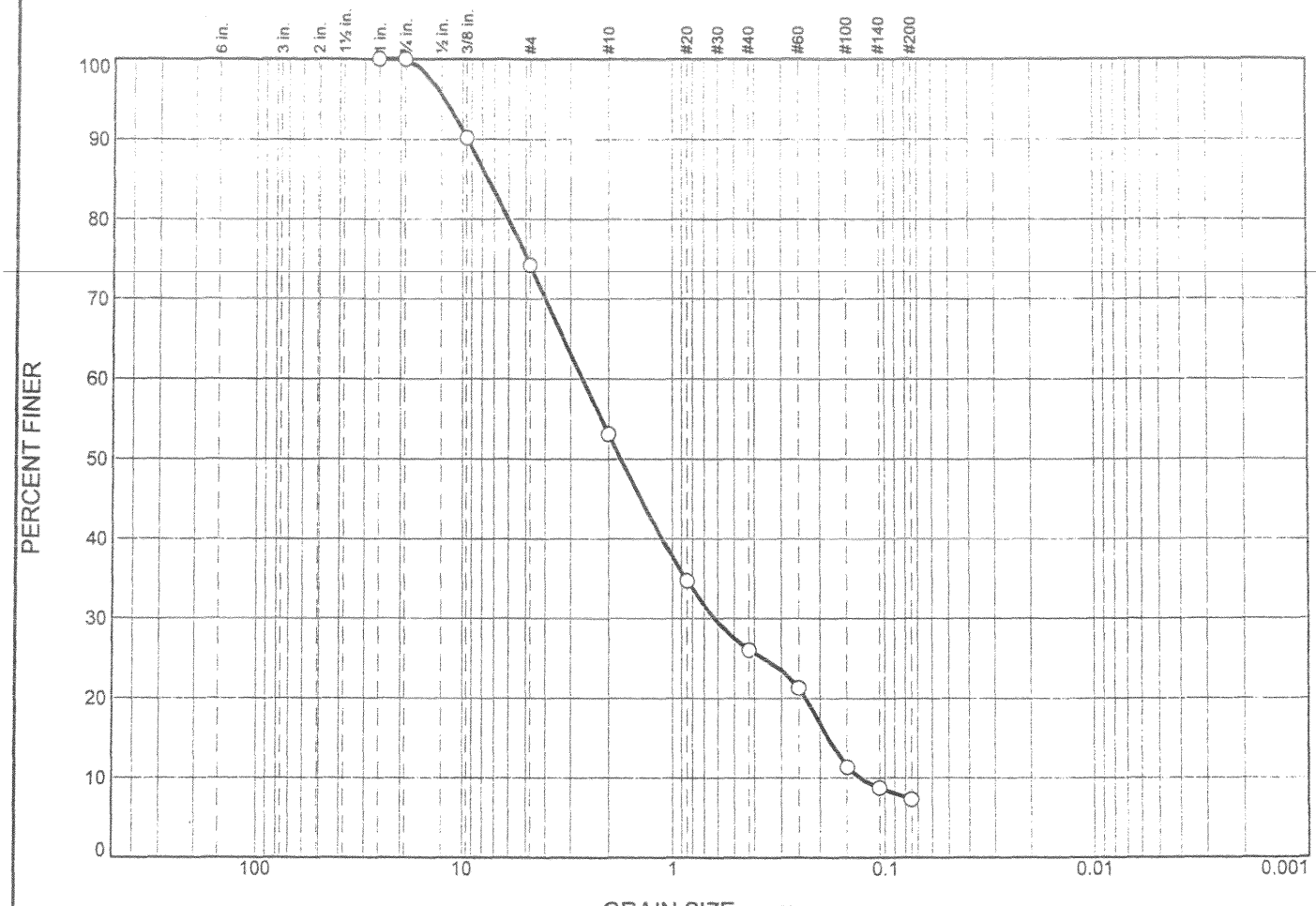
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Bolcoki Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	26	21	27	19	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_U
○			7.5015	2.6549	1.7533	0.6233	0.1832	0.1324	1.10	20.04

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0164 **Depth:** 150' to 155'

Date: ○

Remarks:
○ Moisture Content % 14.9
CP05-EAARS-VB-0282

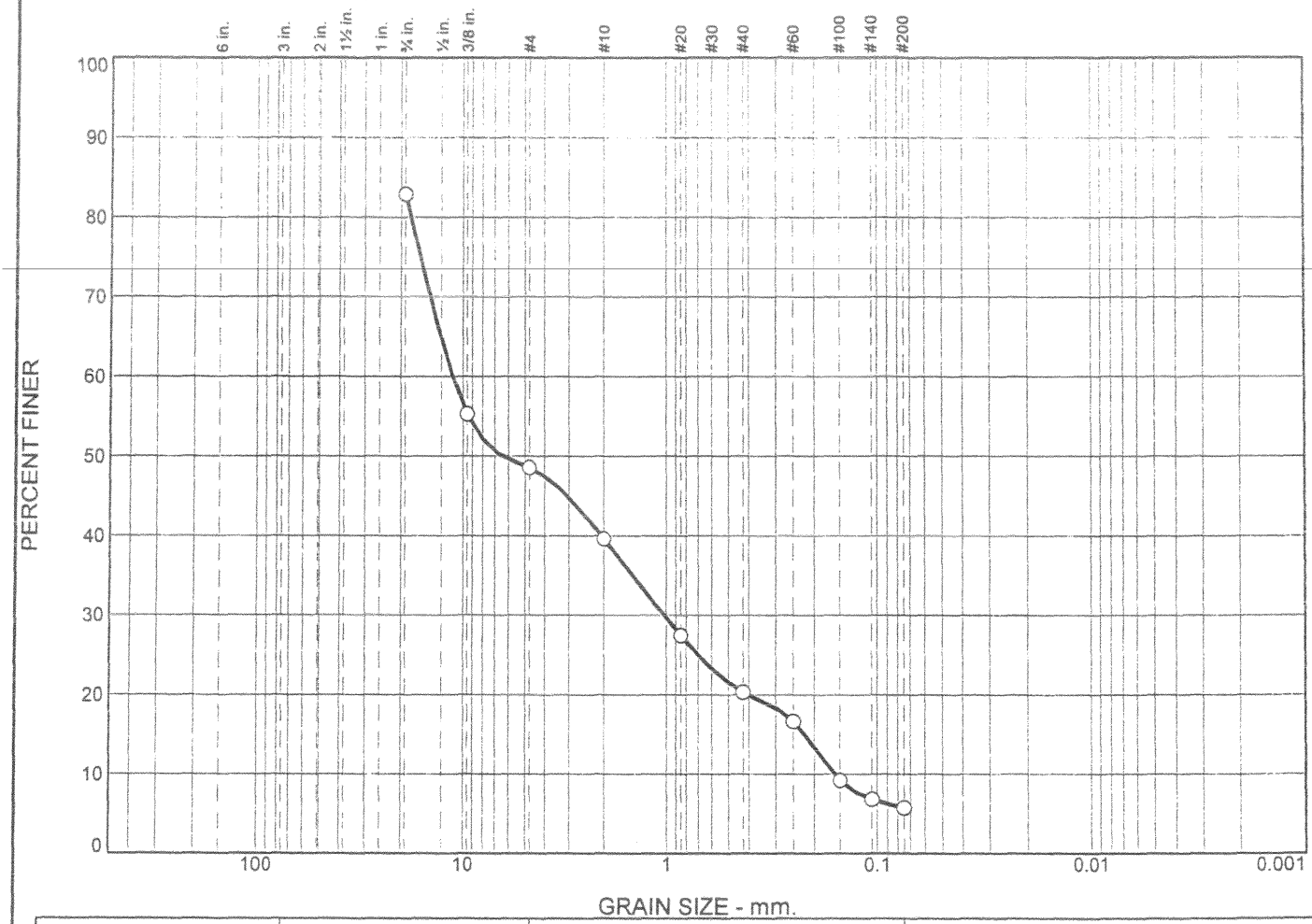
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○			34	9	20	14	6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○				11.1963	6.4125	1.0235	0.2215	0.1599	0.59	70.03

Material Description	USCS	AASHTO
○ Poorly graded gravel with silt and sand	GP-GM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0164 **Depth:** 155' to 160'

Date: ○

Remarks:
○ Moisture Content % 9.9
CP05-EAARS-VB-0282

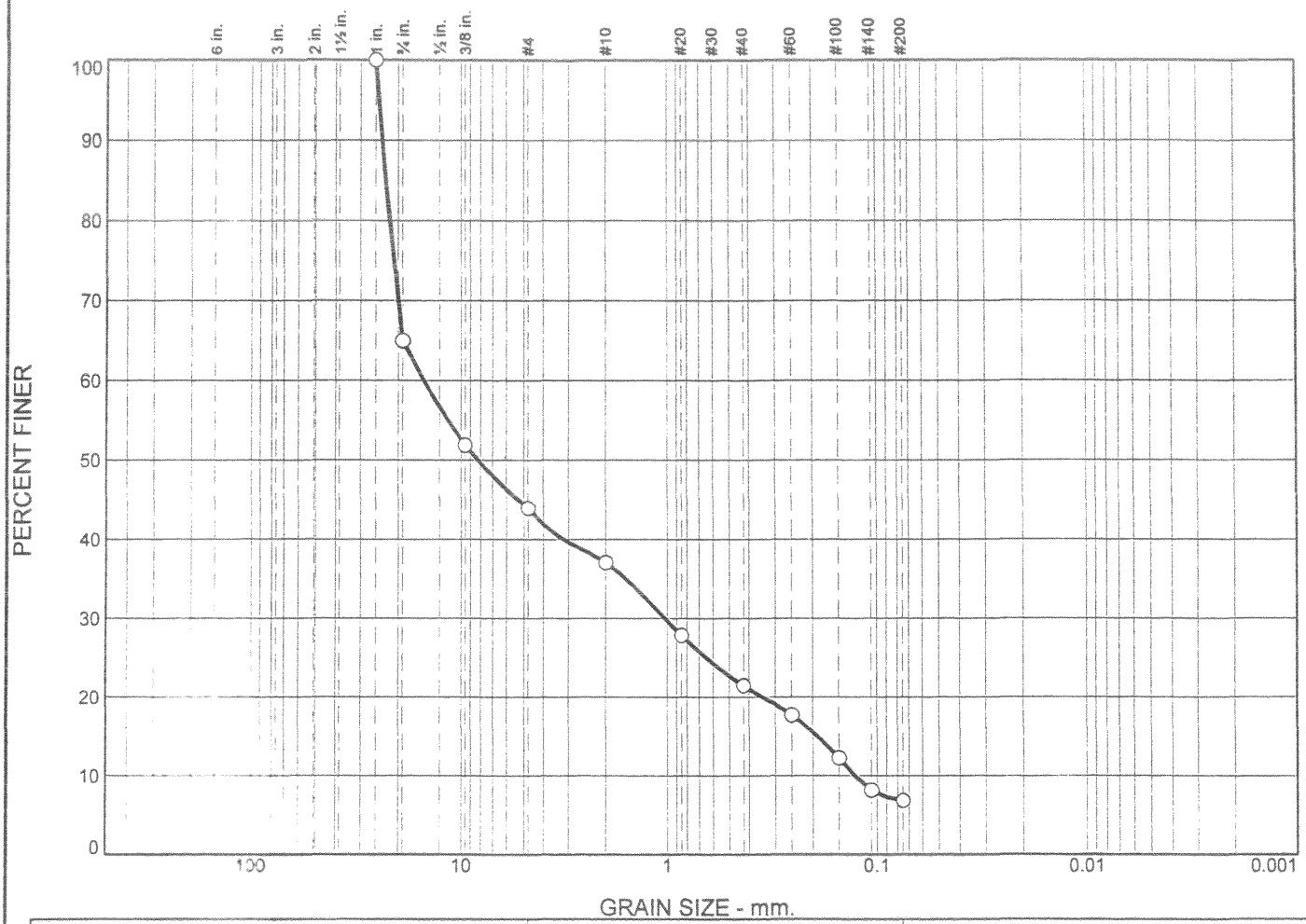
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	35.0	21.1	6.8	15.6	14.7	6.8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			22.7402	15.0819	8.2175	1.0253	0.1889	0.1262	0.55	119.52

Material Description	USCS	AASHTO
○ Poorly graded gravel with silt and sand	GP-GM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB164 **Depth:** 165.0'-170.0' **Sample No.:** CB164

Remarks:
○ Moisture Content % 13.8 CP05-EAARS-VB-0282

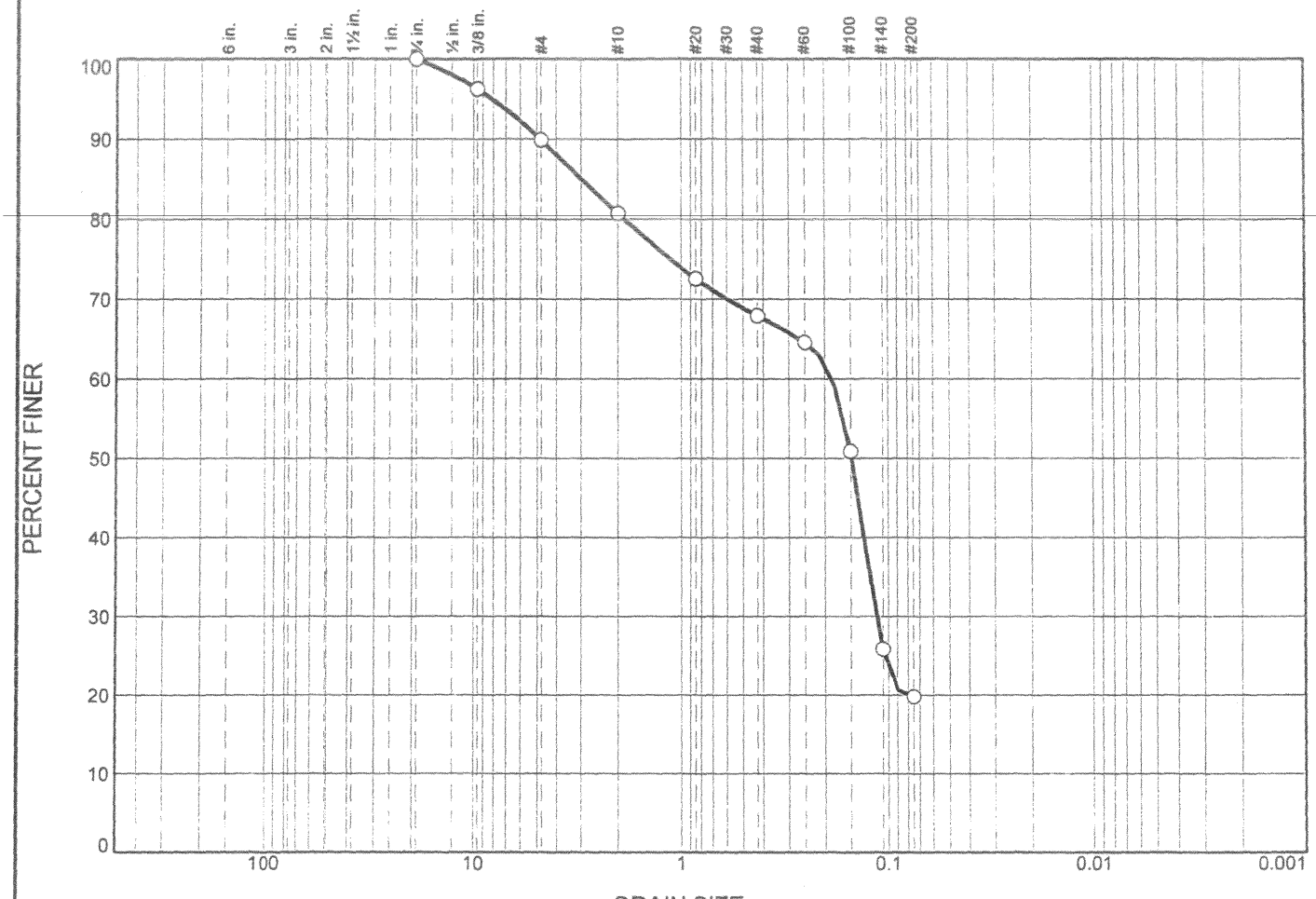
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	10.1	9.1	12.9	48.1	19.8	

☒	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.9826	0.1836	0.1480	0.1136				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB164 **Depth:** 180.0'-185.0' **Sample No.:** CB164

Remarks:
○ Moisture Content % 19.6 CP05-EAARS-VB-0282

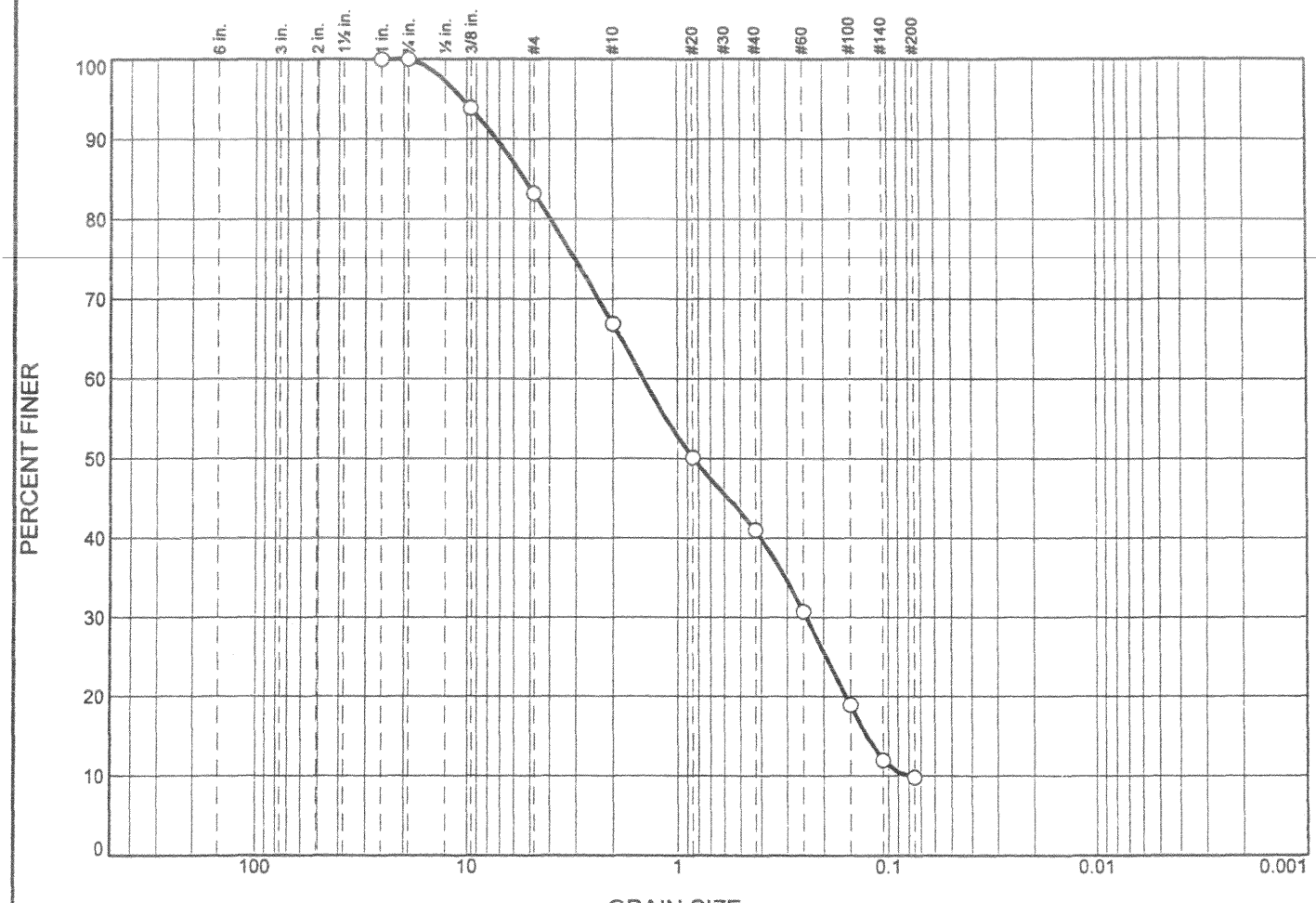
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Bolooki Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	17	16	26	31	10	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			5.2765	1.4443	0.8436	0.2419	0.1263	0.0804	0.50	17.96

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0185 **Depth:** 53.5' **Sample Number:** 12

Date: ○

Remarks:
○ Moisture Content % 22.6 CP05-EAARS-CB-0280 @ 53.5'

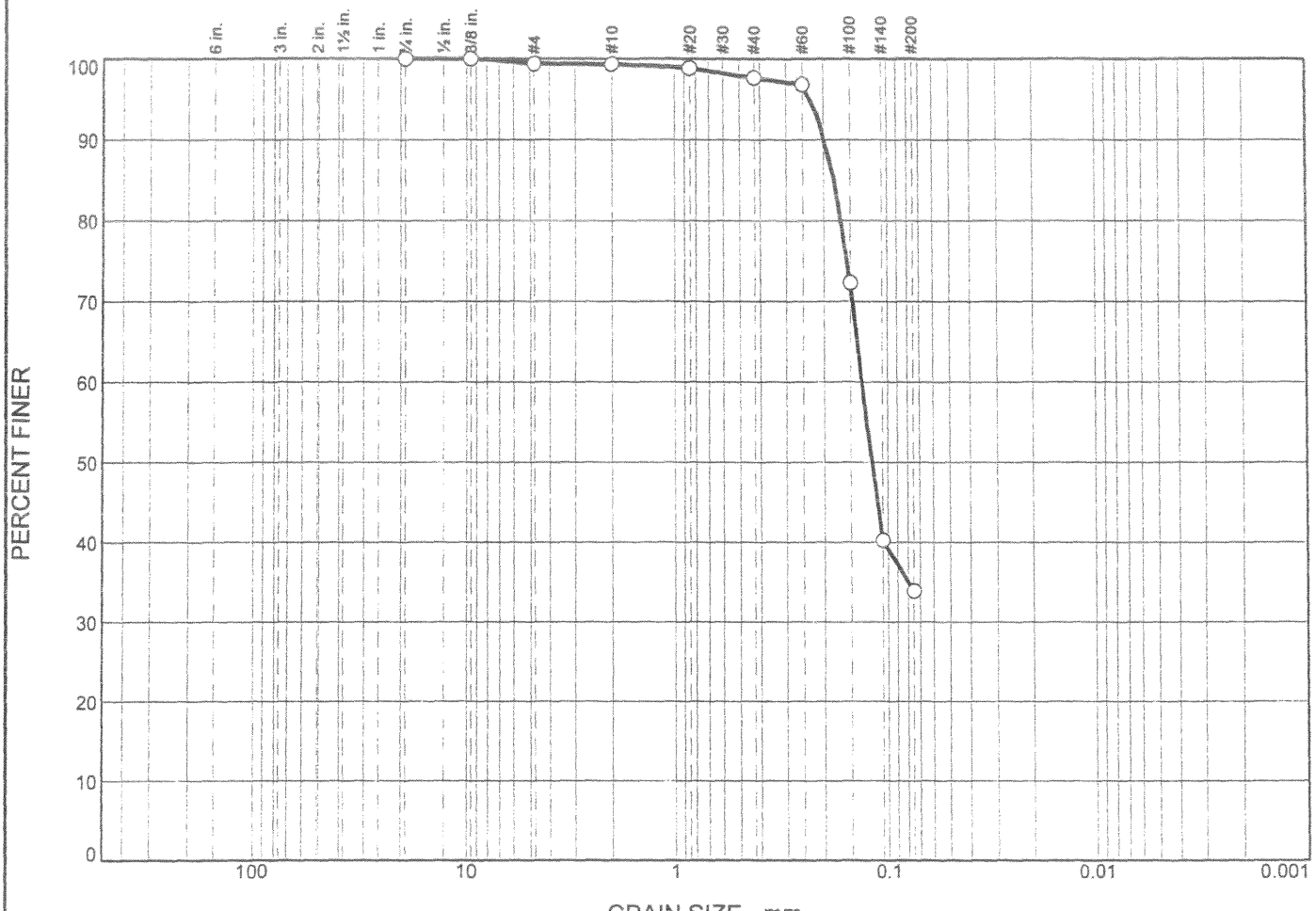
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Juan Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.6	0.1	1.6	63.8	33.9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.1781	0.1324	0.1198					

Material Description	USCS	AASHTO
○ Sandy silt	ML	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB164 **Depth:** 200.0'-205.0' **Sample No.:** CB164

Remarks:
○ Moisture Content % 20.2 CP05-EAARS-VB-0282

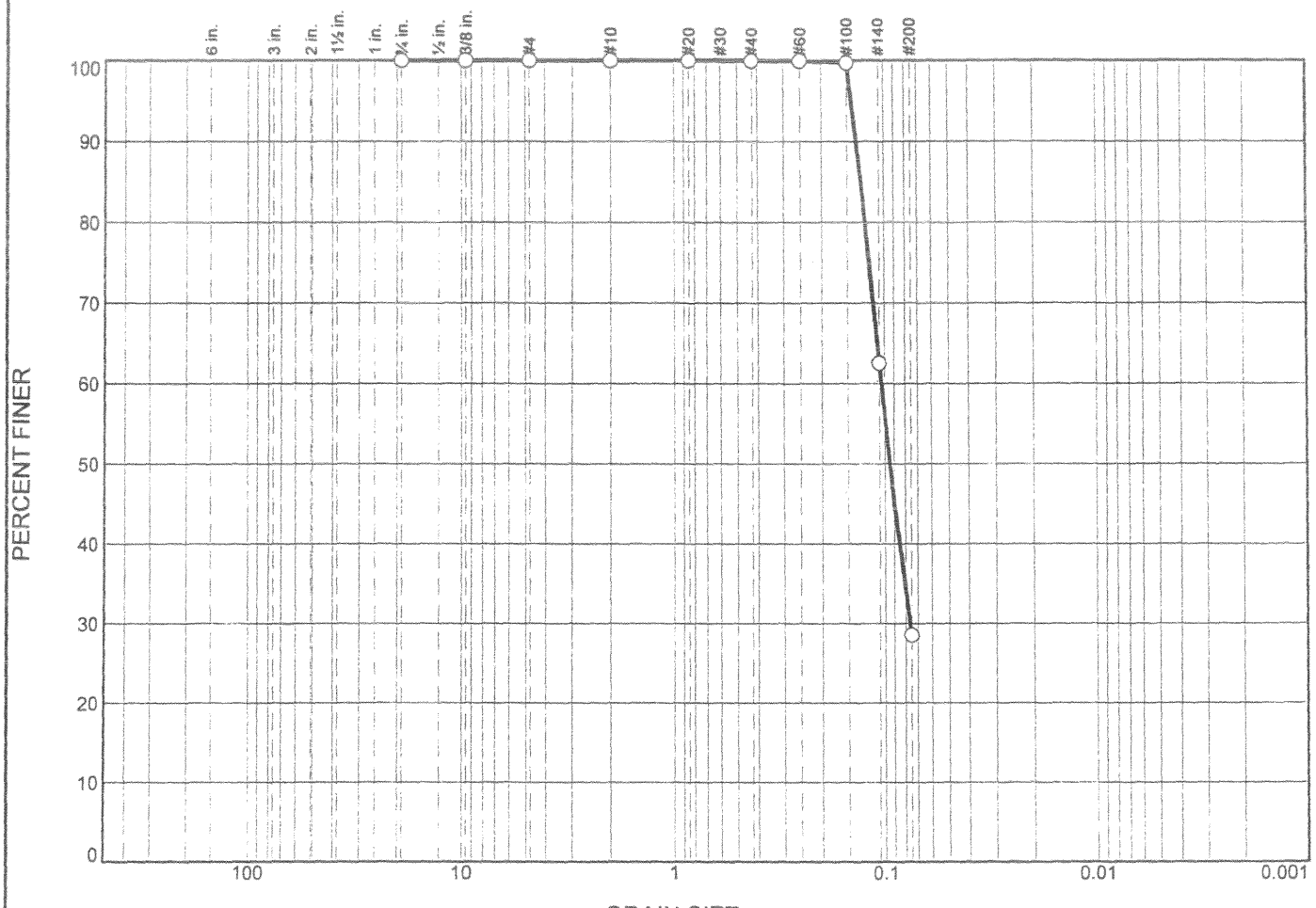
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Bolooki **Checked By:** K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.0	71.5	28.5	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.1280	0.1037	0.0943	0.0762				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB164 **Depth:** 215.0'-220.0' **Sample No.:** CB164

Remarks:

