Table 12. Results of Non-Standard TCLP Testing for Metals Using Dried Miami River Sediments [all data reported in mg/L)

Station ID:	E-MR99 Dry-1	E-MR99 Dry-1 Duplicate	E-MR99 Dry-2	E-MR99 Dry-3	E-MR99 Dry-4	E-MR99 Dry-5	TCLP Regulatory Level
PPB #:	175004	175005	175006	175007	175008	175009	
% Solids	99.5	99.5	99.5	99.6	99.5	99.6	
Arsenic	0.346	0.360	0.382	0.364	0.337	0.329	5.0
Barium	0.355	0.553	0.084	0.150	0.230	0.208	100.0
Cadmium	0.050	0.028	0.056	0.024	0.021	0.024	1.0
Chromium	0.028	0.026	0.028	0.025	0.029	0.028	5.0
Lead	0.404	0.217	0.543	0.390	0.326	0.342	5.0
Selenium	0.121	0.128	0.161	0.163	0.141	0.136	1.0
Silver	0.062	0.061	0.060	0.066	0.056	0.059	5.0
Mercury	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.2

Table 13. Results of Non-Standard TCLP Testing for Pesticides Using Dried Miami River Sediments [all data reported in mg/L)

Station ID:	E-MR99 Dry-1	E-MR99 Dry-1 Duplicate	E-MR99 Dry-2	E-MR99 Dry-3	E-MR99 Dry-4	E-MR99 Dry-5	TCLP Regulatory Level
PPB #:	175004	175005	175006	175007	175008	175009	
Chlordane	<0.000026	<0.000026	<0.000026	<0.000026	<0.000026	<0.000026	0.03
Endrin	<0.0000089	<0.0000089	<0.0000089	<0.0000089	<0.0000089	<0.0000089	0.02
gamma-BHC (Lindane)	<0.0000085	<0.0000085	<0.0000085	<0.0000085	<0.0000085	<0.0000085	0.4
Heptachlor	<0.000016	<0.000016	<0.000016	<0.000016	<0.000016	<0.000016	0.008
Methoxychlor	<0.0000037	<0.0000037	<0.0000037	<0.0000037	<0.0000037	<0.0000037	10.0
Toxaphene	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	<0.00014	0.5

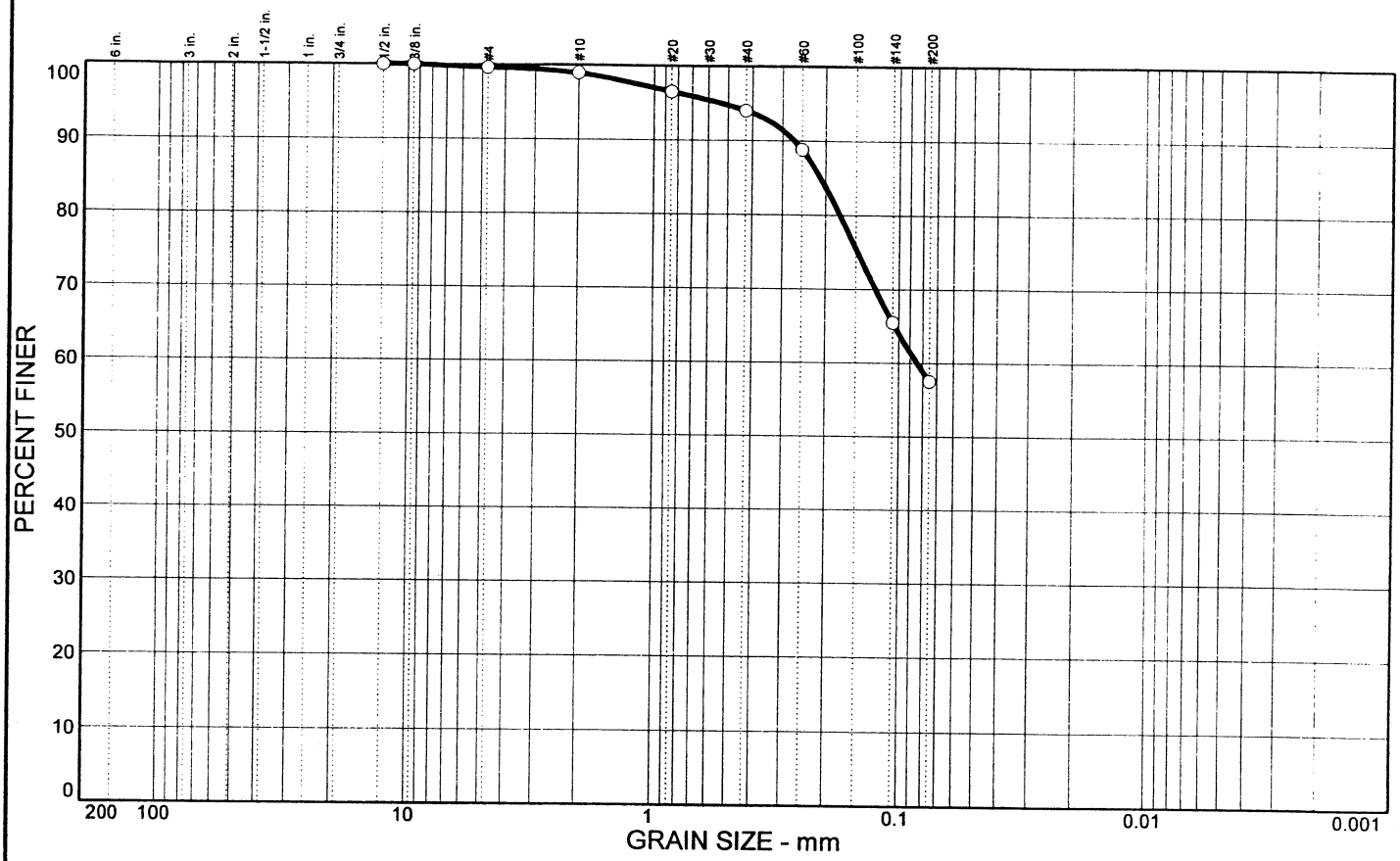
Table 14. Results of Metals Analyses for Elutriates from Sediments Collected at the Miami River on October 13 and 14, 1999

