Appendix A
SAMPLING SITE FIELD NOTES, PARTICLE SIZE DISTRIBUTIONS, AND PHOTOGRAPHS

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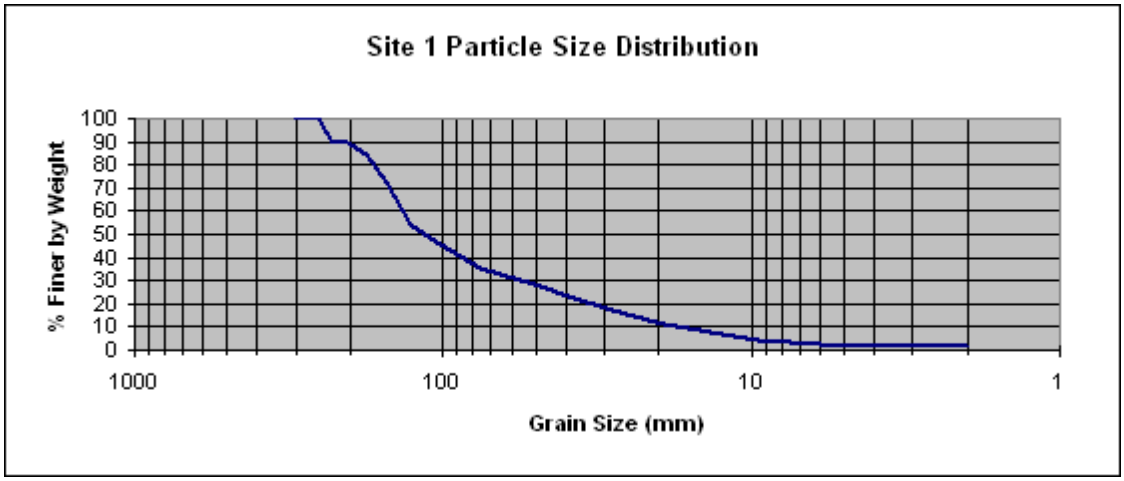
Sample Point: Site 1
Property: Merced Irrigation District
Date Sampled: 2/24/04
Depth of Sampling: 3.7 m
Groundwater Reached: yes
Elevation (top of pit): 91.4 m

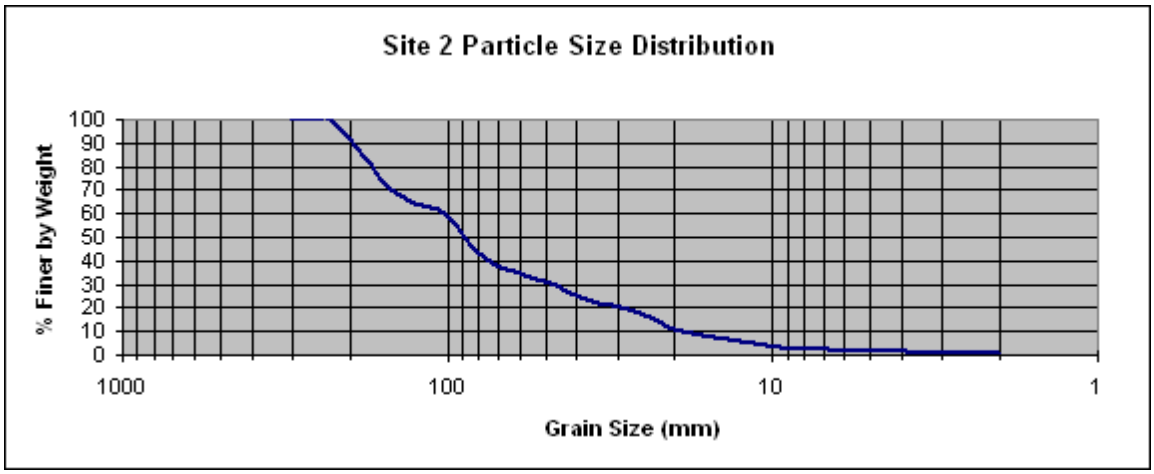
Notes:
A sandy layer starts at the depth of groundwater, approx. 3.7 m below ground surface



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	4.8	1.6	0.1063	0.0039
2–4.75	0.078–0.187	0.8	1.9	0.0176	0.0007
4.75–9.53	0.187–0.375	7.0	4.3	0.1474	0.0055
9.53–19.05	0.375–0.75	20.3	11.1	0.4268	0.0158
19.05–25.4	0.75–1	12.0	15.2	0.2530	0.0094
25.4–38.1	1–1.5	21.5	22.4	0.4510	0.0167
38.1–50.8	1.5–2	17.6	28.4	0.3696	0.0137
50.8–76.2	2–3	20.6	35.3	0.4334	0.0161
76.2–101.6	3–4	30.8	45.7	0.6476	0.0240
101.6–127	4–5	26.3	54.6	0.5524	0.0205
127–152.4	5–6	53.5	72.6	1.1238	0.0416
152.4–177.8	6–7	34.9	84.4	0.7333	0.0272
177.8–203.2	7–8	16.8	90.1	0.3524	0.0131
203.2–228.6	8–9	0.0	90.1	0.0000	0.0000
228.6–254	9–10	29.5	100.0	0.6190	0.0229
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**296.6**		**6.2336**	**0.2309**
				In-situ Equivalent Volume	**0.18**

Site 1 following sampling.

Sample Point: Site 2
Property: Merced Irrigation District
Date Sampled: 2/24/04
Depth of Sampling: 6.1 m
Groundwater Reached: no
Elevation (top of pit): 92.7 m

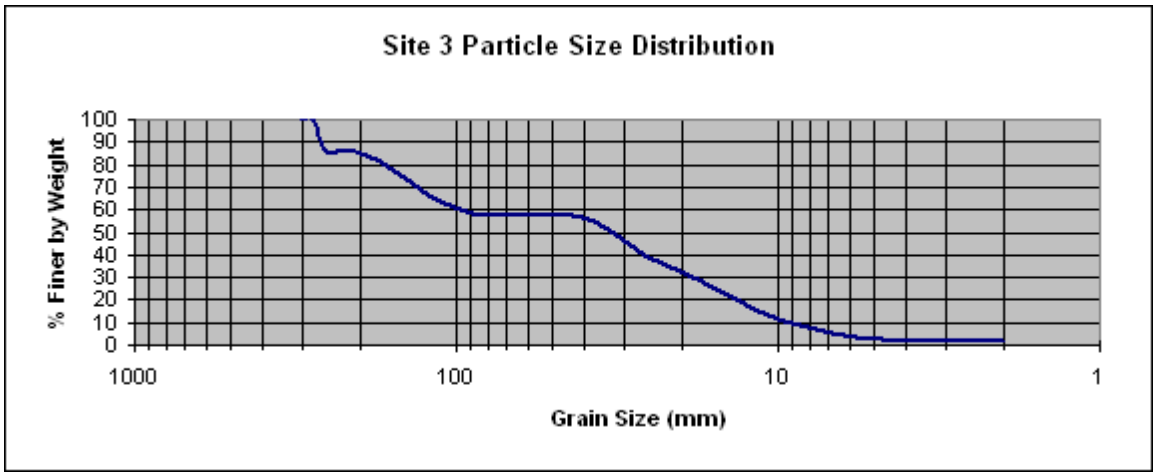


Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	2.9	1.1	0.0633	0.0023
2–4.75	0.078–0.187	1.5	1.7	0.0323	0.0012
4.75–9.53	0.187–0.375	5.1	3.8	0.1076	0.0040
9.53–19.05	0.375–0.75	16.8	10.4	0.3530	0.0131
19.05–25.4	0.75–1	18.1	17.6	0.3810	0.0141
25.4–38.1	1–1.5	16.4	24.1	0.3444	0.0128
38.1–50.8	1.5–2	17.9	31.3	0.3767	0.0140
50.8–76.2	2–3	23.7	40.6	0.4972	0.0184
76.2–101.6	3–4	46.3	59.0	0.9714	0.0360
101.6–127	4–5	12.7	64.0	0.2667	0.0099
127–152.4	5–6	17.2	70.9	0.3619	0.0134
152.4–177.8	6–7	30.4	82.9	0.6381	0.0236
177.8–203.2	7–8	24.0	92.4	0.5048	0.0187
203.2–228.6	8–9	19.1	100.0	0.4000	0.0148
228.6–254	9–10	0.0	100.0	0.0000	0.0000
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**252.2**		**5.2983**	**0.1962**
				In-situ Equivalent Volume	**0.15**

Site 2 prior to sampling.

Sample Point: Site 3
Property: Merced River Ranch
Date Sampled: 2/24/04
Depth of Sampling: 3.7 m
Groundwater Reached: yes
Elevation (top of pit): 89.6 m

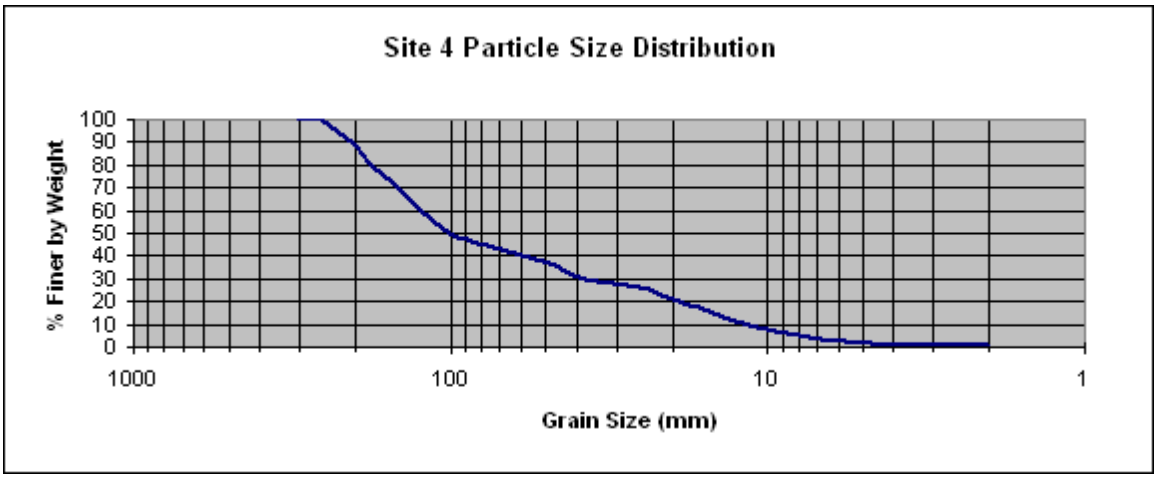
Notes:
A coarse sandy layer starts at the depth of groundwater, approximately 3.7 m below ground surface.



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	4.5	1.7	0.0996	0.0037
2–4.75	0.078–0.187	2.7	2.7	0.0569	0.0021
4.75–9.53	0.187–0.375	21.2	10.8	0.4458	0.0165
9.53–19.05	0.375–0.75	55.4	31.4	1.1383	0.0422
19.05–25.4	0.75–1	20.5	39.1	0.4300	0.0159
25.4–38.1	1–1.5	40.5	54.5	0.8506	0.0315
38.1–50.8	1.5–2	6.9	57.1	0.1454	0.0054
50.8–76.2	2–3	0.0	57.1	0.0000	0.0000
76.2–101.6	3–4	10.4	61.1	0.2190	0.0081
101.6–127	4–5	17.7	67.8	0.3714	0.0138
127–152.4	5–6	22.2	76.2	0.4667	0.0173
152.4–177.8	6–7	16.3	82.4	0.3429	0.0127
177.8–203.2	7–8	9.1	85.9	0.1905	0.0071
203.2–228.6	8–9	0.0	85.9	0.0000	0.0000
228.6–254	9–10	0.0	85.9	0.0000	0.0000
254–279.4	10–11	37.2	100.0	0.7810	0.0289
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**264.7**		**5.5381**	**0.2051**
				In-situ Equivalent Volume	**0.16**

No photograph of Site 3 available.

Sample Point: Site 4
Property: Merced River Ranch
Date Sampled: 2/24/04
Depth of Sampling: 4.0 m
Groundwater Reached: no
Elevation (top of pit): 89.0 m

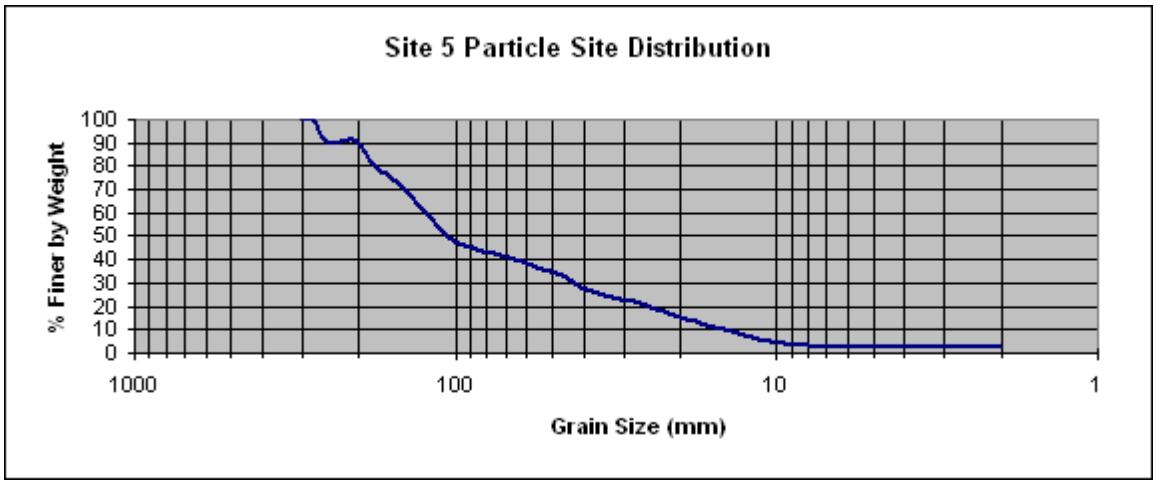


Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	1.8	0.7	0.0389	0.0014
2–4.75	0.078–0.187	1.8	1.4	0.0370	0.0014
4.75–9.53	0.187–0.375	13.4	6.9	0.2823	0.0105
9.53–19.05	0.375–0.75	32.5	20.2	0.6827	0.0253
19.05–25.4	0.75–1	14.1	25.9	0.2962	0.0110
25.4–38.1	1–1.5	9.8	29.9	0.2060	0.0076
38.1–50.8	1.5–2	20.2	38.1	0.4235	0.0157
50.8–76.2	2–3	16.6	44.9	0.3495	0.0129
76.2–101.6	3–4	11.8	49.7	0.2476	0.0092
101.6–127	4–5	27.7	61.0	0.5810	0.0215
127–152.4	5–6	25.9	71.5	0.5429	0.0201
152.4–177.8	6–7	20.0	79.7	0.4190	0.0155
177.8–203.2	7–8	23.1	89.1	0.4857	0.0180
203.2–228.6	8–9	13.2	94.5	0.2762	0.0102
228.6–254	9–10	13.6	100.0	0.2857	0.0106
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**245.4**		**5.1542**	**0.1909**
				In-situ Equivalent Volume	**0.15**

No photograph of Site 4 available.

Sample Point: Site 5
Property: Merced River Ranch
Date Sampled: 2/24/04
Depth of Sampling: 7.9 m
Groundwater Reached: no
Elevation (top of pit): 93.3 m

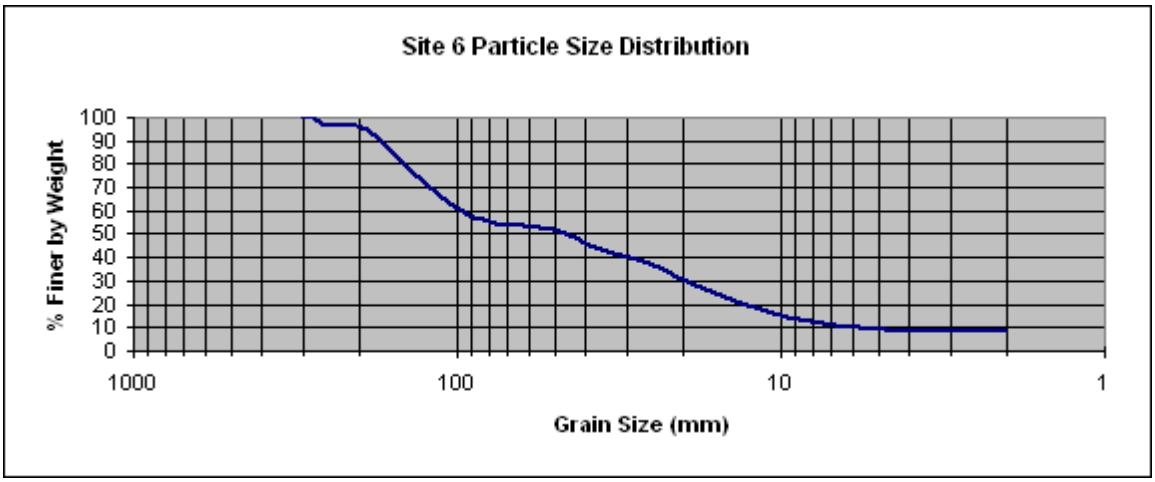
Notes:
Heterogenous mix of rock to a depth of 5.8 m. Layer of sand at 5.8 m to bottom of pit.



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	4.9	2.1	0.1085	0.0040
2–4.75	0.078–0.187	0.8	2.5	0.0165	0.0006
4.75–9.53	0.187–0.375	3.7	4.1	0.0785	0.0029
9.53–19.05	0.375–0.75	23.2	14.2	0.4877	0.0181
19.05–25.4	0.75–1	14.9	20.7	0.3121	0.0116
25.4–38.1	1–1.5	13.5	26.6	0.2831	0.0105
38.1–50.8	1.5–2	19.8	35.2	0.4154	0.0154
50.8–76.2	2–3	17.6	42.9	0.3699	0.0137
76.2–101.6	3–4	11.3	47.8	0.2381	0.0088
101.6–127	4–5	31.3	61.5	0.6571	0.0243
127–152.4	5–6	27.2	73.3	0.5714	0.0212
152.4–177.8	6–7	14.1	79.4	0.2952	0.0109
177.8–203.2	7–8	26.3	90.9	0.5524	0.0205
203.2–228.6	8–9	0.0	90.9	0.0000	0.0000
228.6–254	9–10	0.0	90.9	0.0000	0.0000
254–279.4	10–11	20.9	100.0	0.4381	0.0162
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**229.5**		**4.8242**	**0.1787**
				In-situ Equivalent Volume	**0.14**

No photograph of Site 5 available.