○ Moisture Content % 27.5 CP05-EAARS-VB-0282

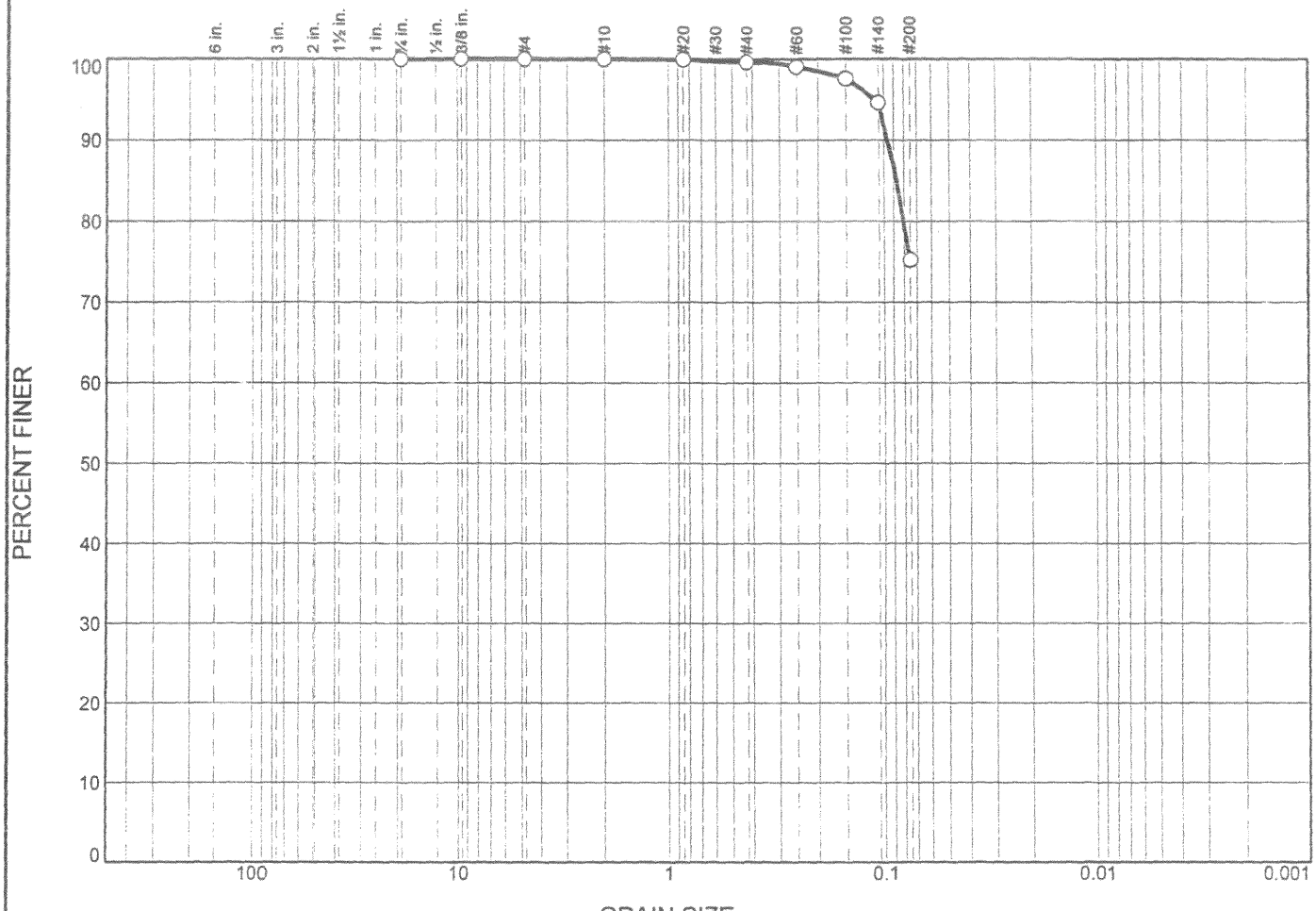
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Bolooki Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	0.4	24.4	75.2	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.0870							

Material Description	USCS	AASHTO
○ Inorganic silts and very fine sand	ML	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB164 **Depth:** 225.0'-230.0 **Sample Number:** CB164

Remarks:
○ Moisture Content % 36.0 CP05-EAARS-VB-0282

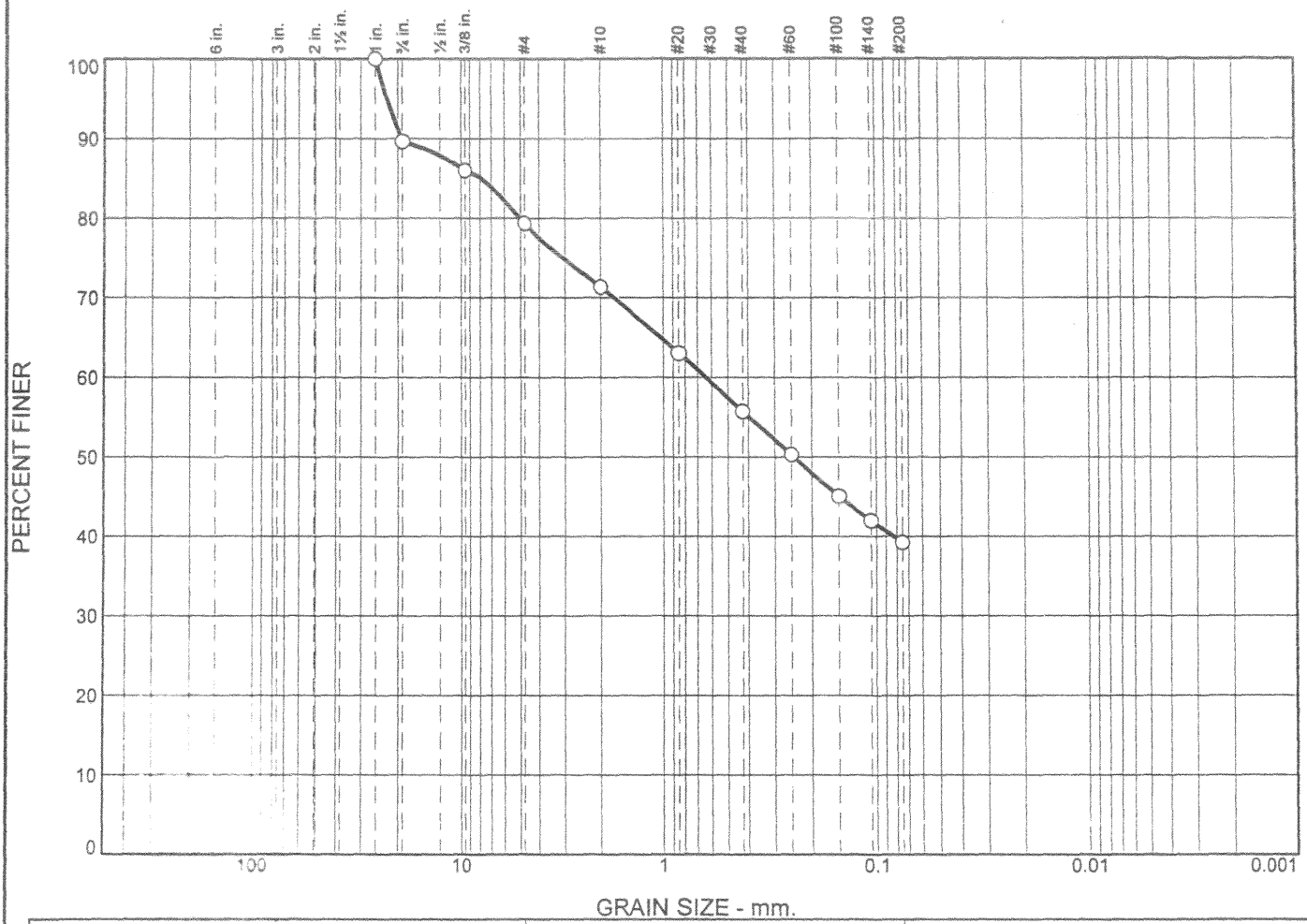
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Bolooki Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	10	11	8	15	17	39	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			7.8183	0.6365	0.2417					

Material Description	USCS	AASHTO
○ Sandy silty clay with gravel	CL-ML	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 5'-10'

Date: ○

Remarks:
○ Moisture Content % 9.81 CP05-EAARS-VB-0283

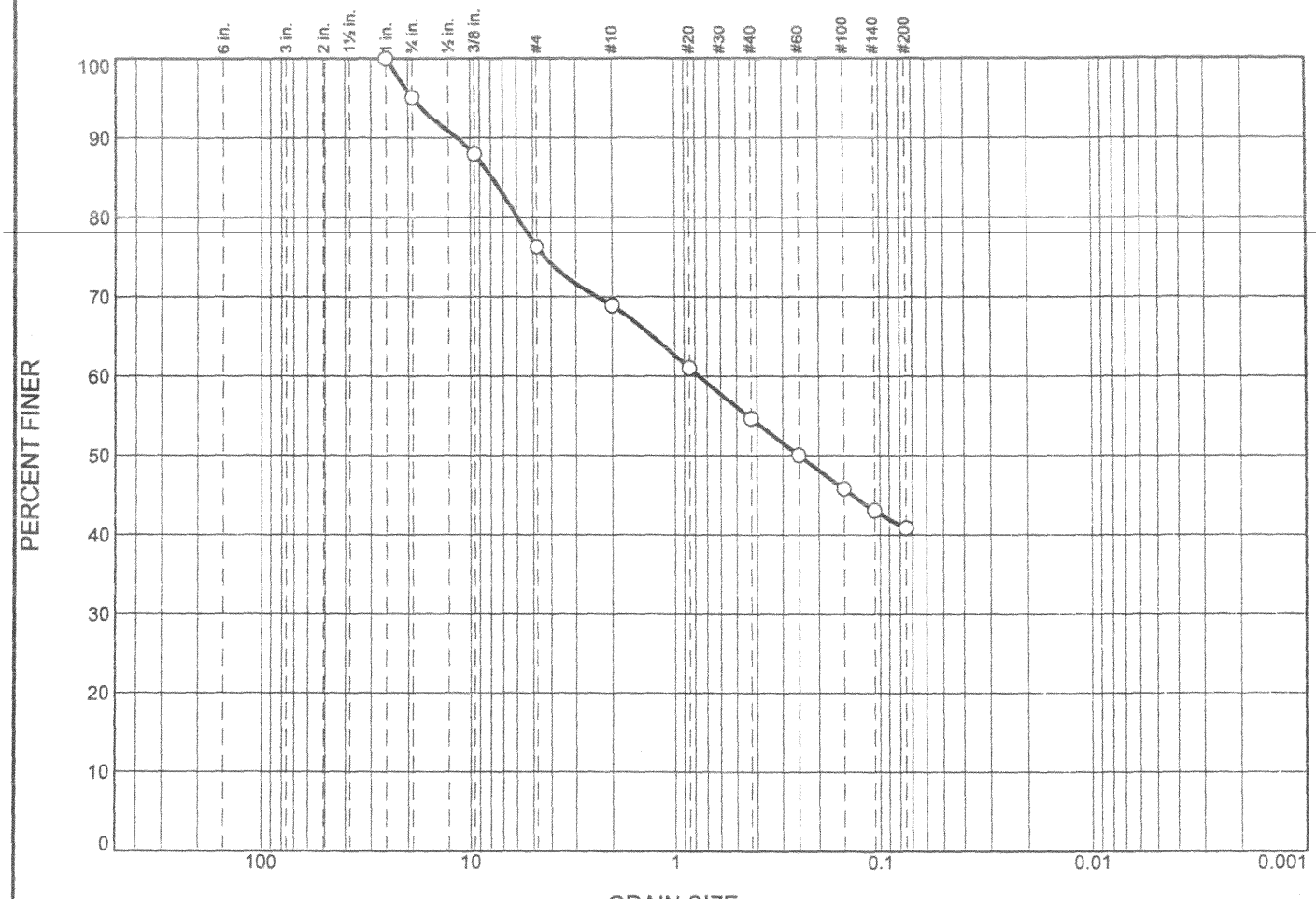
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Ricardo Samaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	5	19	7	14	14	41	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			7.8572	0.7648	0.2494					

Material Description	USCS	AASHTO
○ Sandy silty clay with gravel	CL-ML	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 10'-15'

Date: ○

Remarks:
○ Moisture Content % 22.8 CP05-EAARS-VB-0283

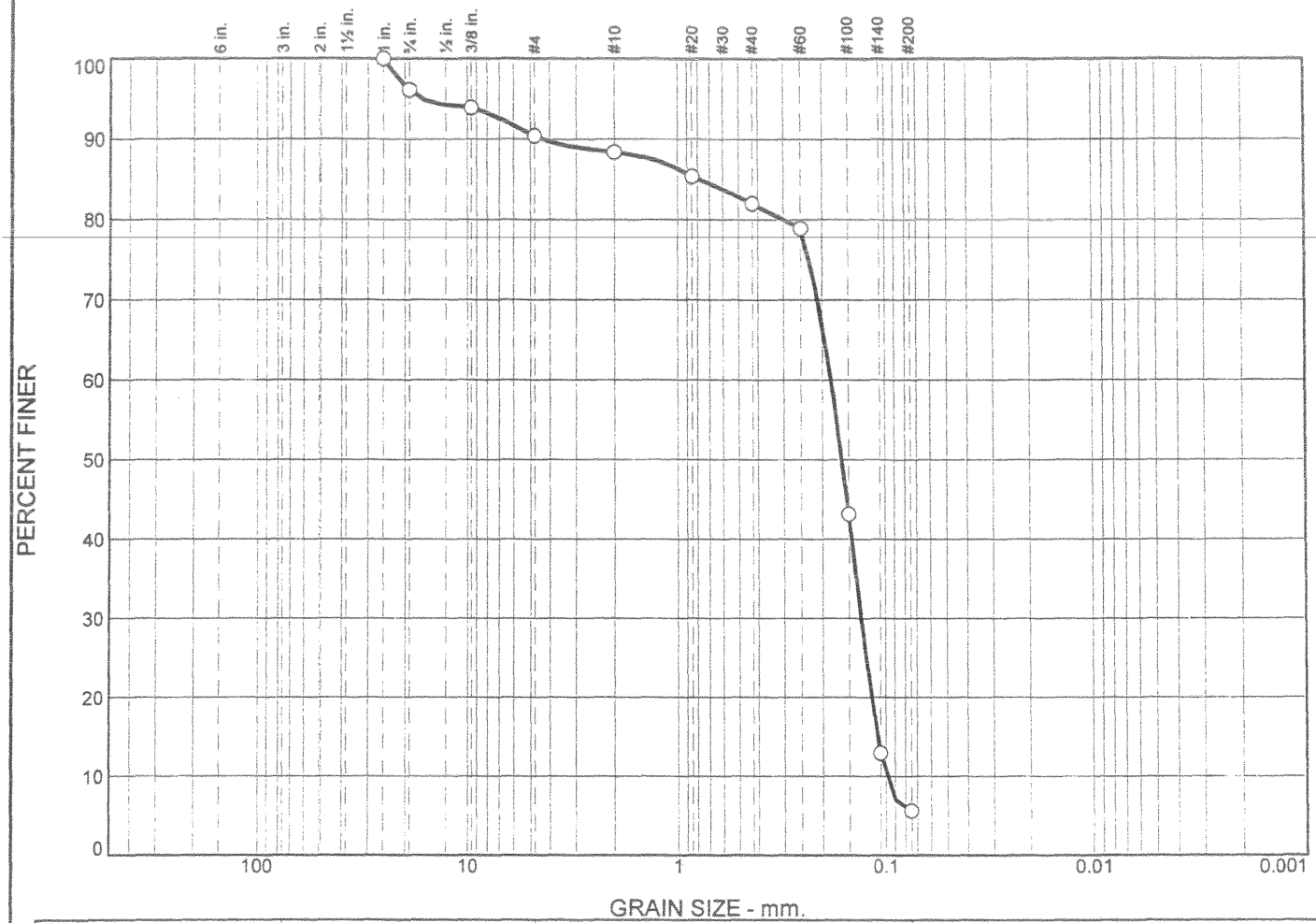
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	3.9	5.7	2.0	6.4	76.4	5.6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_U
○			0.7798	0.1812	0.1613	0.1312	0.1097	0.0996	0.95	1.82

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB174 **Depth:** 40.0'-45.0' **Sample Number:** CB174

Remarks:
○ Moisture content % 17.1 CP05-EAARS-VB-0283

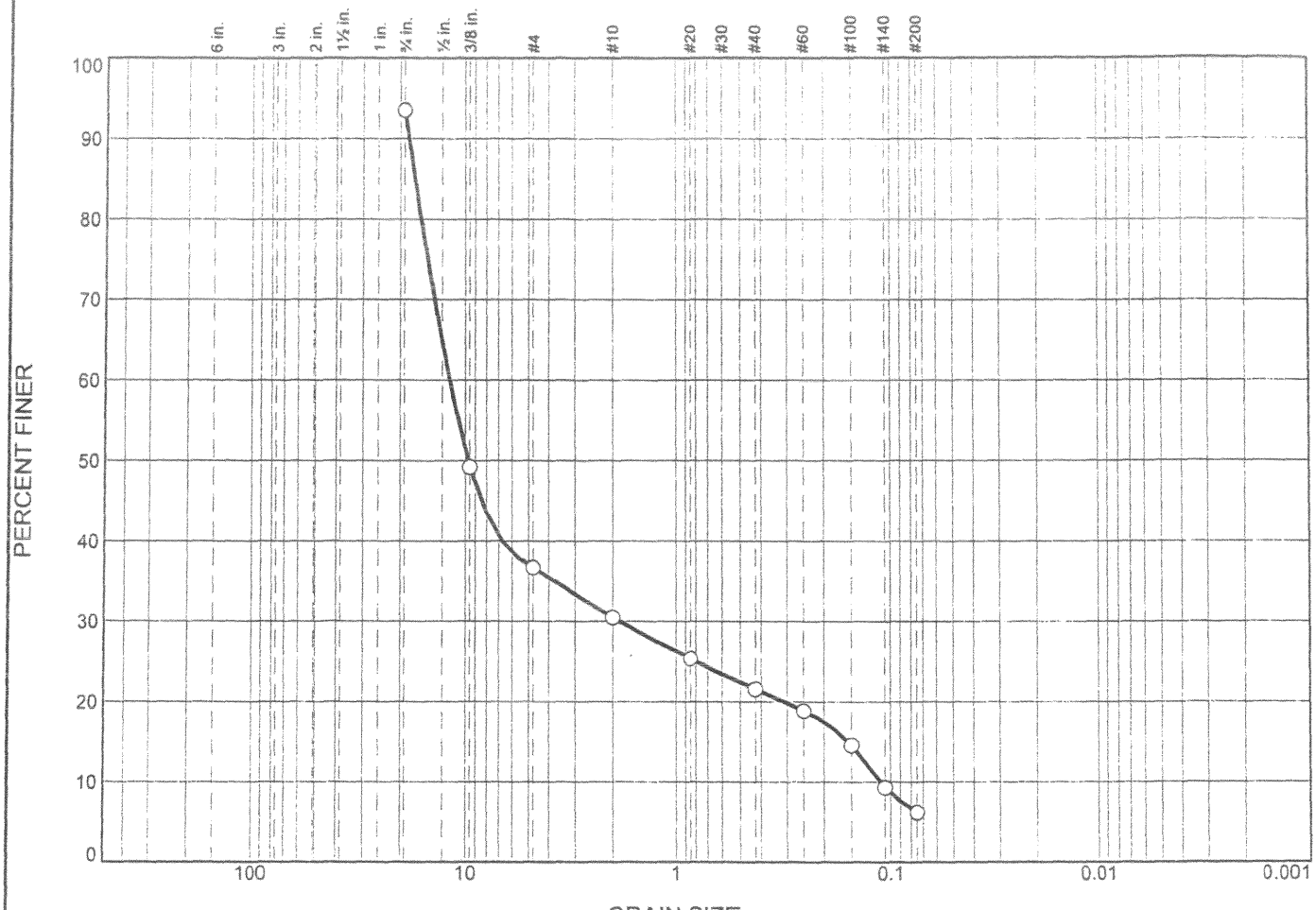
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: L Mazo **Checked By:** M Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○			57	7	8	16	6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			17.0084	11.7946	9.7039	1.8617	0.1550	0.1113	2.64	105.93

Material Description	USCS	AASHTO
○ Poorly graded gravel with silt and sand	GP-GM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 45' to 50'

Date: ○

Remarks:
○ Moisture Content % 4.0
CP05-EAARS-VB-0283

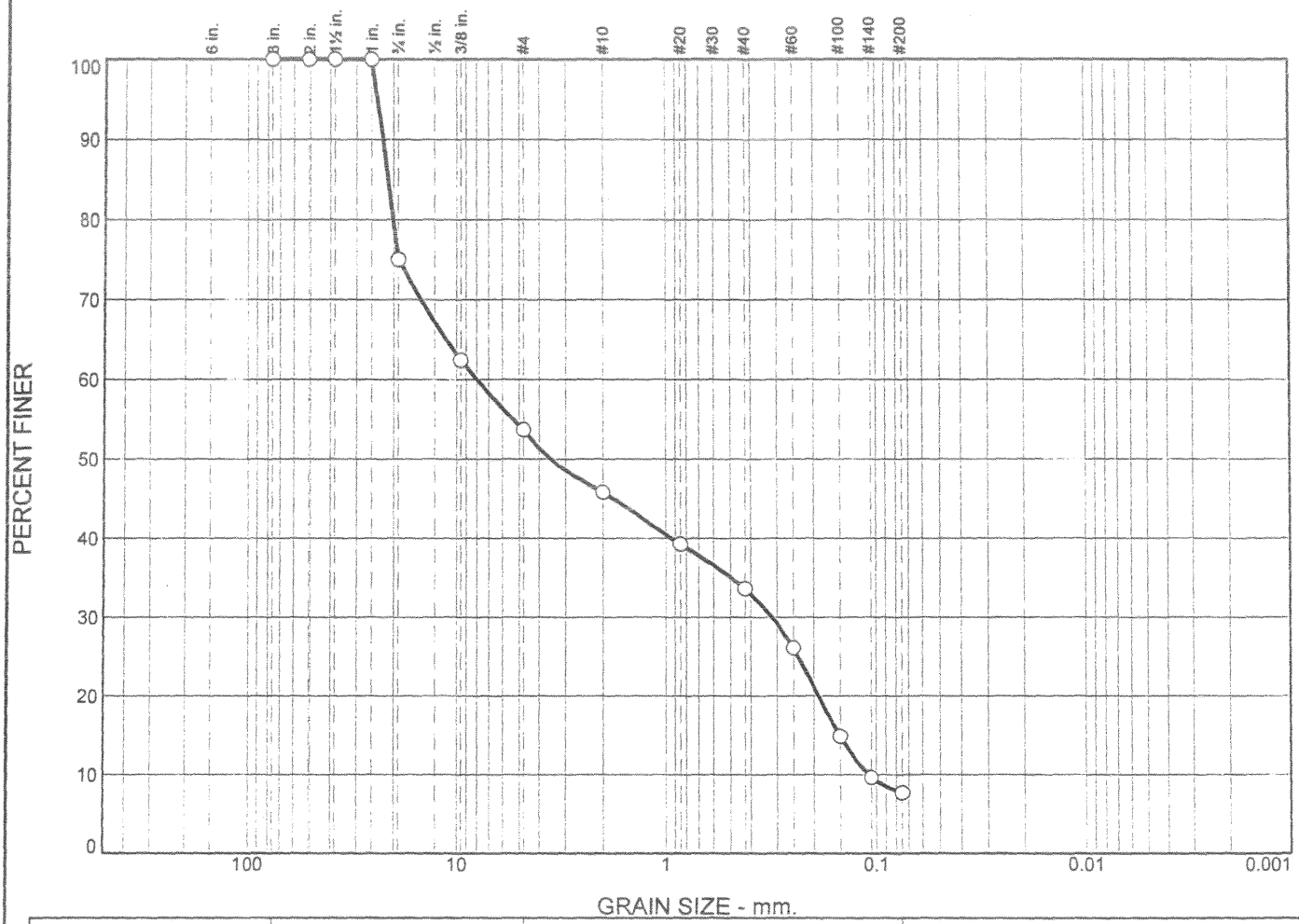
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	25.0	21.3	7.9	12.2	25.9	7.7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			21.2325	7.9734	3.5183	0.3143	0.1510	0.1096	0.11	72.78

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB174 **Depth:** 60.0'-65.0' **Sample Number:** CB174

Remarks:
○ Moisture content % 7.6 CP05-EAARS-VB-0283

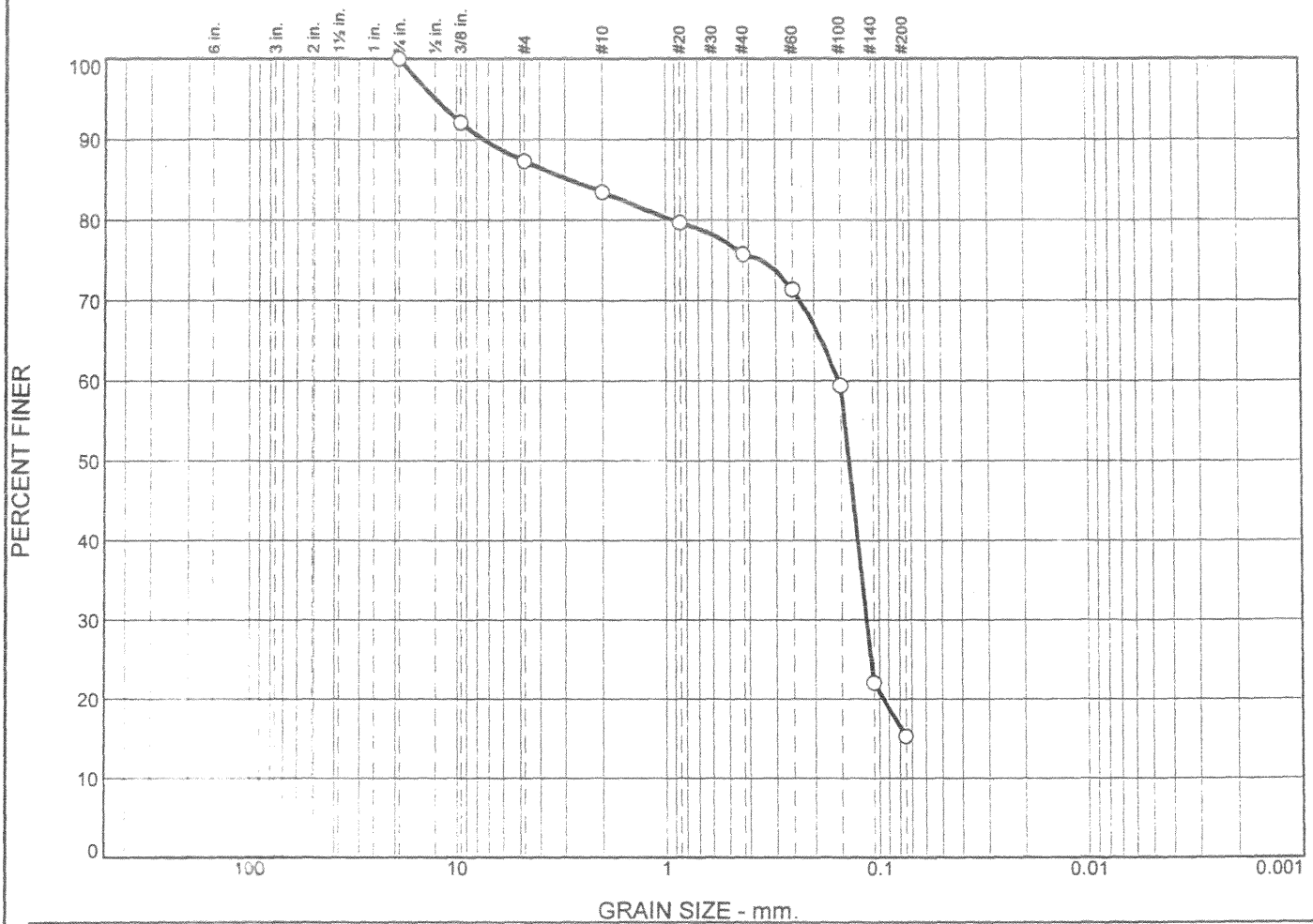
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: L Mazo Checked By: M Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	12.7	3.8	7.7	60.5	15.3	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.8557	0.1528	0.1369	0.1154				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB174 **Depth:** 70'-75.0' **Sample Number:** CB174

Remarks:
○ Moisture content % 14.82 CP05-EAARS-VB-0283

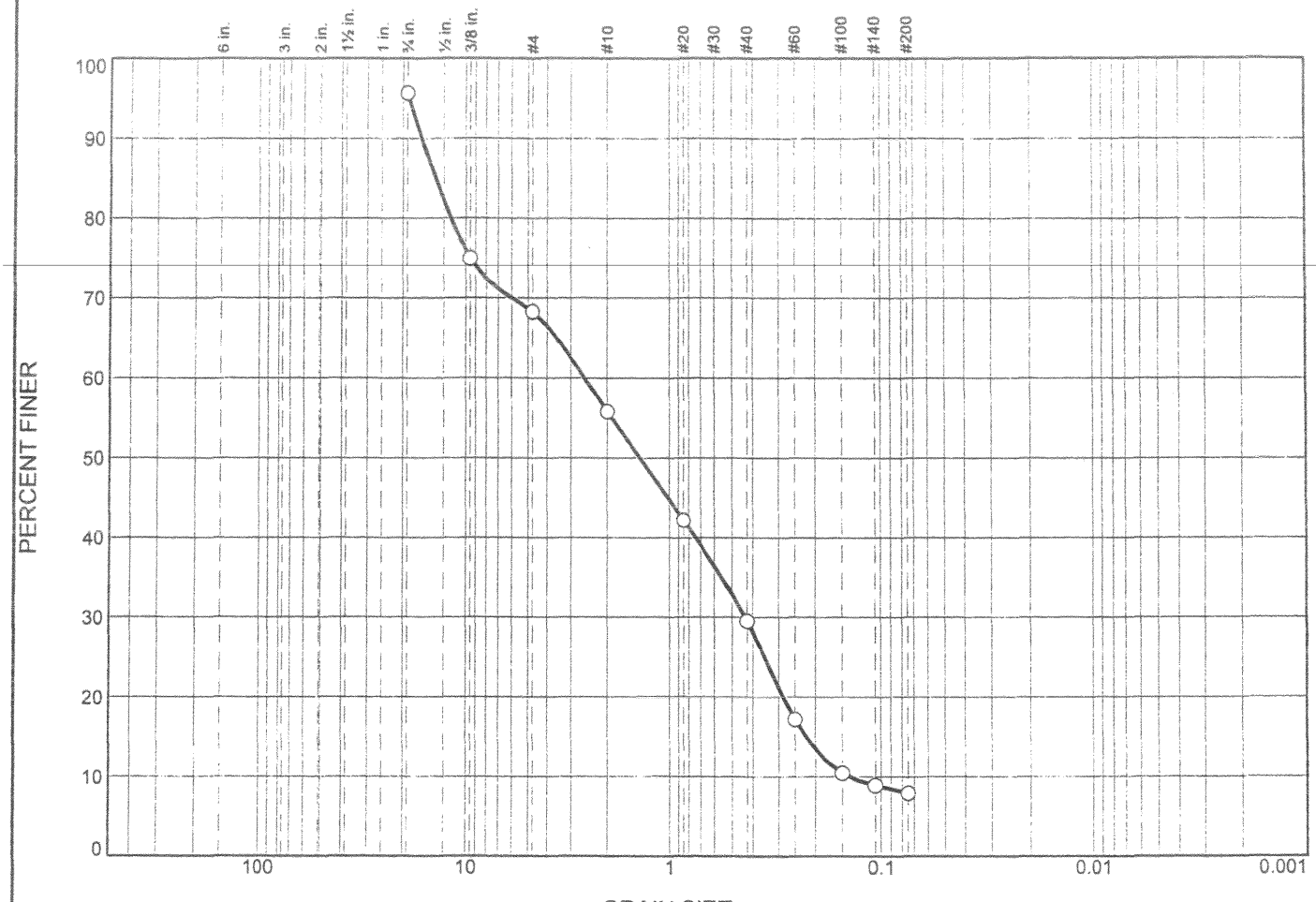
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: L Mazo **Checked By:** M Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○			28	12	27	21	8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			13.9640	2.5708	1.3924	0.4347	0.2217	0.1394	0.53	18.45