Station ID:	E-MR99EW-1	E-MR99EW-1 Duplicate	E-MR99EW-2	E-MR99EW-3	E-MR99EW-4	E-MR99EW-5
PPB #:	174997	174998	174999	175000	175001	175002
Arsenic (μg/L)	<5.0	<5.0	<5.0	6.9	12.9	<5.0
Barium (μg/L)	73.7	136	5.1	7.6	10.7	18.8
Cadmium (μg/L)	<0.20	0.42	<0.20	<0.20	<0.20	<0.20
Calcium (mg/L)	140	136	73.0	44.2	31.4	38.9
Chromium (μg/L)	2.0	<1.0	<1.0	<1.0	<1.0	<1.0
Copper (μg/L)	47.5	47.5	<1.0	43.7	36.1	32.3
Lead (μg/L)	3.9	<2.0	2.8	8.8	7.7	7.3
Magnesium (mg/L)	458	469	182	88.4	59.2	26.5
Mercury (μg/L)	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Selenium (μg/L)	<10	<10	<10	<10	<10	<10
Silver (μg/L)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Zinc (μg/L)	12.0	6.6	14.4	12.9	5.7	11.4

Table 15. Results of Pesticide and PCB Analyses for Elutriates from Sediments Collected at the Miami River, October 13 and 14, 1999 (all data reported as ug/L)