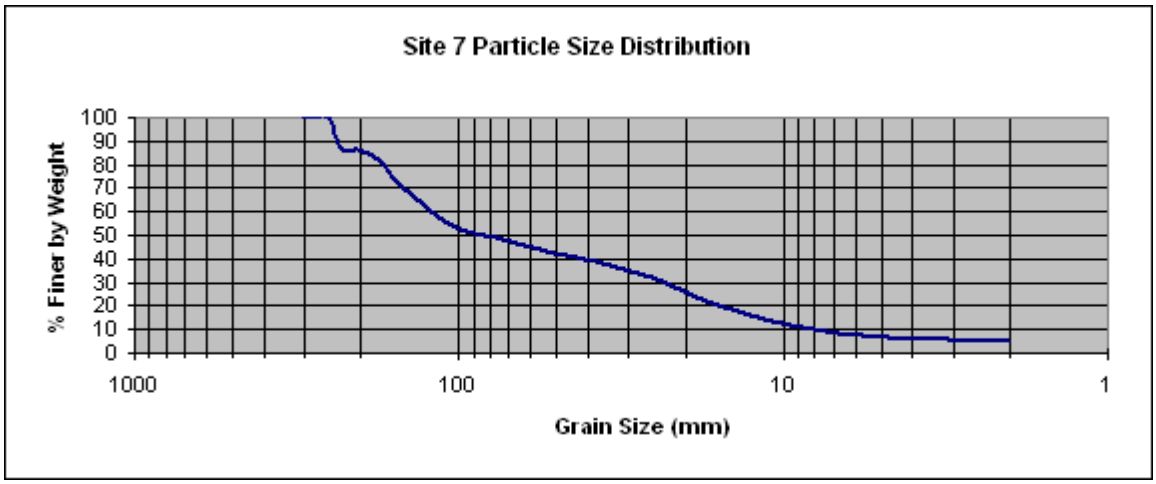
Sample Point: Site 6
Property: Merced River Ranch
Date Sampled: 2/25/04
Depth of Sampling: 4.6 m
Groundwater Reached: yes
Elevation (top of pit): 92.0 m



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	20.8	8.5	0.4586	0.0170
2–4.75	0.078–0.187	2.1	9.4	0.0448	0.0017
4.75–9.53	0.187–0.375	12.4	14.5	0.2604	0.0096
9.53–19.05	0.375–0.75	36.0	29.2	0.7560	0.0280
19.05–25.4	0.75–1	20.3	37.5	0.4256	0.0158
25.4–38.1	1–1.5	17.3	44.6	0.3640	0.0135
38.1–50.8	1.5–2	18.0	52.0	0.3780	0.0140
50.8–76.2	2–3	6.4	54.6	0.1344	0.0050
76.2–101.6	3–4	17.7	61.9	0.3714	0.0138
101.6–127	4–5	25.4	72.3	0.5333	0.0198
127–152.4	5–6	24.9	82.5	0.5238	0.0194
152.4–177.8	6–7	21.8	91.4	0.4571	0.0169
177.8–203.2	7–8	12.2	96.5	0.2571	0.0095
203.2–228.6	8–9	0.0	96.5	0.0000	0.0000
228.6–254	9–10	0.0	96.5	0.0000	0.0000
254–279.4	10–11	8.6	100.0	0.1810	0.0067
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		244.0		5.1456	0.1906
				In-situ Equivalent Volume	**0.14**

Site 6 during sampling.

Sample Point: Site 7
Property: Merced River Ranch
Date Sampled: 2/25/04
Depth of Sampling: 7.6 m
Groundwater Reached: no
Elevation (top of pit): 91.0 m

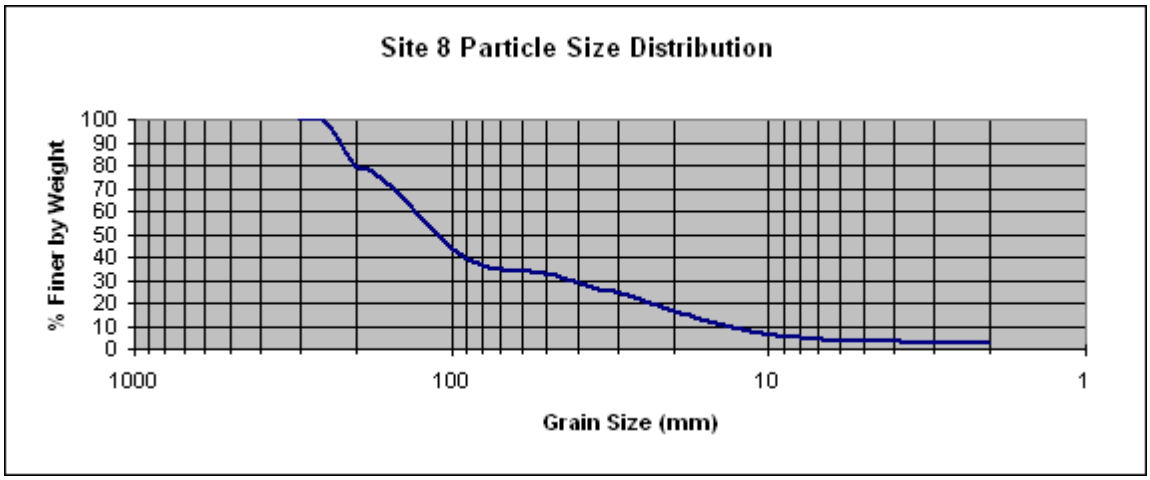


Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	14.1	5.4	0.3107	0.0115
2–4.75	0.078–0.187	3.6	6.8	0.0760	0.0028
4.75–9.53	0.187–0.375	14.0	12.1	0.2931	0.0109
9.53–19.05	0.375–0.75	32.1	24.4	0.6731	0.0249
19.05–25.4	0.75–1	19.9	32.0	0.4180	0.0155
25.4–38.1	1–1.5	17.3	38.6	0.3637	0.0135
38.1–50.8	1.5–2	10.7	42.7	0.2253	0.0083
50.8–76.2	2–3	17.6	49.4	0.3691	0.0137
76.2–101.6	3–4	10.0	53.2	0.2095	0.0078
101.6–127	4–5	24.9	62.7	0.5238	0.0194
127–152.4	5–6	23.1	71.6	0.4857	0.0180
152.4–177.8	6–7	26.8	81.8	0.5619	0.0208
177.8–203.2	7–8	11.3	86.1	0.2381	0.0088
203.2–228.6	8–9	0.0	86.1	0.0000	0.0000
228.6–254	9–10	36.3	100.0	0.7619	0.0282
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**261.7**		**5.5100**	**0.2041**
				In-situ Equivalent Volume	**0.16**

No photograph of Site 7 available.

Sample Point: Site 8
Property: Merced River Ranch
Date Sampled: 2/25/04
Depth of Sampling: 4.6 m
Groundwater Reached: no
Elevation (top of pit): 89.6 m

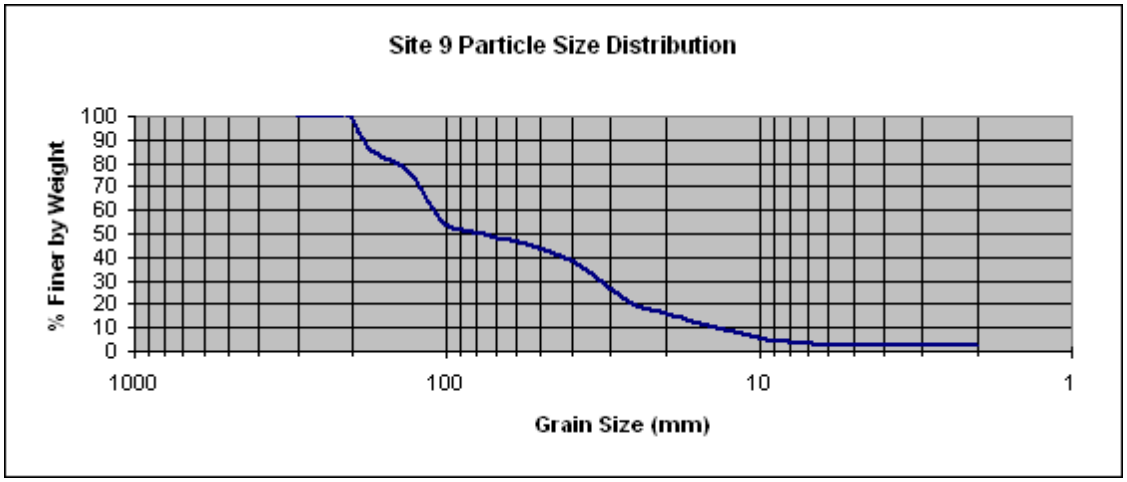
Notes:
Heterogeneous mix of rock to 3.4 m. Layer of sand from 3.4 m to 4.6 m below ground surface.



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	8.7	3.0	0.1918	0.0071
2–4.75	0.078–0.187	0.9	3.3	0.0191	0.0007
4.75–9.53	0.187–0.375	8.2	6.2	0.1720	0.0064
9.53–19.05	0.375–0.75	28.3	16.1	0.5947	0.0220
19.05–25.4	0.75–1	16.6	21.8	0.3483	0.0129
25.4–38.1	1–1.5	18.4	28.3	0.3865	0.0143
38.1–50.8	1.5–2	14.0	33.1	0.2931	0.0109
50.8–76.2	2–3	6.1	35.2	0.1274	0.0047
76.2–101.6	3–4	24.9	43.9	0.5238	0.0194
101.6–127	4–5	42.2	58.6	0.8857	0.0328
127–152.4	5–6	32.2	69.8	0.6762	0.0250
152.4–177.8	6–7	20.9	77.1	0.4381	0.0162
177.8–203.2	7–8	9.1	80.3	0.1905	0.0071
203.2–228.6	8–9	31.3	91.2	0.6571	0.0243
228.6–254	9–10	25.4	100.0	0.5333	0.0198
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**287.1**		**6.0377**	**0.2236**
				In-situ Equivalent Volume	**0.17**

Site 8 during sampling.

Sample Point: Site 9
Property: Merced River Ranch
Date Sampled: 2/25/04
Depth of Sampling: 3.7 m
Groundwater Reached: yes
Elevation (top of pit): 89.0 m

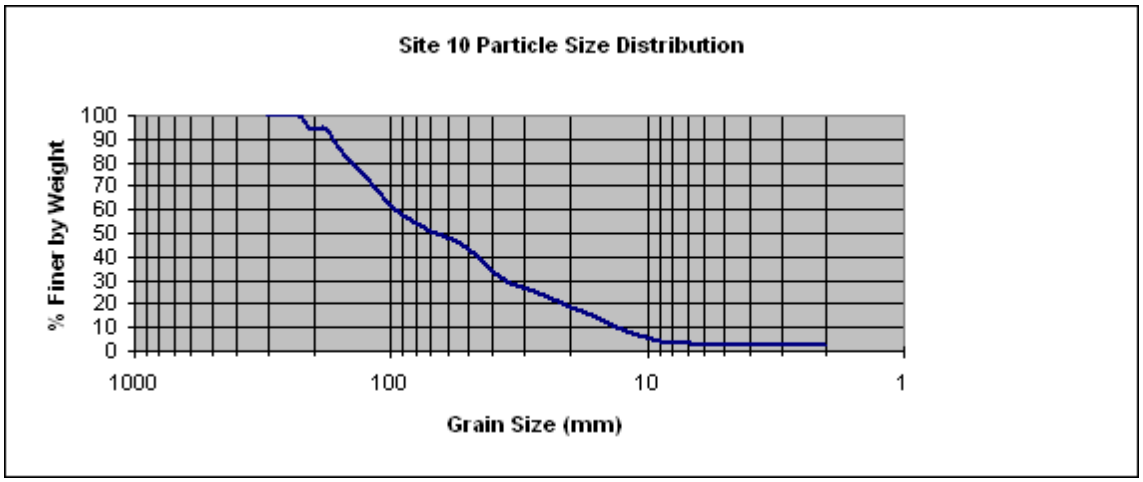


Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	5.3	2.4	0.1171	0.0043
2–4.75	0.078–0.187	0.8	2.8	0.0159	0.0006
4.75–9.53	0.187–0.375	5.3	5.2	0.1115	0.0041
9.53–19.05	0.375–0.75	22.4	15.5	0.4712	0.0175
19.05–25.4	0.75–1	10.9	20.6	0.2299	0.0085
25.4–38.1	1–1.5	33.8	36.1	0.7102	0.0263
38.1–50.8	1.5–2	16.5	43.7	0.3460	0.0128
50.8–76.2	2–3	13.3	49.8	0.2800	0.0104
76.2–101.6	3–4	9.5	54.2	0.2000	0.0074
101.6–127	4–5	43.1	74.0	0.9048	0.0335
127–152.4	5–6	15.4	81.0	0.3238	0.0120
152.4–177.8	6–7	10.9	86.0	0.2286	0.0085
177.8–203.2	7–8	30.4	100.0	0.6381	0.0236
203.2–228.6	8–9	0.0	100.0	0.0000	0.0000
228.6–254	9–10	0.0	100.0	0.0000	0.0000
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**217.7**		**4.5770**	**0.1695**
				In-situ Equivalent Volume	**0.13**

Site 9 following sampling.

Sample Point: Site 10
Property: Merced River Ranch
Date Sampled: 2/26/04
Depth of Sampling: 4.9 m
Groundwater Reached: yes
Elevation (top of pit): 89.6 m

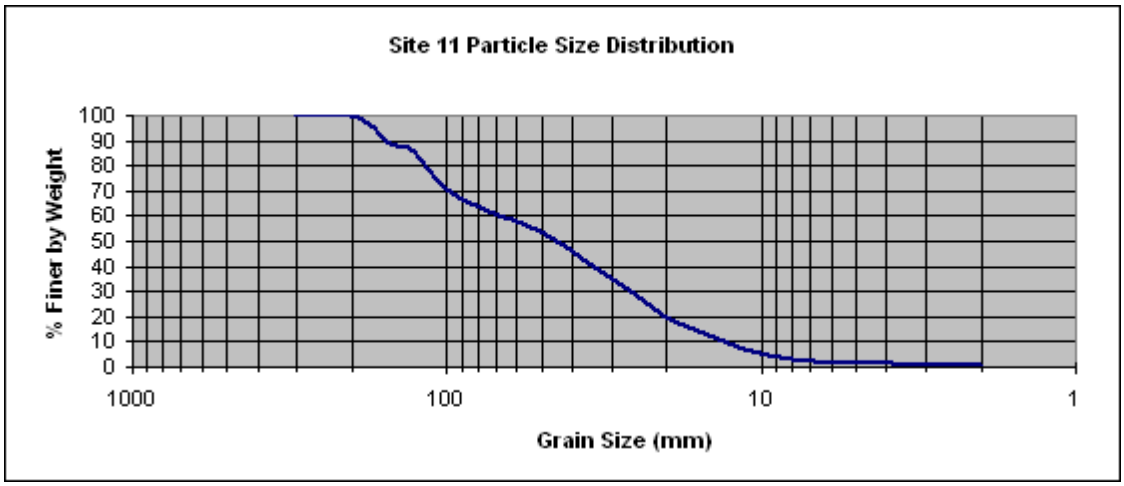
Notes:
Heterogeneous mix of rock to a depth of 4.3 m. Layer of silty sand between 4.3 to 4.9 m then groundwater at 4.9 m below ground surface.



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	4.9	2.2	0.1087	0.0040
2–4.75	0.078–0.187	0.5	2.4	0.0101	0.0004
4.75–9.53	0.187–0.375	6.4	5.2	0.1338	0.0050
9.53–19.05	0.375–0.75	28.7	18.0	0.6032	0.0223
19.05–25.4	0.75–1	13.5	24.0	0.2827	0.0105
25.4–38.1	1–1.5	16.3	31.3	0.3432	0.0127
38.1–50.8	1.5–2	28.0	43.8	0.5880	0.0218
50.8–76.2	2–3	21.9	53.5	0.4593	0.0170
76.2–101.6	3–4	20.4	62.6	0.4286	0.0159
101.6–127	4–5	26.8	74.5	0.5619	0.0208
127–152.4	5–6	20.0	83.4	0.4190	0.0155
152.4–177.8	6–7	23.1	93.7	0.4857	0.0180
177.8–203.2	7–8	0.0	93.7	0.0000	0.0000
203.2–228.6	8–9	14.1	100.0	0.2952	0.0109
228.6–254	9–10	0.0	100.0	0.0000	0.0000
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**224.5**		**4.7195**	**0.1748**
				In-situ Equivalent Volume	**0.13**

Site 10 during sampling.

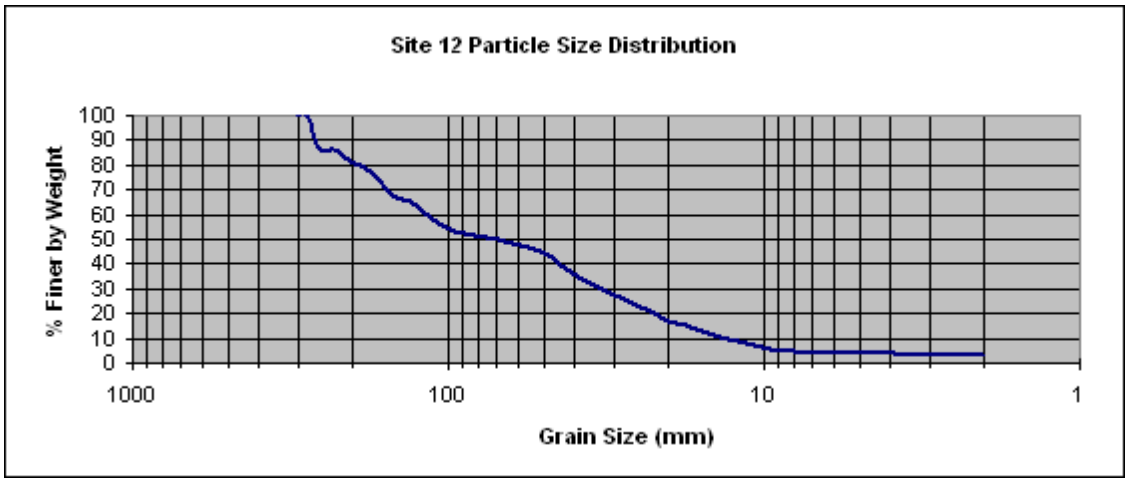
Sample Point: Site 11
Property: Merced River Ranch
Date Sampled: 2/26/04
Depth of Sampling: 5.8 m
Groundwater Reached: no
Elevation (top of pit): 91.2 m



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	2.2	1.1	0.0495	0.0018
2–4.75	0.078–0.187	0.5	1.3	0.0111	0.0004
4.75–9.53	0.187–0.375	7.4	4.8	0.1552	0.0057
9.53–19.05	0.375–0.75	28.5	18.3	0.5986	0.0222
19.05–25.4	0.75–1	23.8	29.5	0.4989	0.0185
25.4–38.1	1–1.5	30.1	43.7	0.6319	0.0234
38.1–50.8	1.5–2	21.5	53.8	0.4517	0.0167
50.8–76.2	2–3	18.0	62.3	0.3769	0.0140
76.2–101.6	3–4	19.5	71.5	0.4095	0.0152
101.6–127	4–5	30.4	85.9	0.6381	0.0236
127–152.4	5–6	6.4	88.9	0.1333	0.0049
152.4–177.8	6–7	17.2	97.0	0.3619	0.0134
177.8–203.2	7–8	6.4	100.0	0.1333	0.0049
203.2–228.6	8–9	0.0	100.0	0.0000	0.0000
228.6–254	9–10	0.0	100.0	0.0000	0.0000
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**211.8**		**4.4500**	**0.1648**
				In-situ Equivalent Volume	**0.13**

Site 11 during sampling.

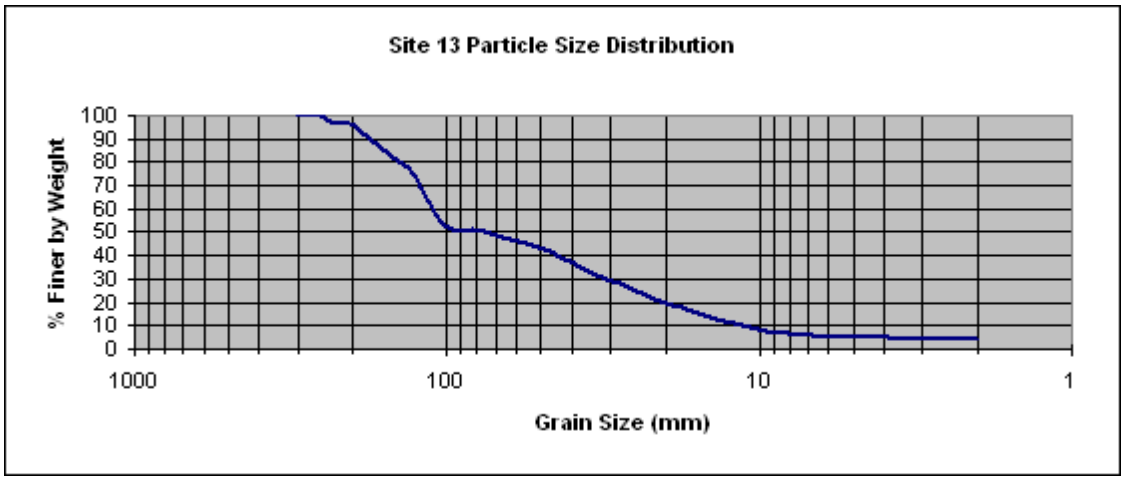
Sample Point: Site 12
Property: Merced River Ranch
Date Sampled: 2/26/04
Depth of Sampling: 5.5 m
Groundwater Reached: no
Elevation (top of pit): 91.9 m



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	9.8	3.4	0.2157	0.0080
2–4.75	0.078–0.187	0.9	3.7	0.0184	0.0007
4.75–9.53	0.187–0.375	6.4	5.9	0.1349	0.0050
9.53–19.05	0.375–0.75	30.2	16.4	0.6348	0.0235
19.05–25.4	0.75–1	19.1	23.0	0.4017	0.0149
25.4–38.1	1–1.5	32.0	34.1	0.6716	0.0249
38.1–50.8	1.5–2	33.0	45.5	0.6931	0.0257
50.8–76.2	2–3	14.6	50.5	0.3067	0.0114
76.2–101.6	3–4	12.7	54.9	0.2667	0.0099
101.6–127	4–5	25.9	63.9	0.5429	0.0201
127–152.4	5–6	14.1	68.8	0.2952	0.0109
152.4–177.8	6–7	24.5	77.2	0.5143	0.0190
177.8–203.2	7–8	12.7	81.6	0.2667	0.0099
203.2–228.6	8–9	12.7	86.0	0.2667	0.0099
228.6–254	9–10	0.0	86.0	0.0000	0.0000
254–279.4	10–11	40.4	100.0	0.8476	0.0314
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**288.9**		**6.0769**	**0.2251**
				In-situ Equivalent Volume	**0.17**

Site 12 during sampling.