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 75' to 80'

Date: ○

Remarks:
○ Moisture Content % 11.6
CP05-EAARS-VB-0283

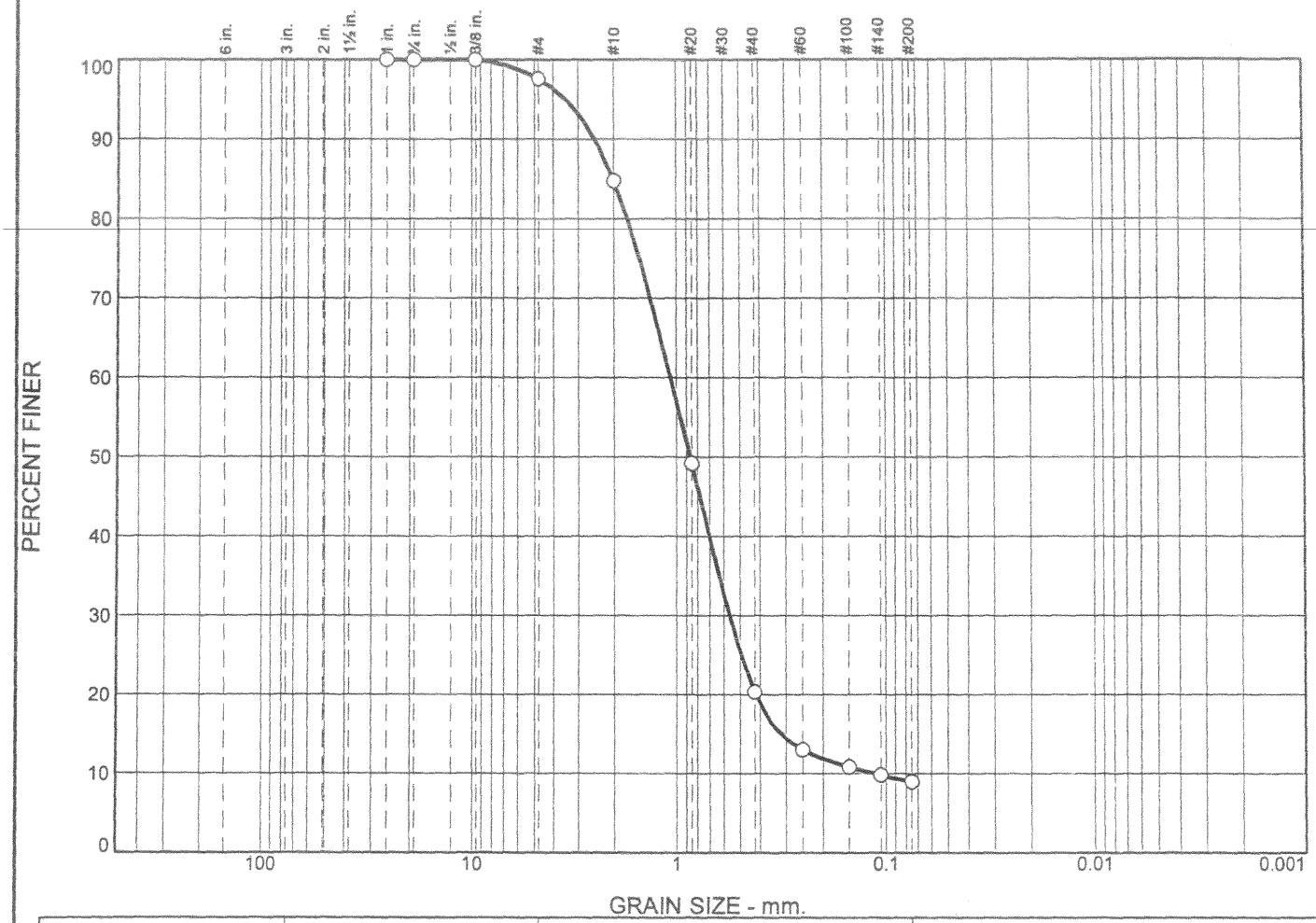
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	2	13	65	11	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.0168	1.0644	0.8638	0.5621	0.3178	0.1144	2.59	9.30

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 100'-105'

Date: ○

Remarks:
○ Moisture Content % 10.6 CP05-EAARS-VB-0283

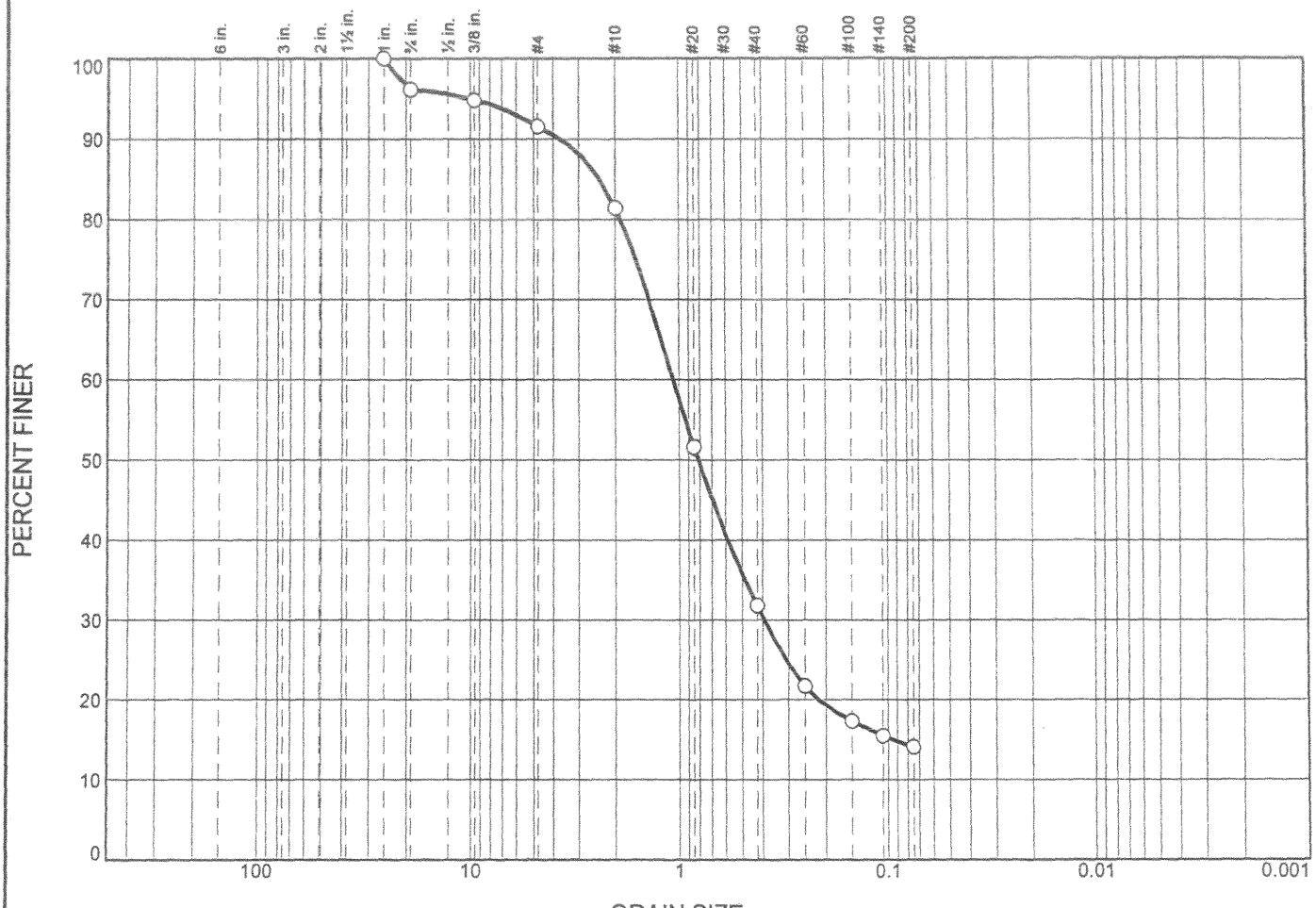
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	4	4	11	49	18	14	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.3691	1.0654	0.8100	0.3921	0.0946			

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 110'-115'

Date: ○

Remarks:
○ Moisture Content % 18.1 CP05-EAARS-VB-0283

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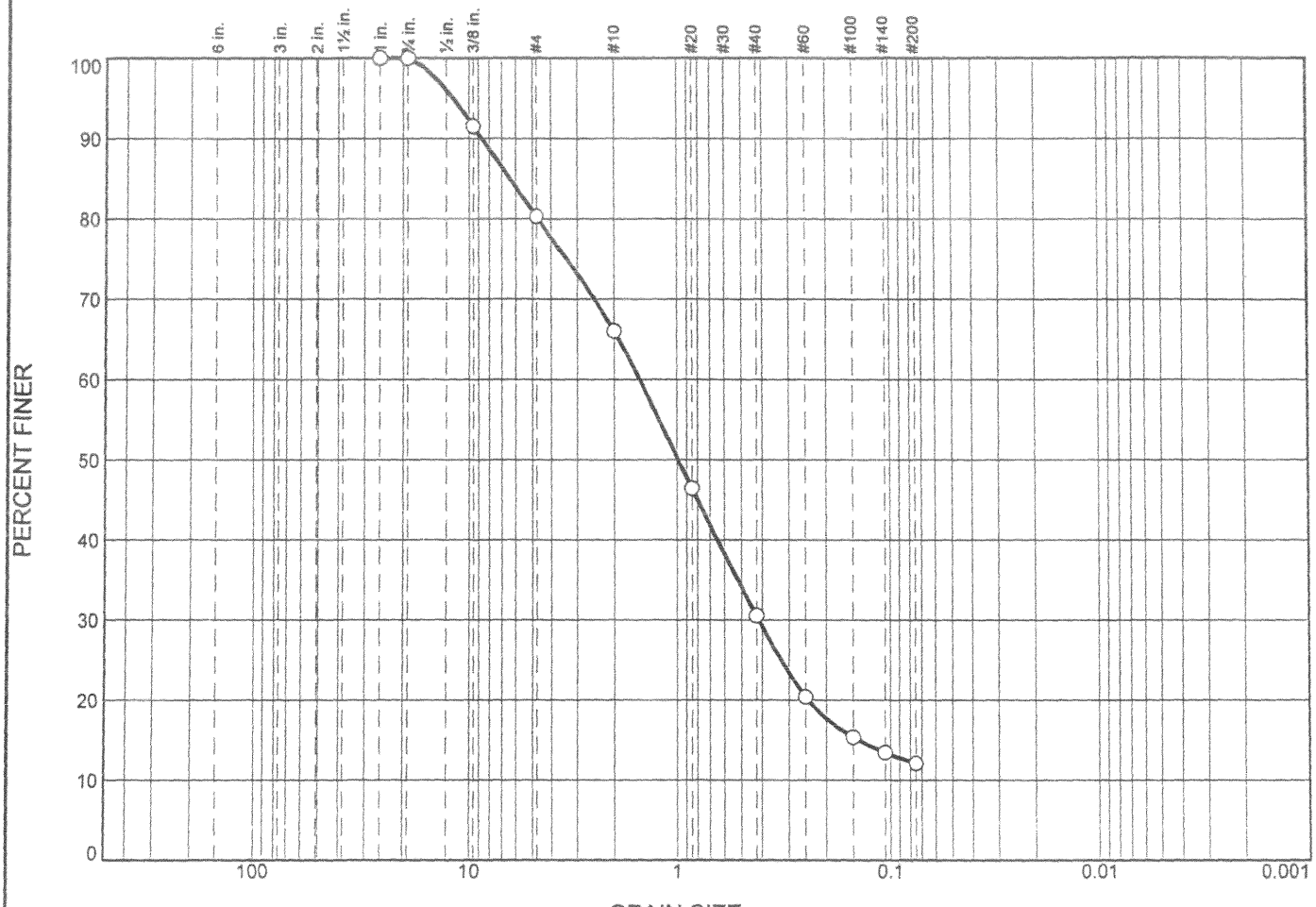
Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	20	14	35	19	12	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			6.3892	1.5030	0.9841	0.4144	0.1415			

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 115'-120'

Date: ○

Remarks:
○ Moisture Content % 16.1 CP05-EAARS-VB-0283

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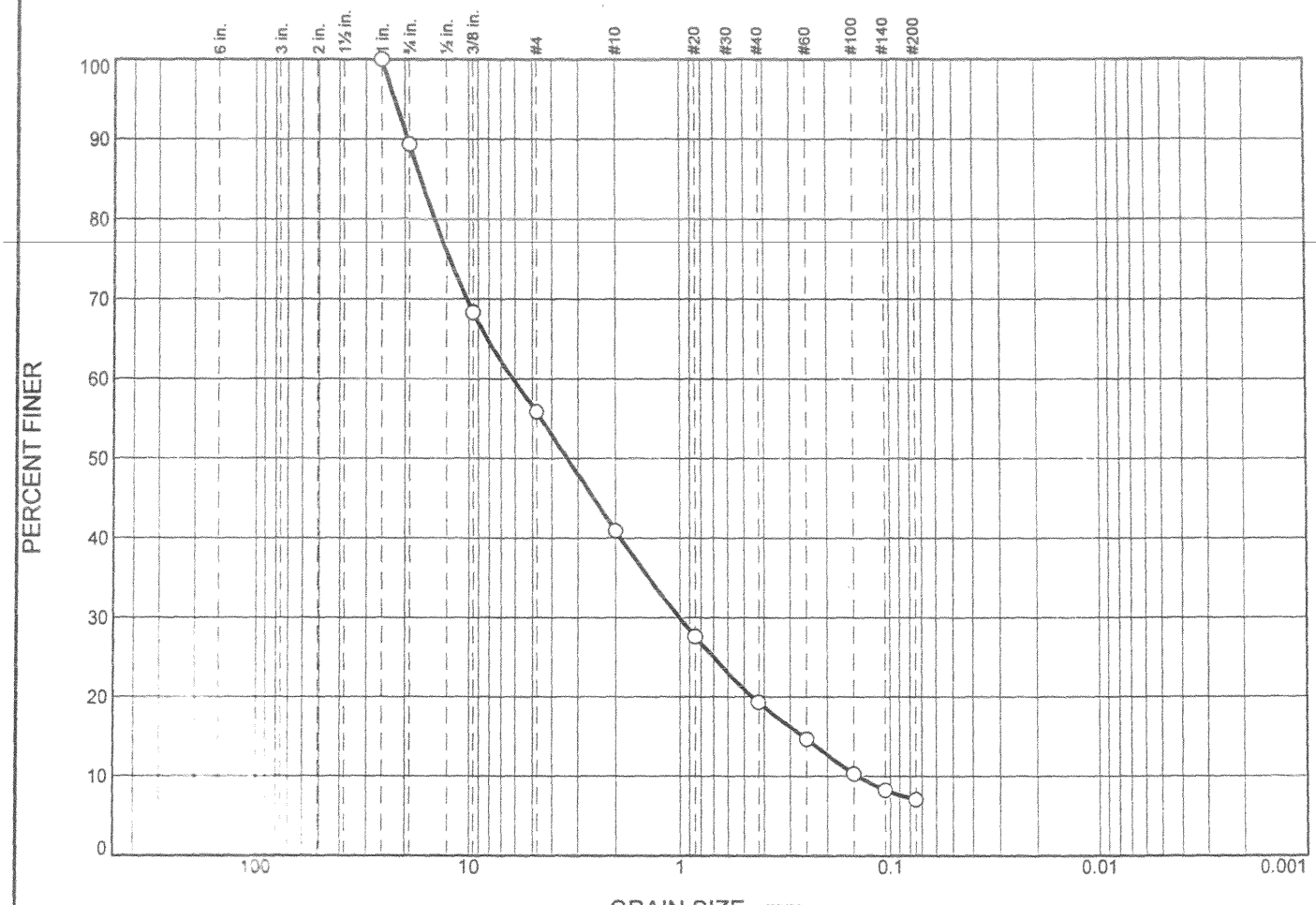
Miami Lakes, FL

Figure

Tested By: Pedro Carraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	11	33	15	22	12	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			16.8310	6.1458	3.3574	1.0027	0.2585	0.1435	1.14	42.82

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 125'-130'

Date: ○

Remarks:
○ Moisture Content % 12.9 CP05-EAARS-VB-0283

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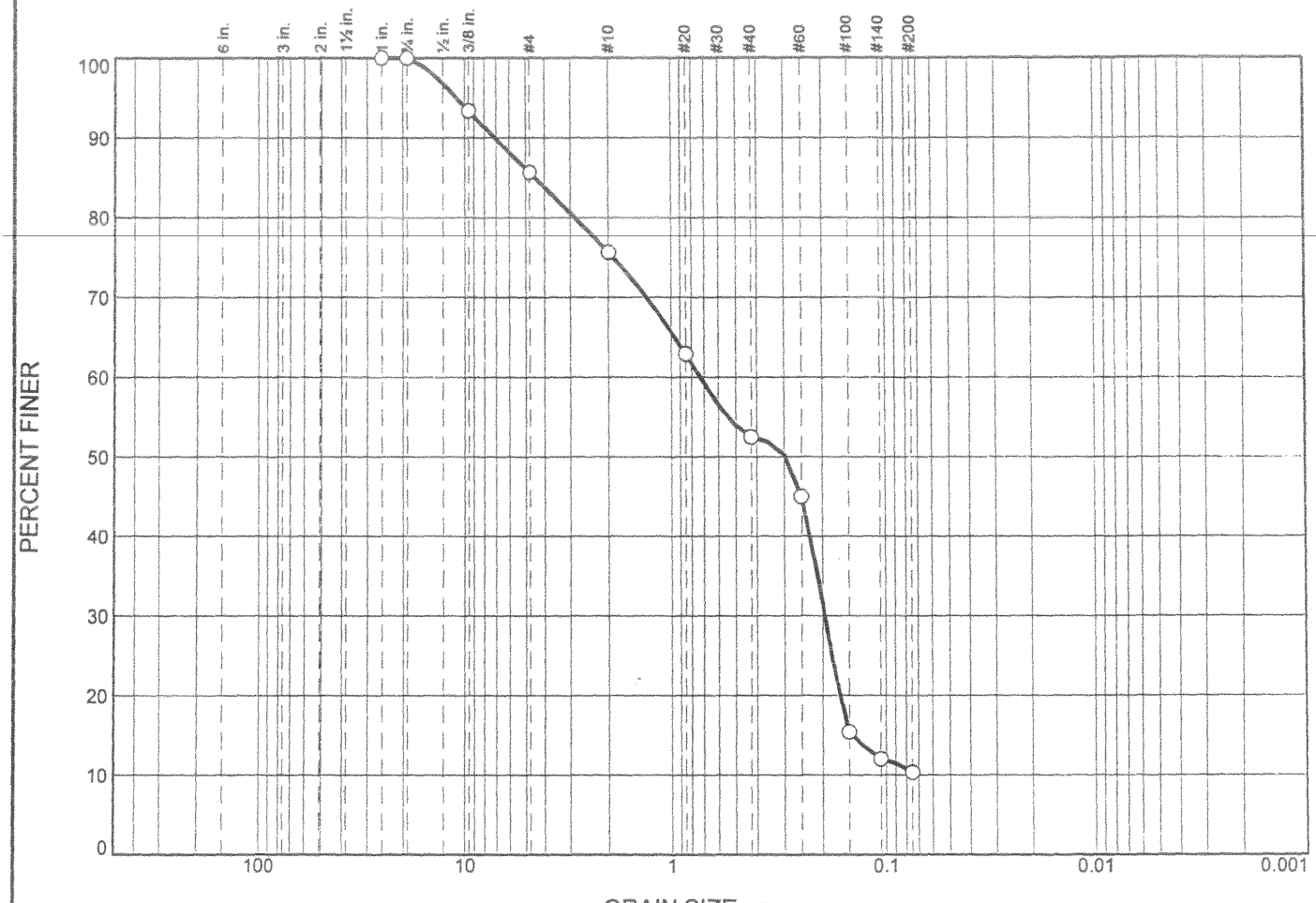
Miami Lakes, FL

Figure

Tested By: Pedro camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	14	10	23	43	10	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.4573	0.7266	0.2944	0.1949	0.1448			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 140'-145'

Date: ○

Remarks:
○ Moisture Content % 18.9 CP05-EAARS-VB-0283

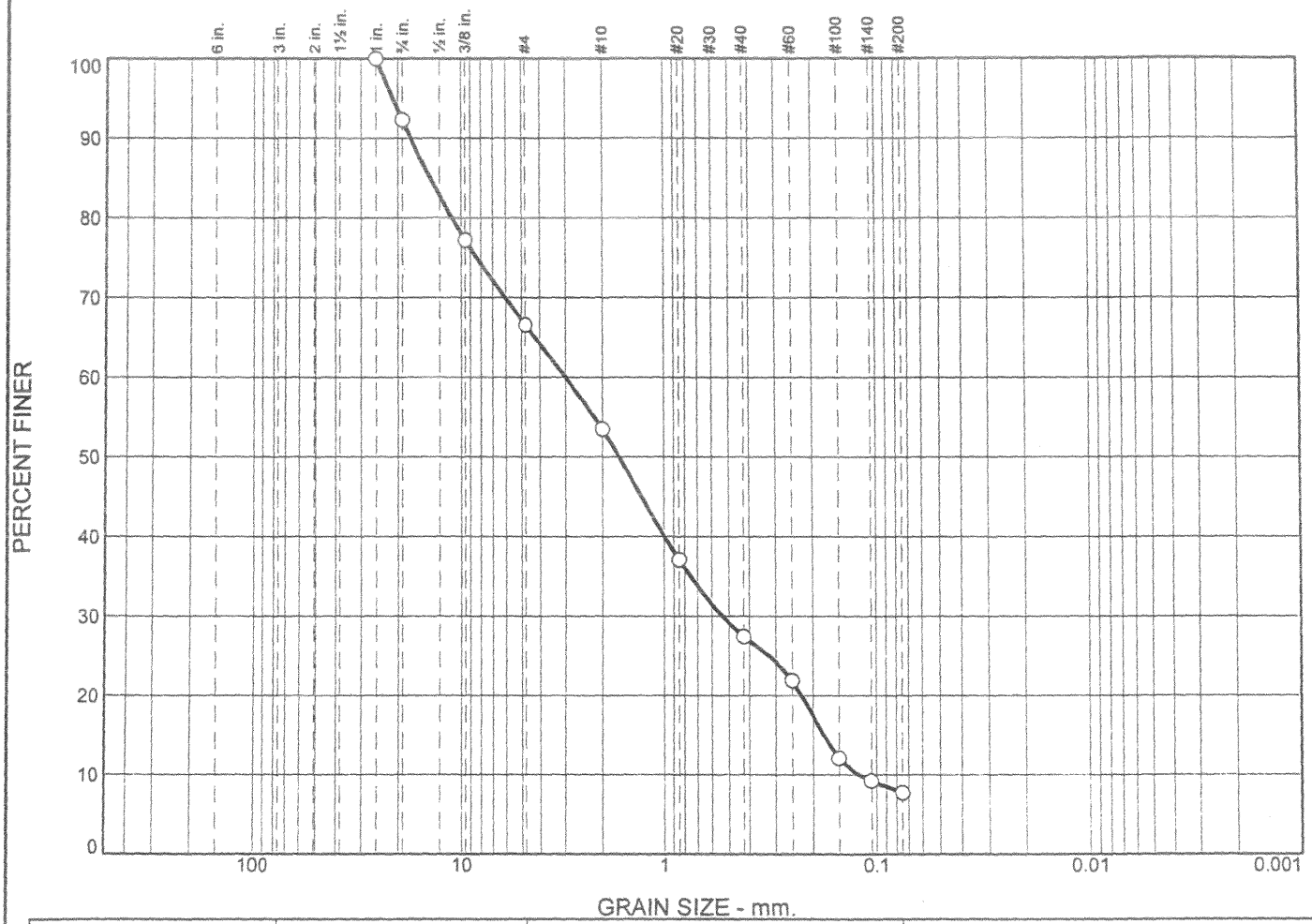
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	8	25	14	26	19	8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			14.0549	2.9872	1.6578	0.5359	0.1771	0.1213	0.79	24.63

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 150'-155'

Date: ○

Remarks:
○ Moisture Content % 12.9 CP05-EAARS-VB-0283

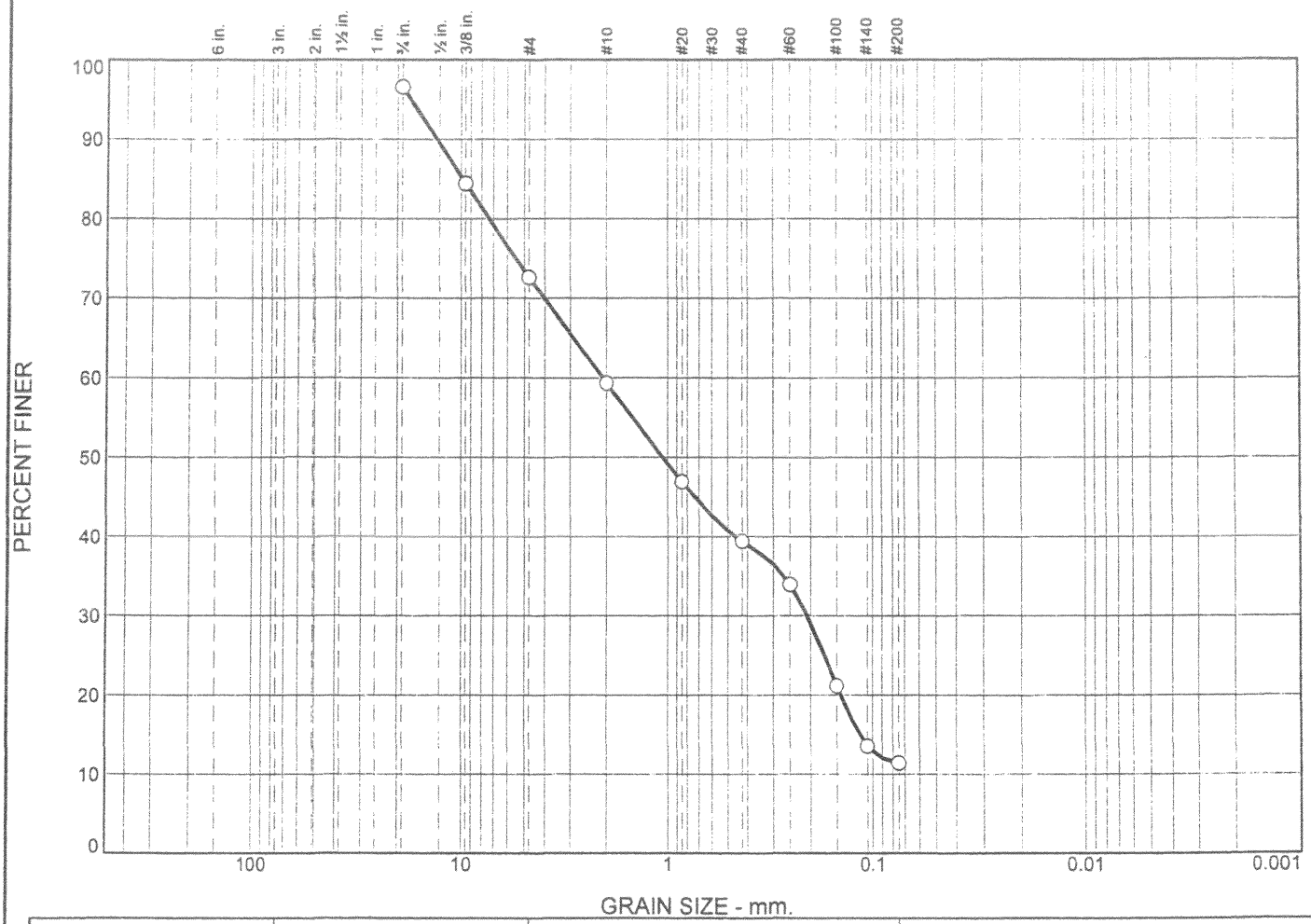
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○			24	14	20	28	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			9.8196	2.0871	1.0603	0.2081	0.1157			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 155' to 160'