Station ID:	E-MR99EW-1	E-MR99EW-1 Duplicate	E-MR99EW-2	E-MR99EW-3	E-MR99EW-4	E-MR99EW-5
PPB ID:	174997	174998	174999	175000	175001	175002
Aldrin	**0.039**	<0.014	**0.018**	<0.014	<0.014	<0.014
alpha-BHC	**0.027**	<0.014	**0.18**	<0.014	<0.014	<0.014
beta-BHC	**0.050**	<0.016	<0.016	<0.016	<0.016	<0.016
delta-BHC	<0.0080	<0.0081	**0.25**	<0.0081	<0.0081	<0.0081
gamma-BHC (Lindane)	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085	<0.0085
Chlordane	<0.026	<0.026	<0.026	<0.026	<0.026	<0.026
4,4'-DDD	**0.076**	<0.0067	**0.17**	<0.0067	<0.0067	<0.0067
4,4'-DDE	**0.12**	<0.013	**0.073**	<0.013	<0.013	<0.013
4,4'-DDT	**0.073**	<0.0042	**0.13**	<0.0042	<0.0042	<0.0042
Dieldrin	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012
Endosulfan I	**0.018**	<0.012	**0.33**	<0.012	<0.012	<0.012
Endosulfan II	**0.056**	<0.0057	**0.66**	<0.0057	<0.0057	<0.0057
Endosulfan sulfate	**0.16**	<0.0057	**0.086**	<0.0057	<0.0057	<0.0057
Endrin	**0.026**	<0.0090	**0.12**	<0.0090	<0.0090	<0.0090
Endrin aldehyde	**0.26**	<0.0077	**0.43**	<0.0077	<0.0077	<0.0077
Heptachlor	**0.033**	<0.016	**0.10**	<0.016	<0.016	<0.016
Heptachlor epoxide	<0.010	<0.010	**0.073**	<0.010	<0.010	<0.010