Sample Point: Site 13
Property: Merced River Ranch
Date Sampled: 2/26/04
Depth of Sampling: 5.5 m
Groundwater Reached: no
Elevation (top of pit): 93.4 m

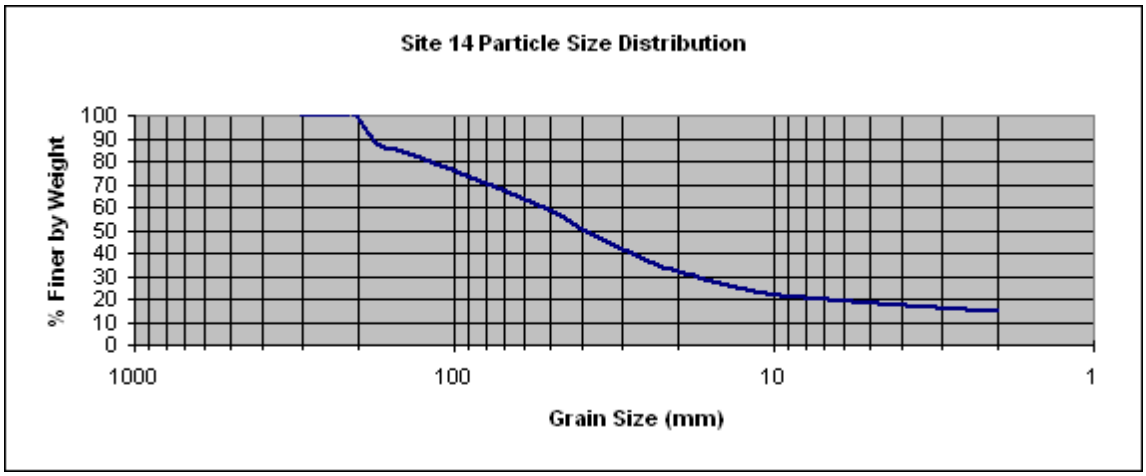


Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	11.8	4.5	0.2601	0.0096
2–4.75	0.078–0.187	2.0	5.3	0.0413	0.0015
4.75–9.53	0.187–0.375	6.7	7.8	0.1404	0.0052
9.53–19.05	0.375–0.75	27.8	18.5	0.5835	0.0216
19.05–25.4	0.75–1	19.3	25.9	0.4046	0.0150
25.4–38.1	1–1.5	23.9	35.0	0.5009	0.0186
38.1–50.8	1.5–2	21.6	43.3	0.4541	0.0168
50.8–76.2	2–3	18.1	50.3	0.3798	0.0141
76.2–101.6	3–4	7.3	53.0	0.1524	0.0056
101.6–127	4–5	56.7	74.8	1.1905	0.0441
127–152.4	5–6	21.8	83.1	0.4571	0.0169
152.4–177.8	6–7	19.1	90.4	0.4000	0.0148
177.8–203.2	7–8	15.4	96.3	0.3238	0.0120
203.2–228.6	8–9	0.0	96.3	0.0000	0.0000
228.6–254	9–10	9.5	100.0	0.2000	0.0074
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**260.8**		**5.4886**	**0.2033**
				In-situ Equivalent Volume	**0.15**

Site 13 during sampling.

Sample Point: Site 14
Property: Collins
Date Sampled: 2/27/04
Depth of Sampling: 4.3 m
Groundwater Reached: yes
Elevation (top of pit): 86.6 m

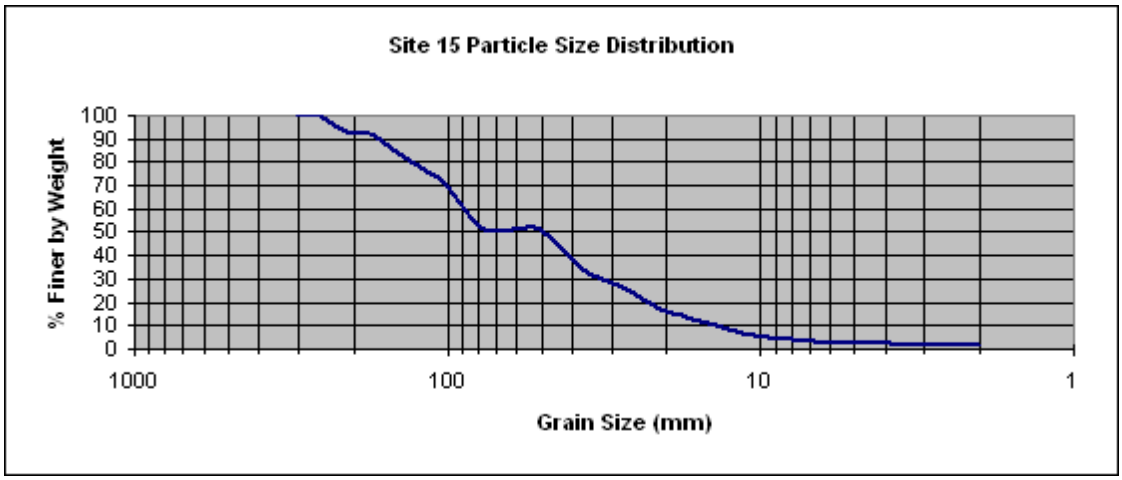
Notes:
Large amount of soil mixed with rock starting at depth of 3.7 m.



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	36.3	14.9	0.8004	0.0296
2–4.75	0.078–0.187	7.1	17.9	0.1496	0.0055
4.75–9.53	0.187–0.375	9.8	21.9	0.2066	0.0077
9.53–19.05	0.375–0.75	23.6	31.6	0.4951	0.0183
19.05–25.4	0.75–1	14.1	37.4	0.2956	0.0109
25.4–38.1	1–1.5	26.6	48.4	0.5592	0.0207
38.1–50.8	1.5–2	26.6	59.3	0.5592	0.0207
50.8–76.2	2–3	25.4	69.8	0.5343	0.0198
76.2–101.6	3–4	15.4	76.1	0.3238	0.0120
101.6–127	4–5	14.5	82.1	0.3048	0.0113
127–152.4	5–6	7.7	85.3	0.1619	0.0060
152.4–177.8	6–7	8.6	88.8	0.1810	0.0067
177.8–203.2	7–8	27.2	100.0	0.5714	0.0212
203.2–228.6	8–9	0.0	100.0	0.0000	0.0000
228.6–254	9–10	0.0	100.0	0.0000	0.0000
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**243.1**		**5.1429**	**0.1905**
				In-situ Equivalent Volume	**0.14**

Site 14 following sampling

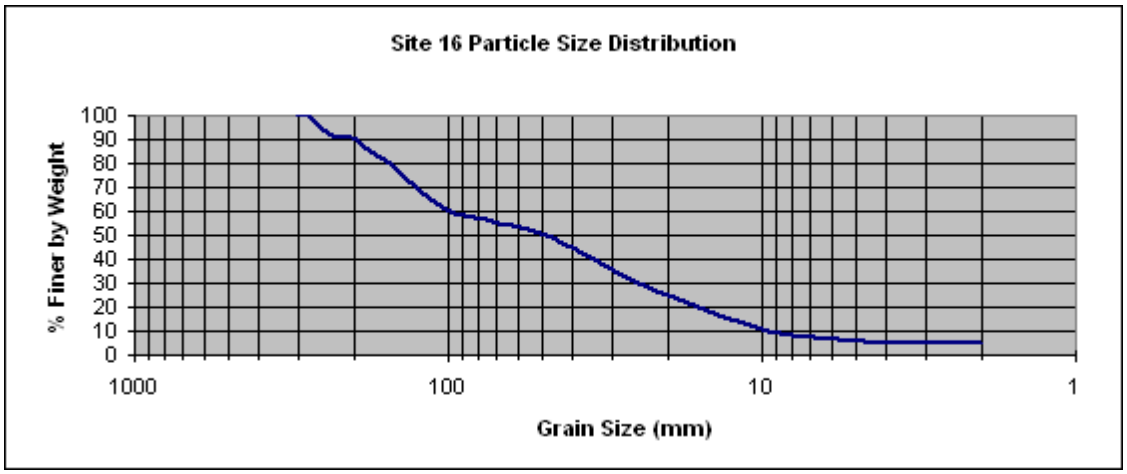
Sample Point: Site 15
Property: Collins
Date Sampled: 2/27/04
Depth of Sampling: 4.6 m
Groundwater Reached: no
Elevation (top of pit): 88.9 m



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	5.3	2.0	0.1158	0.0043
2–4.75	0.078–0.187	1.1	2.4	0.0226	0.0008
4.75–9.53	0.187–0.375	6.3	4.8	0.1329	0.0049
9.53–19.05	0.375–0.75	27.1	15.0	0.5685	0.0211
19.05–25.4	0.75–1	23.7	24.0	0.4978	0.0184
25.4–38.1	1–1.5	28.3	34.7	0.5940	0.0220
38.1–50.8	1.5–2	43.0	50.9	0.9023	0.0334
50.8–76.2	2–3	0.0	50.9	0.0000	0.0000
76.2–101.6	3–4	51.7	70.5	1.0857	0.0402
101.6–127	4–5	23.6	79.4	0.4952	0.0183
127–152.4	5–6	17.2	85.9	0.3619	0.0134
152.4–177.8	6–7	16.3	92.1	0.3429	0.0127
177.8–203.2	7–8	0.0	92.1	0.0000	0.0000
203.2–228.6	8–9	9.1	95.5	0.1905	0.0071
228.6–254	9–10	11.8	100.0	0.2476	0.0092
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**264.4**		**5.5579**	**0.2058**
				In-situ Equivalent Volume	**0.16**

Site 15 during sampling.

Sample Point: Site 16
Property: Collins
Date Sampled: 2/27/04
Depth of Sampling: 3.0 m
Groundwater Reached: yes
Elevation (top of pit): 86.6 m

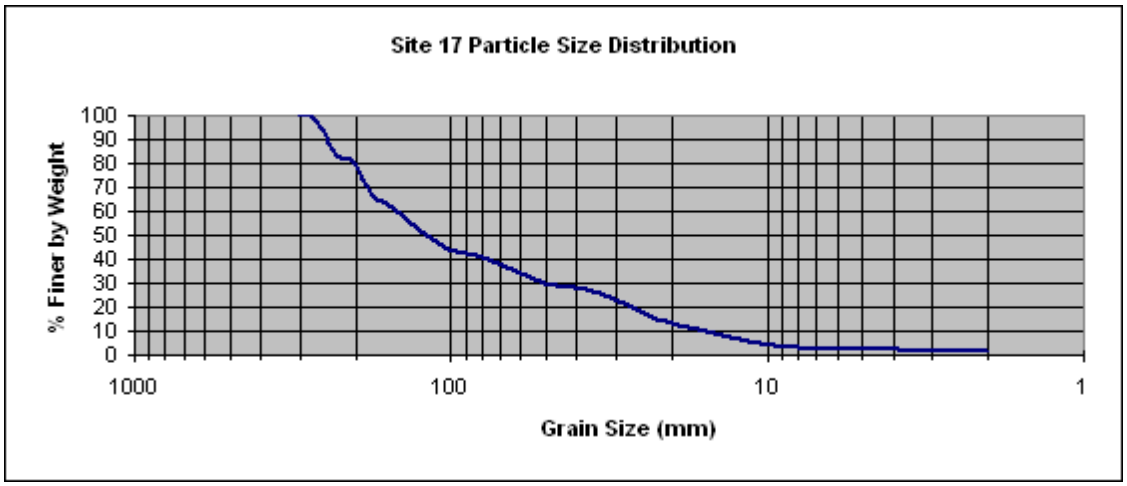


Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	14.2	5.2	0.3137	0.0116
2–4.75	0.078–0.187	2.0	5.9	0.0422	0.0016
4.75–9.53	0.187–0.375	10.7	9.8	0.2241	0.0083
9.53–19.05	0.375–0.75	39.3	24.2	0.8249	0.0306
19.05–25.4	0.75–1	19.0	31.1	0.3995	0.0148
25.4–38.1	1–1.5	31.6	42.6	0.6625	0.0245
38.1–50.8	1.5–2	22.0	50.6	0.4612	0.0171
50.8–76.2	2–3	15.9	56.5	0.3345	0.0124
76.2–101.6	3–4	12.7	61.1	0.2667	0.0099
101.6–127	4–5	24.5	70.0	0.5143	0.0190
127–152.4	5–6	27.2	80.0	0.5714	0.0212
152.4–177.8	6–7	13.2	84.8	0.2762	0.0102
177.8–203.2	7–8	16.3	90.7	0.3429	0.0127
203.2–228.6	8–9	0.0	90.7	0.0000	0.0000
228.6–254	9–10	11.3	94.9	0.2381	0.0088
254–279.4	10–11	14.1	100.0	0.2952	0.0109
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**274.0**		**5.7673**	**0.2136**
				In-situ Equivalent Volume	**0.16**

Site 16 following sampling.

Sample Point: Site 17
Property: Gold River Ranch
Date Sampled: 2/27/04
Depth of Sampling: 5.5 m
Groundwater Reached: no
Elevation (top of pit): 88.1 m

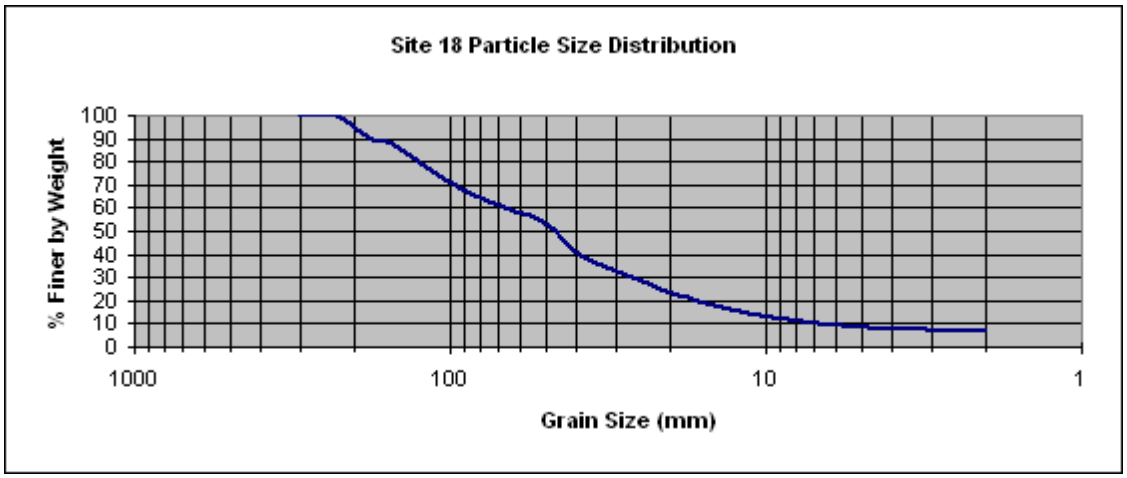
Notes:
Heterogeneous mix of rock to depth of 4.6 m. Layer of sand started at 4.6 m below ground surface.



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	4.7	2.0	0.1040	0.0039
2–4.75	0.078–0.187	0.7	2.3	0.0155	0.0006
4.75–9.53	0.187–0.375	4.3	4.2	0.0894	0.0033
9.53–19.05	0.375–0.75	19.5	12.5	0.4099	0.0152
19.05–25.4	0.75–1	13.6	18.4	0.2856	0.0106
25.4–38.1	1–1.5	21.9	27.8	0.4605	0.0171
38.1–50.8	1.5–2	4.7	29.8	0.0991	0.0037
50.8–76.2	2–3	23.0	39.7	0.4838	0.0179
76.2–101.6	3–4	10.9	44.4	0.2286	0.0085
101.6–127	4–5	18.1	52.1	0.3810	0.0141
127–152.4	5–6	23.1	62.1	0.4857	0.0180
152.4–177.8	6–7	10.9	66.7	0.2286	0.0085
177.8–203.2	7–8	30.4	79.8	0.6381	0.0236
203.2–228.6	8–9	7.7	83.1	0.1619	0.0060
228.6–254	9–10	24.9	93.8	0.5238	0.0194
254–279.4	10–11	14.5	100.0	0.3048	0.0113
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**233.1**		**4.9002**	**0.1815**
				In-situ Equivalent Volume	**0.14**

Site 17 following sampling.

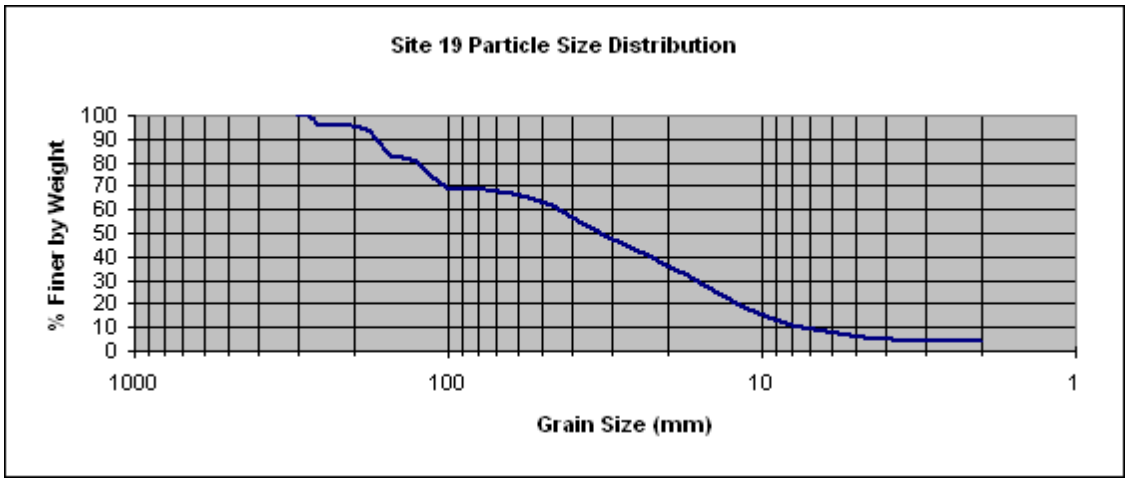
Sample Point: Site 18
Property: Gold River Ranch
Date Sampled: 2/27/04
Depth of Sampling: 4.6 m
Groundwater Reached: no
Elevation (top of pit): No data



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	20.9	7.3	0.4617	0.0171
2–4.75	0.078–0.187	4.3	8.8	0.0910	0.0034
4.75–9.53	0.187–0.375	10.8	12.5	0.2274	0.0084
9.53–19.05	0.375–0.75	28.7	22.5	0.6027	0.0223
19.05–25.4	0.75–1	19.0	29.1	0.3980	0.0147
25.4–38.1	1–1.5	28.7	39.0	0.6027	0.0223
38.1–50.8	1.5–2	44.0	54.3	0.9249	0.0343
50.8–76.2	2–3	24.0	62.7	0.5041	0.0187
76.2–101.6	3–4	26.8	72.0	0.5619	0.0208
101.6–127	4–5	23.1	80.0	0.4857	0.0180
127–152.4	5–6	23.1	88.0	0.4857	0.0180
152.4–177.8	6–7	4.5	89.6	0.0952	0.0035
177.8–203.2	7–8	18.1	95.9	0.3810	0.0141
203.2–228.6	8–9	11.8	100.0	0.2476	0.0092
228.6–254	9–10	0.0	100.0	0.0000	0.0000
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**288.0**		**6.0696**	**0.2248**
				In-situ Equivalent Volume	**0.2**

No photograph of Site 18 available.