Date: ○

Remarks:
○ Moisture Content % 15.1
CP05-EAARS-VB-0283

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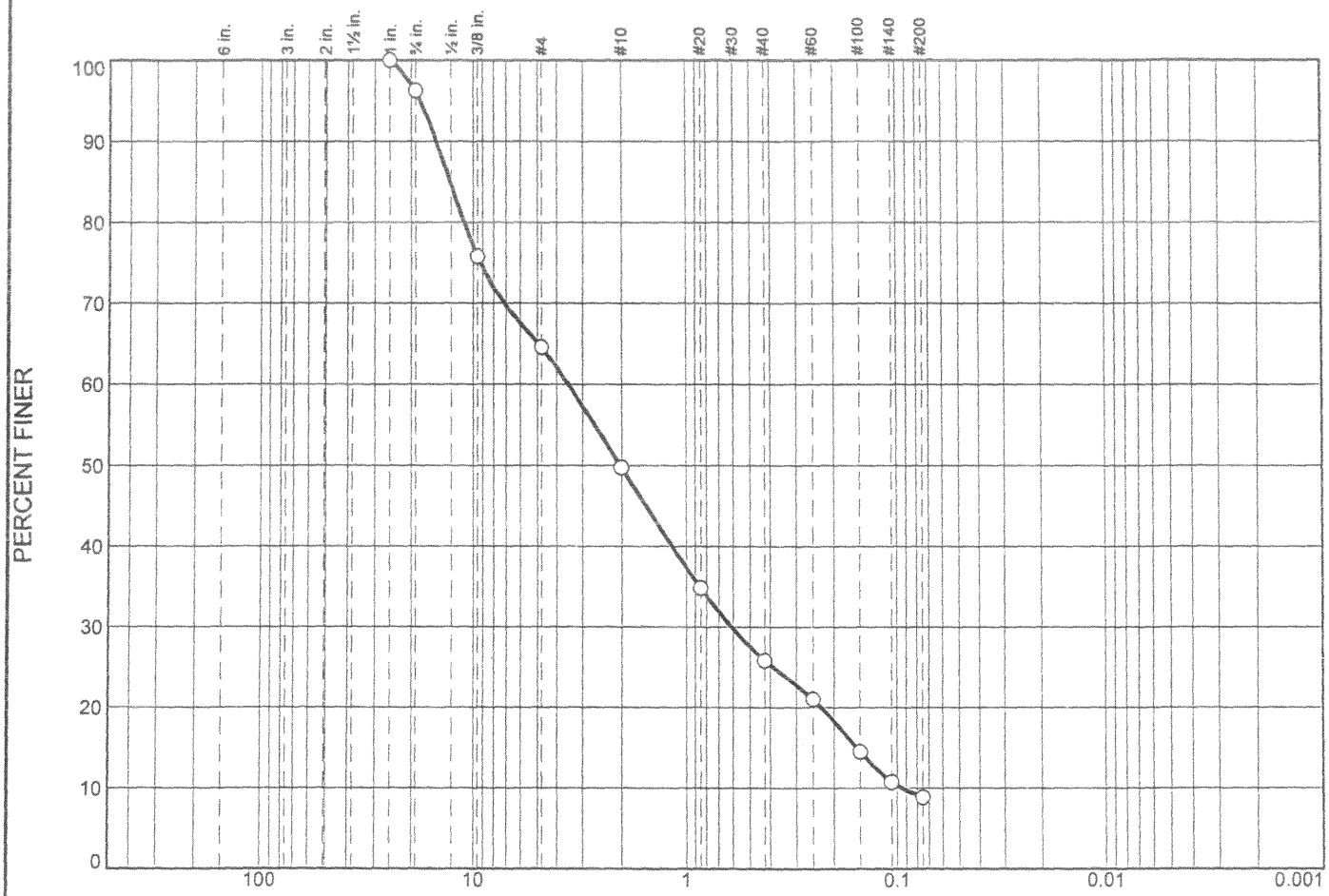
Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	4	31	15	24	17	9	

☒	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			12.8381	3.5135	2.0262	0.6095	0.1557	0.0949	1.11	37.04

Material Description	USCS	AASHTO
○ Well graded sand with silt and gravel	SW-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 160'-165'

Date: ○

Remarks:
○ Moisture Content % 14.3 CP05-EAARS-VB-0283

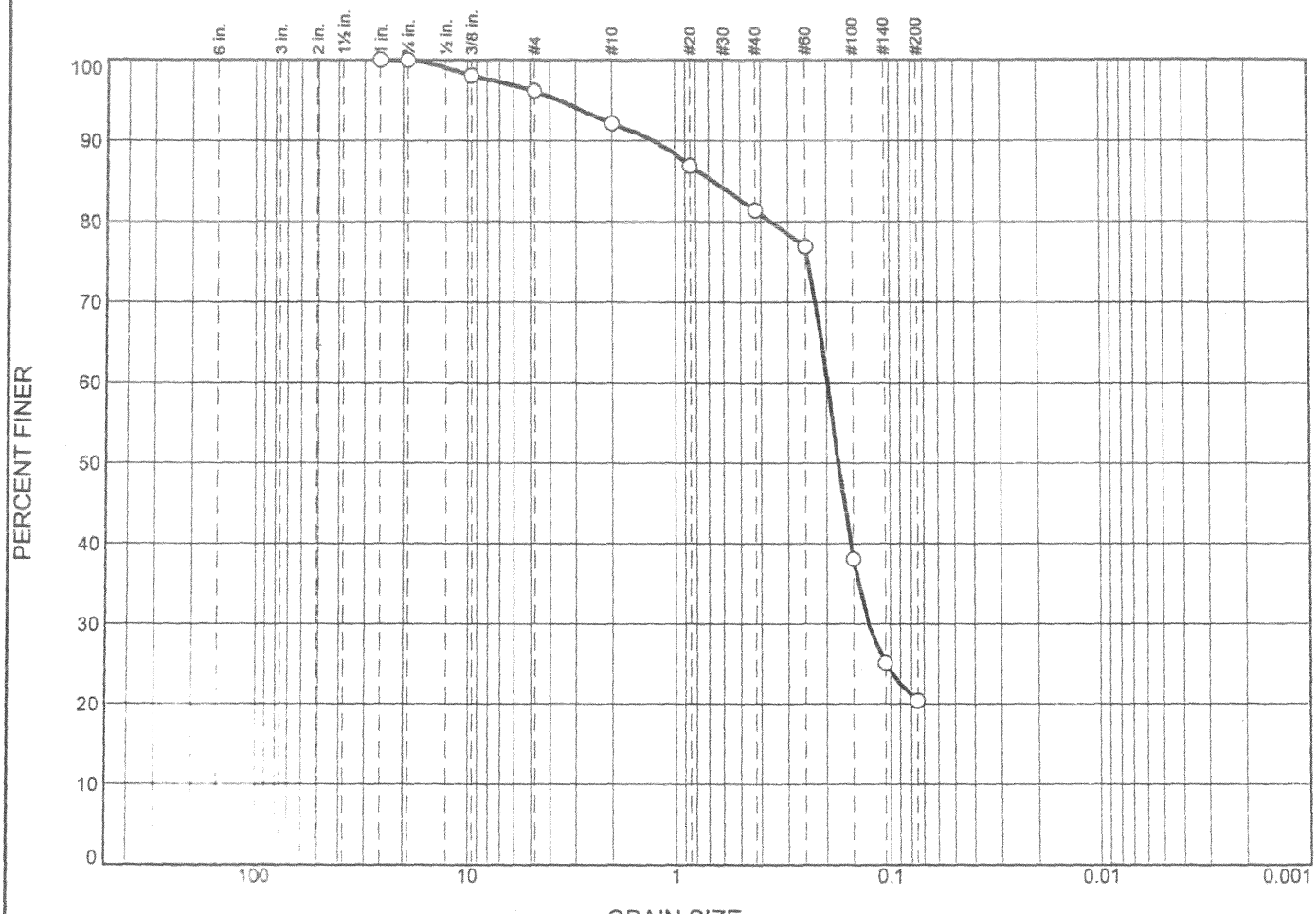
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	4	4	11	61	20	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.6669	0.1972	0.1755	0.1272				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 165'-170'

Date: ○

Remarks:
○ Moisture Content % 20.3 CP05-EAARS-VB-0283

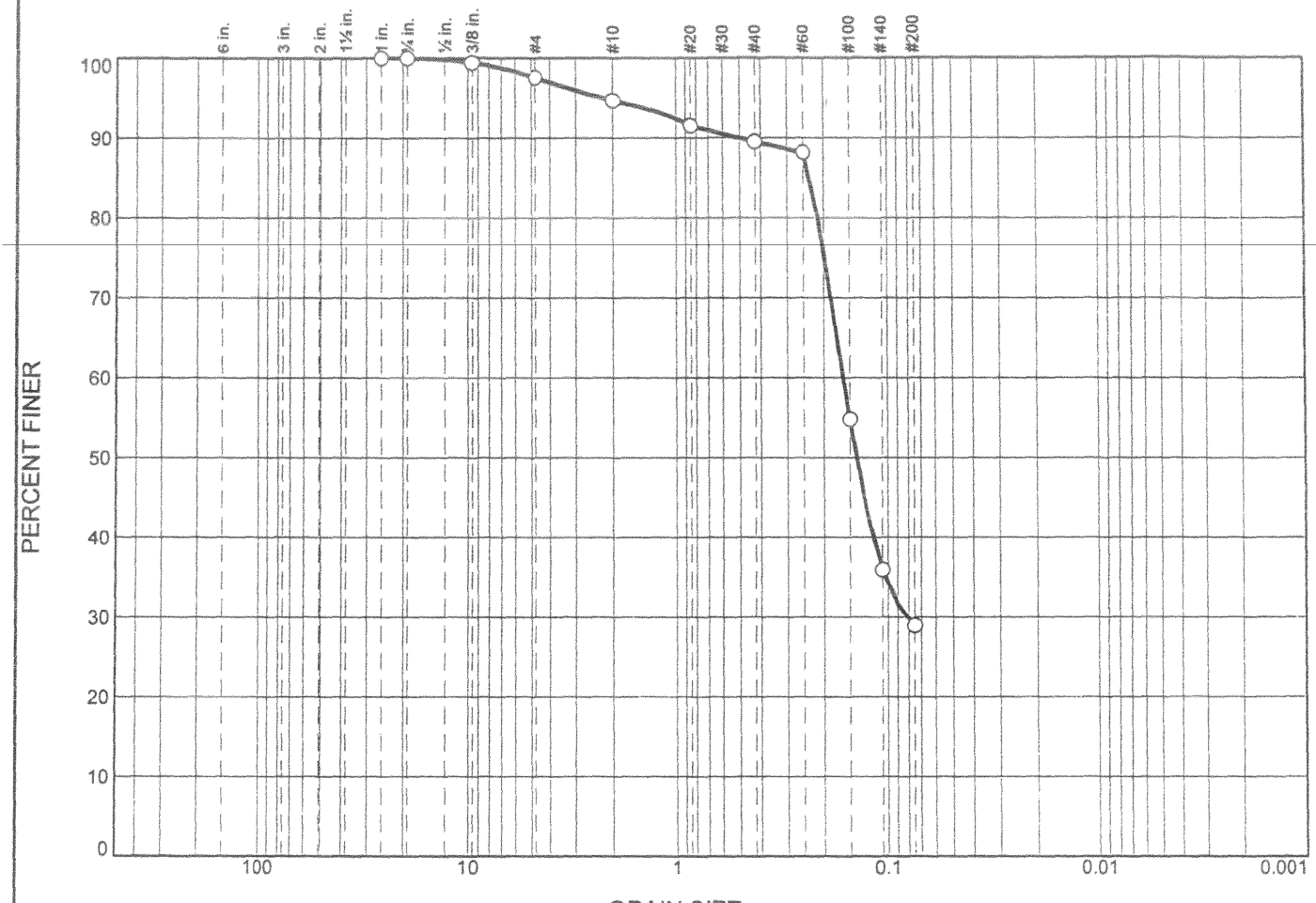
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Carlos Zaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	2	3	5	61	29	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2321	0.1611	0.1397	0.0812				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 180'-185'

Date: ○

Remarks:
○ Moisture Content % 19.7 CP05-EAARS-VB-0283

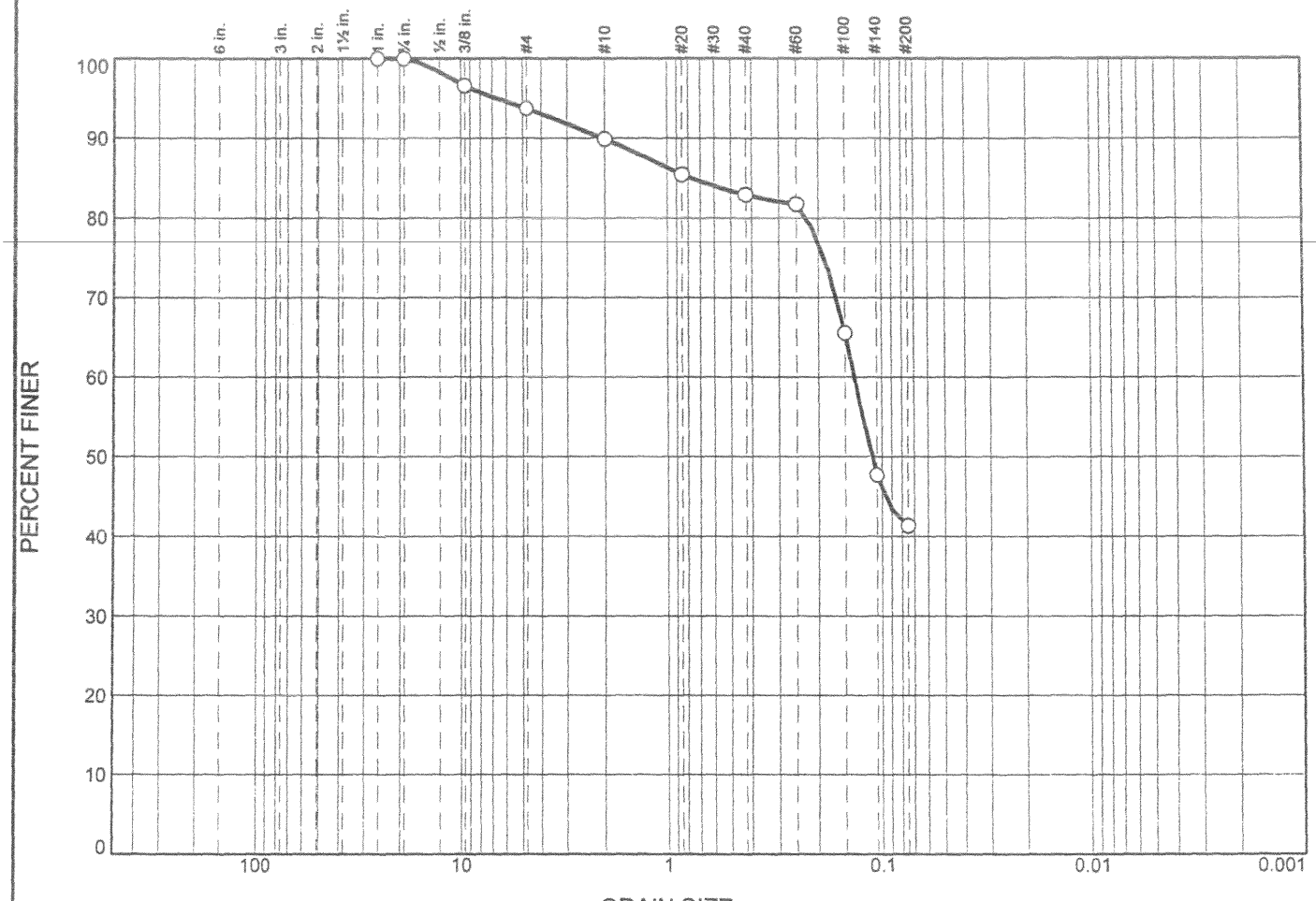
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	6	4	7	42	41	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.7647	0.1355	0.1120					

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 185'-190'

Date: ○

Remarks:
○ Moisture Content % 20.4 CP05-EAARS-VB-0283

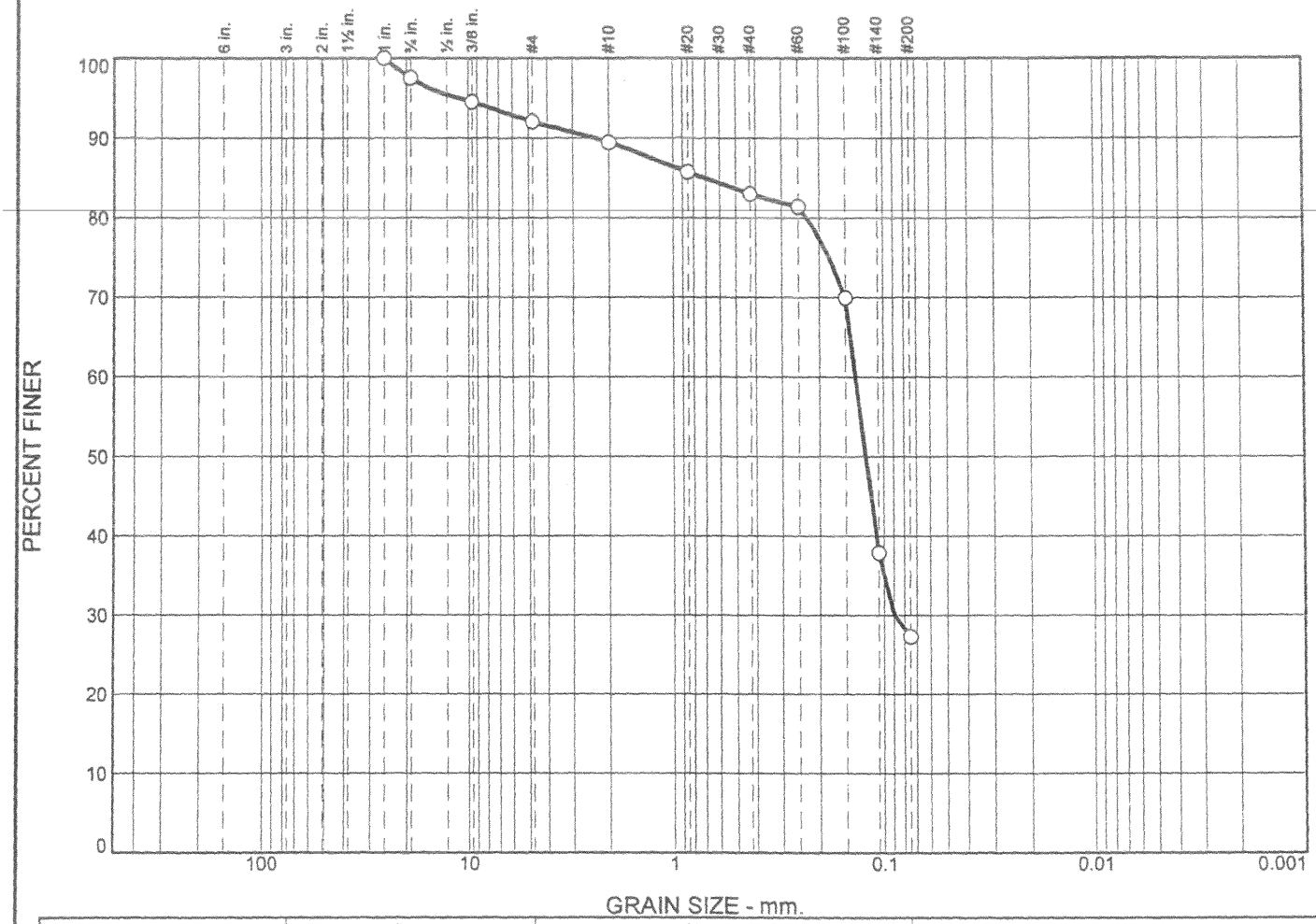
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	2	6	3	6	56	27	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.7053	0.1341	0.1215	0.0892				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 195'-200'

Date: ○

Remarks:
○ Moisture Content % 16.8 CP05-EAARS-VB-0283

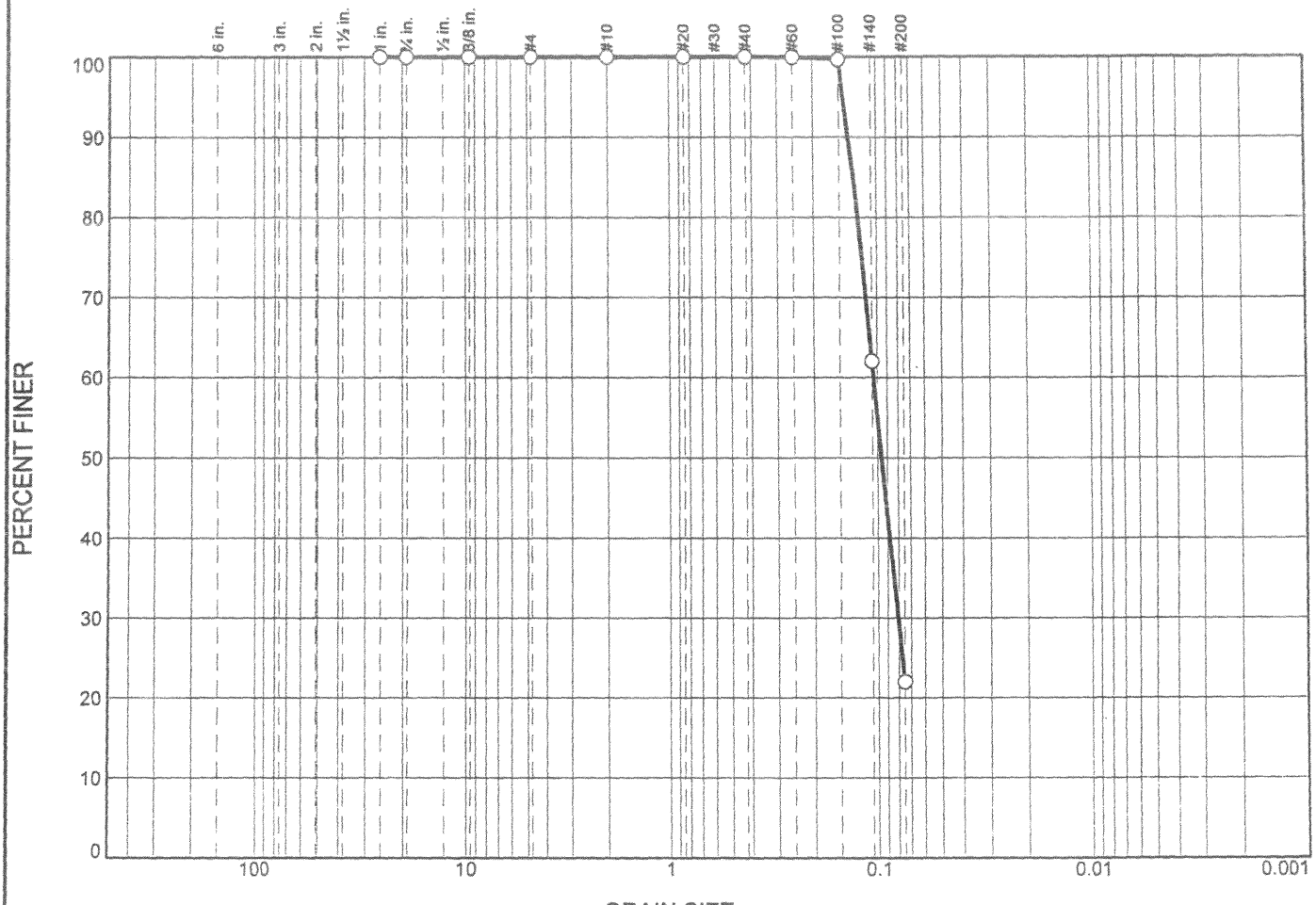
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	0	0	78	22	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.1278	0.1043	0.0960	0.0806				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 200'-205'

Date: ○

Remarks:
○ Moisture Content % 24.8 CP05-EAARS-VB-0283

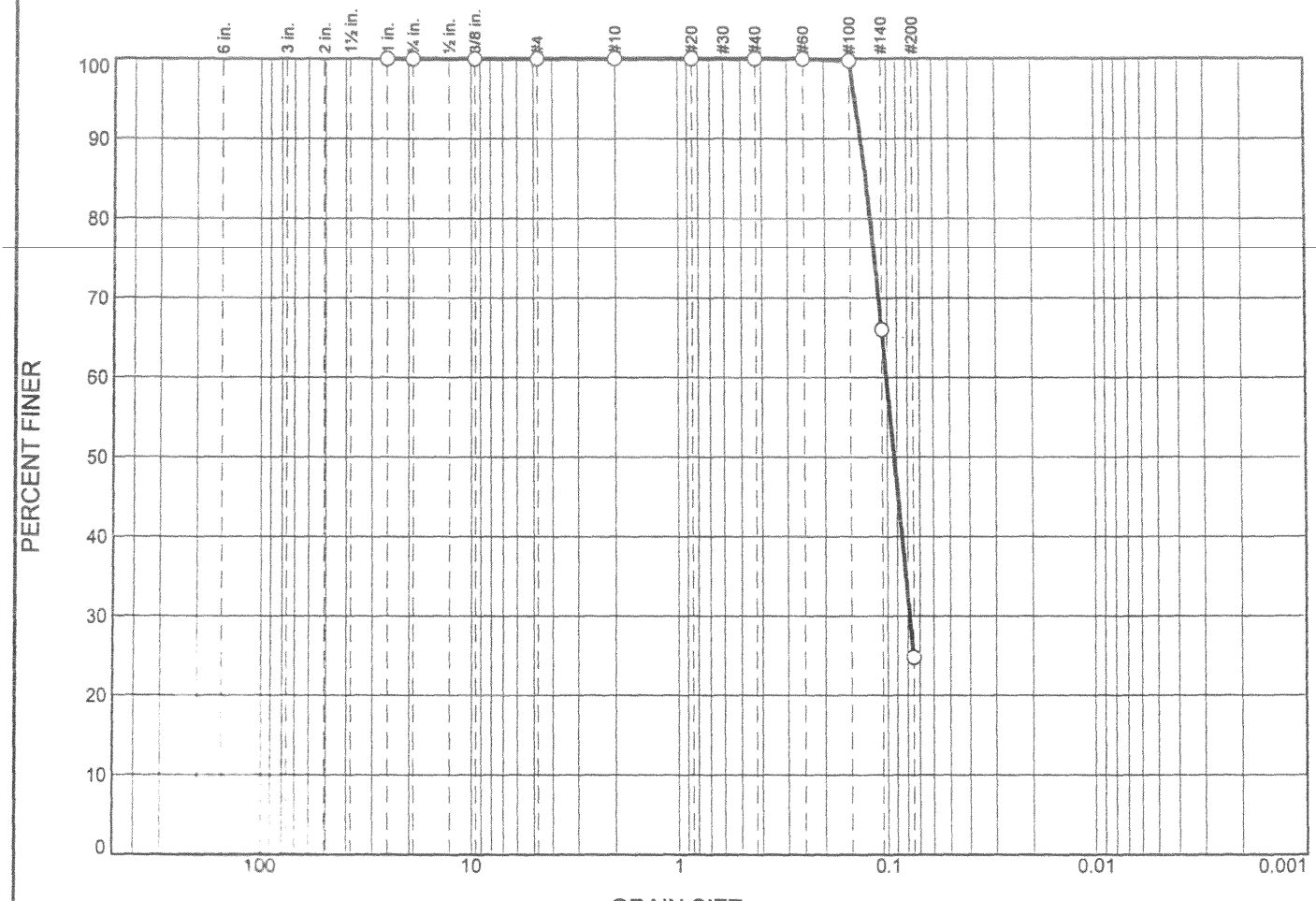
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Zamaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	0	0	75	25	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.1253	0.1007	0.0926	0.0783				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0174 **Depth:** 205'-210'

Date: ○

Remarks:
○ Moisture Content % 25.7 CP05-EAARS-VB-0283

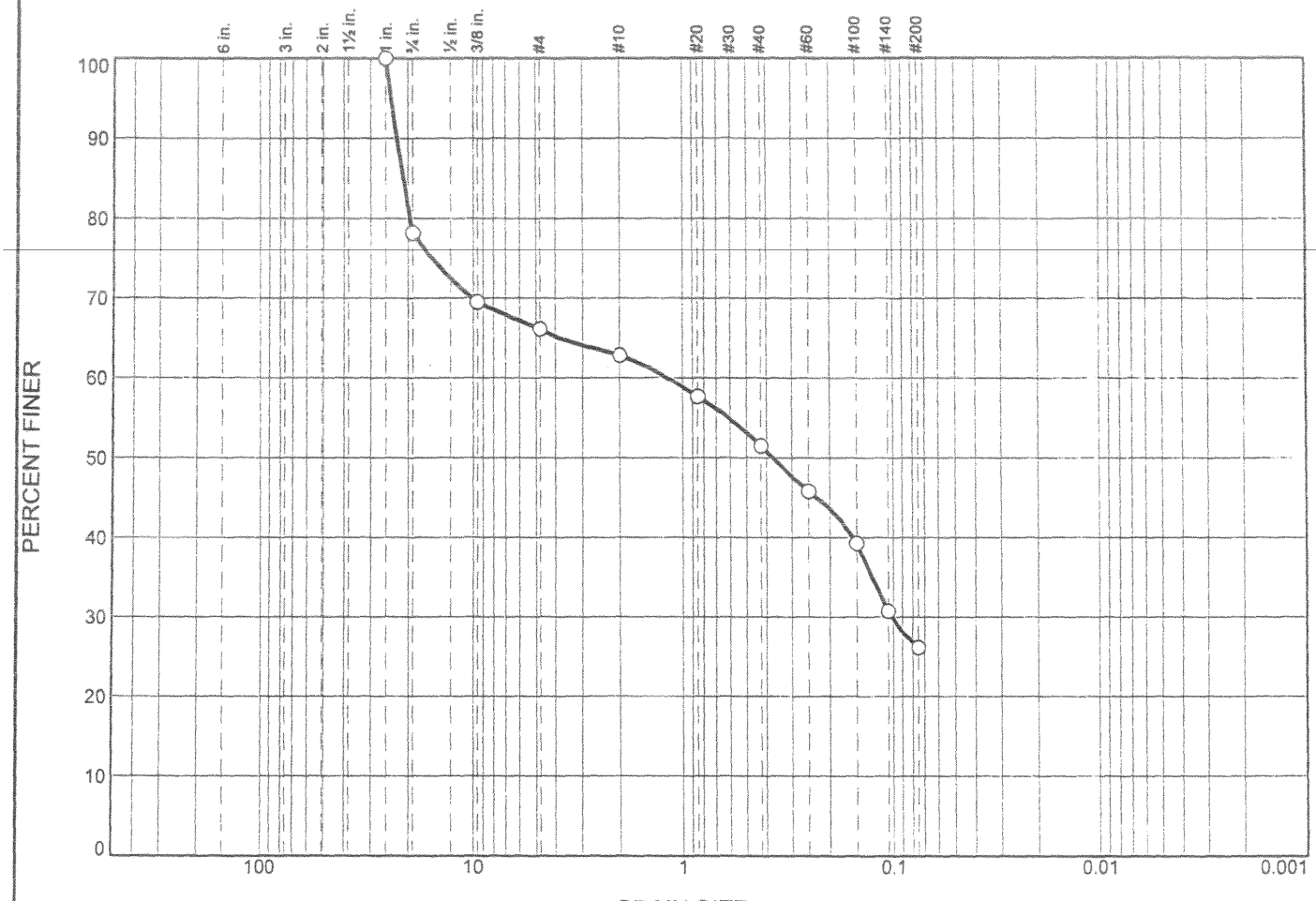
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	22	12	3	11	26	26	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			21.1419	1.1763	0.3693	0.1020				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 10' to 15'