Methoxychlor	**0.045**	<0.0037	**0.15**	<0.0037	<0.0037	<0.0037
Toxaphene	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
PCB-1016	<0.31	<0.32	**1.8**	<0.32	<0.32	<0.32
PCB-1221	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
PCB-1232	<0.46	<0.47	<0.46	<0.47	<0.47	<0.47
PCB-1242	<0.40	<0.41	<0.41	<0.41	<0.41	<0.41
PCB-1248	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
PCB-1254	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
PCB-1260	**1.1**	<0.21	**5.6**	<0.21	<0.21	<0.21

Grain Size Distribution Report



	% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY	USCS	AASHTO	PL	LL
○		0.4	42.1	57.5		ML	A-4(0)		

SIEVE inches size	PERCENT FINER ○		
.50	100.0		
.375	100.0		
GRAIN SIZE			
D_{60}	0.0841		
D_{30}			
D_{10}			
COEFFICIENTS			
C_c			
C_u			

SIEVE number size	PERCENT FINER ○		
#4	99.6		
#10	98.9		
#20	96.5		
#40	94.0		
#60	88.8		
#140	65.5		
#200	57.5		

SOIL DESCRIPTION

○ Brown Very Sandy SILT w/ some small shell

REMARKS:

○

○ Source: Station No. E-MR99S-1

Sample No.: PPB Sample No. 174279

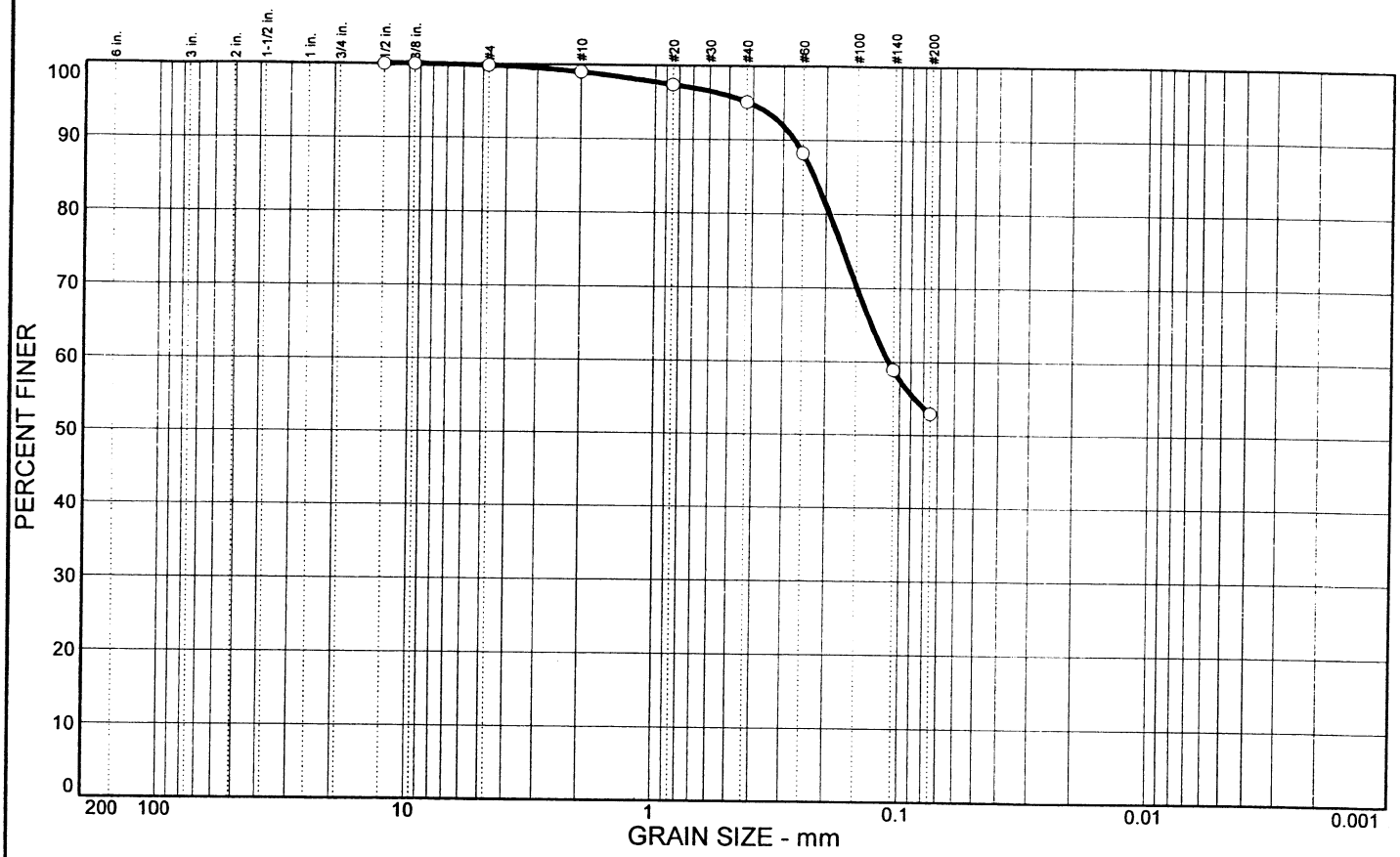
Law Engineering and Environmental Services, Inc.