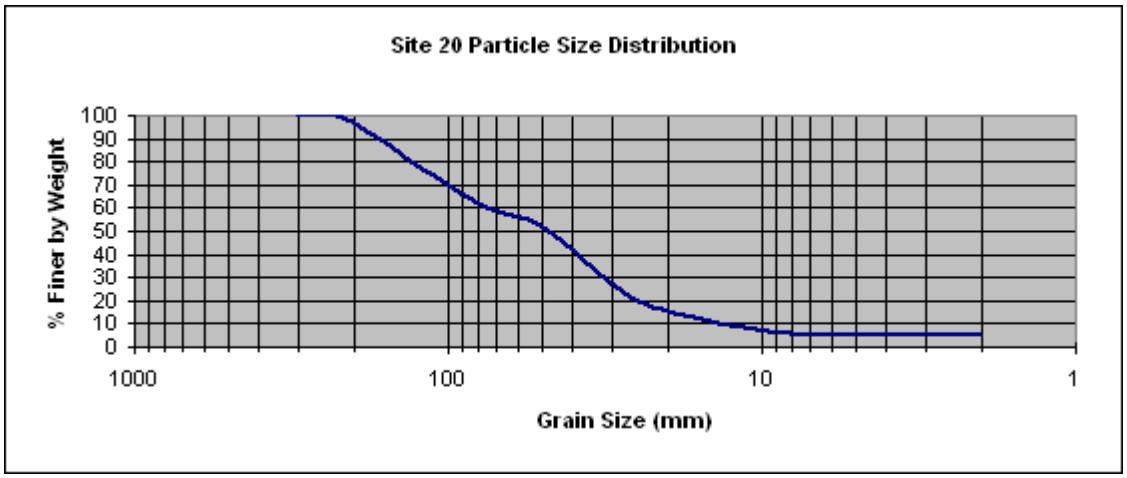
Sample Point: Site 19
Property: Gold River Ranch
Date Sampled: 2/27/04
Depth of Sampling: 4.3 m
Groundwater Reached: yes
Elevation (top of pit): No data



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	11.1	4.2	0.2452	0.0091
2–4.75	0.078–0.187	4.4	5.8	0.0919	0.0034
4.75–9.53	0.187–0.375	22.6	14.3	0.4747	0.0176
9.53–19.05	0.375–0.75	54.2	34.6	1.1371	0.0421
19.05–25.4	0.75–1	23.0	43.2	0.4824	0.0179
25.4–38.1	1–1.5	29.7	54.4	0.6241	0.0231
38.1–50.8	1.5–2	24.8	63.7	0.5207	0.0193
50.8–76.2	2–3	12.6	68.4	0.2642	0.0098
76.2–101.6	3–4	2.7	69.4	0.0571	0.0021
101.6–127	4–5	29.5	80.4	0.6190	0.0229
127–152.4	5–6	7.3	83.2	0.1524	0.0056
152.4–177.8	6–7	25.9	92.9	0.5429	0.0201
177.8–203.2	7–8	7.3	95.6	0.1524	0.0056
203.2–228.6	8–9	0.0	95.6	0.0000	0.0000
228.6–254	9–10	0.0	95.6	0.0000	0.0000
254–279.4	10–11	11.8	100.0	0.2476	0.0092
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**266.7**		**5.6117**	**0.2078**
				In-situ Equivalent Volume	**0.16**

Site 19 during sampling.

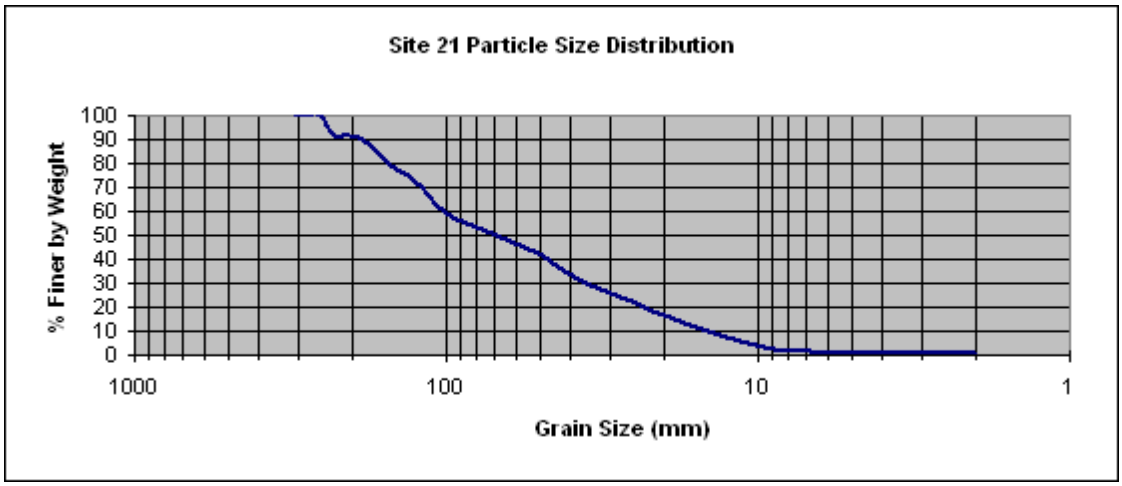
Sample Point: Site 20
Property: Hardin
Date Sampled: 2/28/04
Depth of Sampling: 5.5 m
Groundwater Reached: yes
Elevation (top of pit): 74.4 m



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	13.2	4.9	0.2900	0.0107
2–4.75	0.078–0.187	1.1	5.3	0.0239	0.0009
4.75–9.53	0.187–0.375	4.4	6.9	0.0921	0.0034
9.53–19.05	0.375–0.75	20.6	14.6	0.4330	0.0160
19.05–25.4	0.75–1	16.6	20.7	0.3478	0.0129
25.4–38.1	1–1.5	46.0	37.7	0.9649	0.0357
38.1–50.8	1.5–2	39.9	52.5	0.8387	0.0311
50.8–76.2	2–3	20.6	60.2	0.4330	0.0160
76.2–101.6	3–4	27.7	70.4	0.5810	0.0215
101.6–127	4–5	22.2	78.7	0.4667	0.0173
127–152.4	5–6	23.1	87.2	0.4857	0.0180
152.4–177.8	6–7	14.1	92.4	0.2952	0.0109
177.8–203.2	7–8	13.6	97.5	0.2857	0.0106
203.2–228.6	8–9	6.8	100.0	0.1429	0.0053
228.6–254	9–10	0.0	100.0	0.0000	0.0000
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**269.9**		**5.6805**	**0.2104**
				In-situ Equivalent Volume	**0.16**

Site 20 during sampling.

Sample Point: Site 21
Property: Hardin
Date Sampled: 2/28/04
Depth of Sampling: 5.8 m
Groundwater Reached: no
Elevation (top of pit): No data

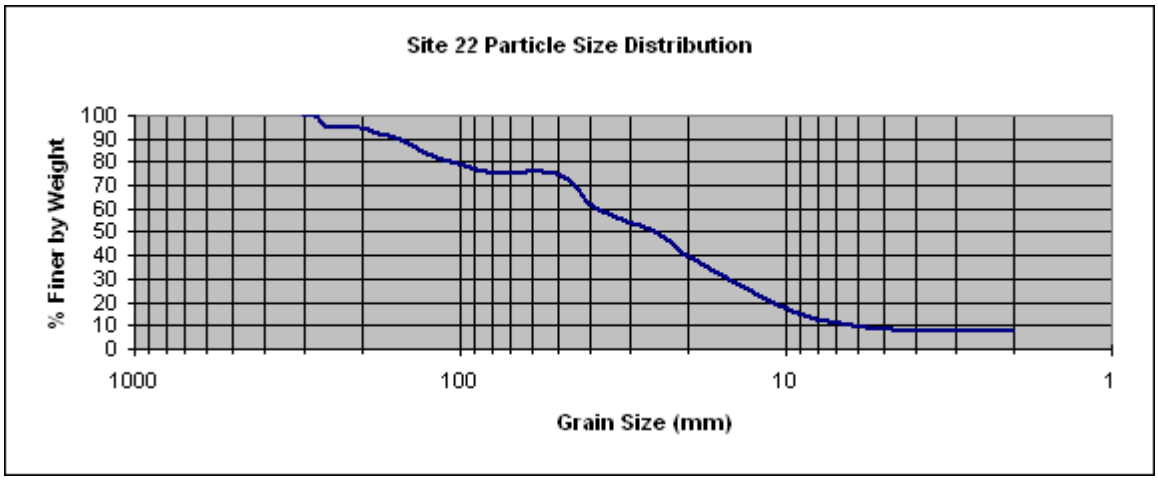


Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	1.9	0.9	0.0418	0.0015
2–4.75	0.078–0.187	0.5	1.2	0.0110	0.0004
4.75–9.53	0.187–0.375	4.2	3.3	0.0884	0.0033
9.53–19.05	0.375–0.75	25.7	16.1	0.5391	0.0200
19.05–25.4	0.75–1	13.4	22.7	0.2806	0.0104
25.4–38.1	1–1.5	18.6	32.0	0.3911	0.0145
38.1–50.8	1.5–2	21.7	42.8	0.4552	0.0169
50.8–76.2	2–3	19.3	52.4	0.4043	0.0150
76.2–101.6	3–4	15.4	60.0	0.3238	0.0120
101.6–127	4–5	25.9	72.9	0.5429	0.0201
127–152.4	5–6	15.0	80.4	0.3143	0.0116
152.4–177.8	6–7	15.9	88.3	0.3333	0.0123
177.8–203.2	7–8	7.3	91.9	0.1524	0.0056
203.2–228.6	8–9	0.0	91.9	0.0000	0.0000
228.6–254	9–10	16.3	100.0	0.3429	0.0127
254–279.4	10–11	0.0	100.0	0.0000	0.0000
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**200.9**		**4.2210**	**0.1563**
				In-situ Equivalent Volume	**0.12**

Site 21 following sampling.

Sample Point: Site 22
Property: Merced River Ranch
Date Sampled: 2/29/04
Depth of Sampling: 4.3 m
Groundwater Reached: yes
Elevation (top of pit): 87.2 m

Notes:
Heterogeneous mix of rock to depth of 2.7 m. Layer of sand starting at 2.7 m to groundwater.

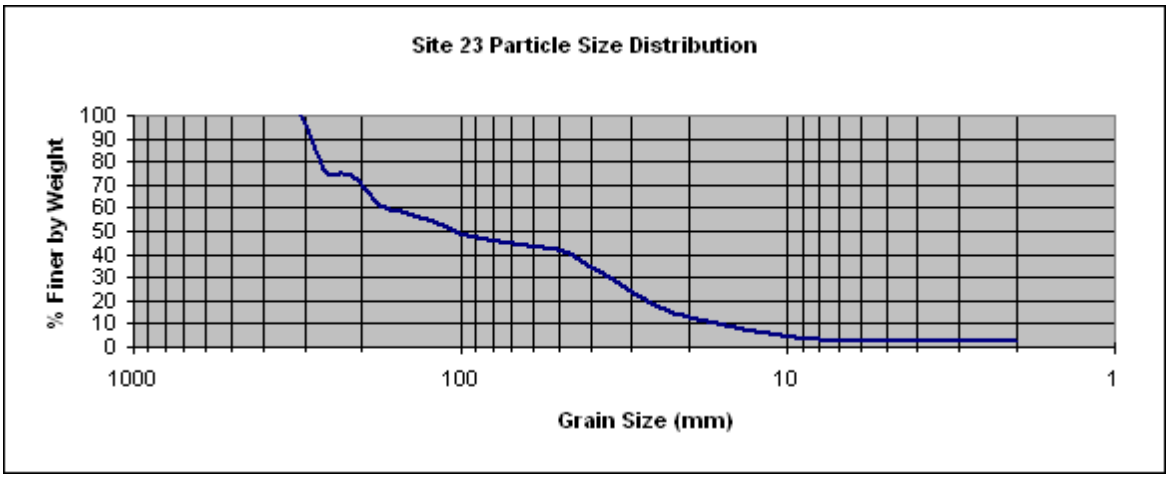


Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	18.9	7.8	0.4160	0.0154
2–4.75	0.078–0.187	2.2	8.7	0.0457	0.0017
4.75–9.53	0.187–0.375	17.8	16.1	0.3733	0.0138
9.53–19.05	0.375–0.75	53.7	38.3	1.1276	0.0418
19.05–25.4	0.75–1	28.5	50.2	0.5981	0.0222
25.4–38.1	1–1.5	24.3	60.2	0.5105	0.0189
38.1–50.8	1.5–2	36.1	75.2	0.7581	0.0281
50.8–76.2	2–3	0.0	75.2	0.0000	0.0000
76.2–101.6	3–4	10.0	79.3	0.2095	0.0078
101.6–127	4–5	10.0	83.5	0.2095	0.0078
127–152.4	5–6	14.5	89.5	0.3048	0.0113
152.4–177.8	6–7	6.8	92.3	0.1429	0.0053
177.8–203.2	7–8	5.4	94.5	0.1143	0.0042
203.2–228.6	8–9	0.0	94.5	0.0000	0.0000
228.6–254	9–10	0.0	94.5	0.0000	0.0000
254–279.4	10–11	13.2	100.0	0.2762	0.0102
279.4–304.8	11–12	0.0	100.0	0.0000	0.0000
TOTAL		**241.3**		**5.0865**	**0.1884**
				In-situ Equivalent Volume	**0.14**

Site 22 during sampling.

Sample Point: Site 23
Property: Merced Irrigation District
Date Sampled: 2/29/04
Depth of Sampling: 4.0 m
Groundwater Reached: no
Elevation (top of pit): No data

Notes:
Heterogeneous mix of rock to depth of 2.7 m. Layer of sand starting at 2.7 m to bottom of pit.

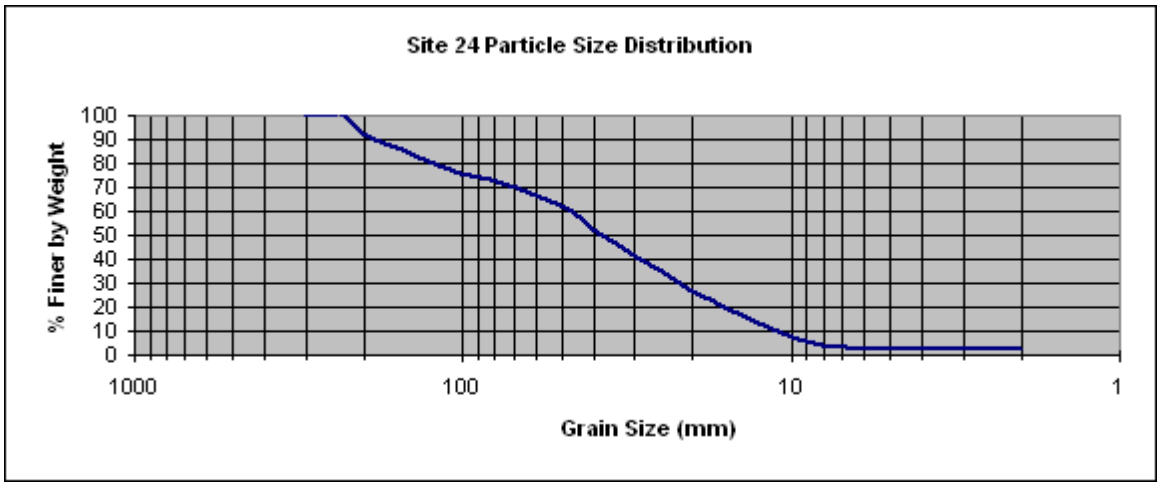


Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	6.5	2.5	0.1436	0.0053
2–4.75	0.078–0.187	0.7	2.8	0.0149	0.0006
4.75–9.53	0.187–0.375	4.5	4.5	0.0945	0.0035
9.53–19.05	0.375–0.75	20.2	12.3	0.4251	0.0157
19.05–25.4	0.75–1	16.3	18.5	0.3430	0.0127
25.4–38.1	1–1.5	37.5	32.9	0.7880	0.0292
38.1–50.8	1.5–2	24.4	42.3	0.5121	0.0190
50.8–76.2	2–3	8.2	45.4	0.1715	0.0064
76.2–101.6	3–4	10.0	49.2	0.2095	0.0078
101.6–127	4–5	14.5	54.8	0.3048	0.0113
127–152.4	5–6	10.9	59.0	0.2286	0.0085
152.4–177.8	6–7	5.0	60.9	0.1048	0.0039
177.8–203.2	7–8	27.7	71.5	0.5810	0.0215
203.2–228.6	8–9	9.1	75.0	0.1905	0.0071
228.6–254	9–10	0.0	75.0	0.0000	0.0000
254–279.4	10–11	26.3	85.0	0.5524	0.0205
279.4–304.8	11–12	39.0	100.0	0.8190	0.0303
TOTAL		**260.8**		**5.4830**	**0.2031**
				In-situ Equivalent Volume	**0.15**

Site 23 during sampling.

Sample Point: Site 24
Property: Merced Irrigation District
Date Sampled: 2/29/04
Depth of Sampling: 5.5 m
Groundwater Reached: no
Elevation (top of pit): 89.9

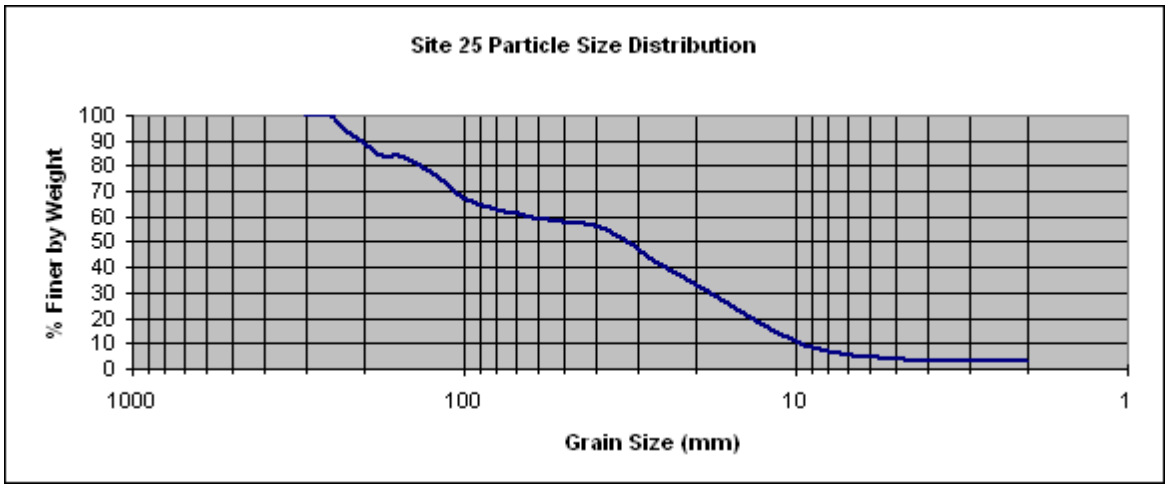
Notes:
Heterogeneous mix of rock to depth of 3.0 m. Layer of sand starting at 3.0 m.