Date: ○

Remarks:
○ Moisture Content % 18.3 CP05-EAARS-VB-0284

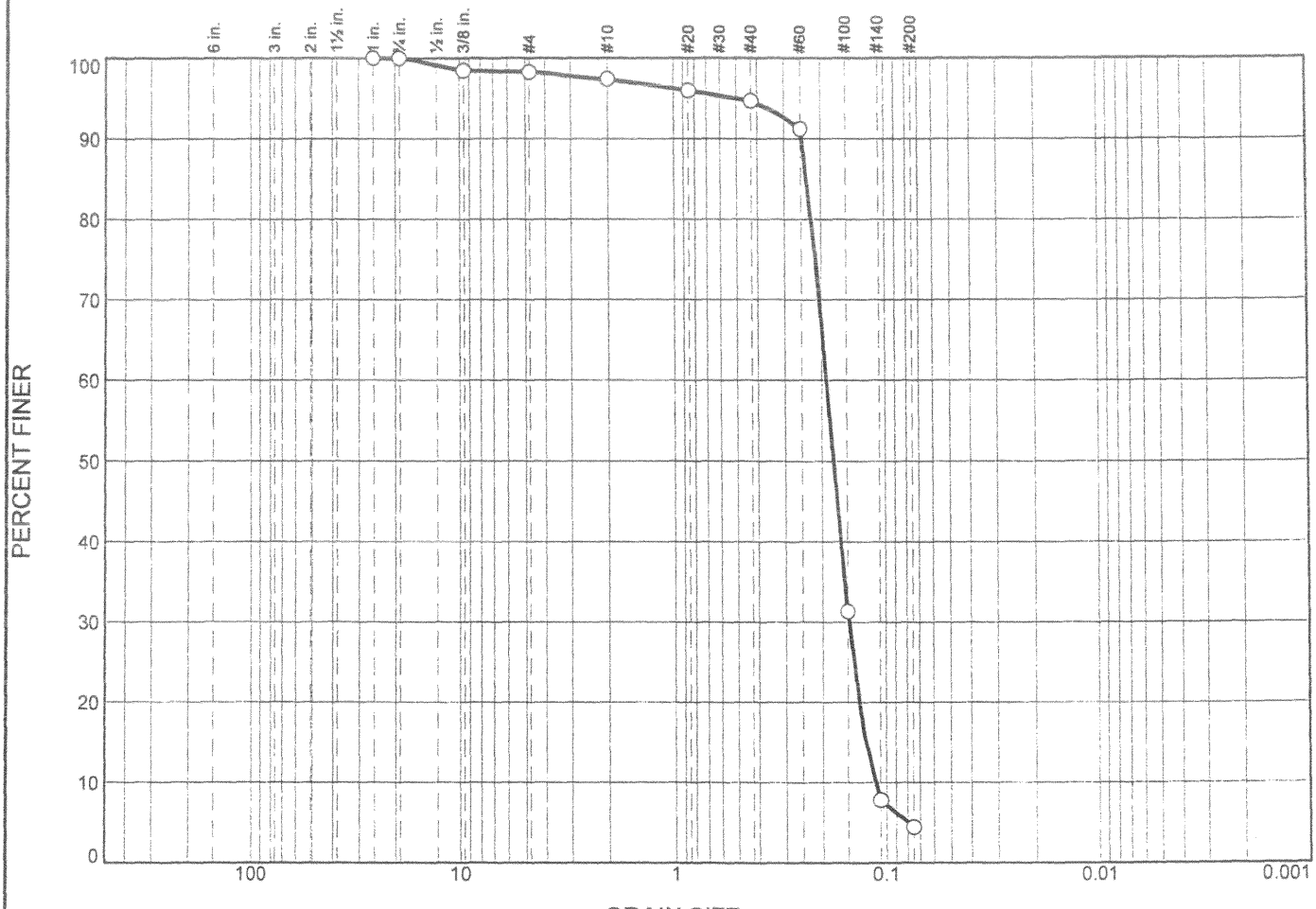
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	2	1	2	91	4	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2321	0.1883	0.1746	0.1481	0.1237	0.1125	1.04	1.67

Material Description	USCS	AASHTO
○ Poorly graded sand	SP	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 20' to 25'

Date: ○

Remarks:
○ Moisture Content % 25.9 CP05-EAARS-VB-0284

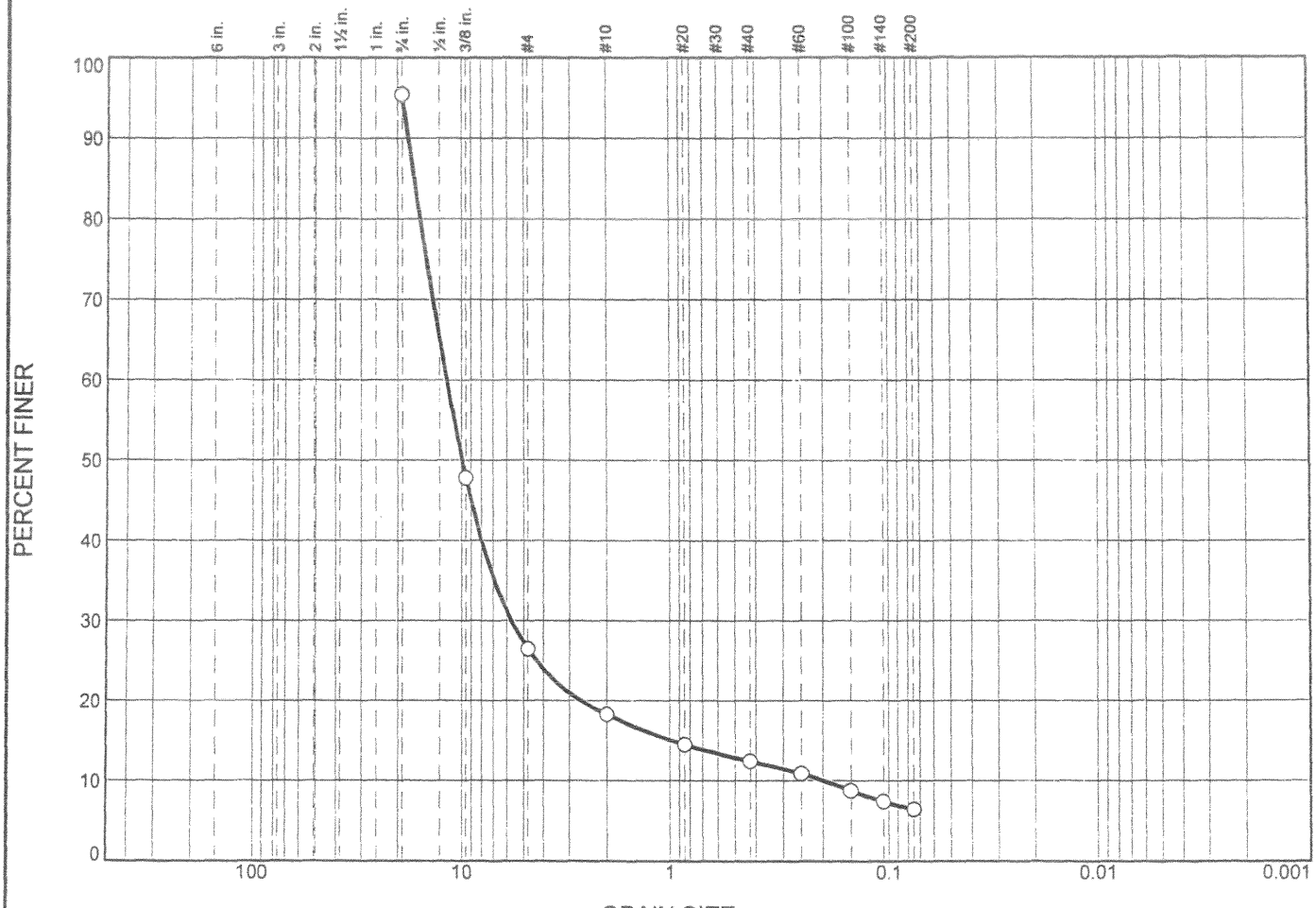
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○			69	8	6	6	6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			16.6441	11.7433	9.9304	5.7187	0.9693	0.1985	14.03	59.17

Material Description	USCS	AASHTO
○ Poorly graded gravel with silt and sand	GP-GM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 45' to 50'

Date: ○

Remarks:
○ Moisture Content CP05-EAARS-VB-0284

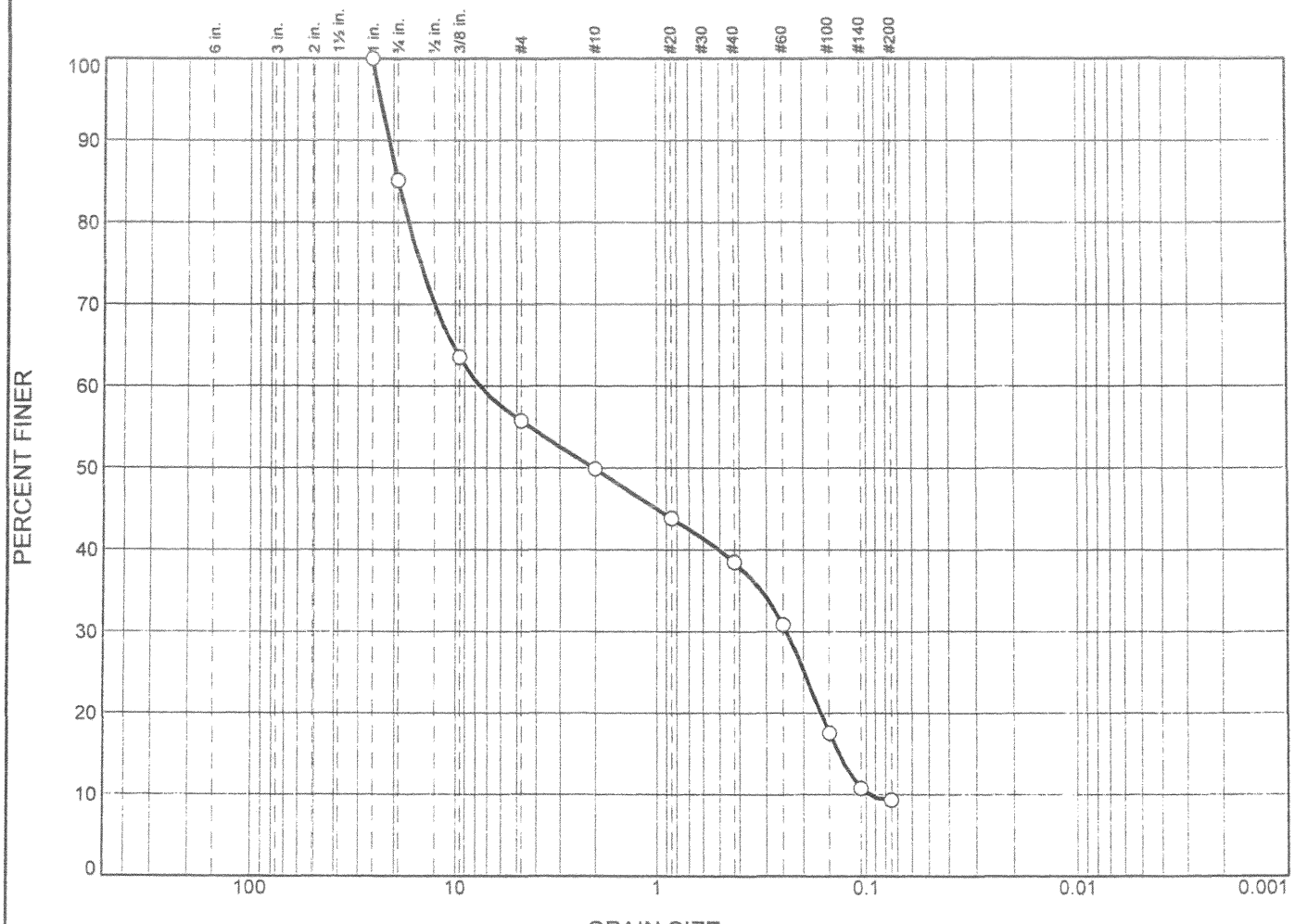
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	15	29	6	11	30	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			18.9898	7.5526	2.0365	0.2402	0.1348	0.0972	0.08	77.72

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 55' to 60'

Date: ○

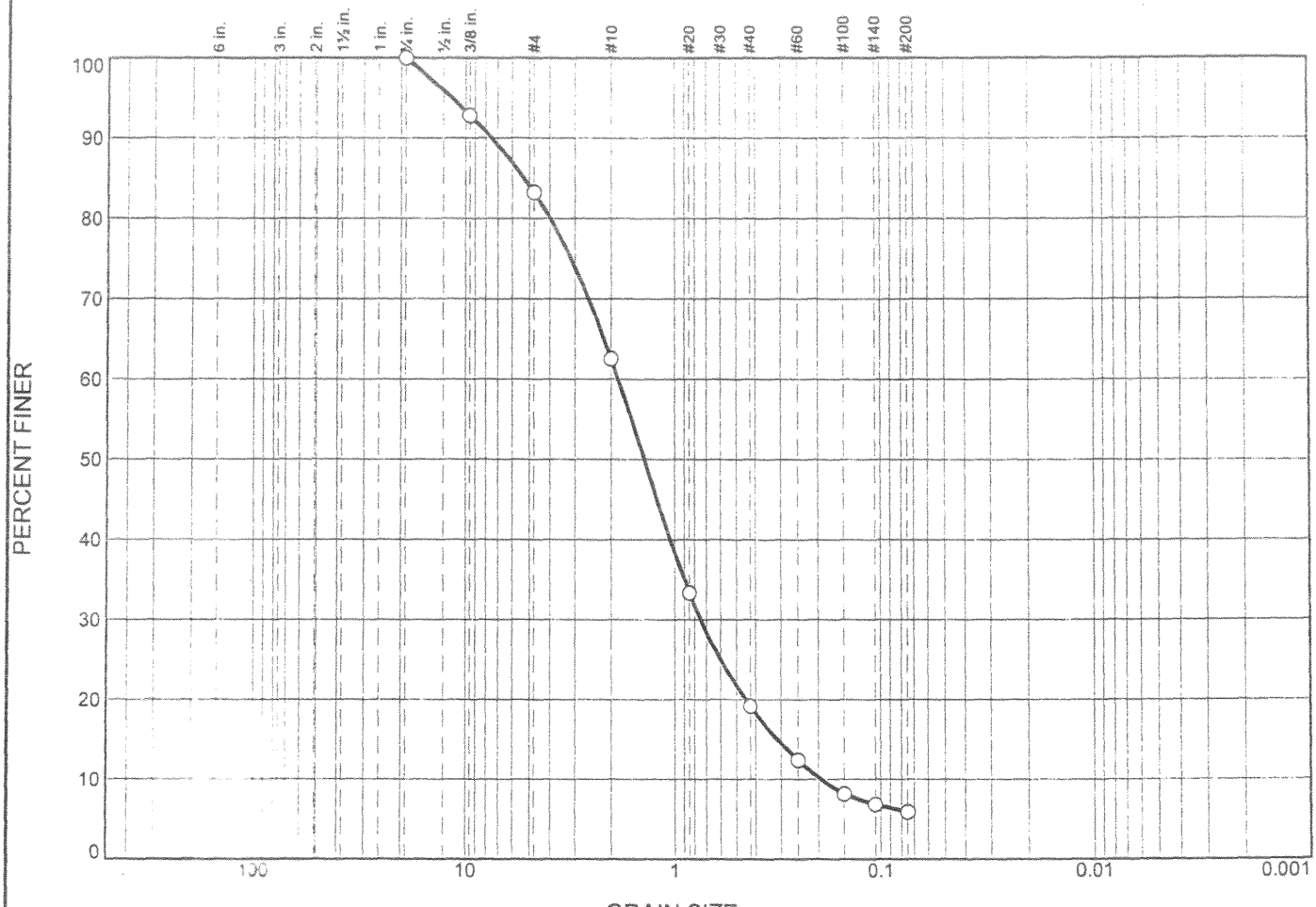
Remarks:
○ Moisture Content % 16.2 CP05-EAARS-VB-0284

Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	17	20	44	13	6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			5.2877	1.8502	1.3945	0.7504	0.3130	0.1950	1.56	9.49

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 75' to 80'

Date: ○

Remarks:
○ Moisture Content % 11.1
CP05-EAARS-VB-0284

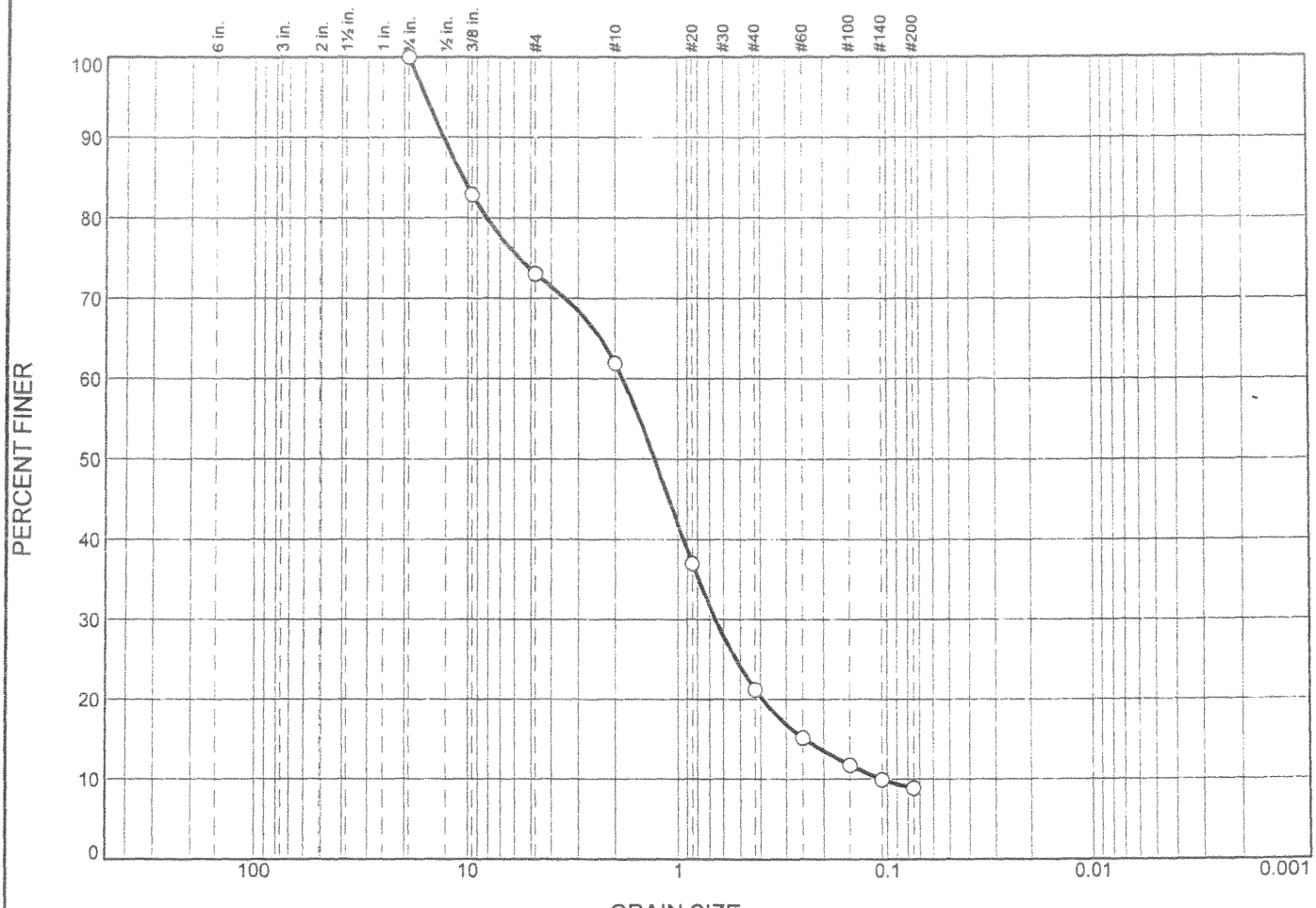
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	27	11	41	12	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			10.5341	1.8396	1.2933	0.6557	0.2449	0.1083	2.16	16.98

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 110' to 115'

Date: ○

Remarks:
○ Moisture Content % 16.1
CP05-EAARS-VB-0284

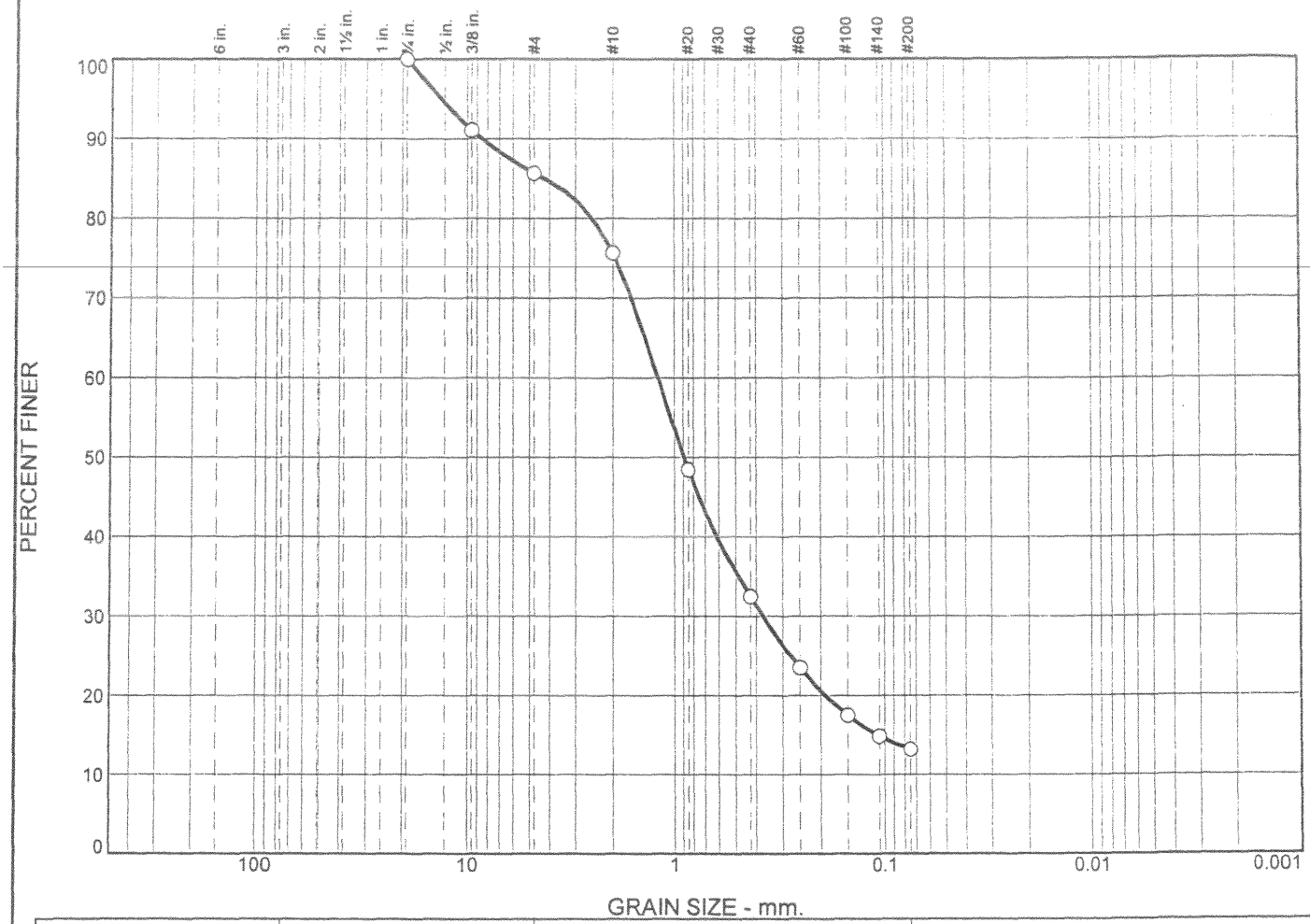
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	14	10	44	19	13	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			4.2449	1.2042	0.8939	0.3714	0.1087			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 115' to 120'

Date: ○

Remarks:
○ Moisture Content % 15.8
CP05-EAARS-VB-0284

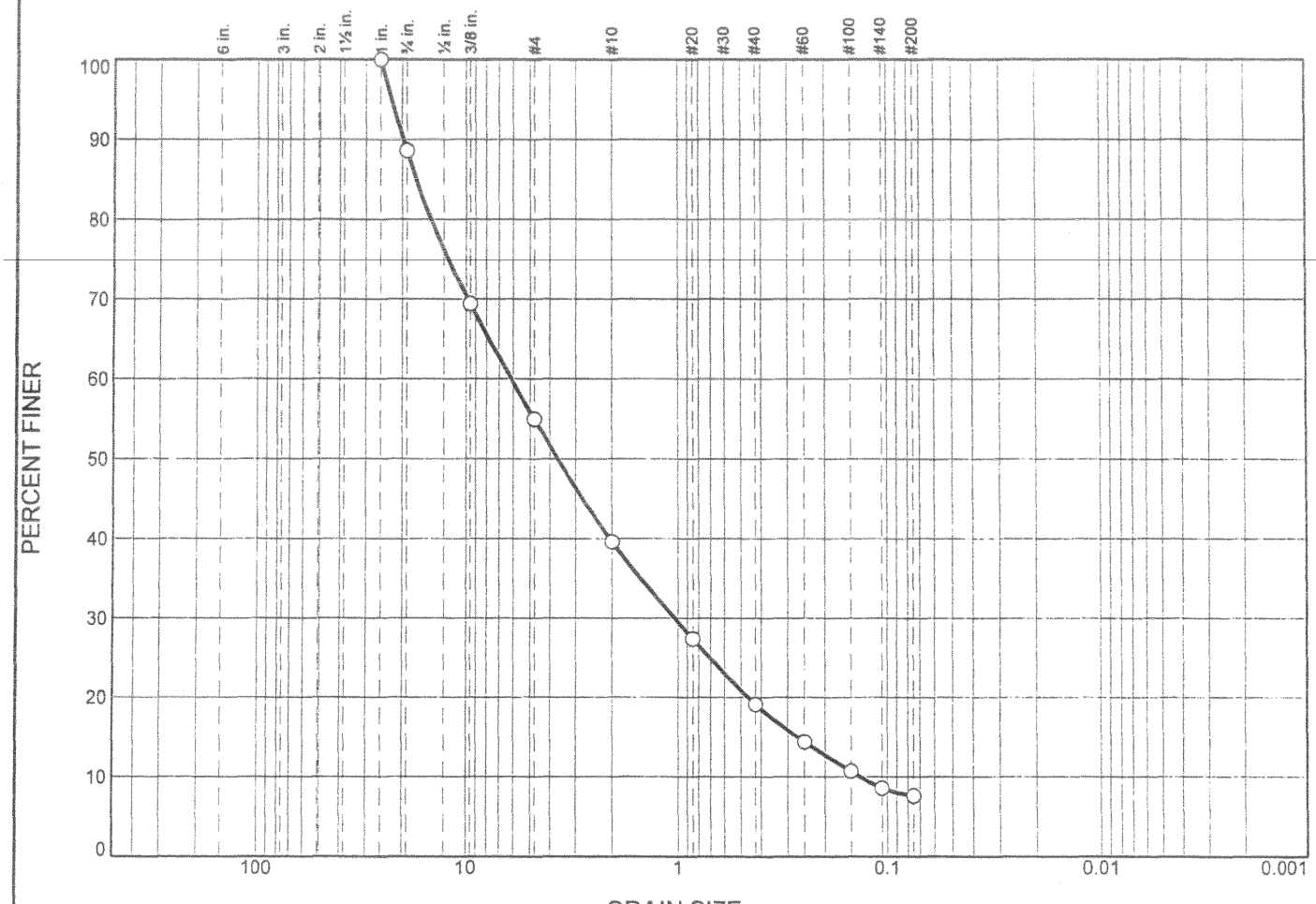
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	11	34	15	21	11	8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			17.1668	6.1287	3.6565	1.0348	0.2701	0.1350	1.29	45.40

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)

○ **Source of Sample:** CB-0182 **Depth:** 125' to 130'

Date: ○

Remarks:

○ Moisture Content % 9.5 CP05-EAARS-VB-0284

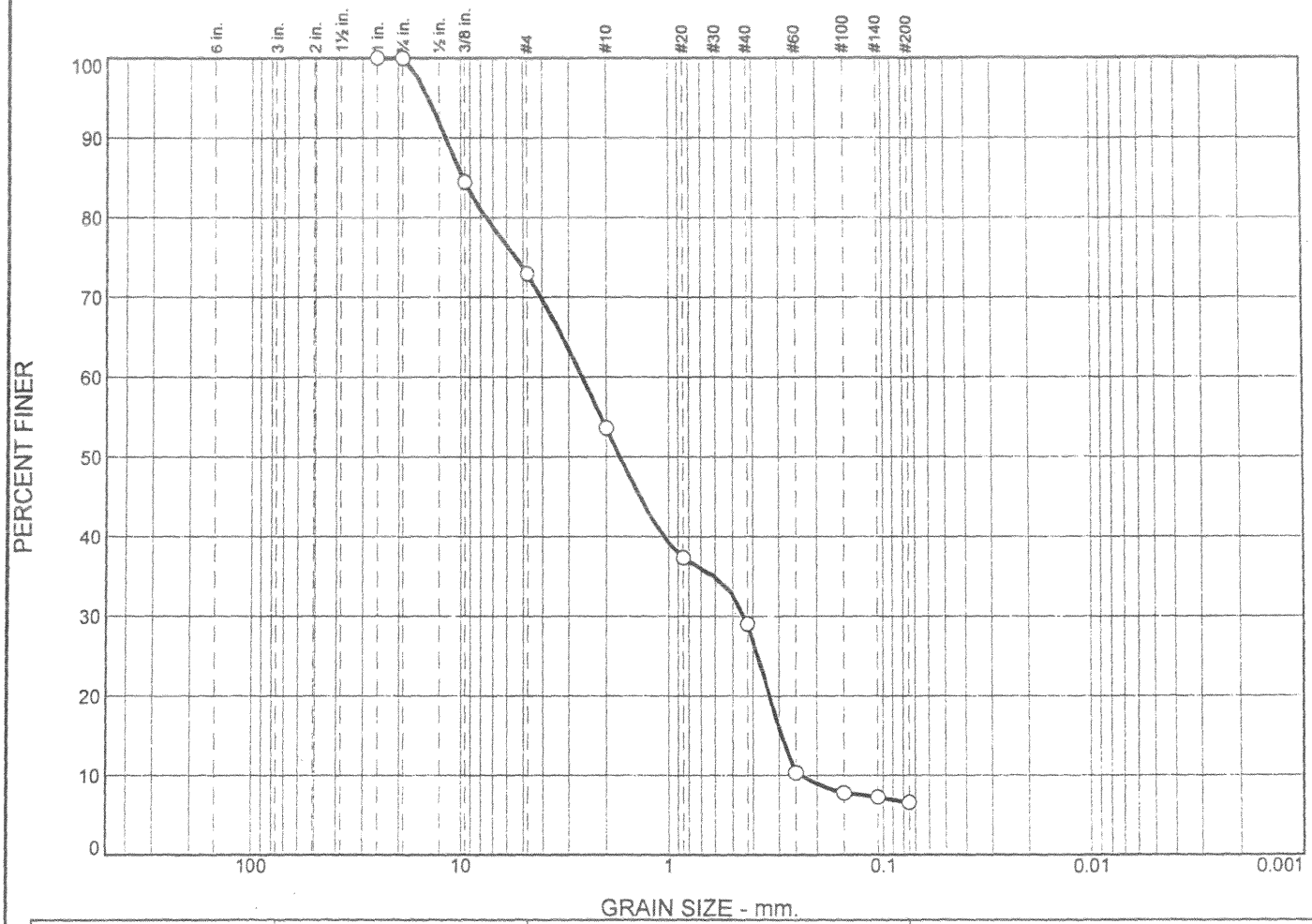
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	27	19	25	22	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			9.7354	2.5953	1.7240	0.4399	0.2916	0.2374	0.31	10.93