Client: PPB Environmental Laboratories

Project: COE Miami River

Project No.: 40564-5-1484-15

Grain Size Distribution Report



	% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY	USCS	AASHTO	PL	LL
○		0.2	46.9	52.9		ML	A-4(0)		

SIEVE inches size	PERCENT FINER ○		
.50	100.0		
.375	100.0		
	GRAIN SIZE		
D_{60}	0.111		
D_{30}			
D_{10}			
	COEFFICIENTS		
C_c			
C_u			

SIEVE number size	PERCENT FINER ○		
#4	99.8		
#10	99.0		
#20	97.4		
#40	95.1		
#60	88.2		
#140	58.9		
#200	52.9		

SOIL DESCRIPTION

○ Brown Very Sandy SILT w/ some small shell

REMARKS:

○

○ Source: Station No. E-MR99S-1 Dup

Sample No.: PPB Sample No. 174280

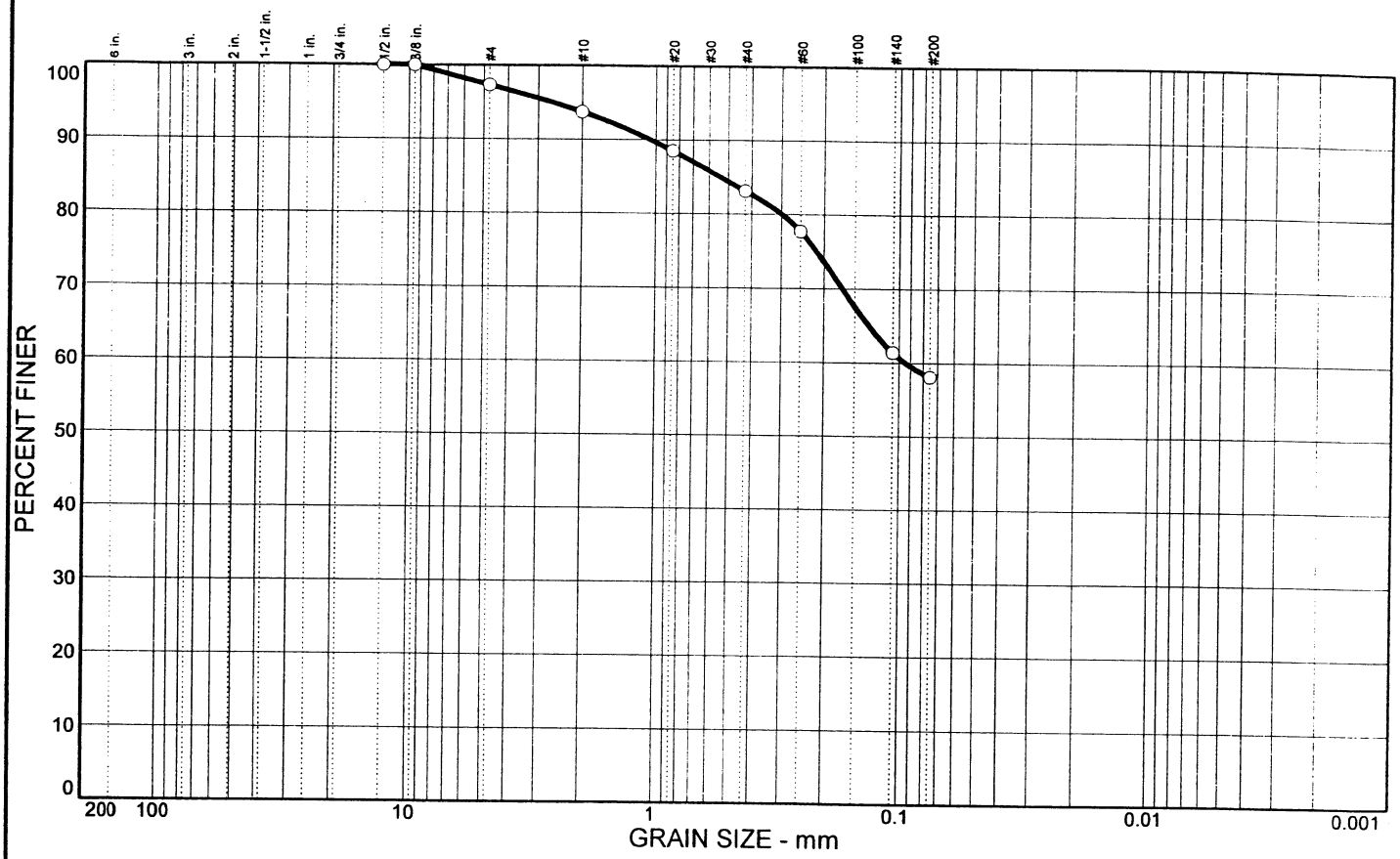
Law Engineering and Environmental Services, Inc.

Client: PPB Environmental Laboratories

Project: COE Miami River

Project No.: 40564-5-1484-15

Grain Size Distribution Report



	% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY	USCS	AASHTO	PL	LL
○		2.7	39.2	58.1		ML	A-4(0)		

SIEVE inches size	PERCENT FINER ○		
.50	100.0		
.375	100.0		
	GRAIN SIZE		
D_{60}	0.0940		
D_{30}			
D_{10}			
	COEFFICIENTS		
C_c			
C_u			

SIEVE number size	PERCENT FINER ○		
#4	97.3		
#10	93.7		
#20	88.5		
#40	83.1		
#60	77.7		
#140	61.4		
#200	58.1		

SOIL DESCRIPTION

○ Brown Very Sandy SILT w/ some small shell

REMARKS:

○

○ Source: Station No. E-MR99S-2

Sample No.: PPB Sample No. 174281

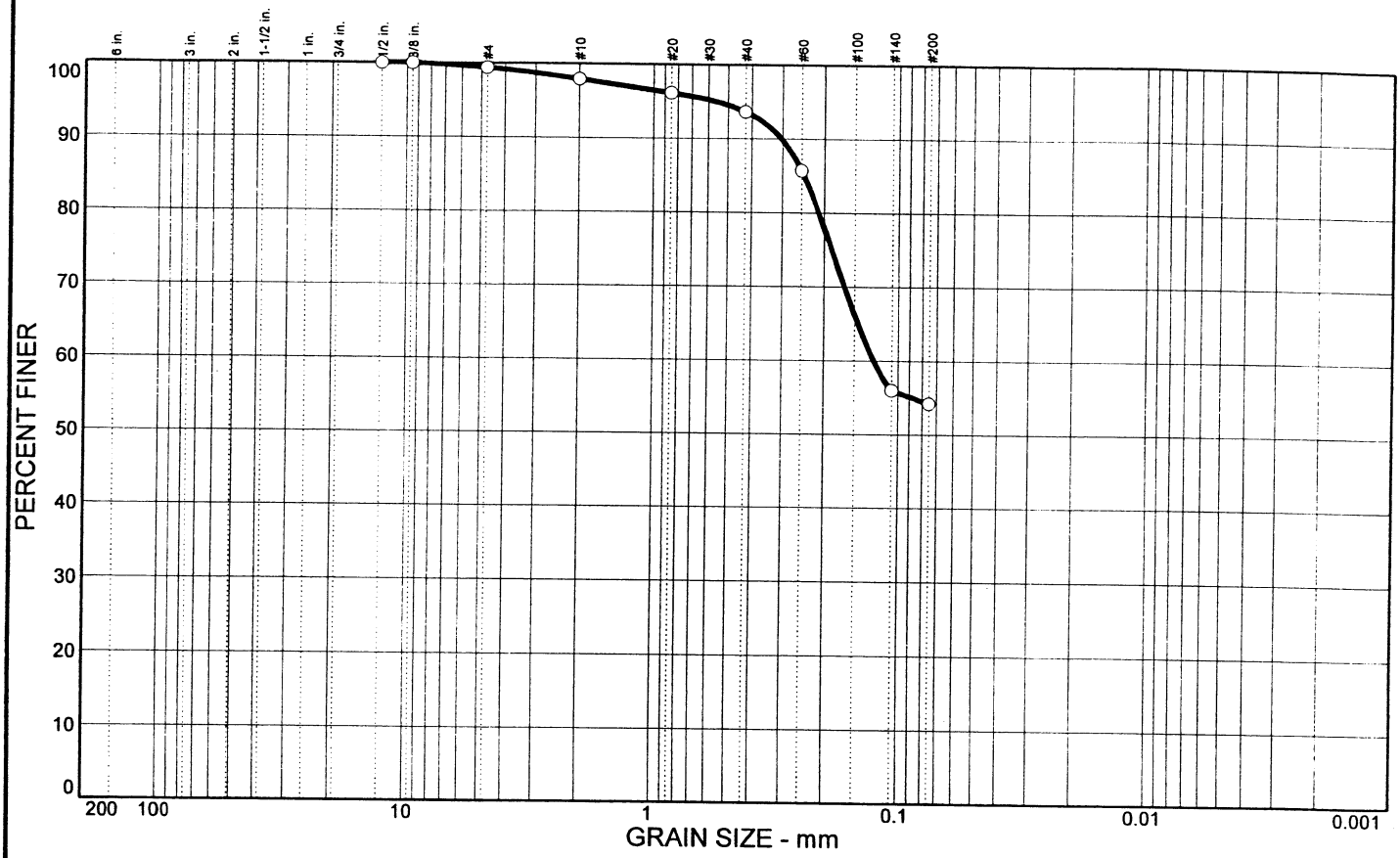
Law Engineering and Environmental Services, Inc.

Client: PPB Environmental Laboratories

Project: COE Miami River

Project No.: 40564-5-1484-15

Grain Size Distribution Report



	% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY	USCS	AASHTO	PL	LL
○		0.6	45.2	54.2		ML	A-4(0)		

SIEVE inches size	PERCENT FINER ○		
.50	100.0		
.375	100.0		
	GRAIN SIZE		
D_{60}	0.125		
D_{30}			
D_{10}			
	COEFFICIENTS		
C_c			
C_u			

SIEVE number size	PERCENT FINER ○		
#4	99.4		
#10	97.9		
#20	96.1		
#40	93.6		
#60	85.7		
#140	56.0		
#200	54.2		

SOIL DESCRIPTION

○ Brown Very Sandy SILT w/ some small shell

REMARKS:

○

○ Source: Station No. E-MR99S-3

Sample No.: PPB Sample No. 174284

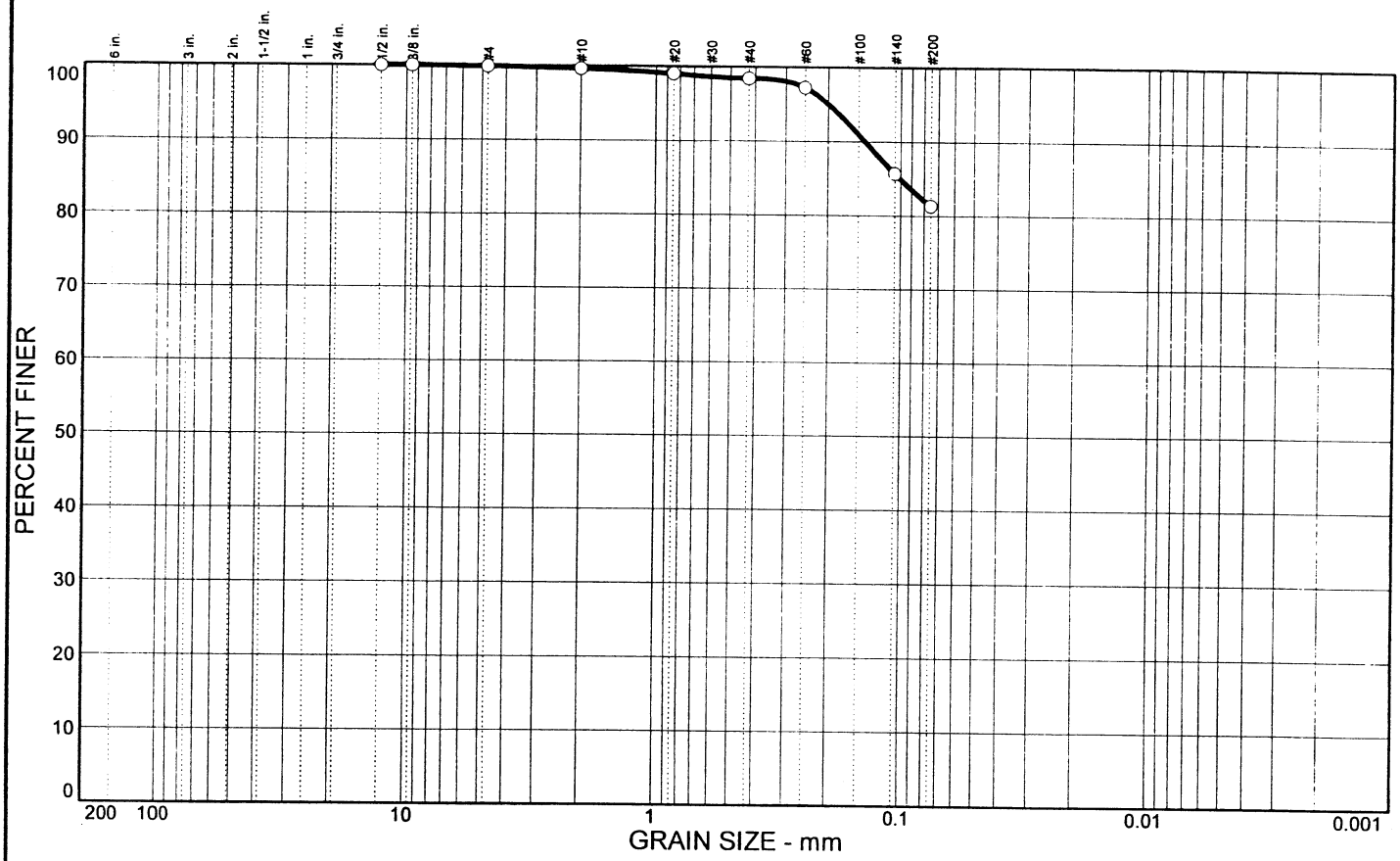
Law Engineering and Environmental Services, Inc.

Client: PPB Environmental Laboratories

Project: COE Miami River

Project No.: 40564-5-1484-15

Grain Size Distribution Report



	% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY	USCS	AASHTO	PL	LL
○		0.1	18.6	81.3		ML	A-4(0)		

SIEVE inches size	PERCENT FINER ○		
.50	100.0		
.375	100.0		
GRAIN SIZE			
D_{60}			
D_{30}			
D_{10}			
COEFFICIENTS			
C_c			
C_u			

SIEVE number size	PERCENT FINER ○		
#4	99.9		
#10	99.6		
#20	99.0		
#40	98.4		
#60	97.2		
#140	85.7		
#200	81.3		

SOIL DESCRIPTION

○ Brown Sandy SILT w/ some small shell

REMARKS:

○

○ Source: Station No. E-MR99S-4

Sample No.: PPB Sample No. 174282

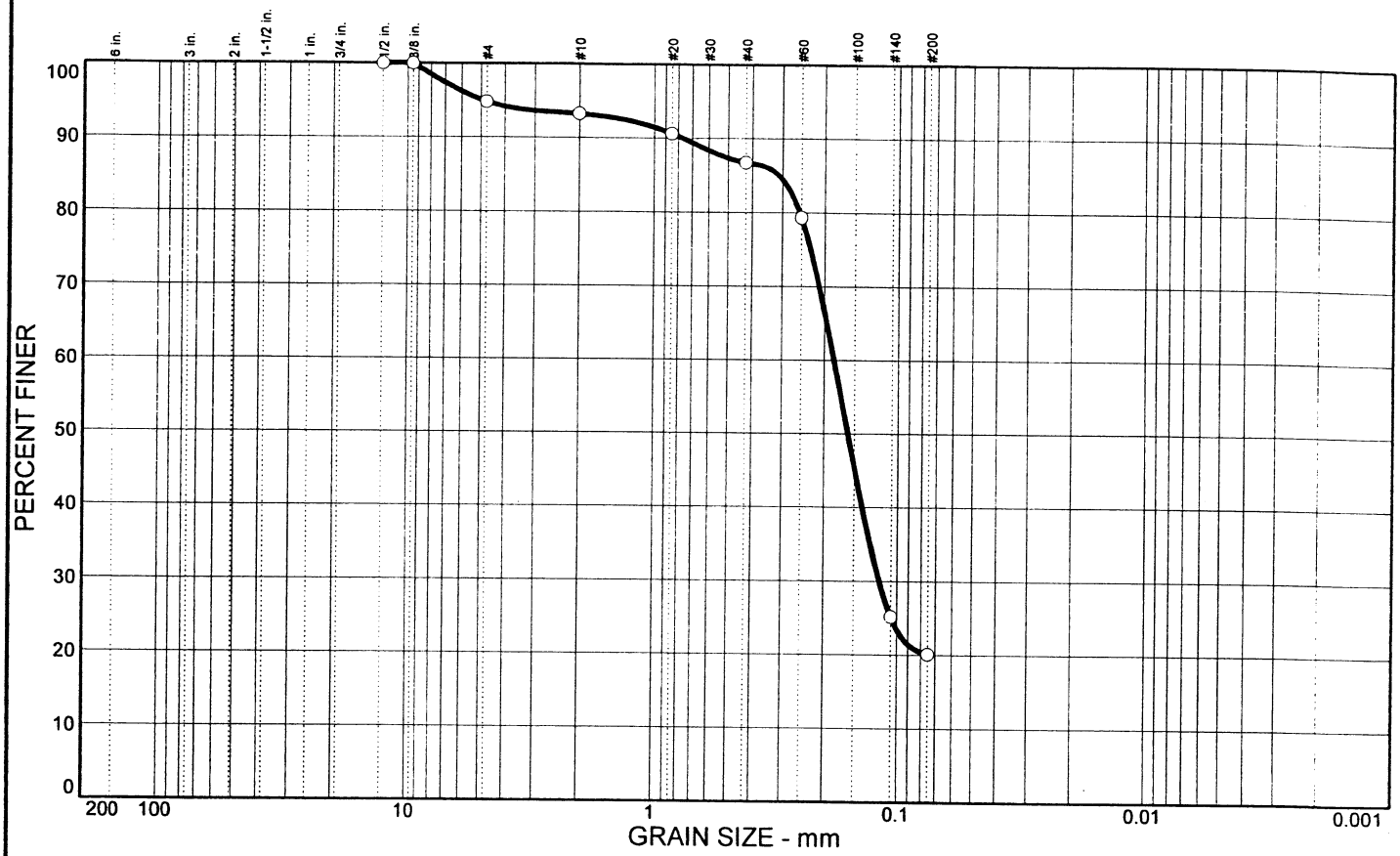
Law Engineering and Environmental Services, Inc.

Client: PPB Environmental Laboratories

Project: COE Miami River

Project No.: 40564-5-1484-15

Grain Size Distribution Report



	% COBBLES	% GRAVEL	% SAND	% SILT	% CLAY	USCS	AASHTO	PL	LL
○		5.2	74.7	20.1		SM	A-2-4(0)		

SIEVE inches size	PERCENT FINER ○		
.50	100.0		
.375	100.0		
	GRAIN SIZE		
D_{60}	0.182		
D_{30}	0.118		
D_{10}			
	COEFFICIENTS		
C_c			
C_u			

SIEVE number size	PERCENT FINER ○		
#4	94.8		
#10	93.2		
#20	90.6		
#40	86.7		
#60	79.3		
#140	25.2		
#200	20.1		

SOIL DESCRIPTION

○ Brown Silty Fine SAND w/ some small shell and rock

REMARKS:

○

○ Source: Station No. E-MR99S-5

Sample No.: PPB Sample No. 174283

Law Engineering and Environmental Services, Inc.

Client: PPB Environmental Laboratories

Project: COE Miami River

Project No.: 40564-5-1484-15