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	5.5	2.3	0.1219	0.0045
2–4.75	0.078–0.187	0.7	2.6	0.0145	0.0005
4.75–9.53	0.187–0.375	9.0	6.3	0.1887	0.0070
9.53–19.05	0.375–0.75	45.6	25.3	0.9579	0.0355
19.05–25.4	0.75–1	24.9	35.7	0.5225	0.0194
25.4–38.1	1–1.5	34.4	50.0	0.7221	0.0267
38.1–50.8	1.5–2	29.6	62.3	0.6205	0.0230
50.8–76.2	2–3	23.2	71.9	0.4862	0.0180
76.2–101.6	3–4	9.5	75.8	0.2000	0.0074
101.6–127	4–5	11.3	80.6	0.2381	0.0088
127–152.4	5–6	11.8	85.5	0.2476	0.0092
152.4–177.8	6–7	8.2	88.9	0.1714	0.0063
177.8–203.2	7–8	8.6	92.5	0.1810	0.0067
203.2–228.6	8–9	18.1	100.0	0.3810	0.0141
228.6–254	9–10	0	100.0	0.0000	0.0000
254–279.4	10–11	0	100.0	0.0000	0.0000
279.4–304.8	11–12	0	100.0	0.0000	0.0000
TOTAL		**240.4**		**5.0534**	**0.1872**
				In-situ Equivalent Volume	**0.14**

Site 24 during sampling.

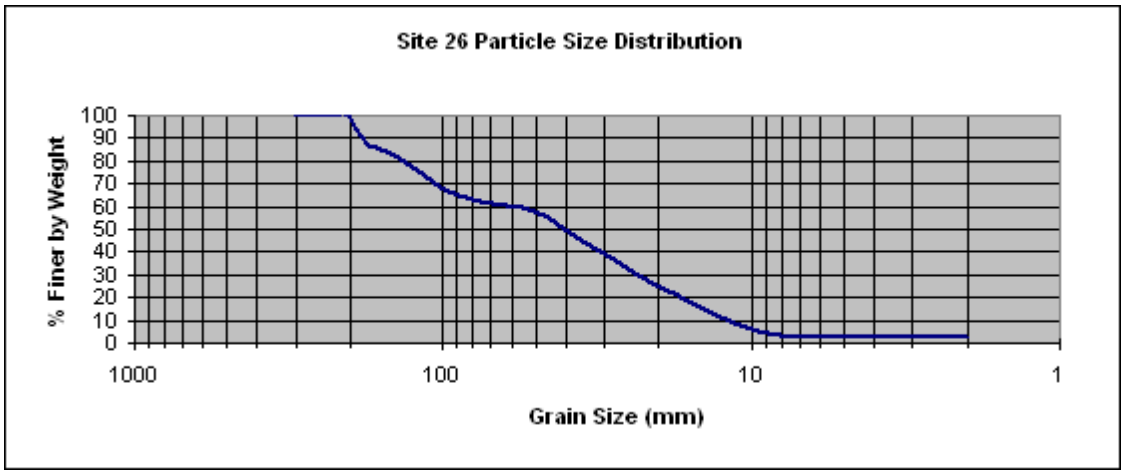
Sample Point: Site 25
Property: Merced Irrigation District
Date Sampled: 3/01/04
Depth of Sampling: 4.3 m
Groundwater Reached: yes
Elevation (top of pit): 85.6 m



Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	7.6	2.9	0.1669	0.0062
2–4.75	0.078–0.187	1.9	3.7	0.0406	0.0015
4.75–9.53	0.187–0.375	15.1	9.5	0.3178	0.0118
9.53–19.05	0.375–0.75	57.0	31.6	1.1969	0.0443
19.05–25.4	0.75–1	24.8	41.2	0.5207	0.0193
25.4–38.1	1–1.5	35.7	55.0	0.7506	0.0278
38.1–50.8	1.5–2	7.7	58.0	0.1623	0.0060
50.8–76.2	2–3	11.1	62.3	0.2333	0.0086
76.2–101.6	3–4	14.1	67.7	0.2952	0.0109
101.6–127	4–5	26.3	77.9	0.5524	0.0205
127–152.4	5–6	13.6	83.2	0.2857	0.0106
152.4–177.8	6–7	3.6	84.6	0.0762	0.0028
177.8–203.2	7–8	12.7	89.5	0.2667	0.0099
203.2–228.6	8–9	12.2	94.2	0.2571	0.0095
228.6–254	9–10	15.0	100.0	0.3143	0.0116
254–279.4	10–11	0	100.0	0.0000	0.0000
279.4–304.8	11–12	0	100.0	0.0000	0.0000
TOTAL		**258.5**		**5.4365**	**0.2014**
				In-situ Equivalent Volume	**0.15**

Site 25 following sampling.

Sample Point: Site 26
Property: Merced County
Date Sampled: 3/01/04
Depth of Sampling: 3.7 m
Groundwater Reached: yes
Elevation (top of pit): 82.8 m



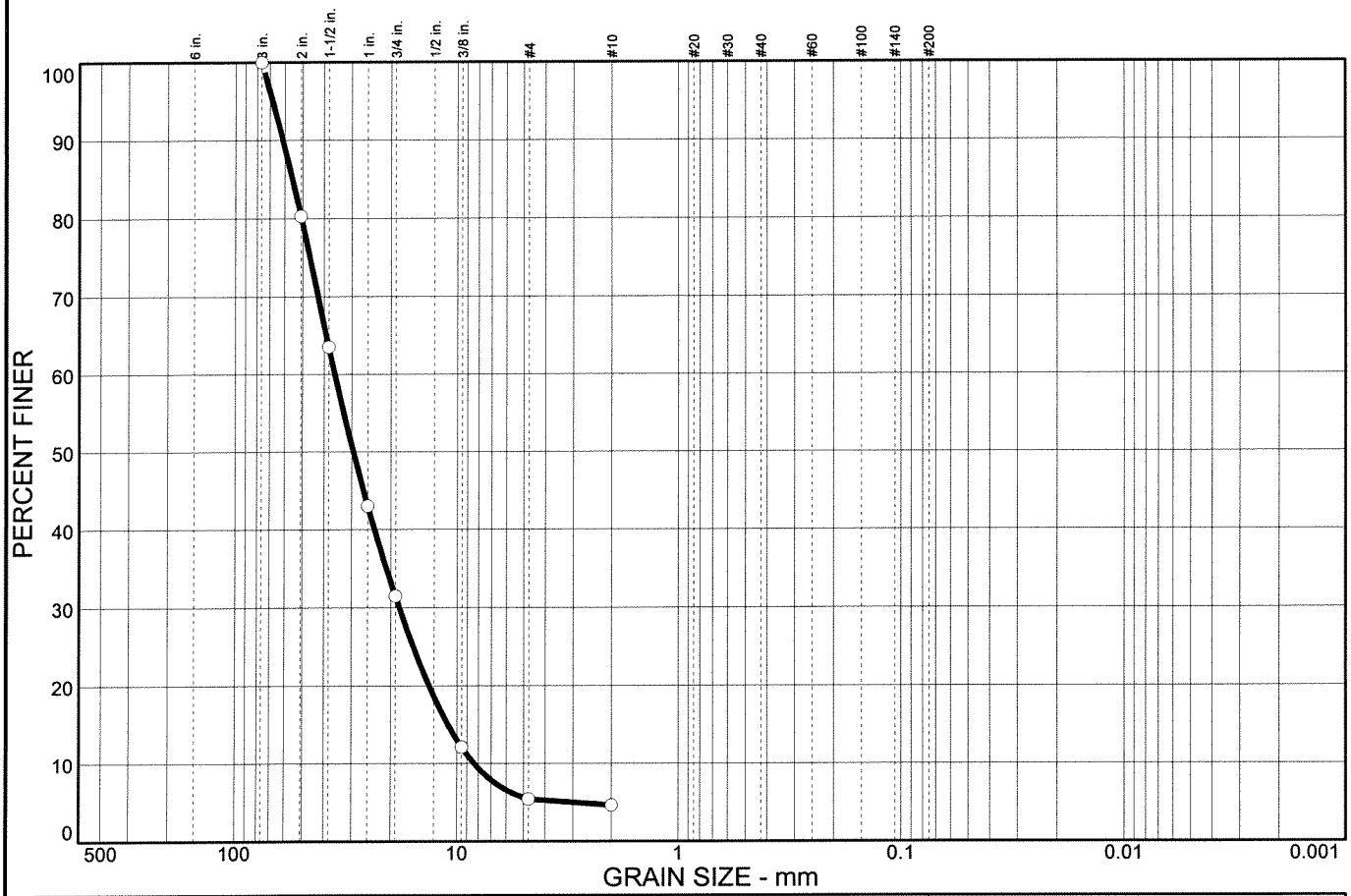
Size Class (mm)	Size Class (in)	Mass (kg)	% Passing	Volume (ft^3)	Volume (yd^3)
<2	<0.078	6.0	2.5	0.1328	0.0049
2–4.75	0.078–0.187	0.6	2.8	0.0123	0.0005
4.75–9.53	0.187–0.375	6.8	5.6	0.1419	0.0053
9.53–19.05	0.375–0.75	41.9	23.3	0.8794	0.0326
19.05–25.4	0.75–1	24.4	33.6	0.5122	0.0190
25.4–38.1	1–1.5	33.4	47.6	0.7005	0.0259
38.1–50.8	1.5–2	23.5	57.6	0.4937	0.0183
50.8–76.2	2–3	10.4	62.0	0.2191	0.0081
76.2–101.6	3–4	15.4	68.5	0.3238	0.0120
101.6–127	4–5	22.2	77.8	0.4667	0.0173
127–152.4	5–6	15.4	84.3	0.3238	0.0120
152.4–177.8	6–7	9.1	88.1	0.1905	0.0071
177.8–203.2	7–8	28.1	100.0	0.5905	0.0219
203.2–228.6	8–9	0	100.0	0.0000	0.0000
228.6–254	9–10	0	100.0	0.0000	0.0000
254–279.4	10–11	0	100.0	0.0000	0.0000
279.4–304.8	11–12	0	100.0	0.0000	0.0000
TOTAL		**237.2**		**4.9873**	**0.1847**
				In-situ Equivalent Volume	**0.14**

Site 26 prior to sampling.

Appendix B
LABORATORY PARTICLE SIZE DISTRIBUTION REPORTS

Appendix B
LABORATORY PARTICLE SIZE DISTRIBUTION REPORTS

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	68.5	26.1	0.8	4.6			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	80.3		
1.5 in.	63.5		
1 in.	43.0		
3/4 in.	31.5		
3/8 in.	12.1		
#4	5.4		
#10	4.6		

* (no specification provided)

Soil Description

Brownish grey gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 55.5 D_{60}= 35.8 D_{50}= 29.5
D_{30}= 18.3 D_{15}= 11.0 D_{10}= 8.37
C_u= 4.28 C_c= 1.11

Classification

USCS= AASHTO=

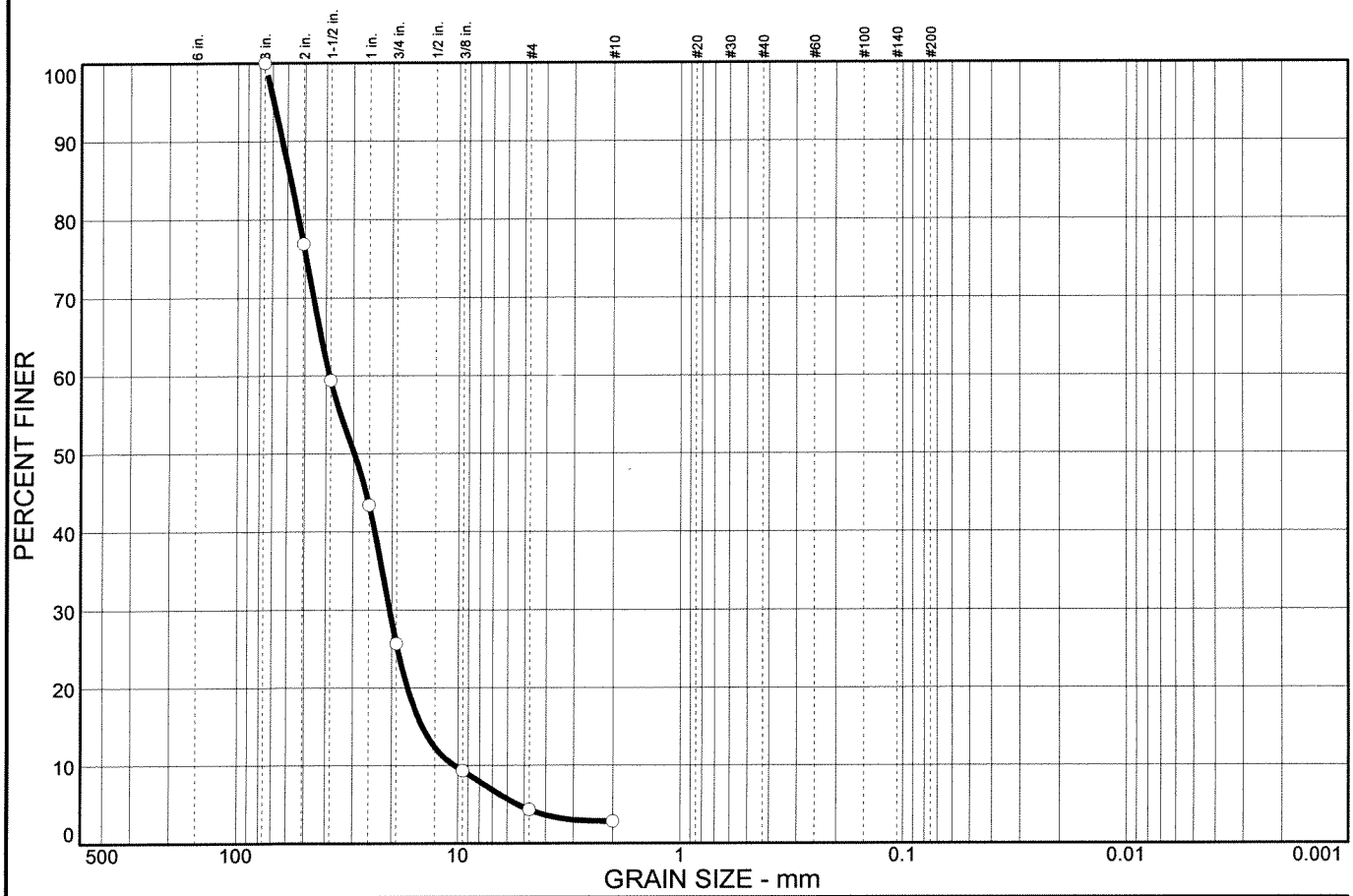
Remarks

Sample No.: 2/24/04 **Source of Sample:** **Date:**
Location: Site 1 Merced Irrigation District (West) **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	74.3	21.4	1.5	2.8			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	76.9		
1.5 in.	59.4		
1 in.	43.4		
3/4 in.	25.7		
3/8 in.	9.3		
#4	4.3		
#10	2.8		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 58.1 D_{60}= 38.6 D_{50}= 29.7
D_{30}= 20.5 D_{15}= 14.5 D_{10}= 10.4
C_u= 3.71 C_c= 1.04

Classification

USCS= AASHTO=

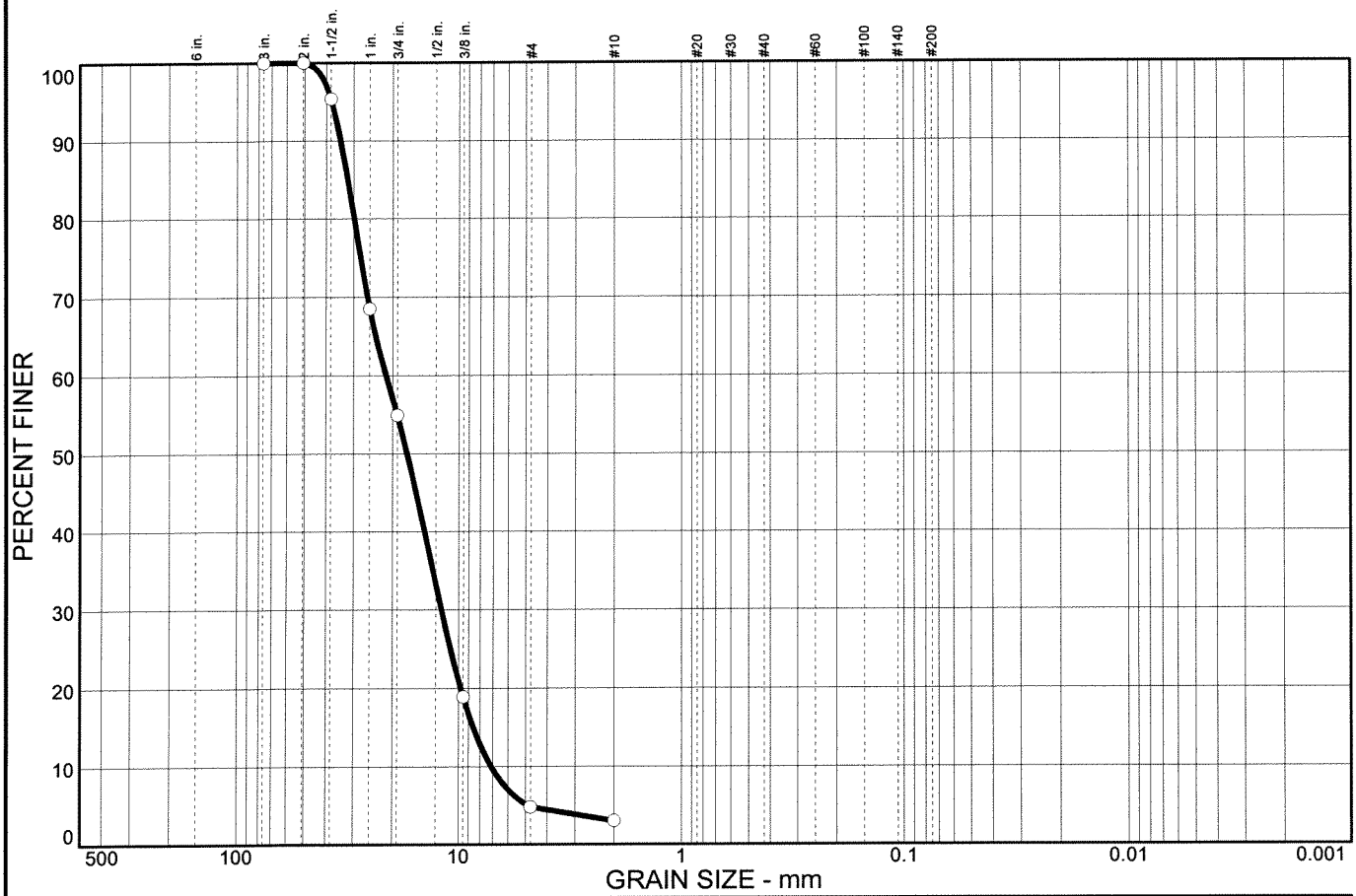
Remarks

Sample No.: 2-24-04 **Source of Sample:** **Date:**
Location: Site 2 Merced Irrigation District (East) **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	45.1	50.1	1.8	3.0			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	100.0		
1.5 in.	95.4		
1 in.	68.5		
3/4 in.	54.9		
3/8 in.	18.9		
#4	4.8		
#10	3.0		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 32.0 D_{60}= 21.4 D_{50}= 17.2
D_{30}= 12.0 D_{15}= 8.57 D_{10}= 7.12
C_u= 3.01 C_c= 0.94