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 140' to 145'

Date: ○

Remarks:
○ Moisture Content % 9.0 CP05-EAARS-VB-0284

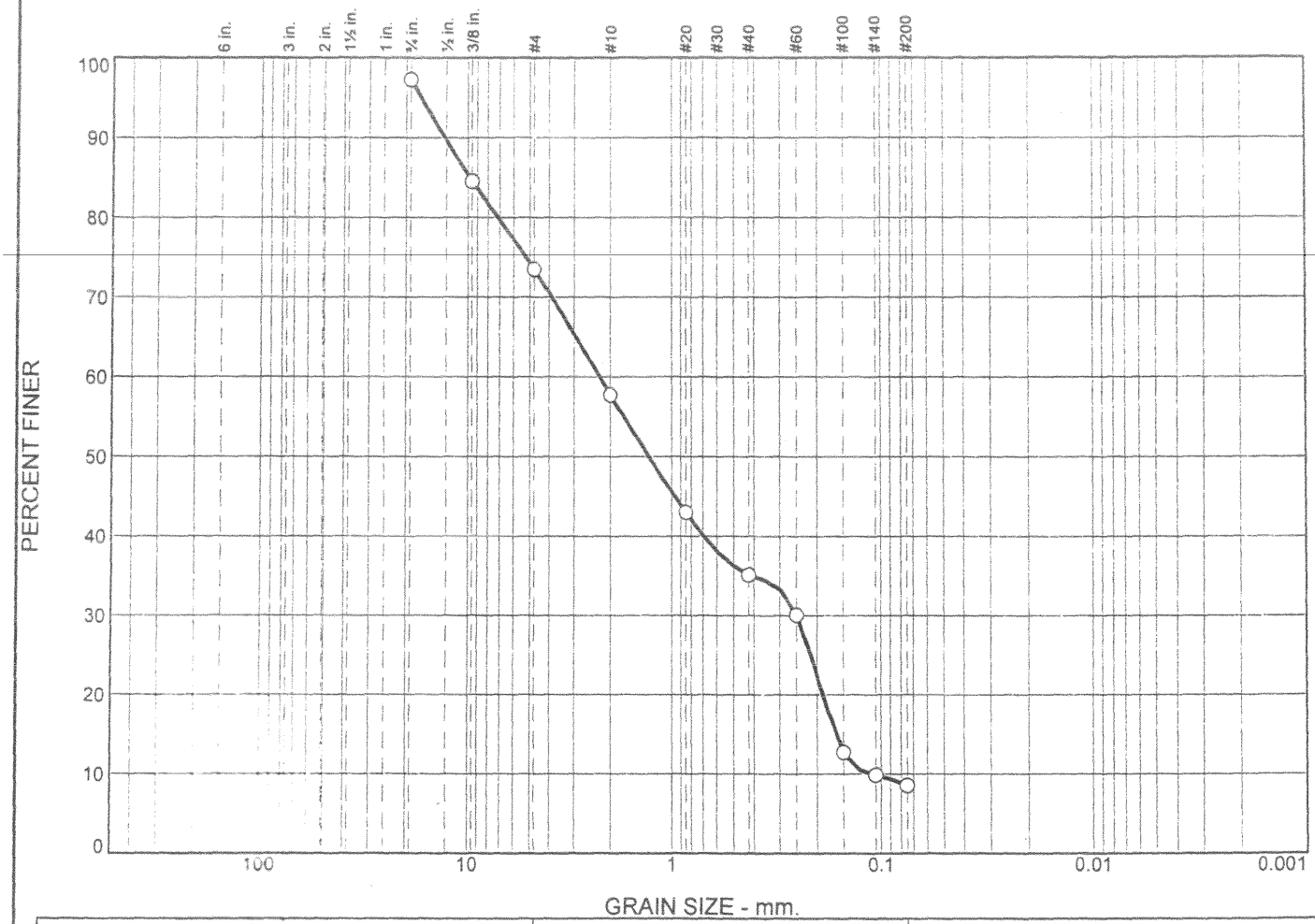
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Carraraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○			24	15	23	26	9	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			9.7852	2.2565	1.3000	0.2495	0.1632	0.1116	0.25	20.21

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 150' to 155'

Date: ○

Remarks:
○ Moisture Content % 10.0
CP05-EAARS-VB-0284

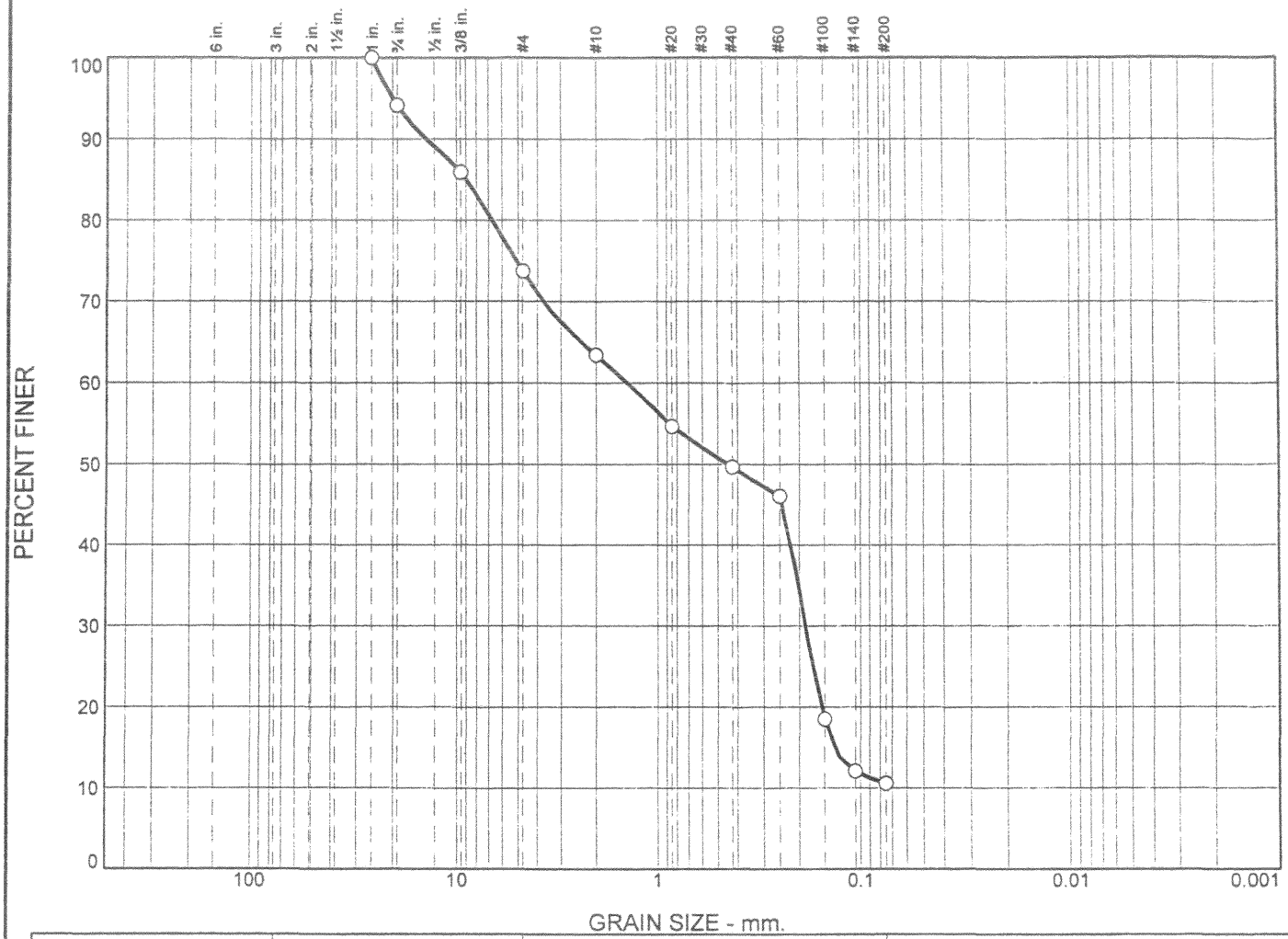
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	6	20	11	13	39	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			8.9346	1.4083	0.4471	0.1859	0.1338			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 155' to 160'

Date: ○

Remarks:
○ Moisture Content % 12.0 CP05-EAARS-VB-0284

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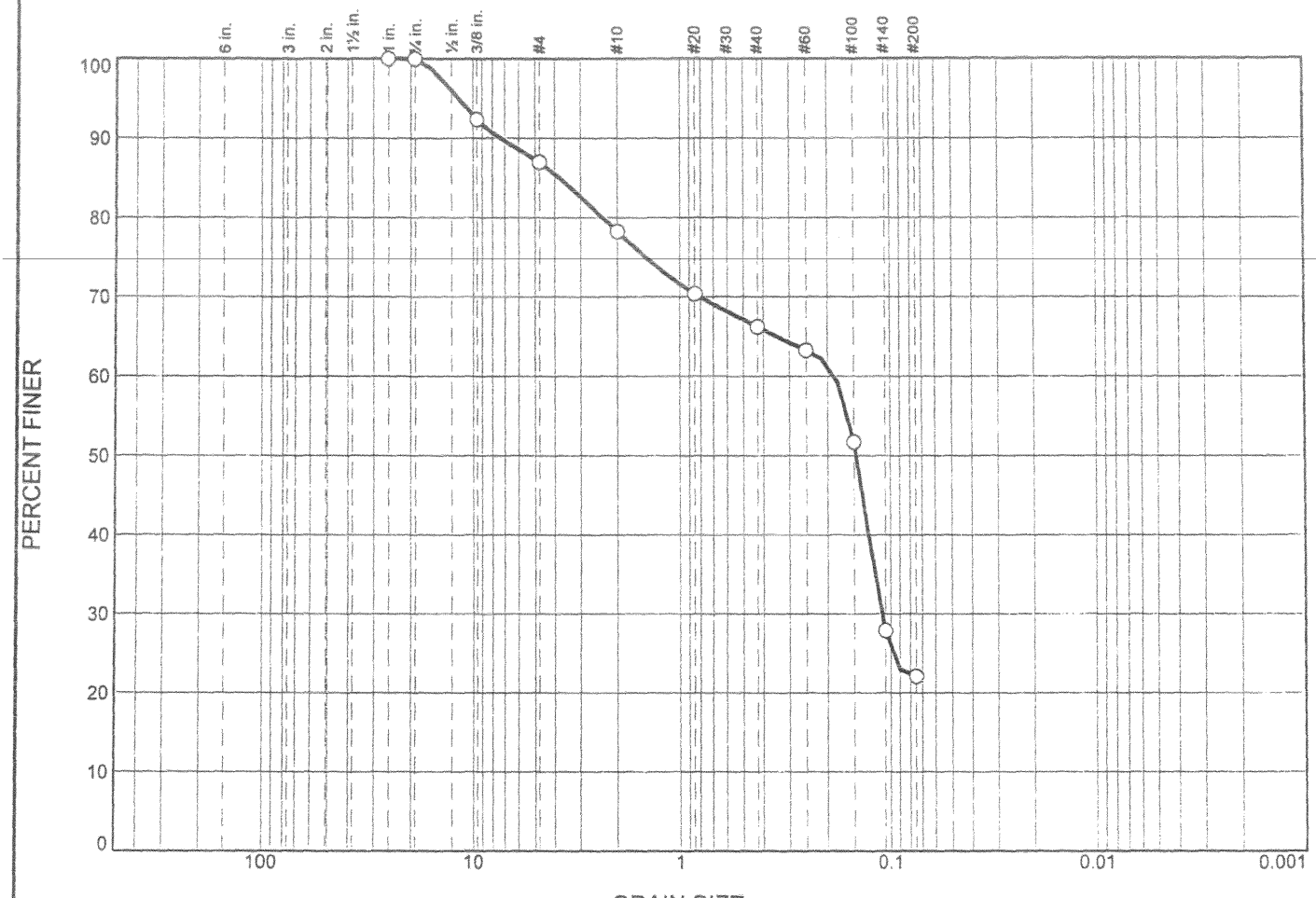
Miami Lakes, FL

Figure

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	13	9	12	44	22	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			3.7710	0.1845	0.1459	0.1102				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 175' to 180'

Date: ○

Remarks:
○ Moisture Content % 16.5 CP05-EAARS-VB-0284

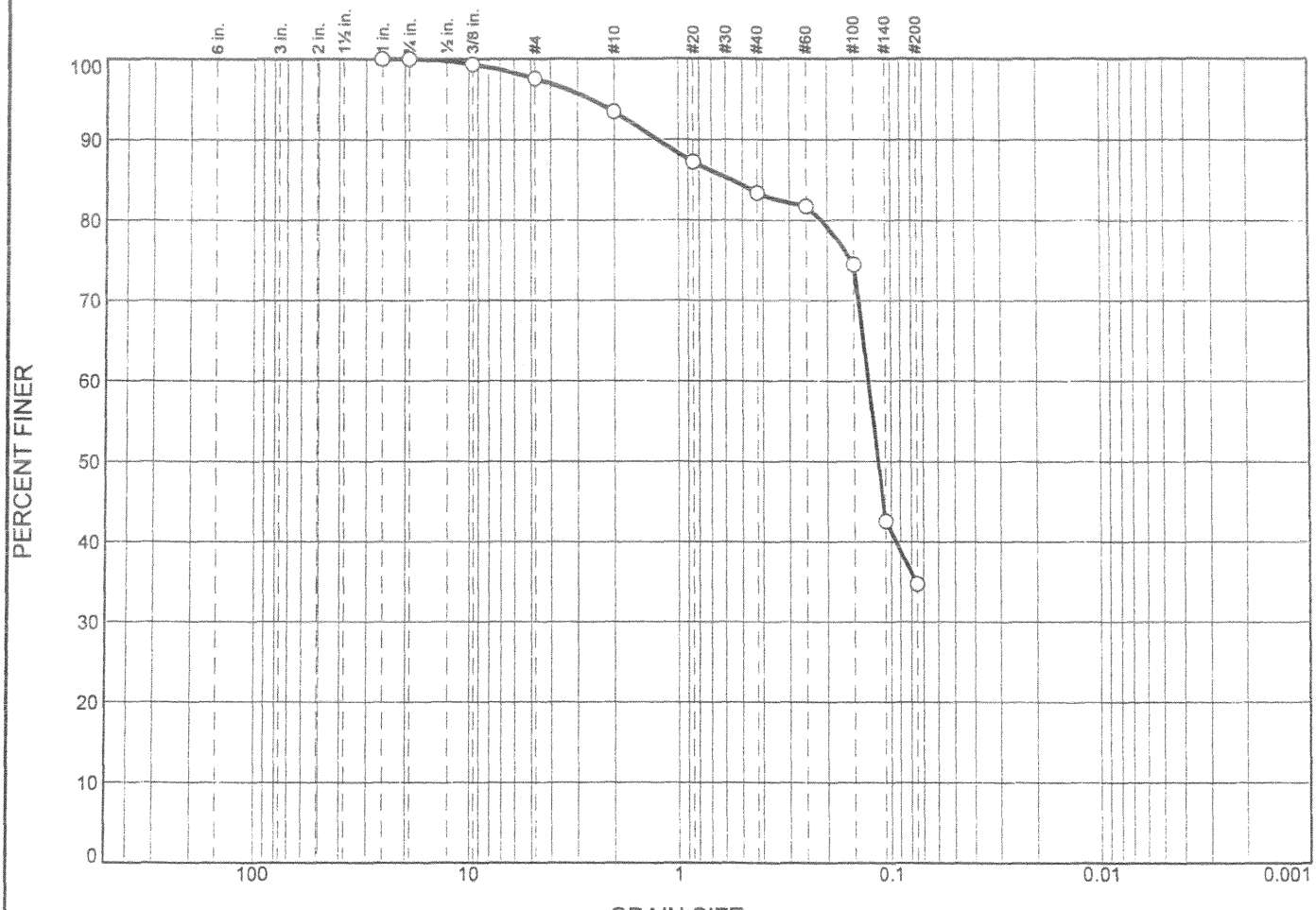
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	2	5	10	48	35	

☒	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.5563	0.1281	0.1160					

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 185' to 190'

Date: ○

Remarks:
○ Moisture Content % 14.5 CP05-EAARS-VB-0284

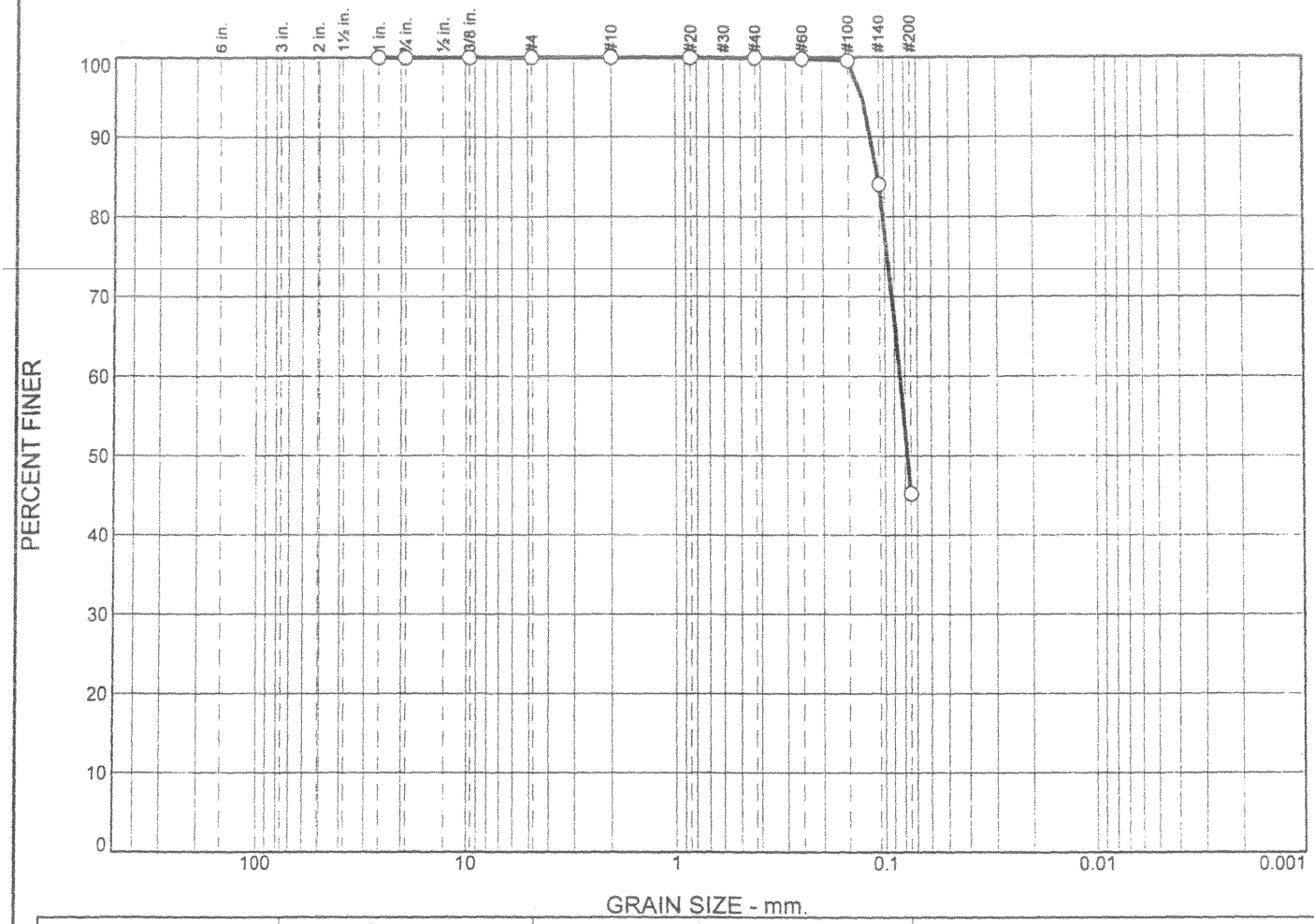
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	0	0	55	45	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.1073	0.0844	0.0779					

Material Description	USCS	AASHTO
○ Sandy silt	ML	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 205' to 210'

Date: ○

Remarks:
○ Moisture Content % 23.1 CP05-EAARS-VB-0284

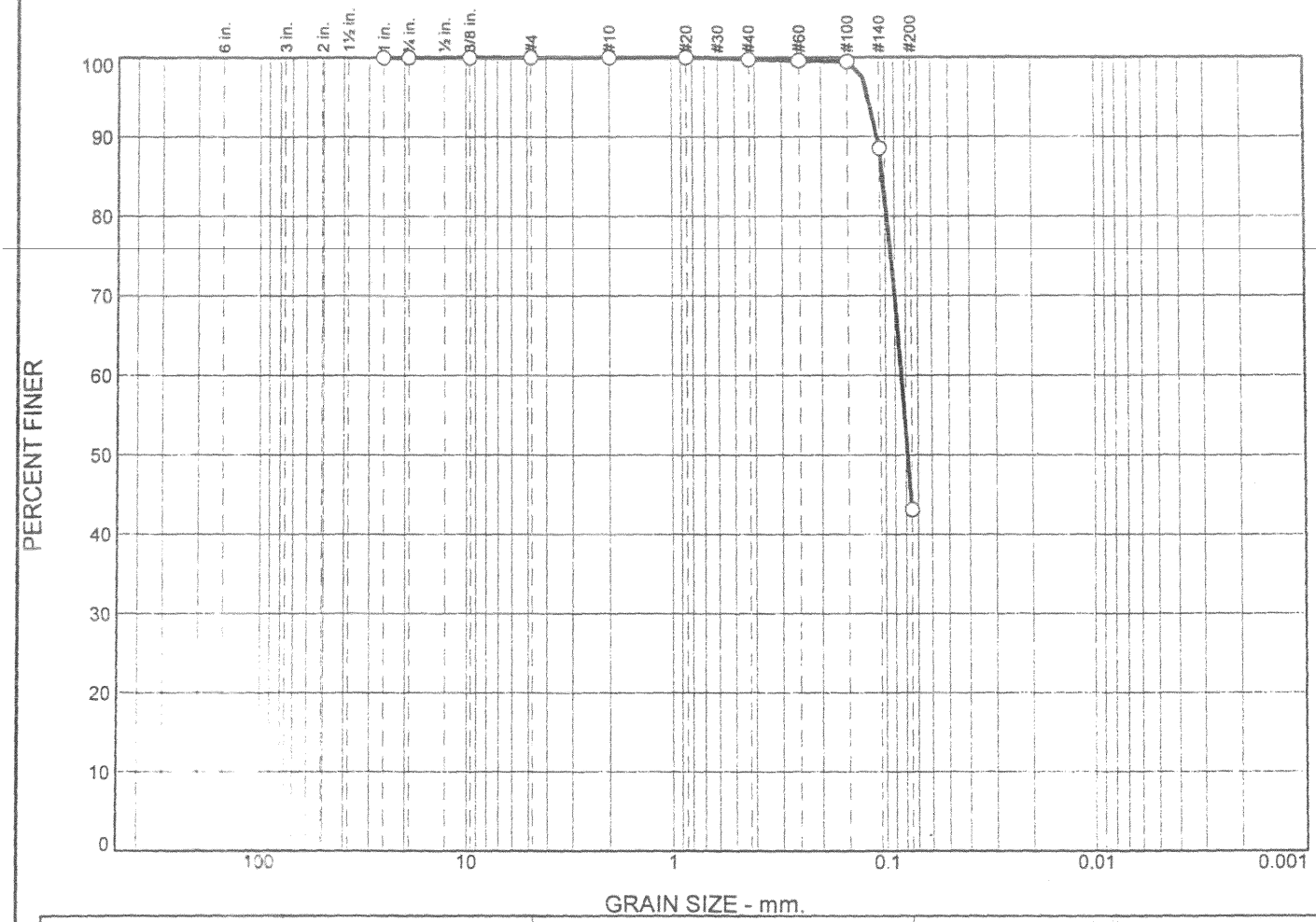
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	0	0	57	43	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.1019	0.0837	0.0784					

Material Description	USCS	AASHTO
○ Sandy silt	ML	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 210' to 215'

Date: ○

Remarks:
○ Moisture Content % 25.7 CP05-EAARS-VB-0284

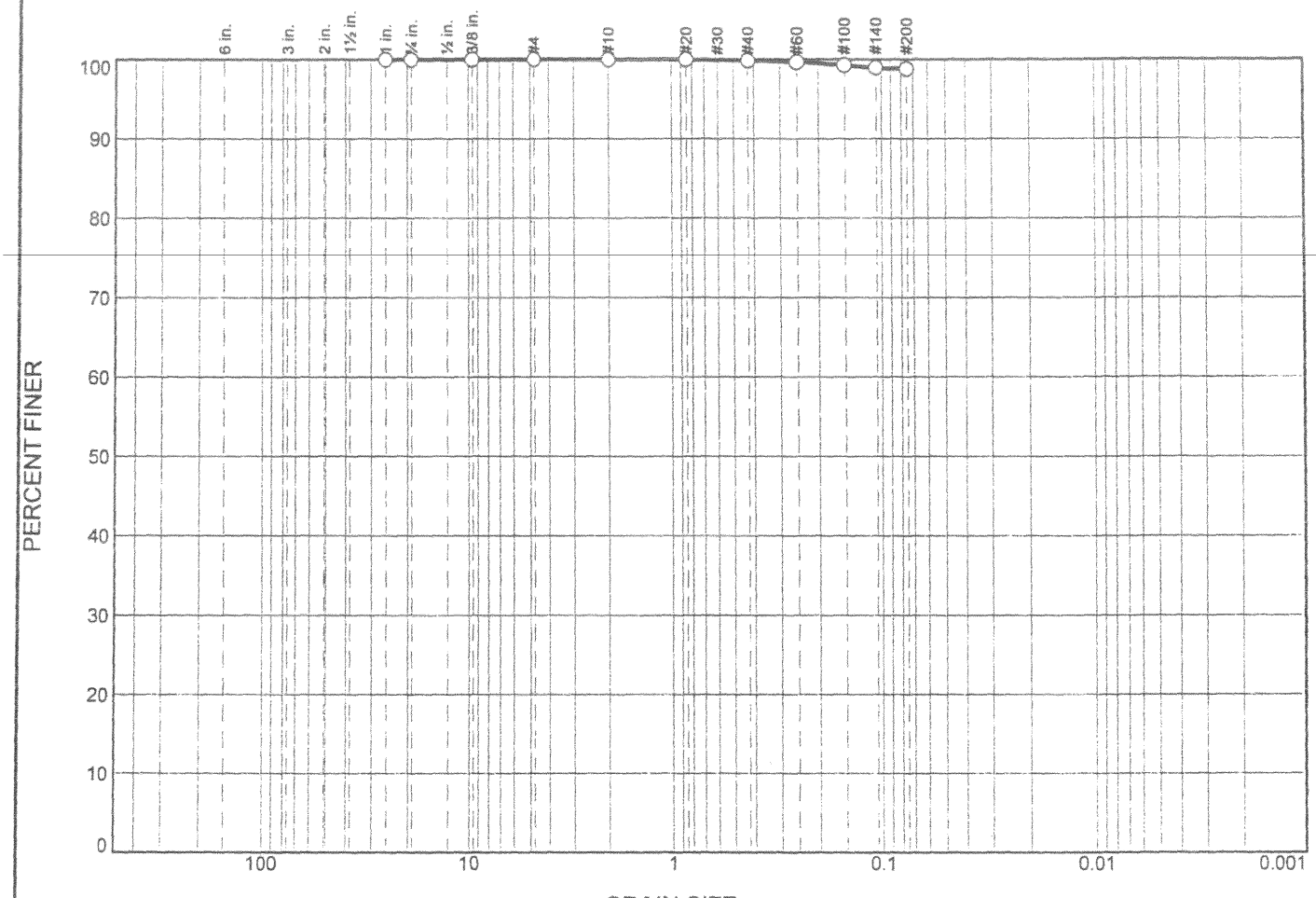
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	0	0	0	1	99	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○										

Material Description	USCS	AASHTO
○ Sandy silt	ML	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0182 **Depth:** 225' to 230'