Classification

USCS= AASHTO=

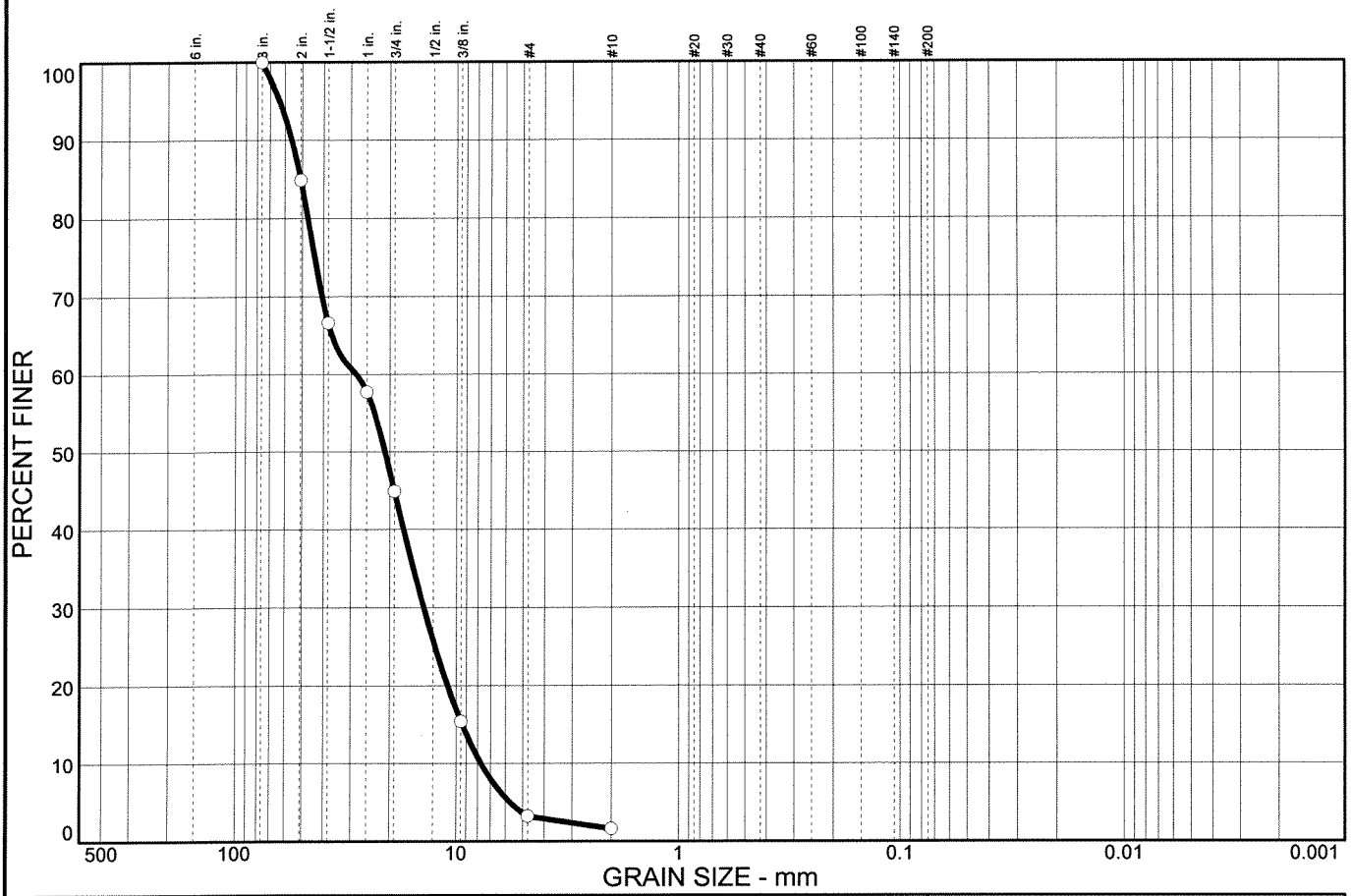
Remarks

Sample No.: 2-24-04 **Source of Sample:** **Date:**
Location: Site 3 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	55.1	41.7	1.6	1.6			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	84.9		
1.5 in.	66.6		
1 in.	57.7		
3/4 in.	44.9		
3/8 in.	15.4		
#4	3.2		
#10	1.6		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 50.9 D_{60}= 28.5 D_{50}= 21.0
D_{30}= 14.0 D_{15}= 9.40 D_{10}= 7.73
C_u= 3.68 C_c= 0.89

Classification

USCS= AASHTO=

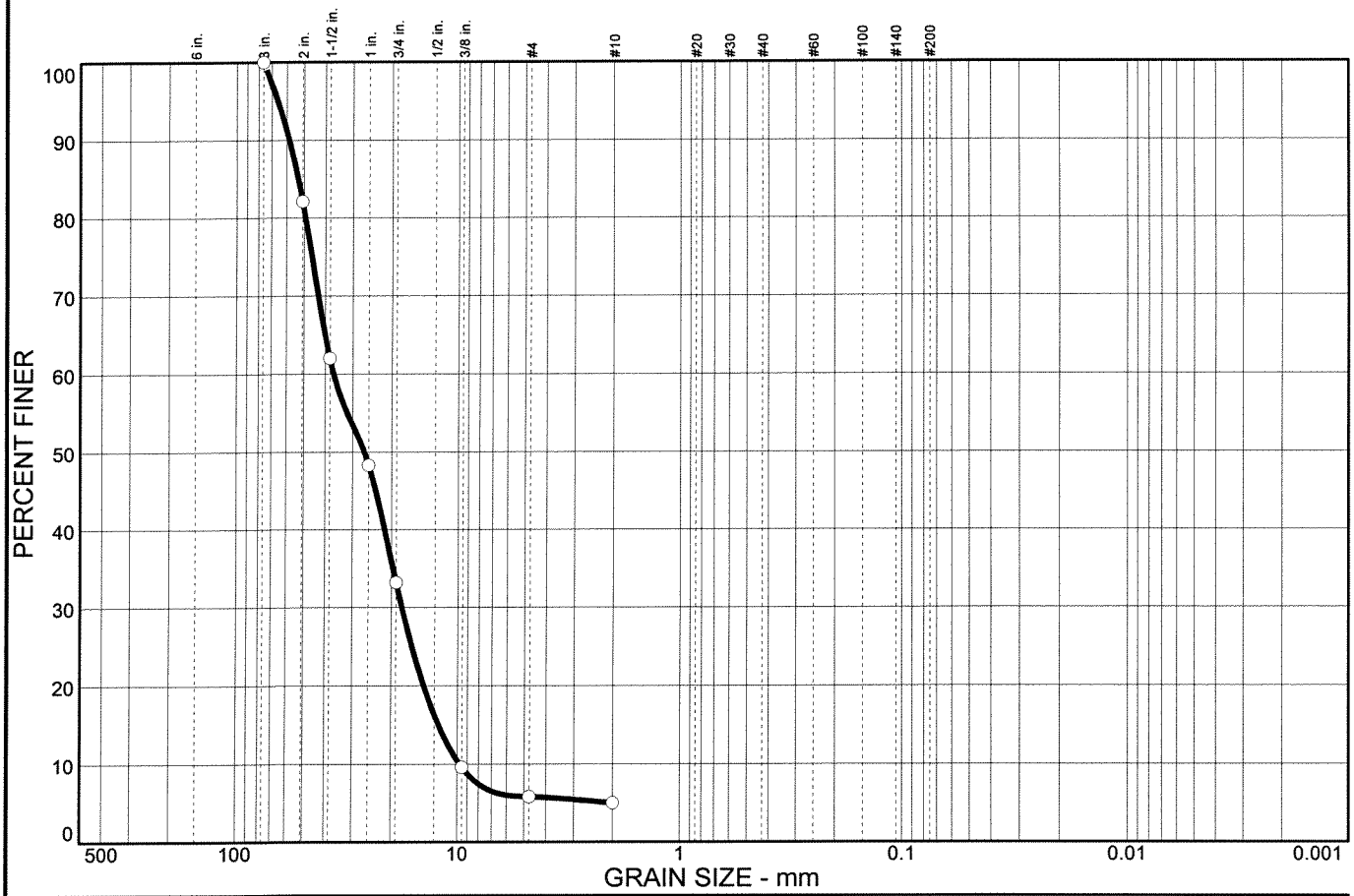
Remarks

Sample No.: 2-24-04 **Source of Sample:** **Date:**
Location: Site 4 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	66.8	27.4	0.8	5.0			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	82.1		
1.5 in.	62.0		
1 in.	48.3		
3/4 in.	33.2		
3/8 in.	9.6		
#4	5.8		
#10	5.0		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 53.2 D_{60}= 36.6 D_{50}= 26.6
D_{30}= 17.9 D_{15}= 12.2 D_{10}= 9.76
C_u= 3.75 C_c= 0.90

Classification

USCS= AASHTO=

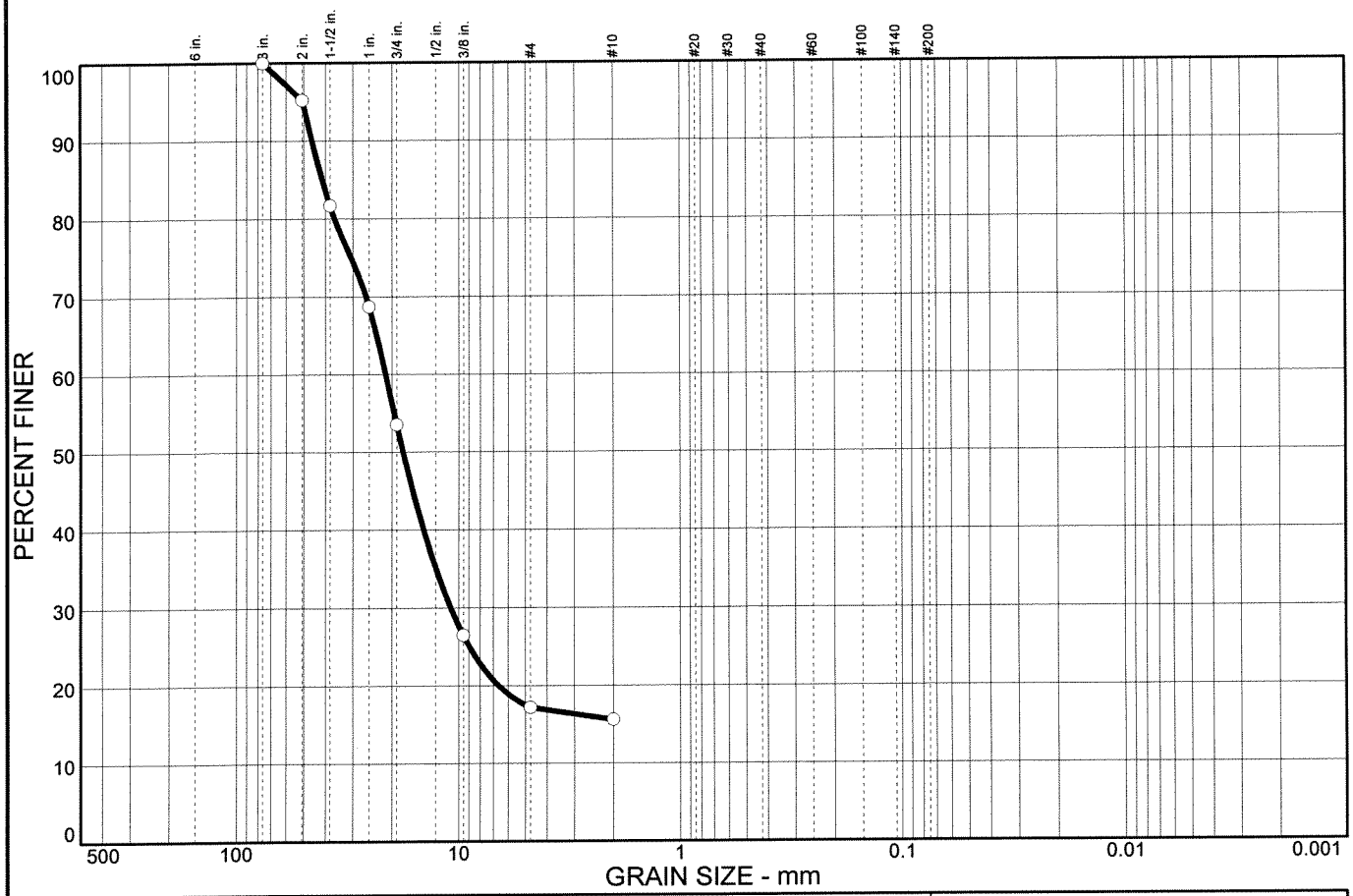
Remarks

Sample No.: 2-24-04 **Source of Sample:** **Date:**
Location: Site 5 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	46.5	36.3	1.6	15.6			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	95.2		
1.5 in.	81.7		
1 in.	68.7		
3/4 in.	53.5		
3/8 in.	26.5		
#4	17.2		
#10	15.6		

* (no specification provided)

Soil Description

Brownish gray gravel with sand

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 41.3 D_{60}= 21.4 D_{50}= 17.8
D_{30}= 10.9 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

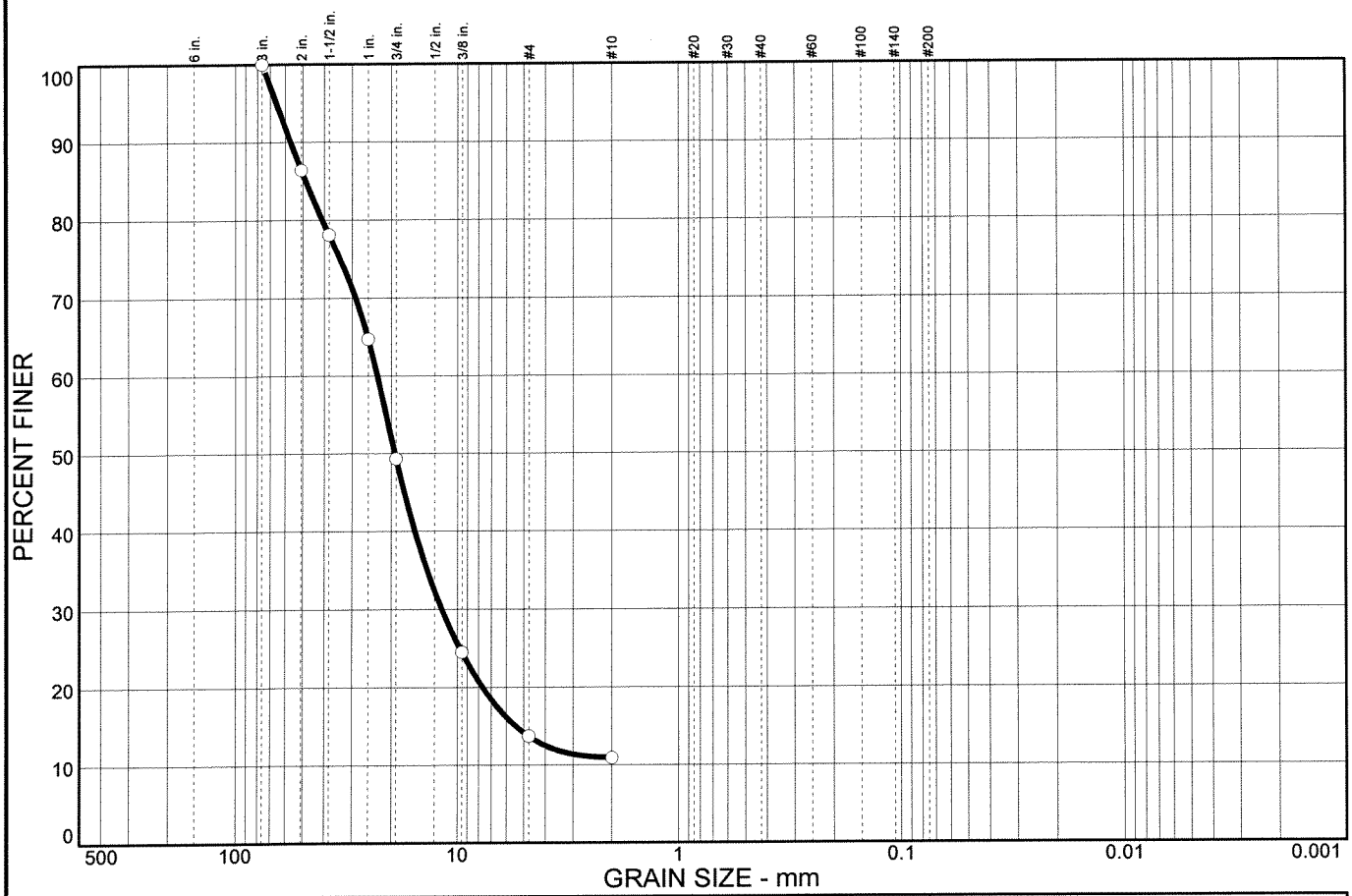
Remarks

Sample No.: 2-25-04 **Source of Sample:** **Date:**
Location: Site 6 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	50.7	35.6	2.8	10.9			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	86.4		
1.5 in.	78.1		
1 in.	64.7		
3/4 in.	49.3		
3/8 in.	24.5		
#4	13.7		
#10	10.9		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 48.5 D_{60}= 23.1 D_{50}= 19.3
D_{30}= 11.8 D_{15}= 5.43 D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

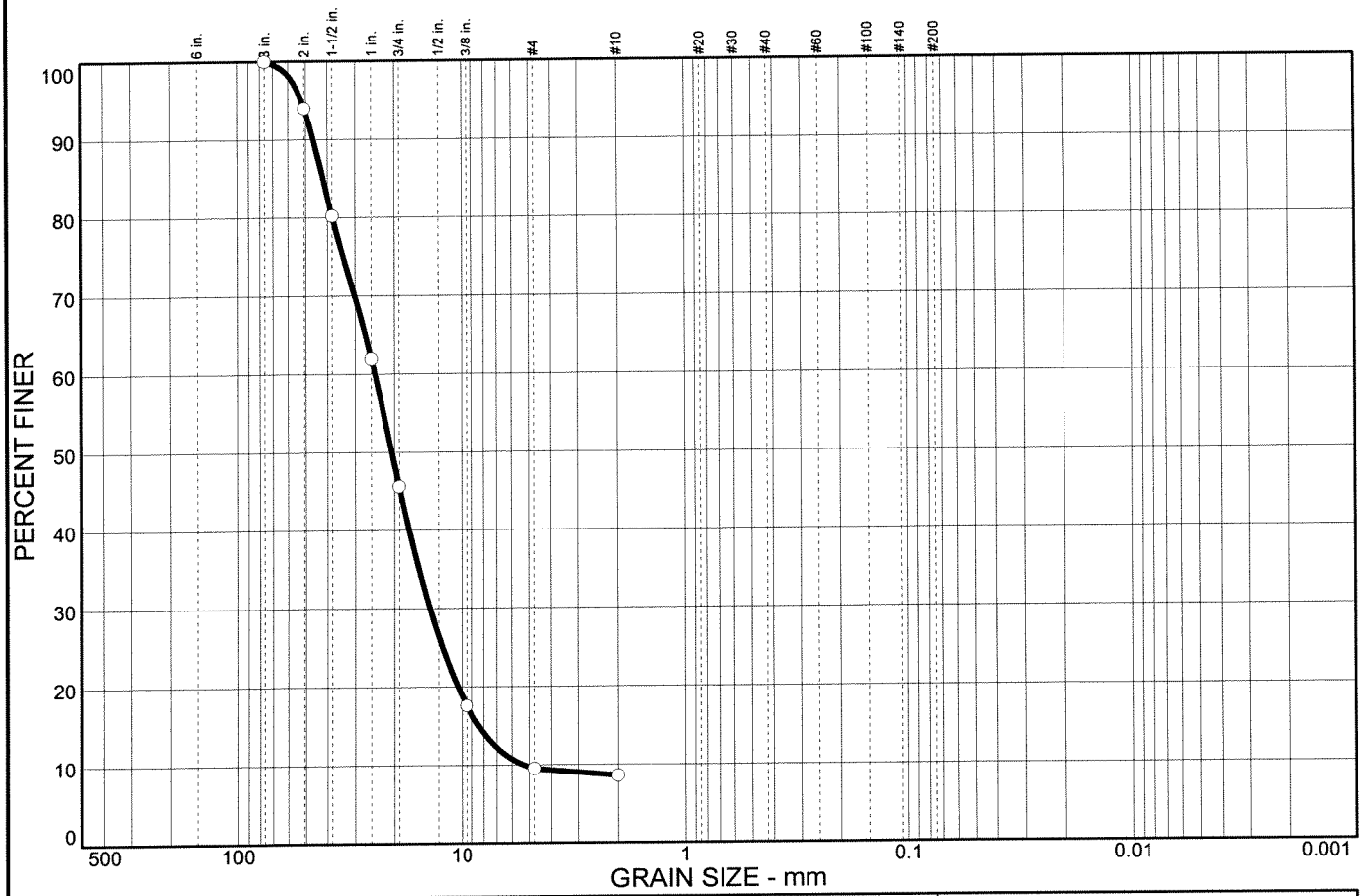
Remarks

Sample No.: 2-25-04 **Source of Sample:** **Date:**
Location: Site 7 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	54.4	36.1	0.9	8.6			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	94.0		
1.5 in.	80.2		
1 in.	62.0		
3/4 in.	45.6		
3/8 in.	17.6		
#4	9.5		
#10	8.6		