Date: ○

Remarks:
○ Moisture Content % 75.1 CP05-EAARS-VB-0284

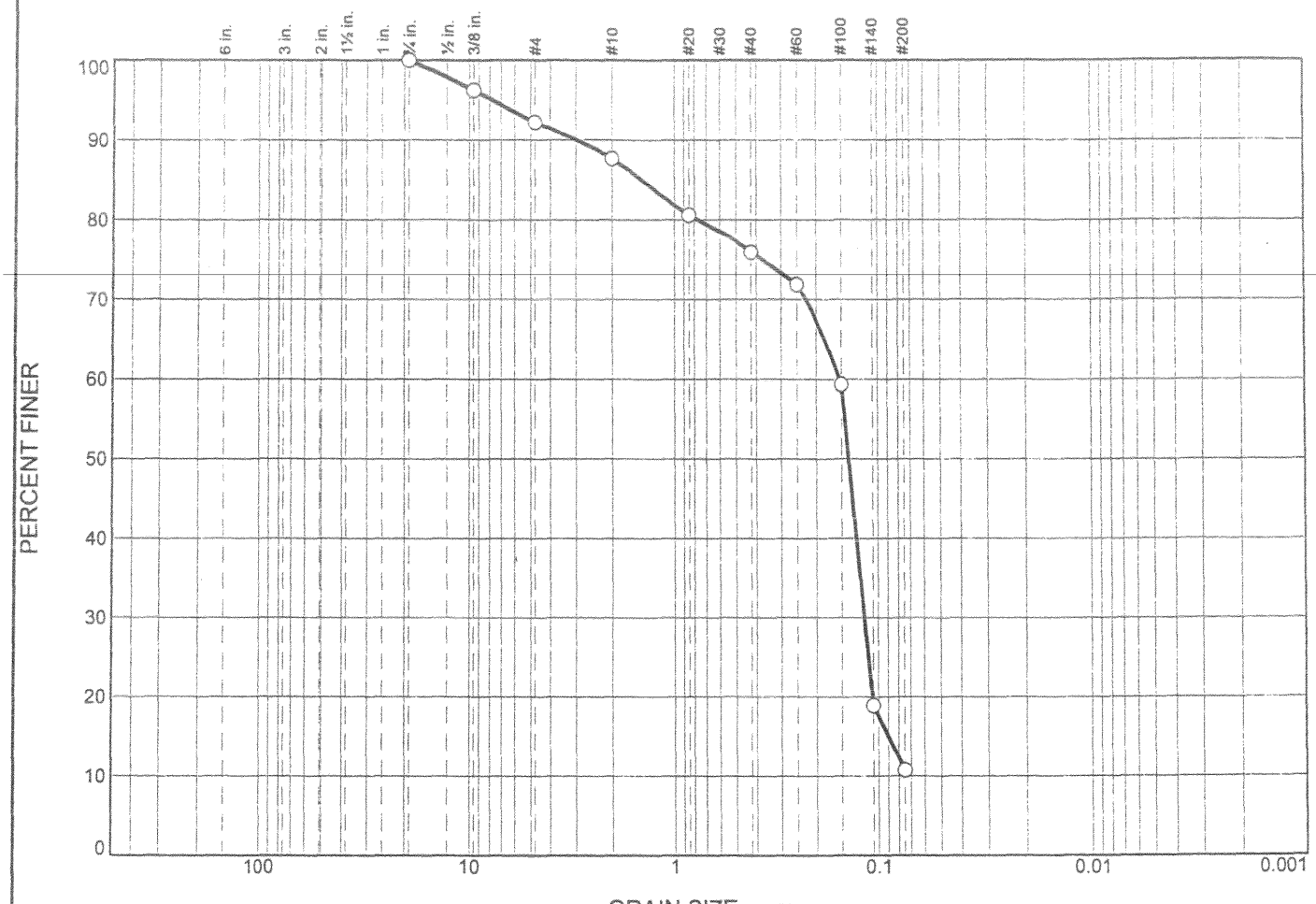
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	8	4	12	65	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			1.4423	0.1530	0.1378	0.1178	0.0898			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0190 **Depth:** 40' to 45'

Date: ○

Remarks:
○ Moisture Content % 21.5
CP05-EAARS-VB-0285

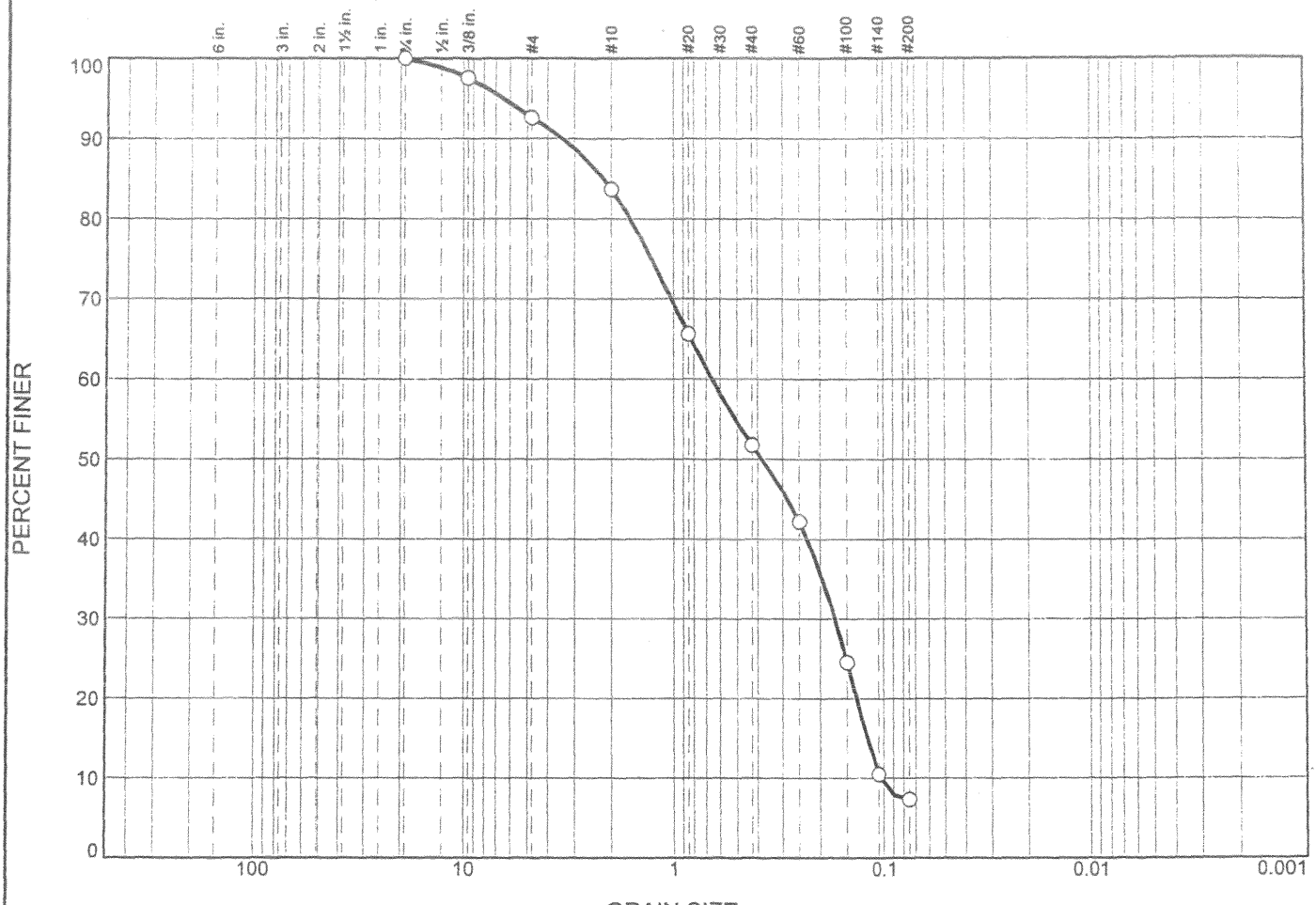
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	7	9	32	45	7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			2.1781	0.6560	0.3805	0.1708	0.1210	0.1039	0.43	6.32

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0190 **Depth:** 45' to 50'

Date: ○

Remarks:
○ Moisture Content % 18.6
CP05-EAARS-VB-0285

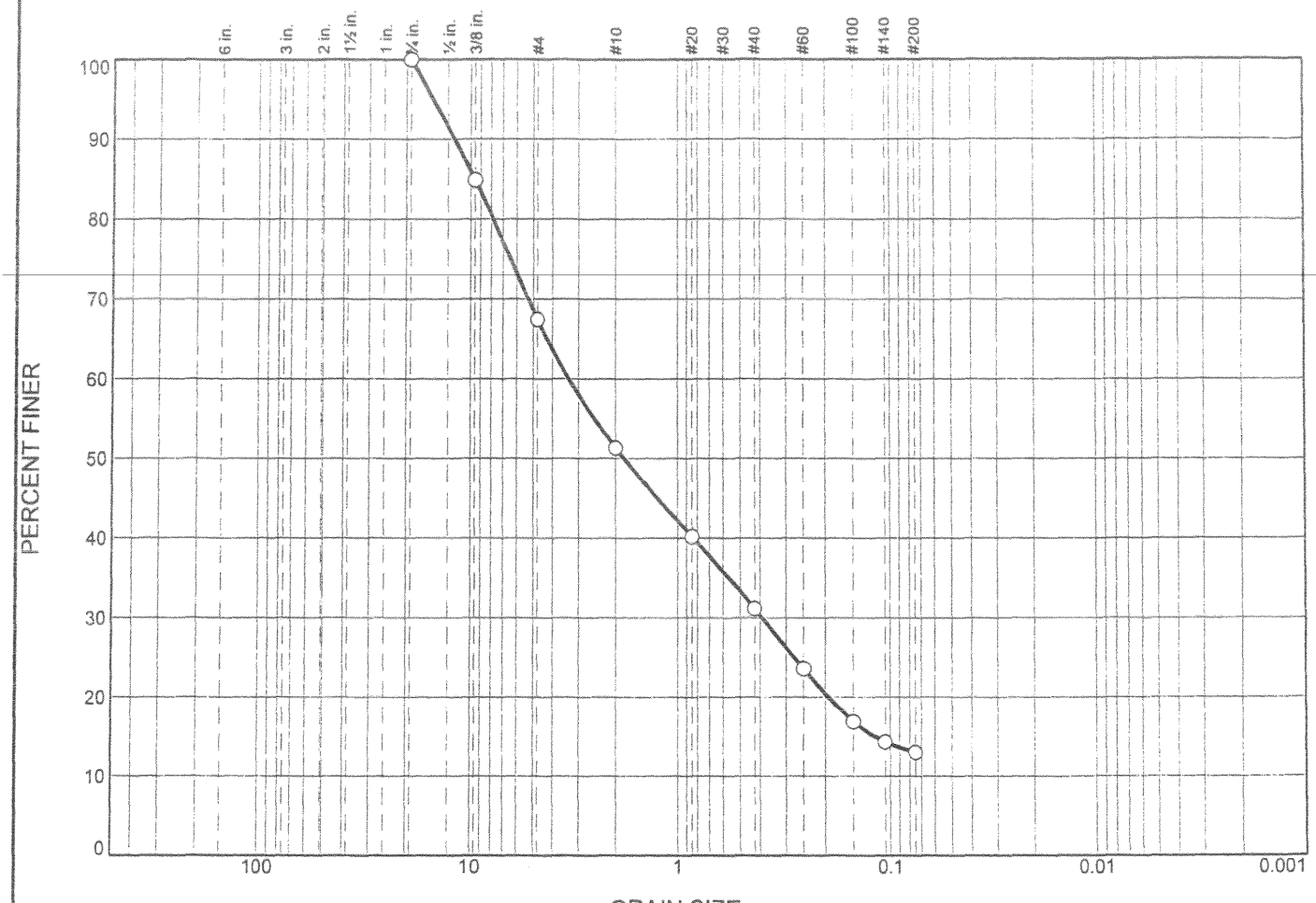
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0	0	33	16	20	18	13	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			9.5740	3.3432	1.8251	0.3909	0.1189			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0190 **Depth:** 70' to 75'

Date: ○

Remarks:
○ Moisture Content % 14.8
CP05-EAARS-VB-0285

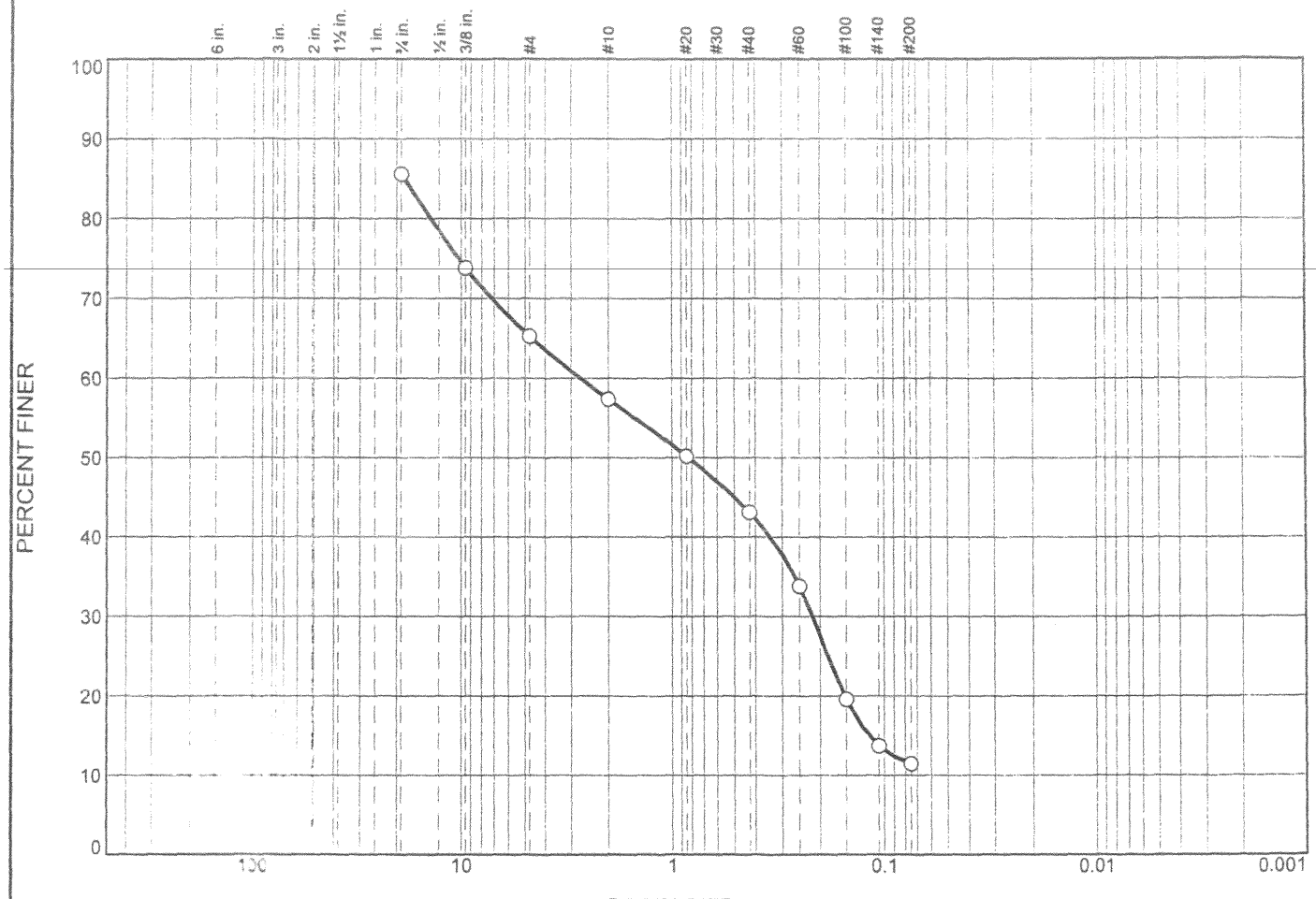
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○			21	8	14	32	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			18.4096	2.7228	0.8308	0.2172	0.1177			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0190 **Depth:** 75' to 80'

Date: ○

Remarks:
○ Moisture Content % 17.1
CP05-EAARS-VB-0285

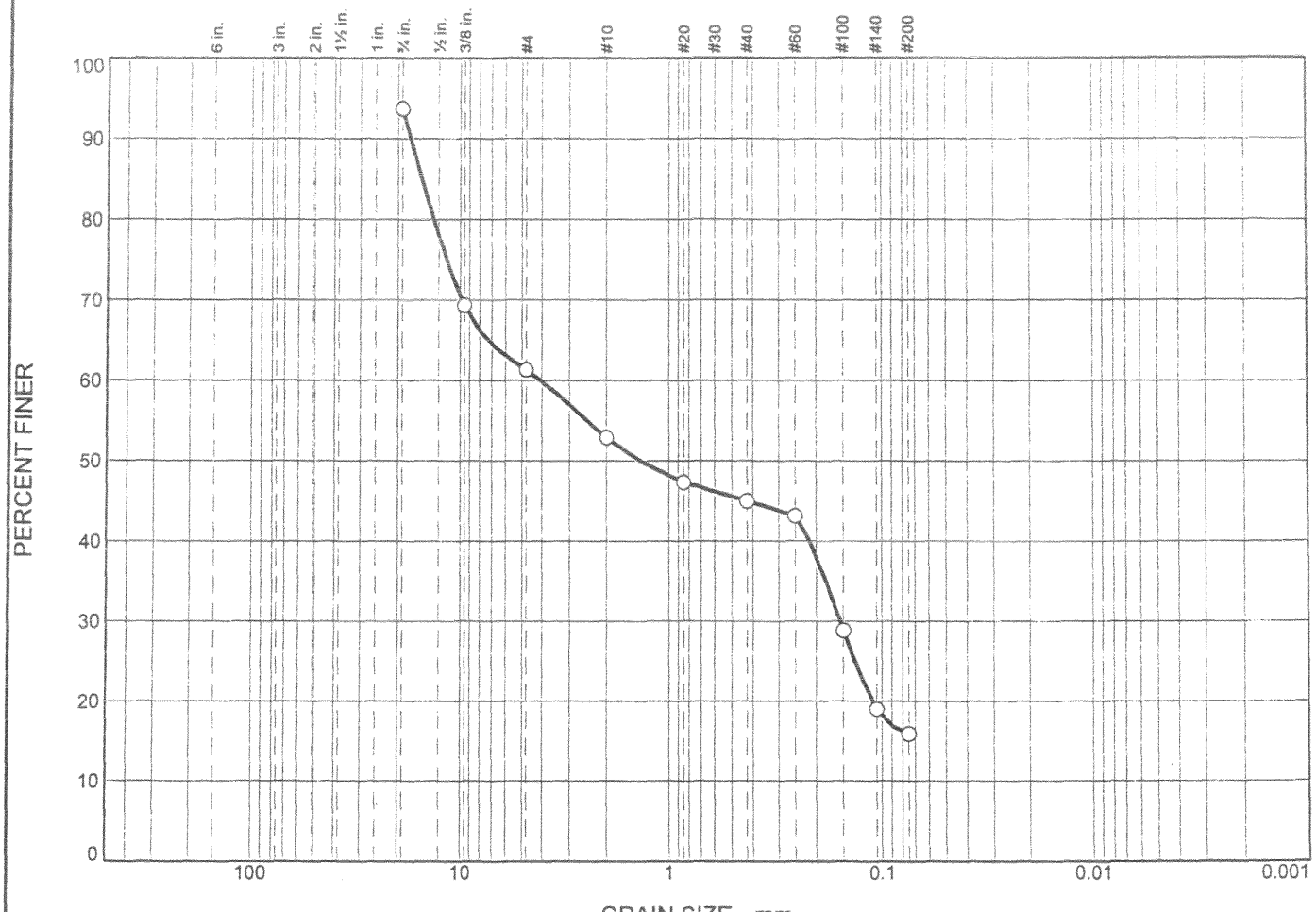
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○			33	8	8	29	16	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			15.3817	4.0643	1.3624	0.1553				

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0190 **Depth:** 110' to 115'

Date: ○

Remarks:
○ Moisture Content % 13.5
CP05-EAARS-VB-0285

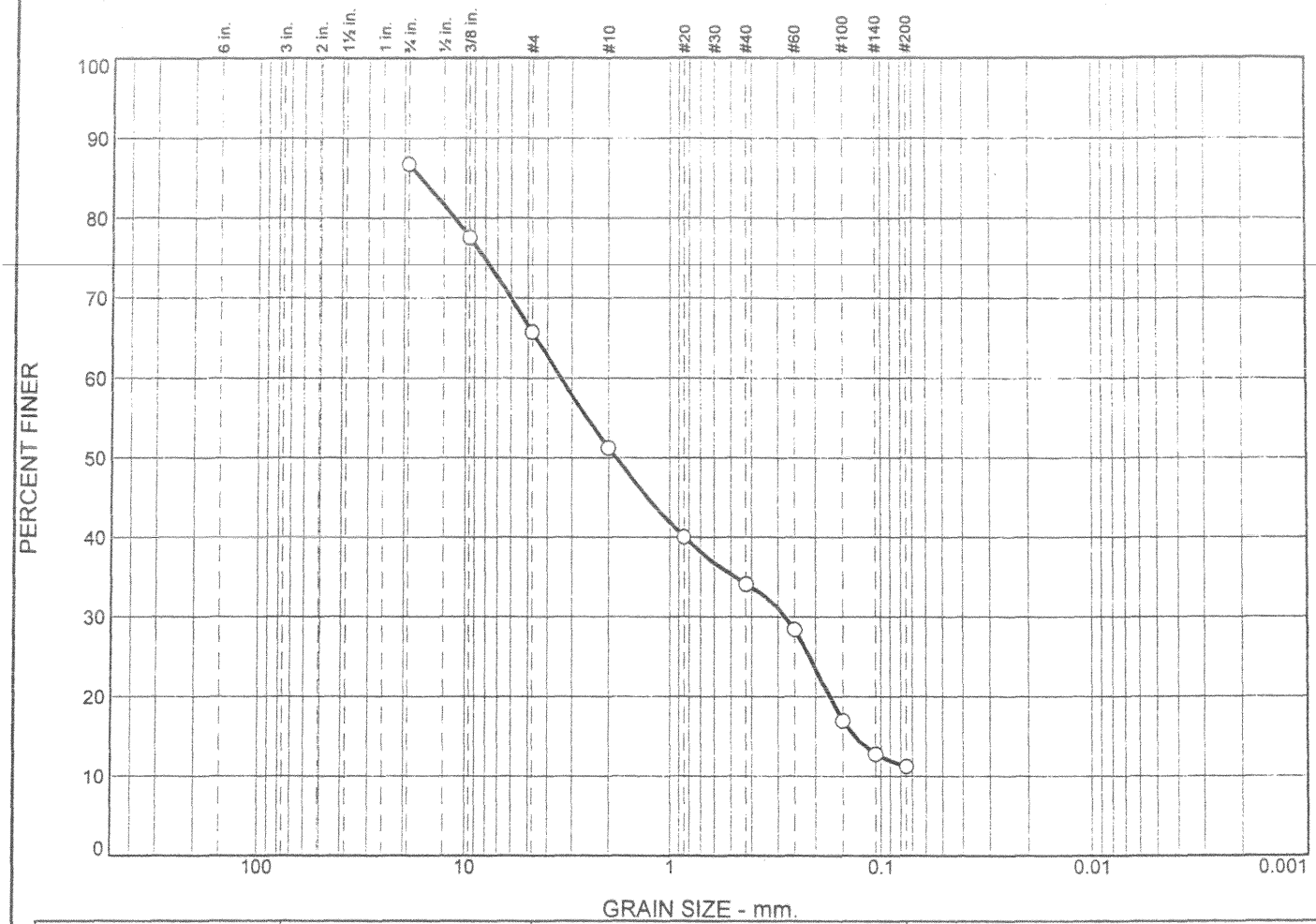
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○			21	15	17	23	11	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			16.5258	3.4175	1.8409	0.2754	0.1326			

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)
○ **Source of Sample:** CB-0190 **Depth:** 115' to 120'

Date: ○

Remarks:
○ Moisture Content % 11.6
CP05-EAARS-VB-0285

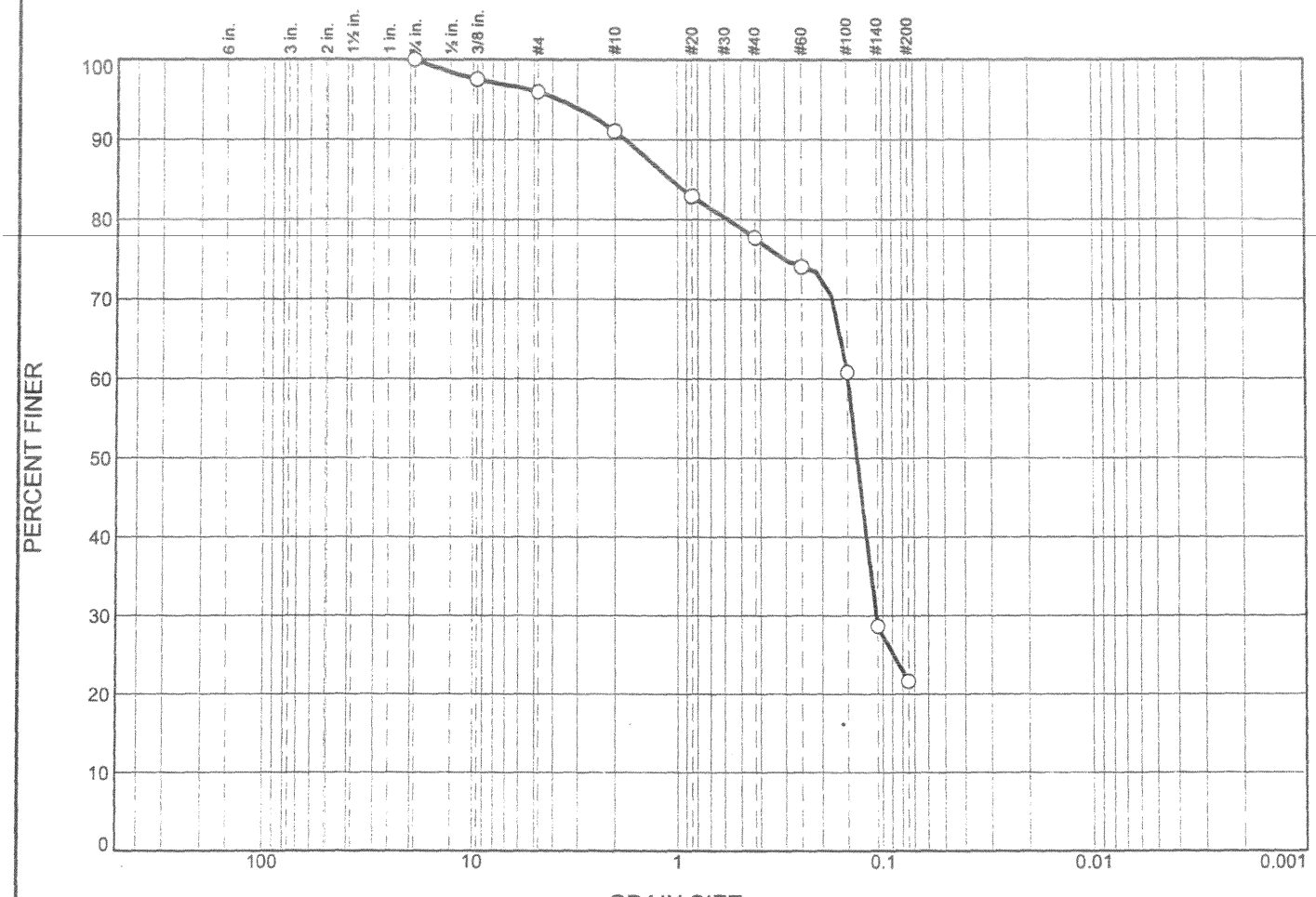
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Pedro Camaraza **Checked By:** Kevin Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	4.0	4.9	13.4	56.0	21.7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			1.0644	0.1485	0.1334	0.1081				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB-0190 **Depth:** 150.0'-155.0' **Sample No.:** CB190

Remarks:

○ Moisture Content % 18.75 CP05-EAARS-VB-285

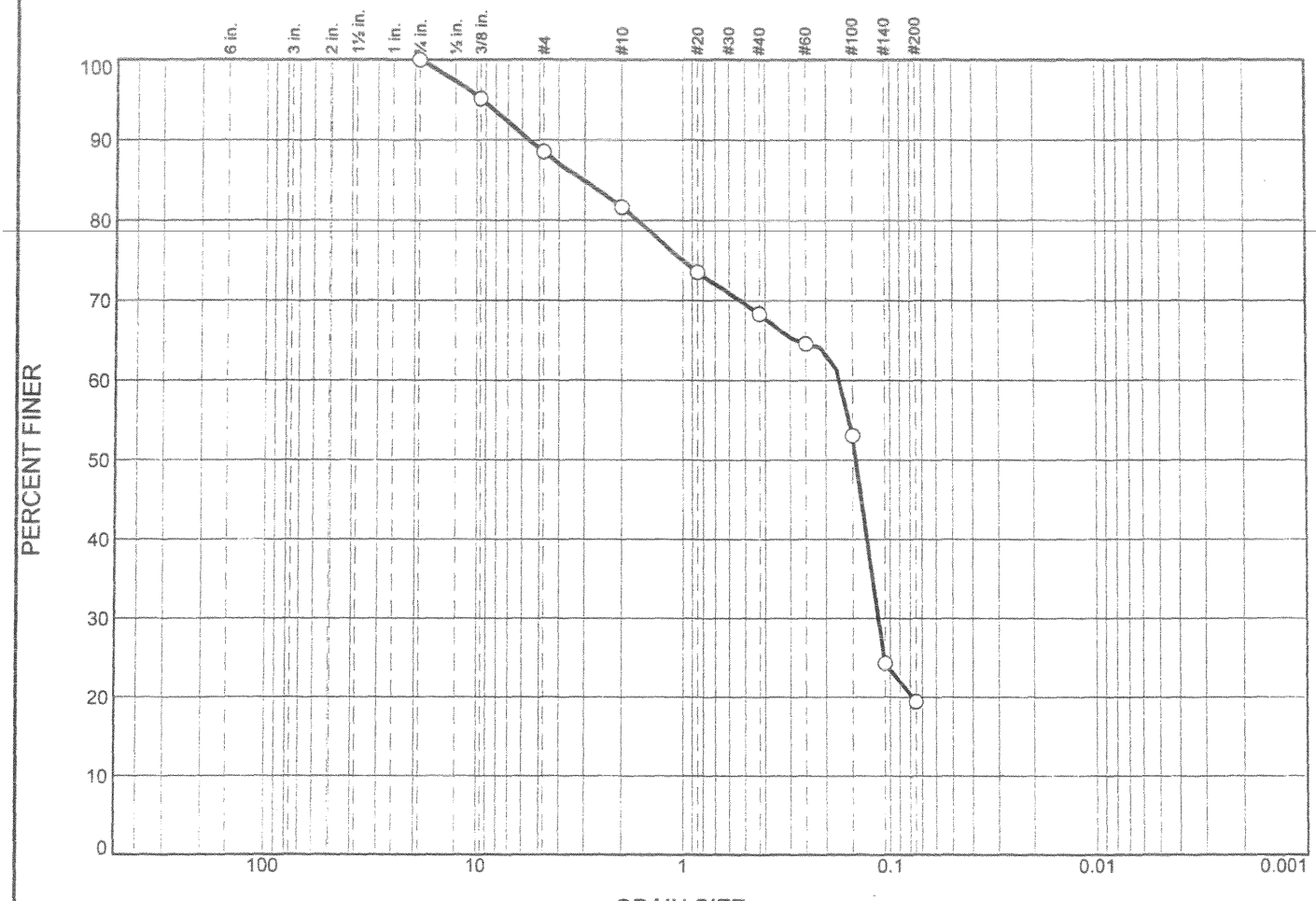
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	11.5	6.8	13.4	48.9	19.4	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			3.0457	0.1711	0.1440	0.1150				