* (no specification provided)

Soil Description

Grayish brown gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 41.9 D_{60}= 24.5 D_{50}= 20.6
D_{30}= 13.9 D_{15}= 8.42 D_{10}= 5.31
C_u= 4.60 C_c= 1.48

Classification

USCS= AASHTO=

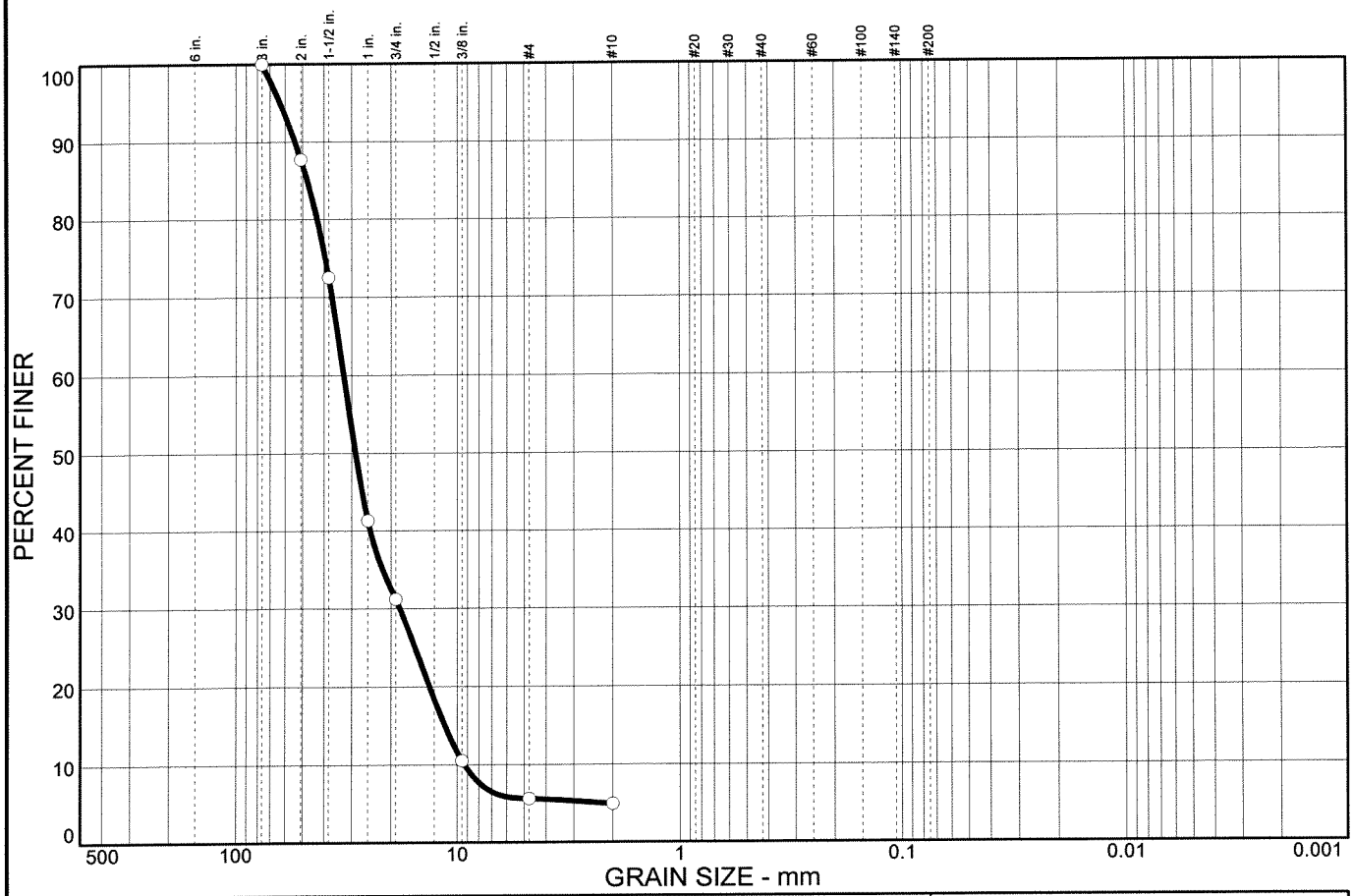
Remarks

Sample No.: 2-25-04 **Source of Sample:** **Date:**
Location: Site 8 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	68.8	25.6	0.7	4.9			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	87.7		
1.5 in.	72.5		
1 in.	41.3		
3/4 in.	31.2		
3/8 in.	10.5		
#4	5.6		
#10	4.9		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 47.6 D_{60}= 32.6 D_{50}= 28.9
D_{30}= 18.3 D_{15}= 11.4 D_{10}= 9.29
C_u= 3.51 C_c= 1.10

Classification

USCS= AASHTO=

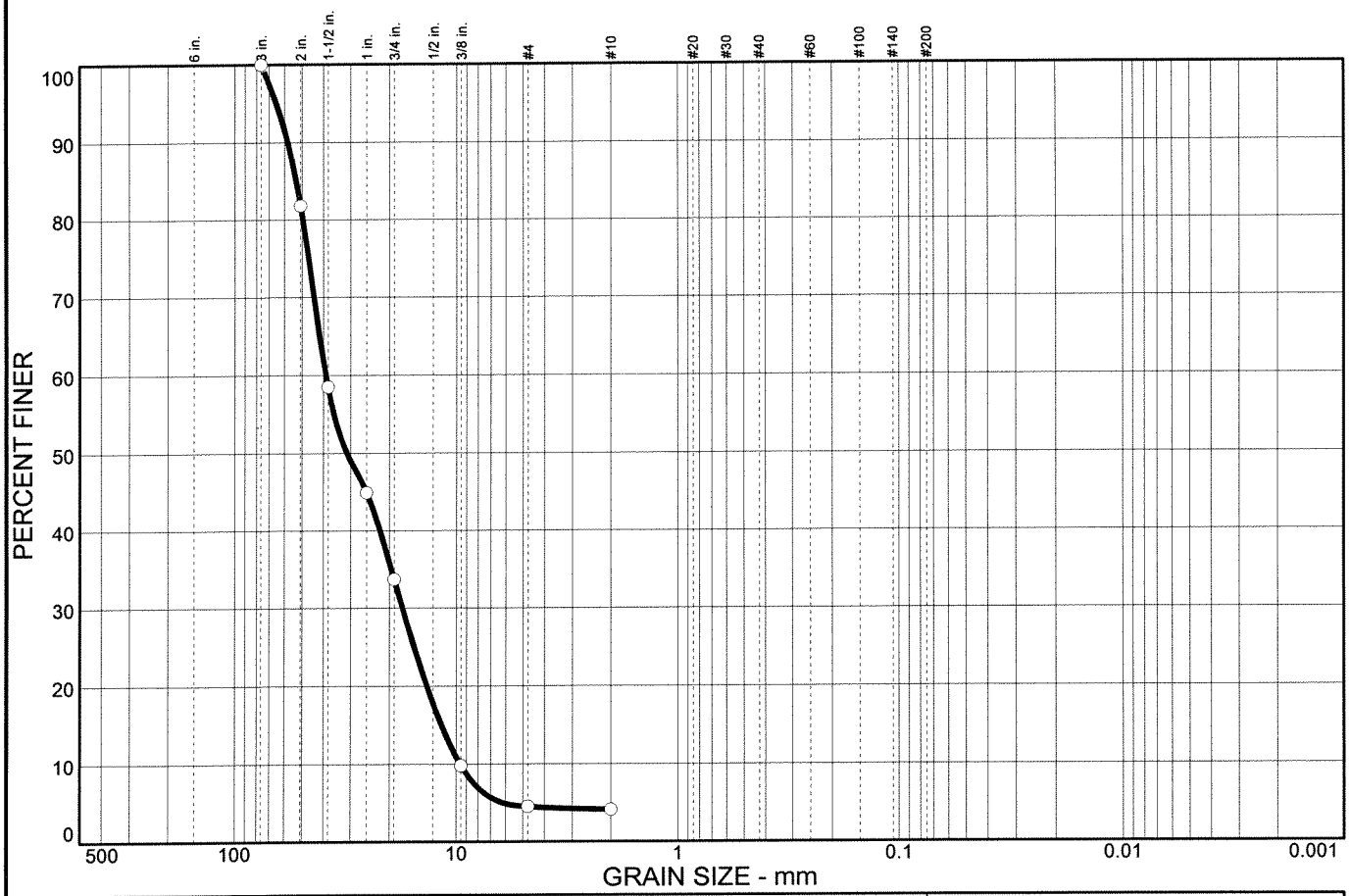
Remarks

Sample No.: 2-25-04 **Source of Sample:** **Date:**
Location: Site 9 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	66.3	29.2	0.4	4.1			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	81.8		
1.5 in.	58.5		
1 in.	44.9		
3/4 in.	33.7		
3/8 in.	9.8		
#4	4.5		
#10	4.1		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 53.2 D_{60}= 39.0 D_{50}= 31.2
D_{30}= 17.5 D_{15}= 11.7 D_{10}= 9.62
C_u= 4.05 C_c= 0.81

Classification

USCS= AASHTO=

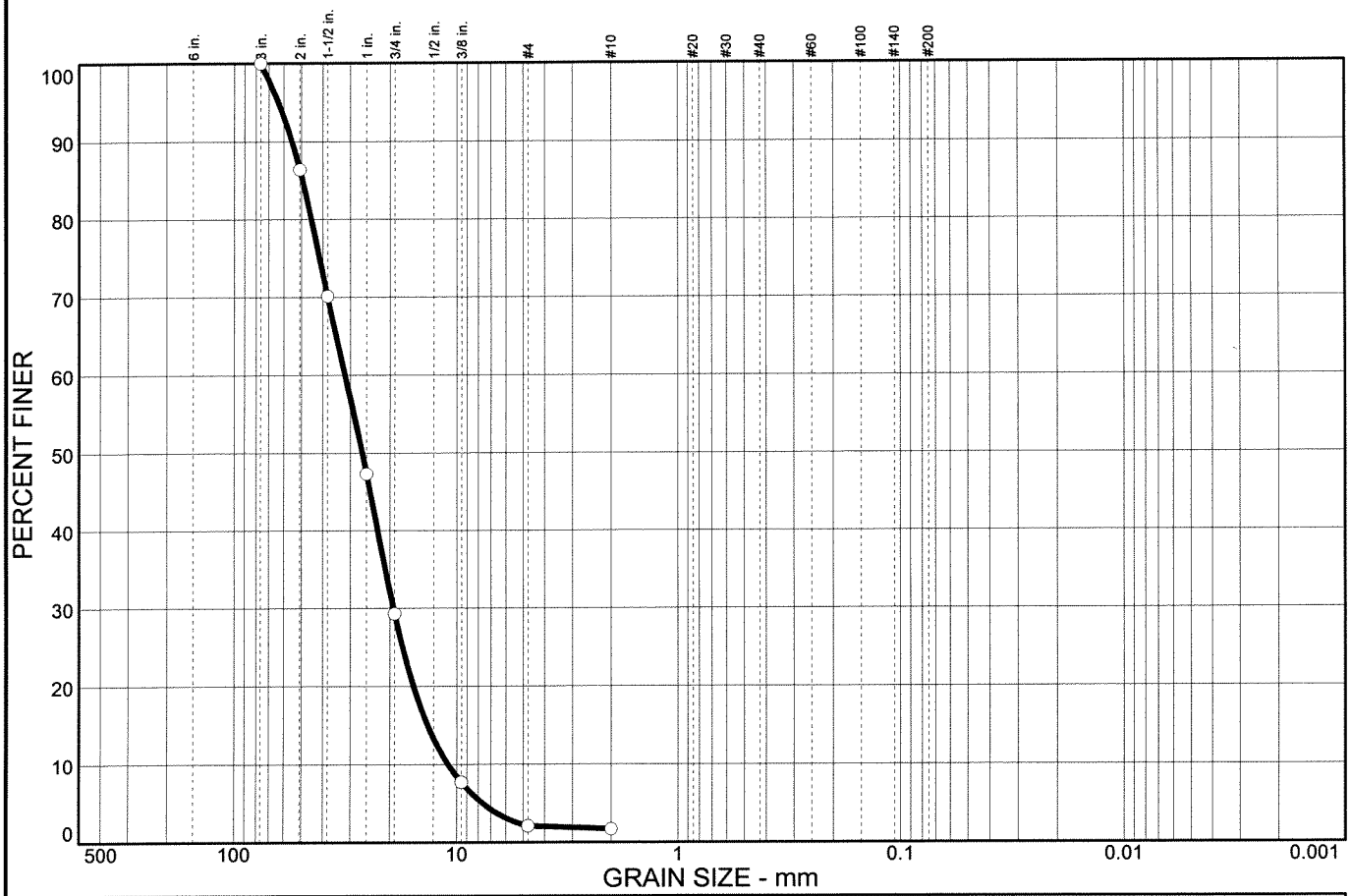
Remarks

Sample No.: 2-26-04 **Source of Sample:** **Date:**
Location: Site 10 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	70.7	27.2	0.4	1.7			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	86.4		
1.5 in.	70.1		
1 in.	47.3		
3/4 in.	29.3		
3/8 in.	7.7		
#4	2.1		
#10	1.7		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 49.4 D_{60}= 31.8 D_{50}= 26.6
D_{30}= 19.3 D_{15}= 13.5 D_{10}= 10.9
C_u= 2.90 C_c= 1.07

Classification

USCS= AASHTO=

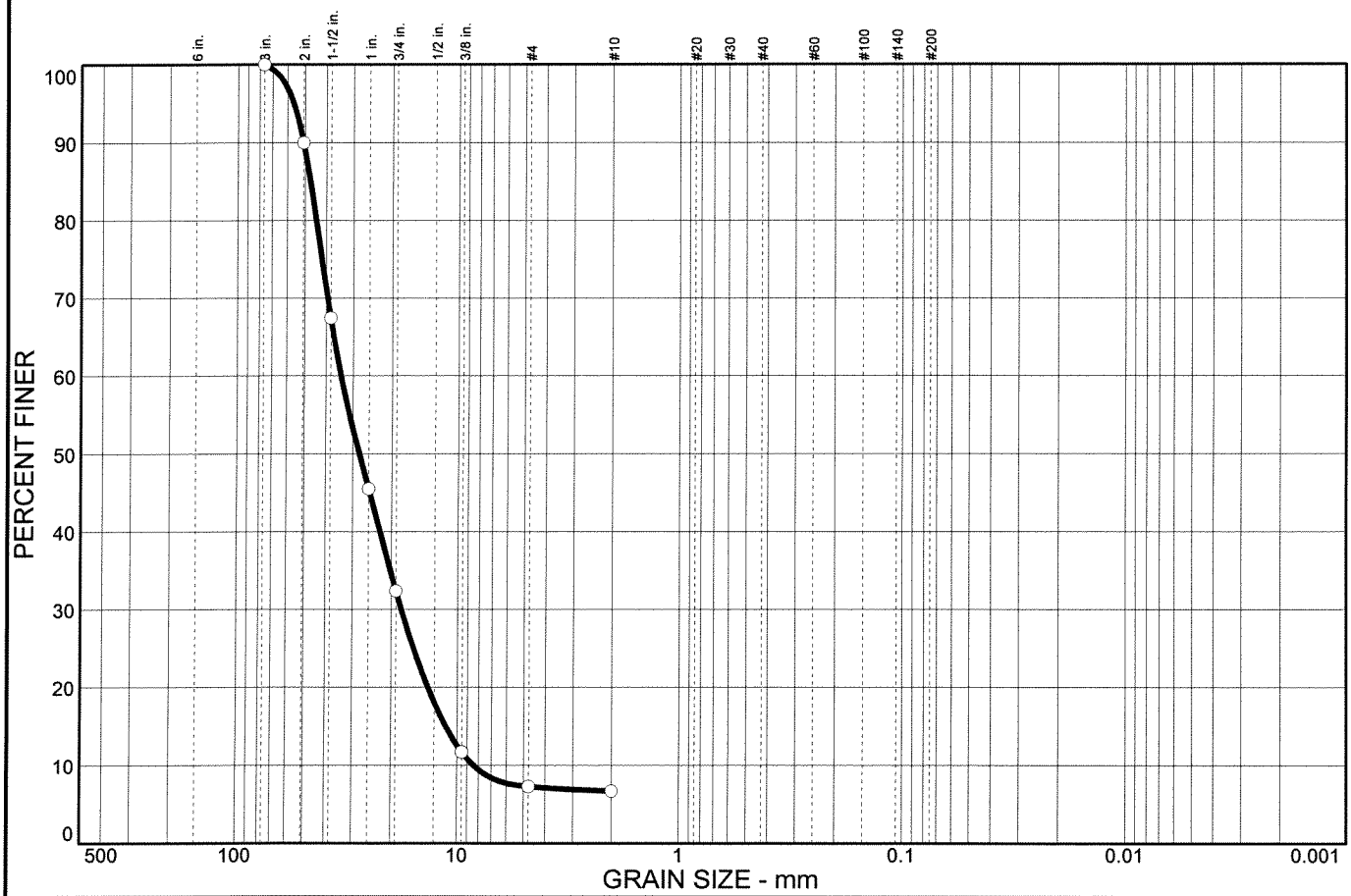
Remarks

Sample No.: 2-26-04 **Source of Sample:** **Date:**
Location: Site 11 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	67.6	25.1	0.6	6.7			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	90.0		
1.5 in.	67.4		
1 in.	45.5		
3/4 in.	32.4		
3/8 in.	11.7		
#4	7.3		
#10	6.7		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 47.3 D_{60}= 34.1 D_{50}= 28.1
D_{30}= 18.0 D_{15}= 11.3 D_{10}= 8.41
C_u= 4.06 C_c= 1.13