Material Description	USCS	AASHTO
○ Silty sand	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB-0190 **Depth:** 155.0'-160.0' **Sample No.:** CB190

Remarks:
○ Moisture Content % 18.11 CP05-EAARS-VB-285

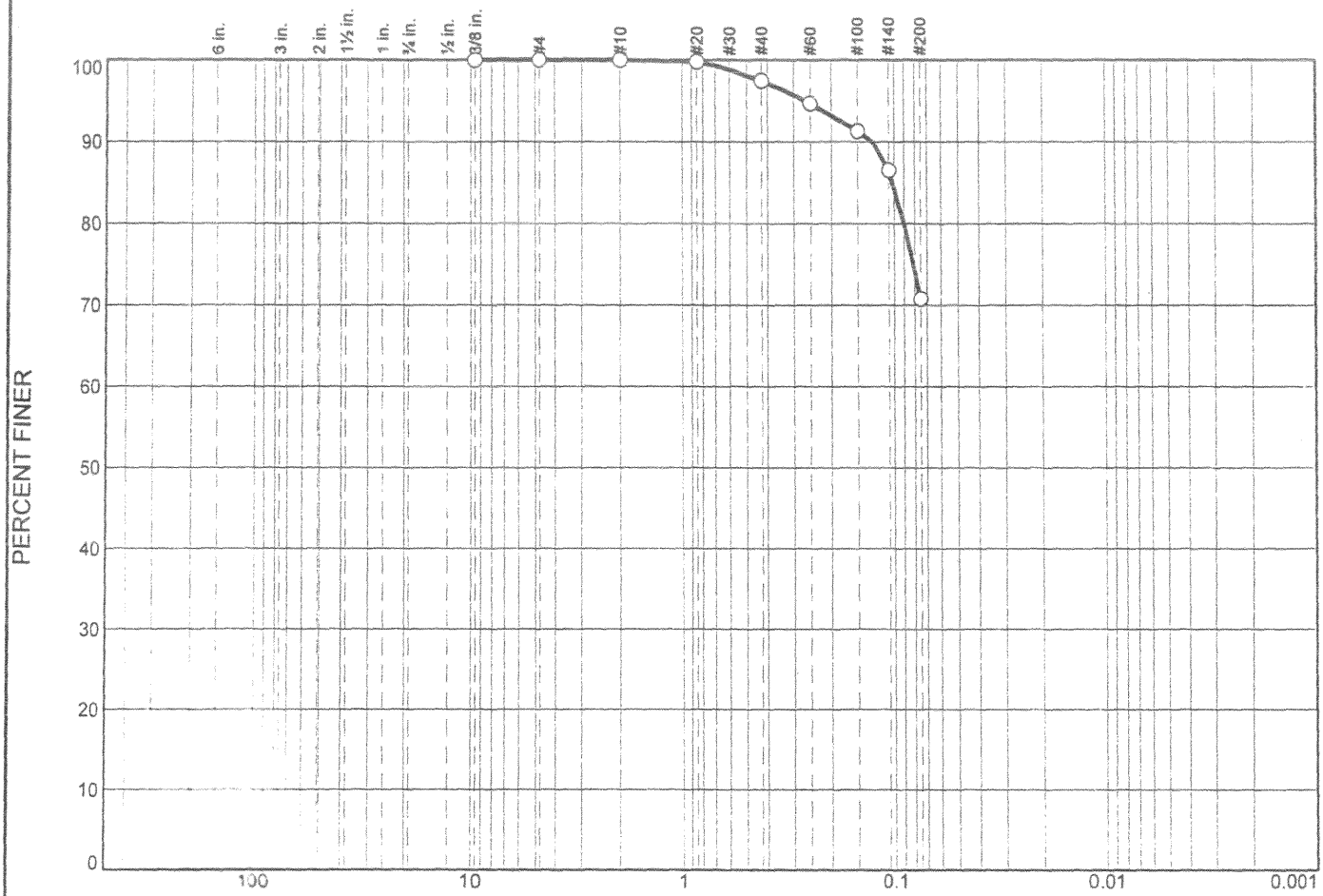
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: LMAZO Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	2.6	26.6	70.8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.1011							

Material Description	USCS	AASHTO
○ Silty sand	ML	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB-0190 **Depth:** 215.0'-220.0' **Sample No.:** CB190

Remarks:
○ Moisture Content %43.4 CPO5-EAARS-VB-0285

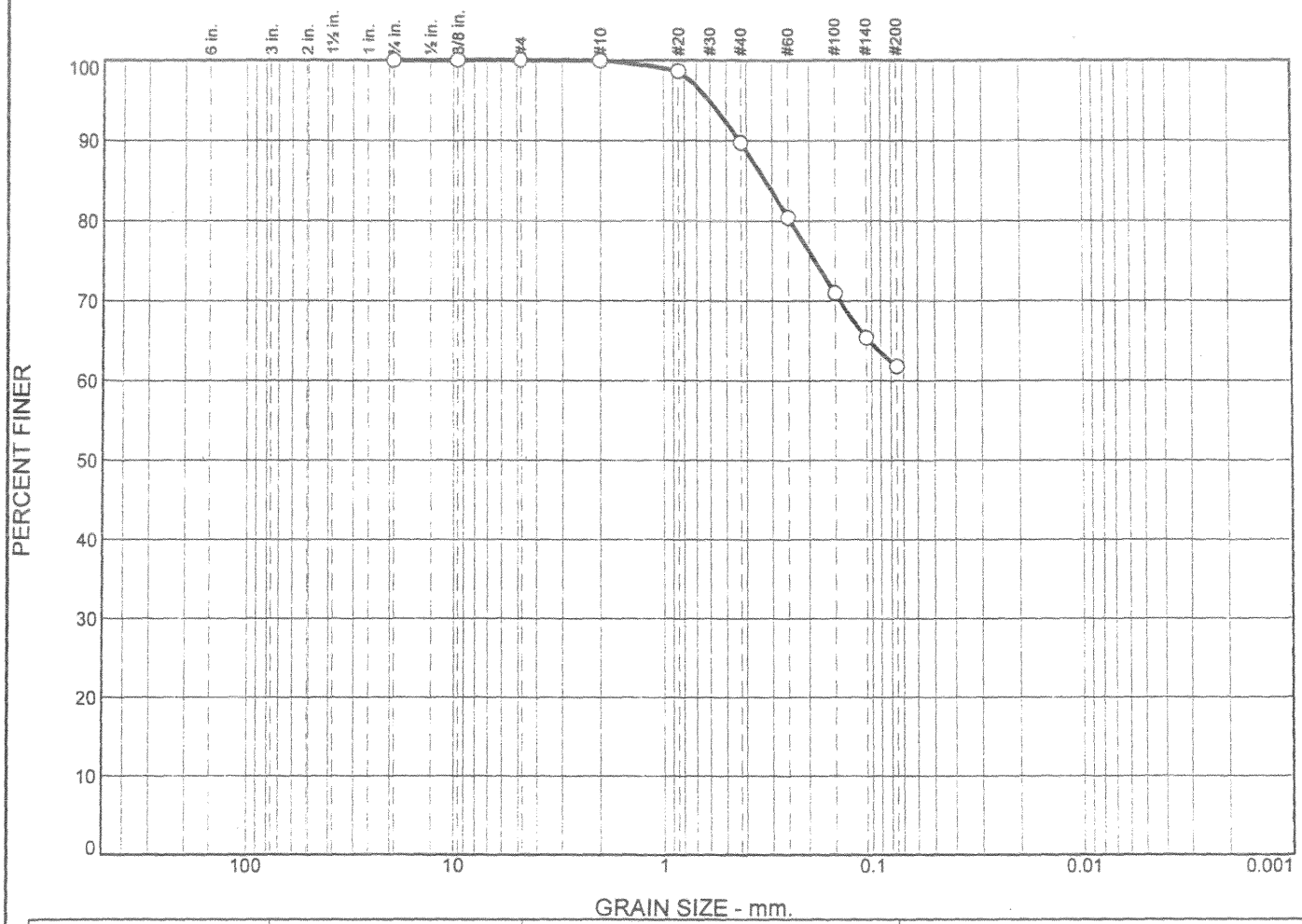
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: J MAZO **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	10.2	28.0	61.8	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.3214							

Material Description	USCS	AASHTO
○ Silty sand	ML	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Sample Source:** CB-0190 **Depth:** 220.0'-225.0' **Sample No.:** CB190

Remarks:

○ Moisture Content % 88.1 CP05-EAARS-VB-285

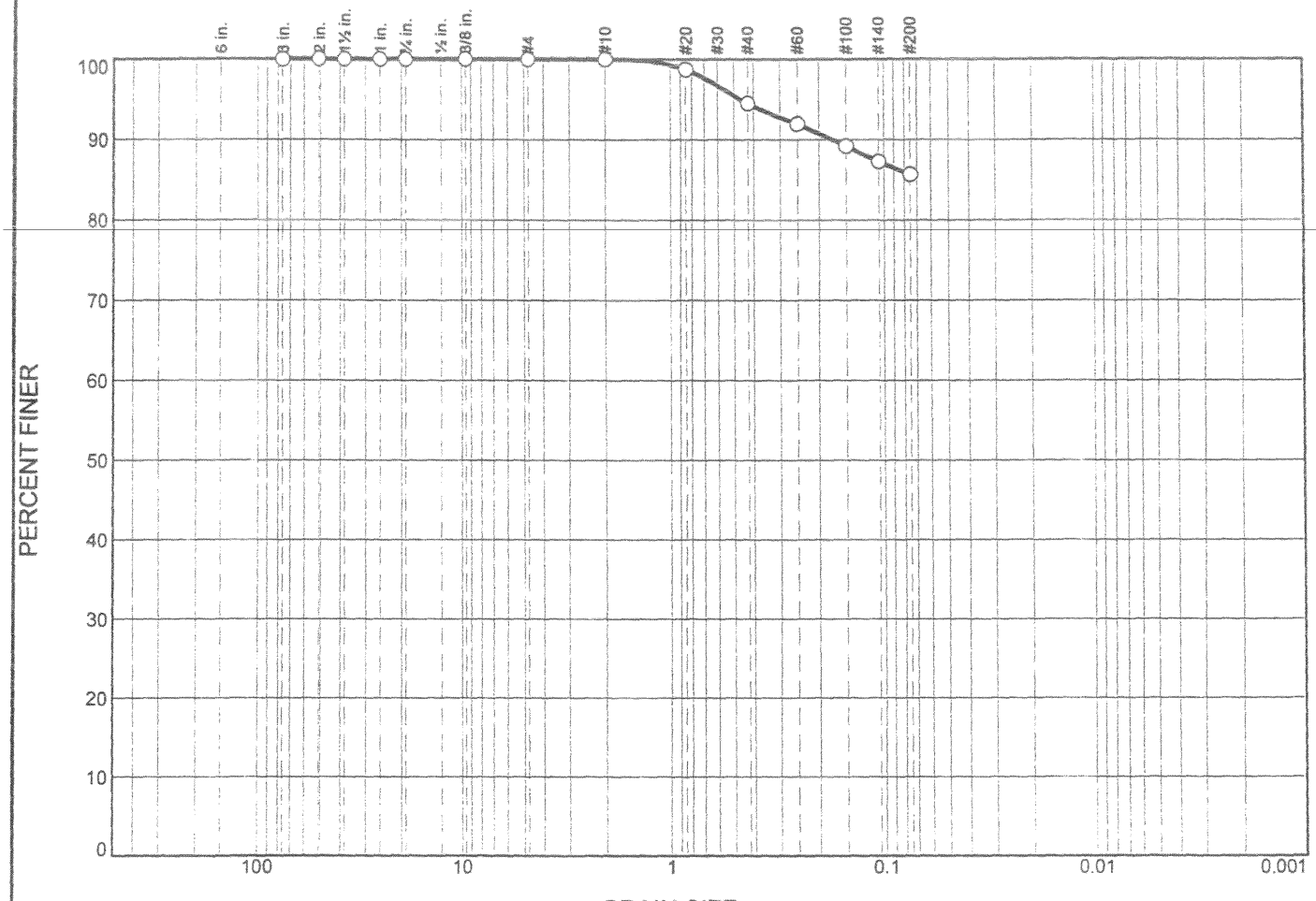
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: J. MAZO **Checked By:** Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.0	0.0	5.5	8.8	85.7	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○	127	66								

Material Description	USCS	AASHTO
○ Silty sand	ML	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB-0190 **Depth:** 225'-230' **Sample Number:** CB190

Remarks:

○ Moisture Content % 148.3 CP05-EAARS-VB0285

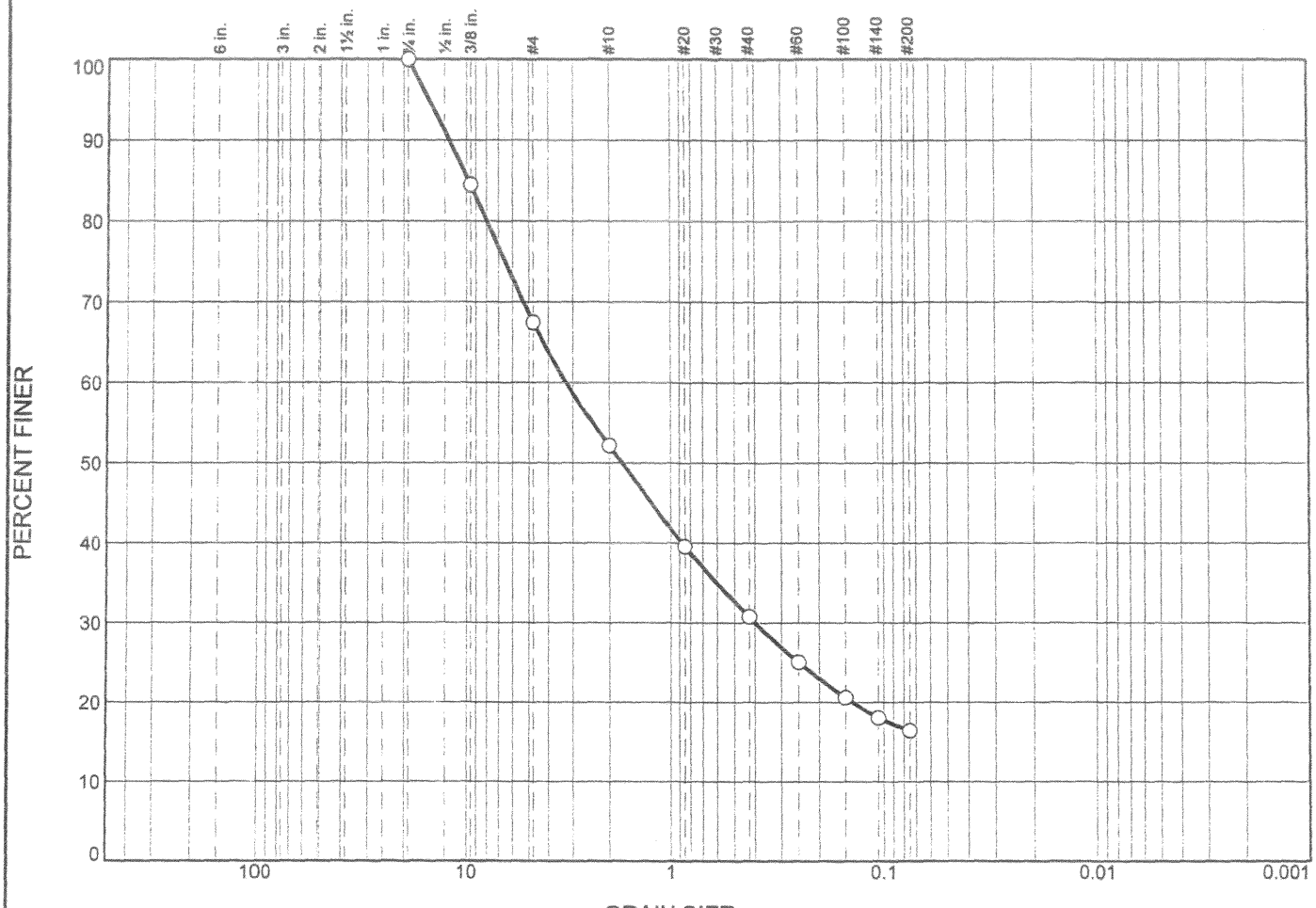
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: Michael Brown

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	32.5	15.3	21.4	14.4	16.4	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			9.7174	3.2447	1.7354	0.3970				

Material Description	USCS	AASHTO
○ Silty sand with gravel	SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB205 **Depth:** 5.0'-10.0' **Sample Number:** CB205

Remarks:
○ Moisture Content %13.5 CP05-EAARS-VB-0286

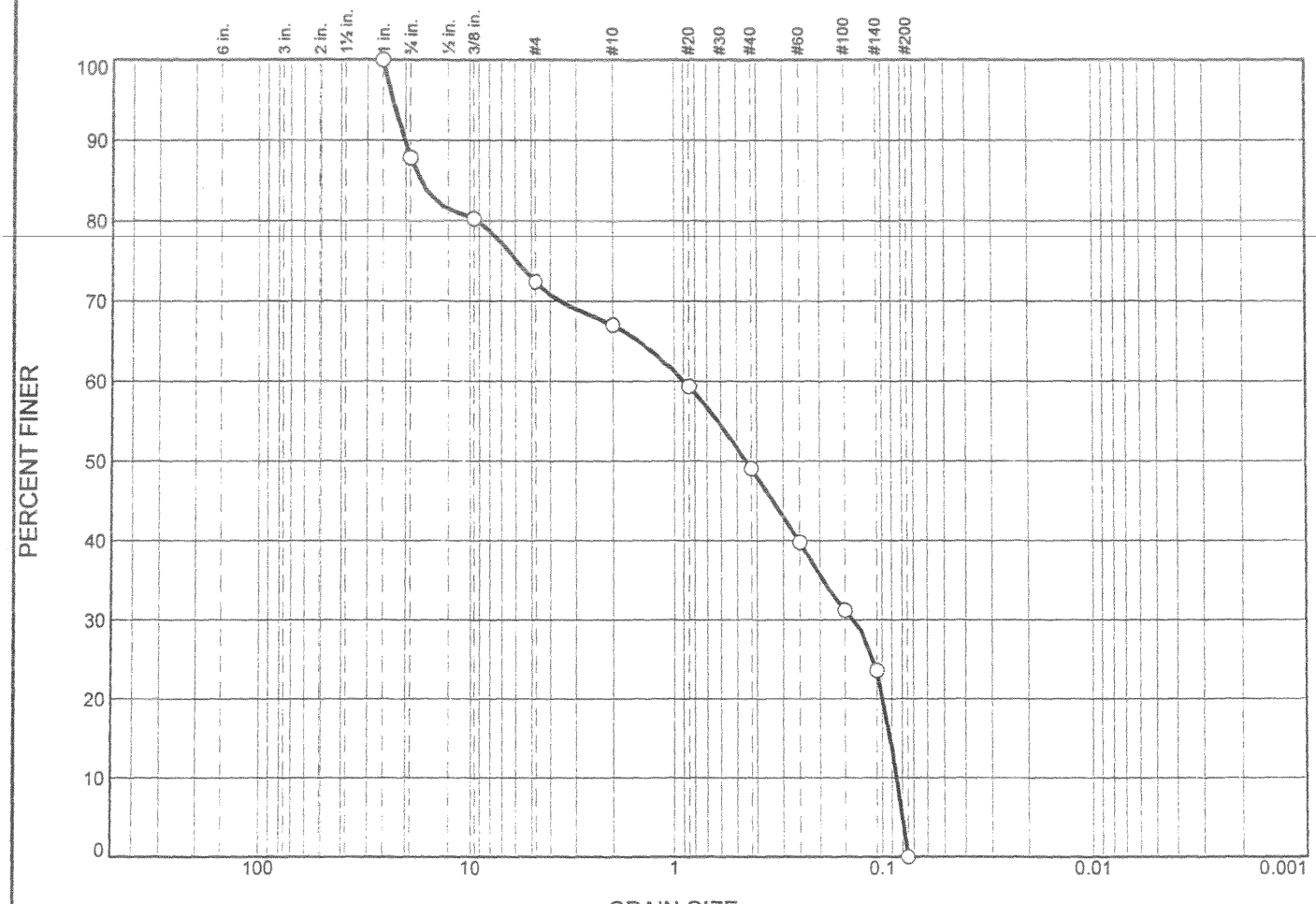
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Belooki Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	12.2	15.4	5.4	17.9	49.1	0.0	0.0

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			17.1241	0.8955	0.4494	0.1364	0.0913	0.0852	0.24	10.51

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch
Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB205 **Depth:** 15.0'-20.0' **Sample Number:** CB205

Remarks:
○ Moisture Content % 18.1 CP05-EAARS-VB-0286

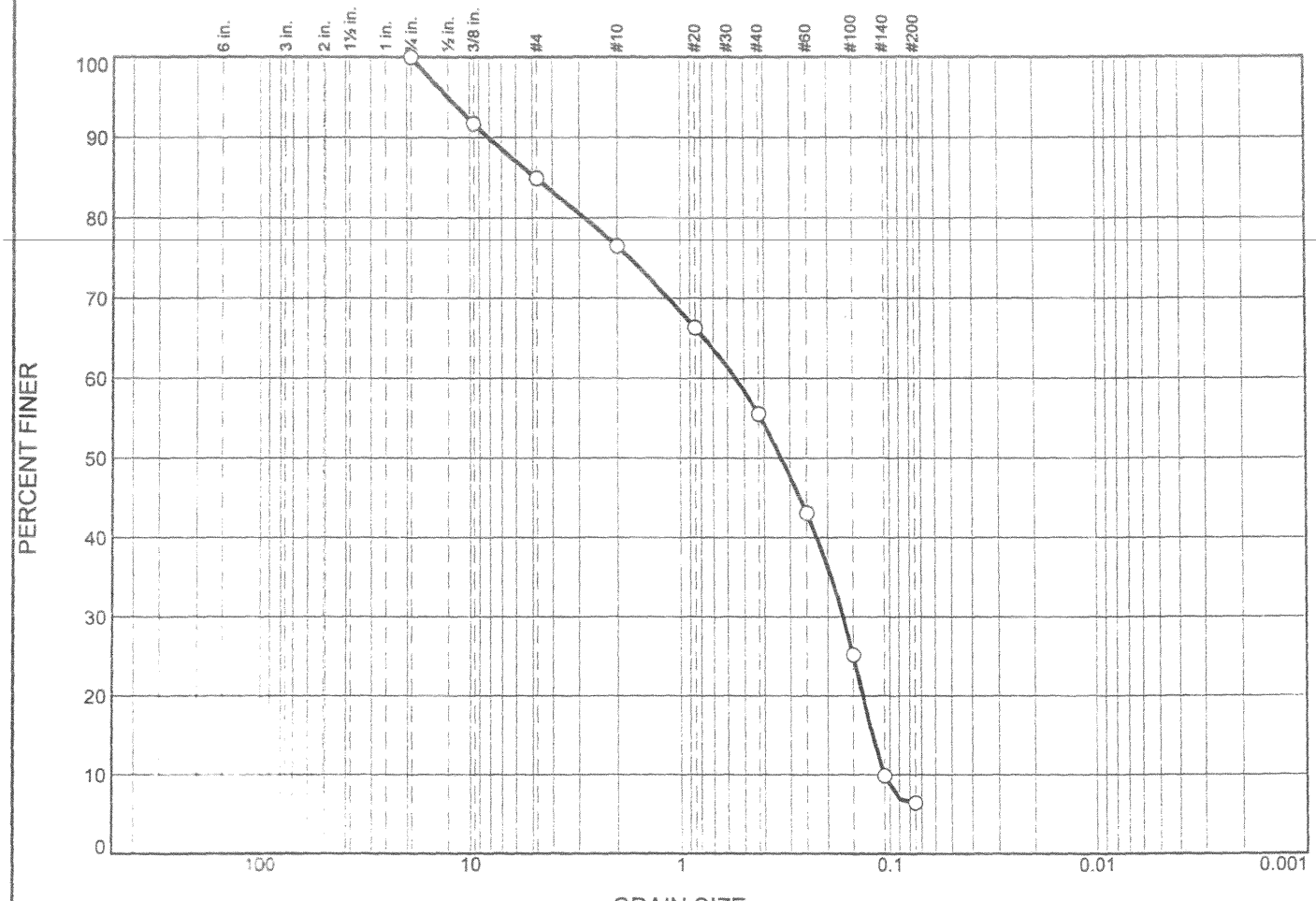
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: [illegible] Checked By: K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	15.1	8.4	21.0	49.1	6.4	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_C	C_U
○			4.7979	0.5468	0.3284	0.1675	0.1215	0.1066	0.48	5.13

Material Description	USCS	AASHTO
○ Poorly graded sand with silt and gravel	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB205 **Depth:** 30.0'-35.0 **Sample Number:** CB205

Remarks:

○ Moisture Content % 16.2 CP05-EAARS-VB-0286

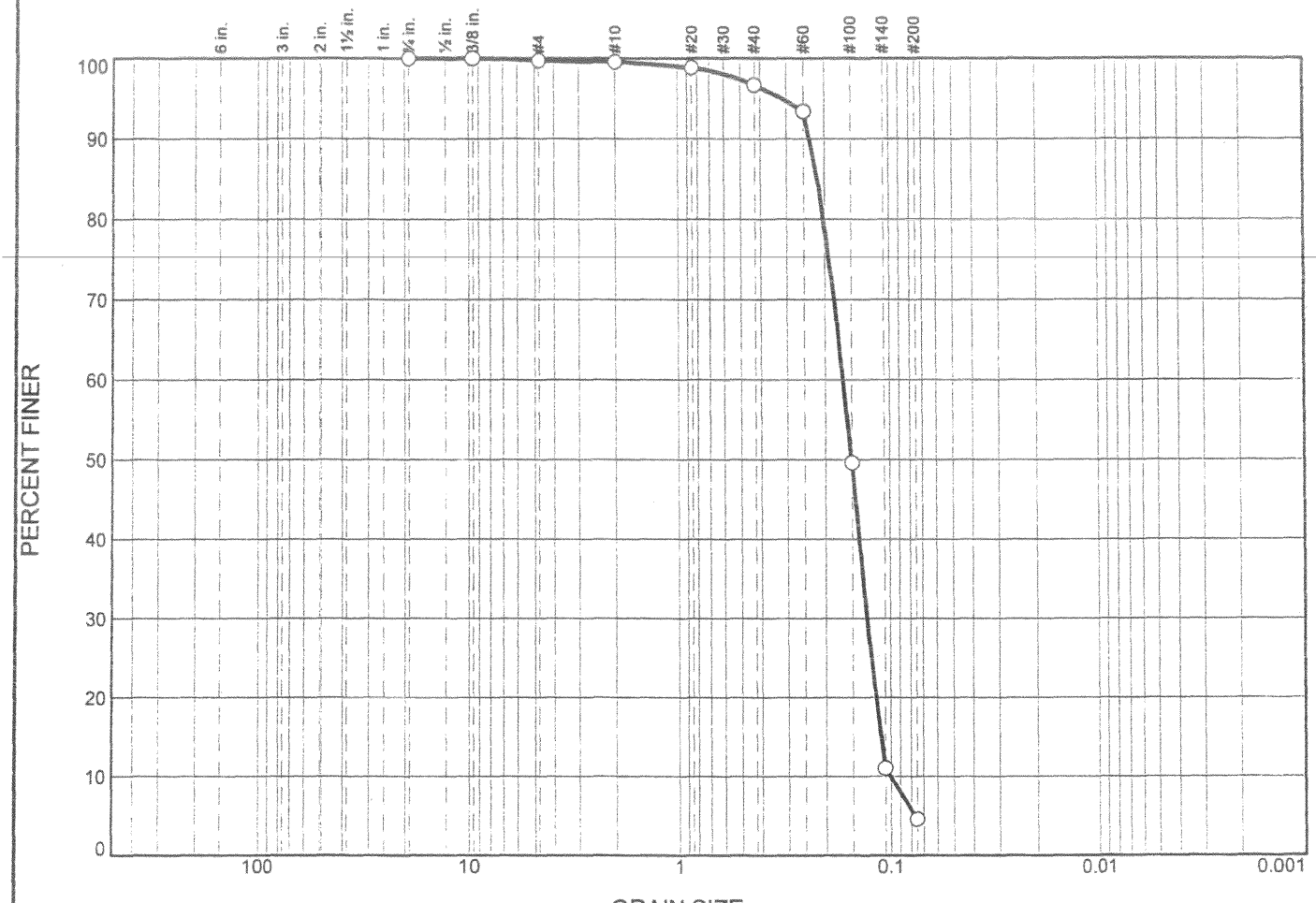
Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Rolooki **Checked By:** K Leung

Particle Size Distribution Report



	% +3"	% Gravel		% Sand			% Fines	
		Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
○	0.0	0.0	0.3	0.1	2.9	92.1	4.6	

	LL	PL	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.2147	0.1638	0.1504	0.1282	0.1115	0.1002	1.00	1.64

Material Description	USCS	AASHTO
○ Poorly graded sand with silt	SP-SM	

Project No. 05-05-0013- **Client:** Black & Veatch

Project: E.A.A (Reservoir)W/O#6

○ **Source of Sample:** CB205 **Depth:** 35.0'-40.0' **Sample Number:** CB205

Remarks:

○ Moisture Content % 23.8 CP05-EAARS-VB-0286

Nodarse & Associates, Inc.

Miami Lakes, FL

Figure

Tested By: Bolooki **Checked By:** K Leung