Classification

USCS= AASHTO=

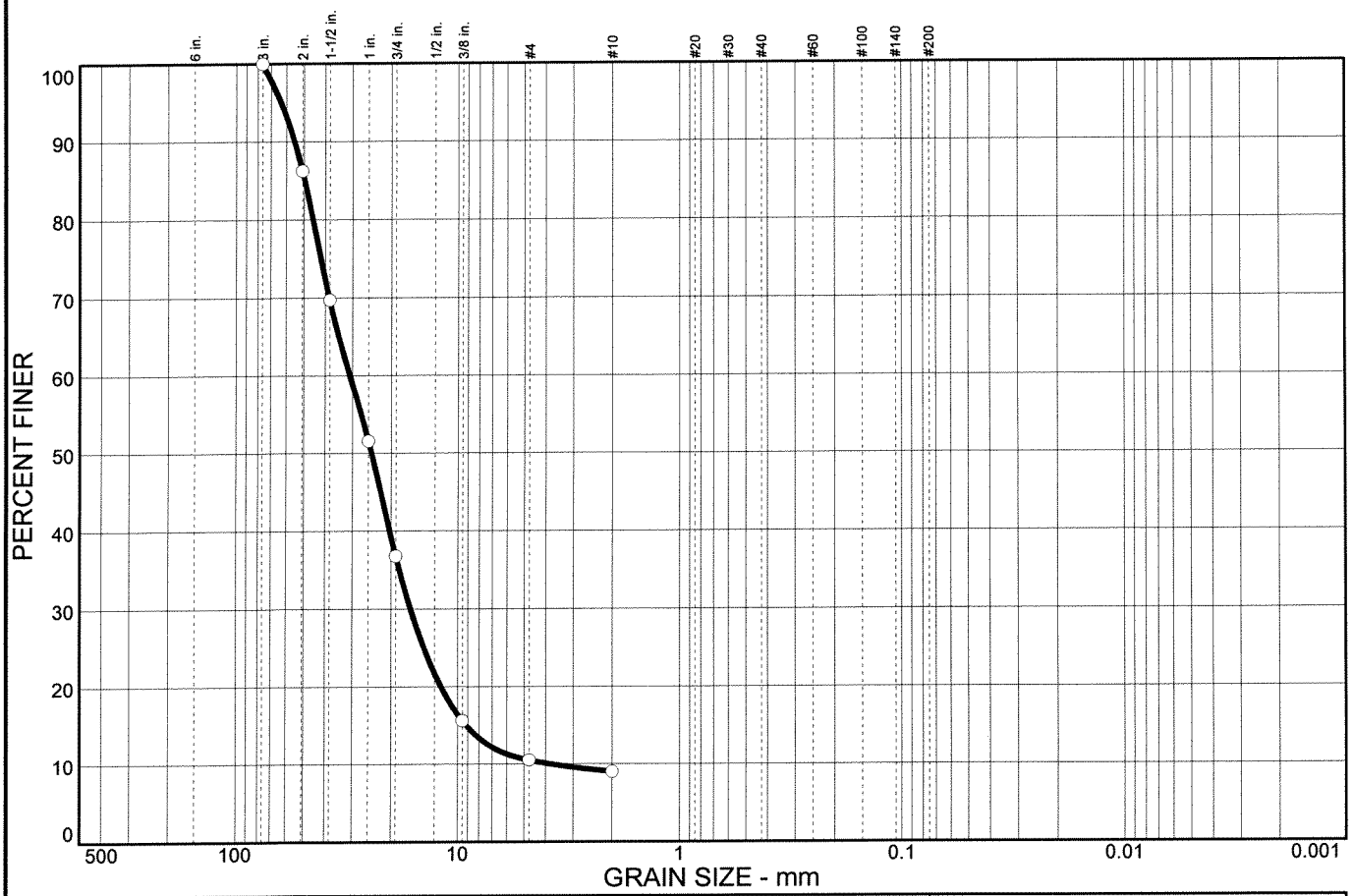
Remarks

Sample No.: 2-26-04 **Source of Sample:** **Date:**
Location: Site 12 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	63.2	26.3	1.5	9.0			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	86.2		
1.5 in.	69.7		
1 in.	51.5		
3/4 in.	36.8		
3/8 in.	15.6		
#4	10.5		
#10	9.0		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 49.6 D_{60}= 30.9 D_{50}= 24.6
D_{30}= 16.3 D_{15}= 9.15 D_{10}= 3.83
C_u= 8.07 C_c= 2.25

Classification

USCS= AASHTO=

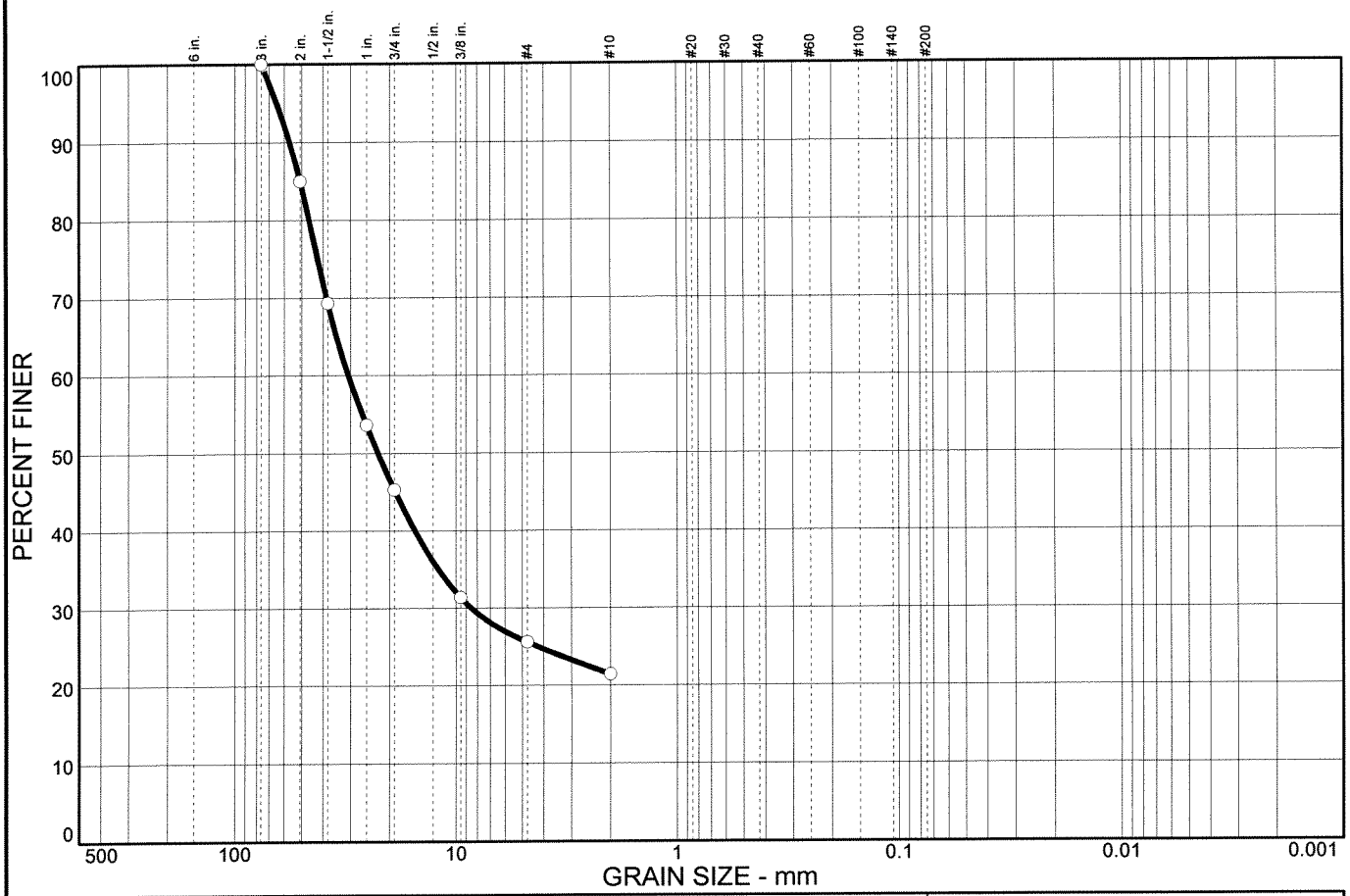
Remarks

Sample No.: 2-26-04 **Source of Sample:** **Date:**
Location: Site 13 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	54.7	19.7	4.2	21.4			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	85.0		
1.5 in.	69.3		
1 in.	53.6		
3/4 in.	45.3		
3/8 in.	31.4		
#4	25.6		
#10	21.4		

* (no specification provided)

Soil Description

Grayish brown sandy gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 50.8 D_{60}= 30.7 D_{50}= 22.5
D_{30}= 8.49 D_{15}= D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

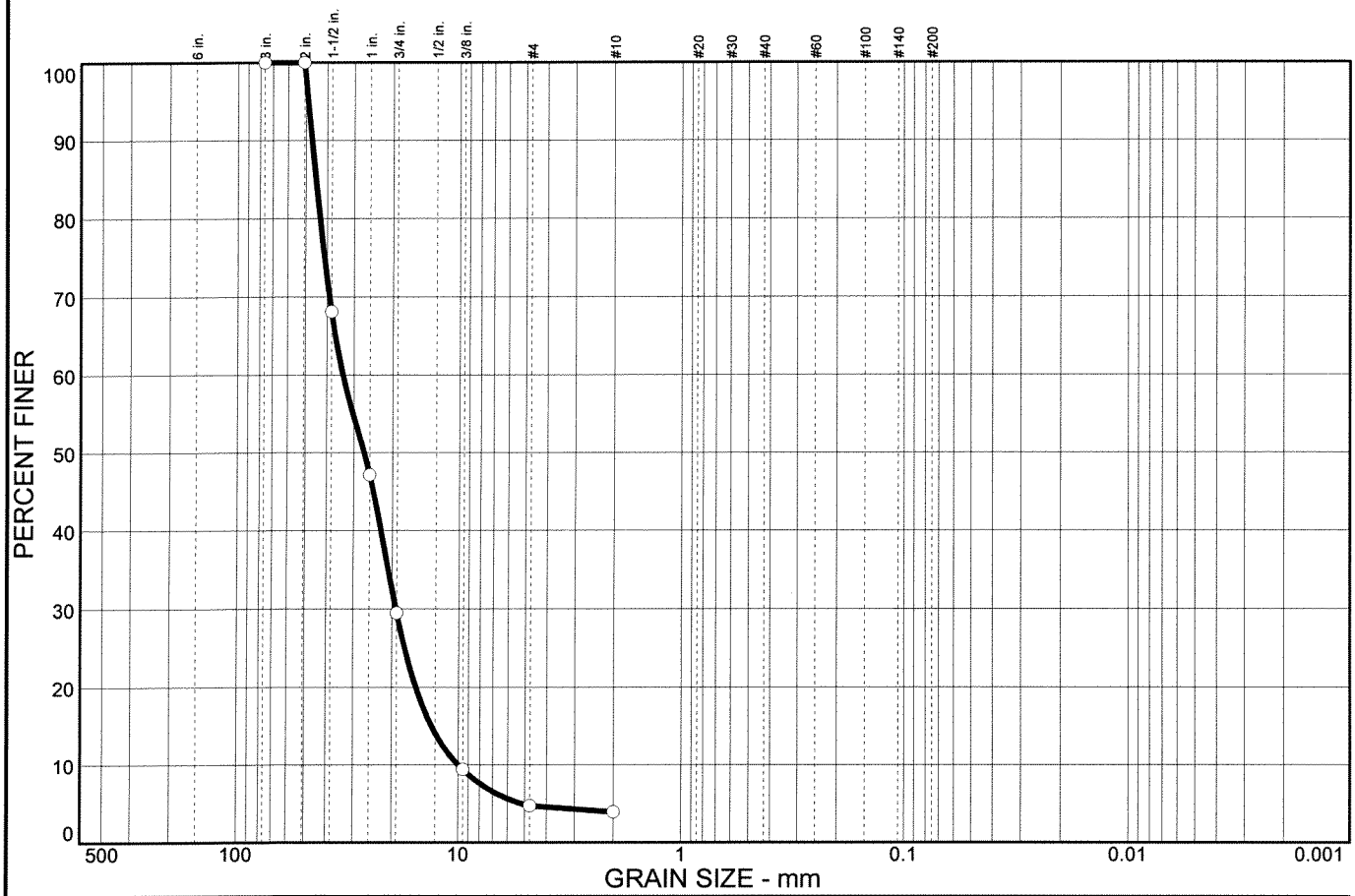
Remarks

Sample No.: 2-27-04 **Source of Sample:** **Date:**
Location: Site 14 Collins **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	70.5	24.8	0.8	3.9			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	100.0		
1.5 in.	68.1		
1 in.	47.1		
3/4 in.	29.5		
3/8 in.	9.4		
#4	4.7		
#10	3.9		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 45.0 D_{60}= 33.7 D_{50}= 27.0
D_{30}= 19.2 D_{15}= 13.2 D_{10}= 10.0
C_u= 3.37 C_c= 1.09

Classification

USCS= AASHTO=

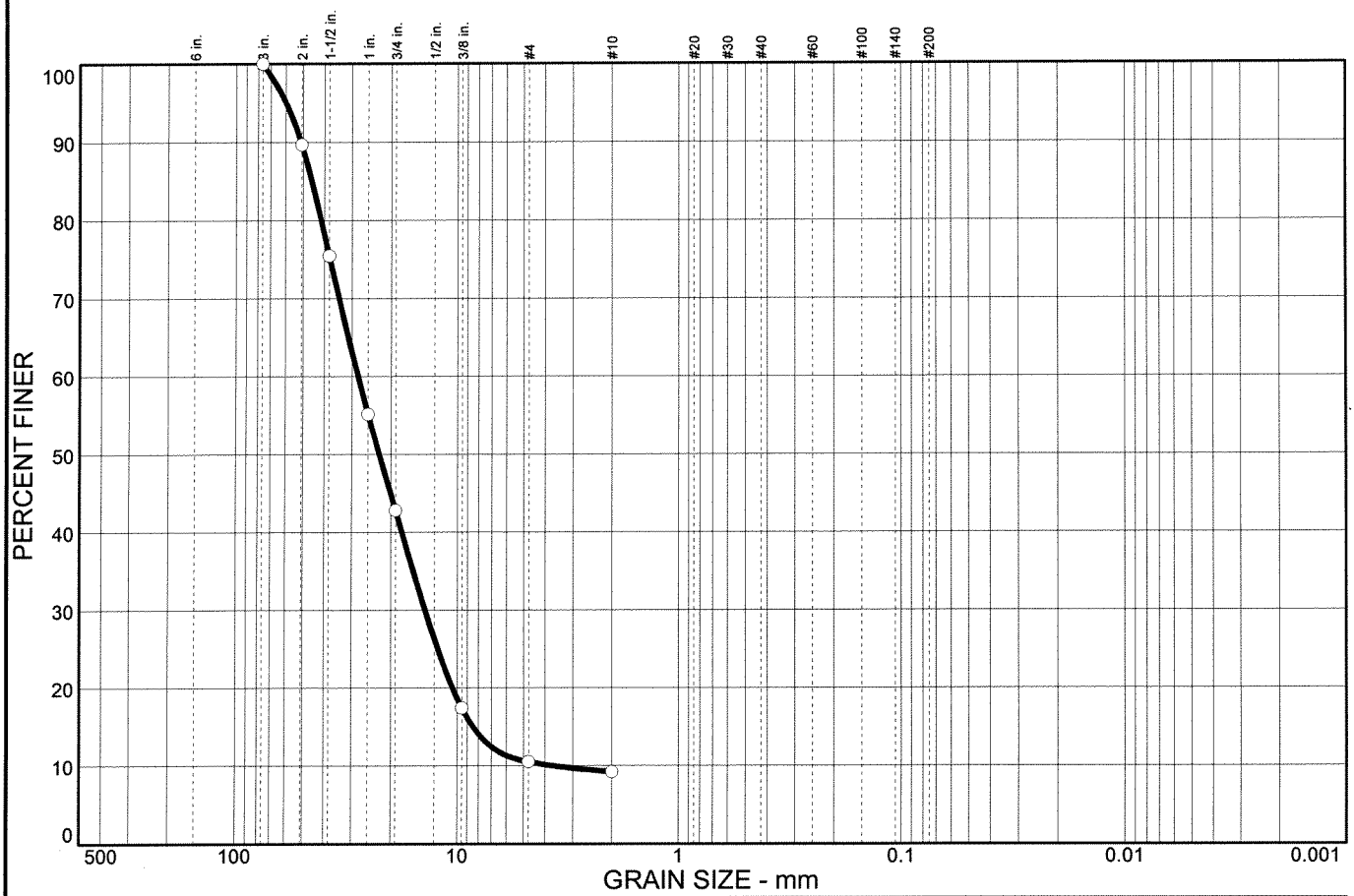
Remarks

Sample No.: 2-27-04 **Source of Sample:** **Date:**
Location: Site 15 Collins **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	57.2	32.3	1.3	9.2			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	89.7		
1.5 in.	75.5		
1 in.	55.1		
3/4 in.	42.8		
3/8 in.	17.4		
#4	10.5		
#10	9.2		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 45.7 D_{60}= 28.2 D_{50}= 22.6
D_{30}= 14.0 D_{15}= 8.48 D_{10}= 3.72
C_u= 7.57 C_c= 1.86

Classification

USCS= AASHTO=

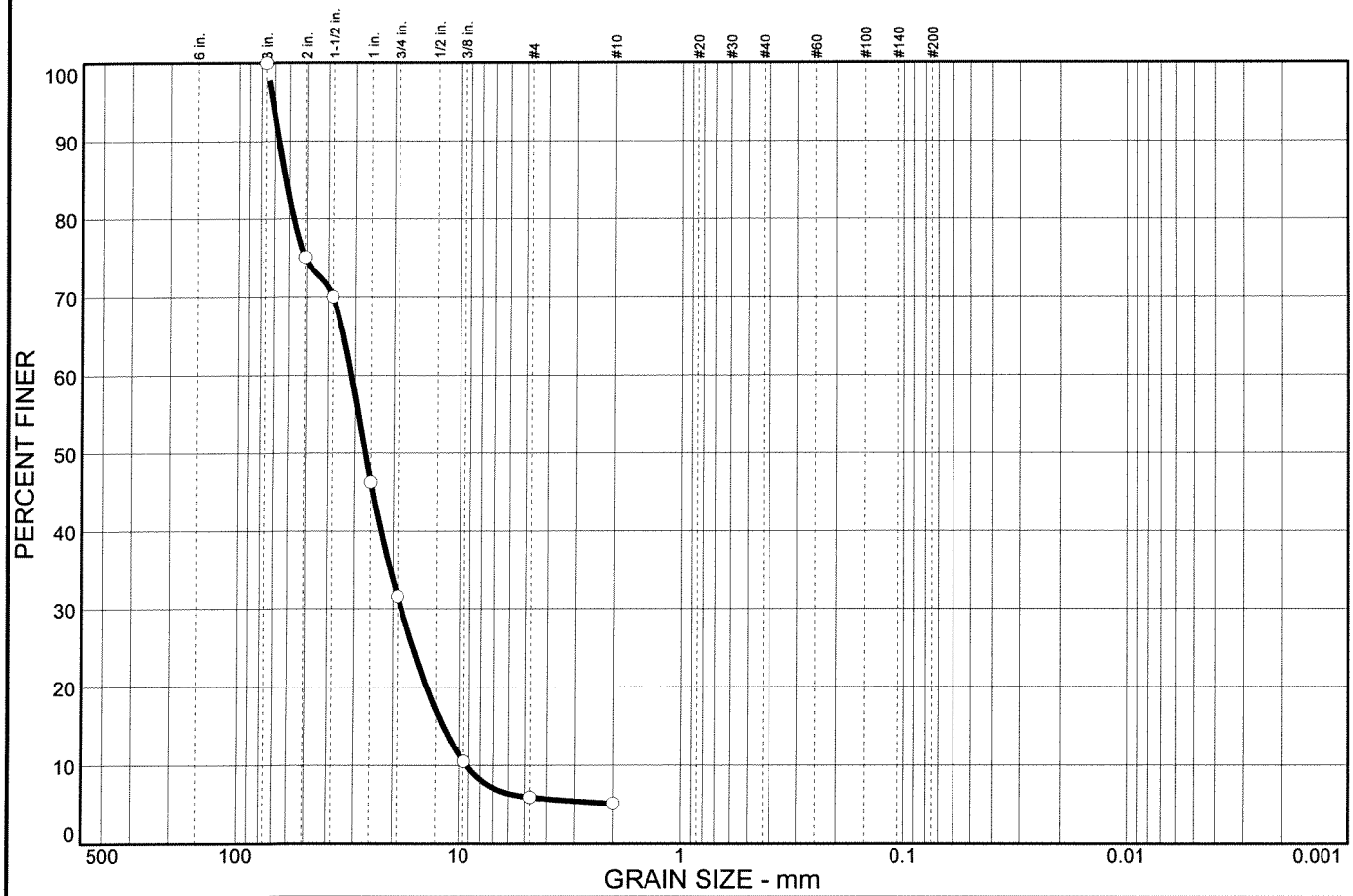
Remarks

Sample No.: 2-27-04 **Source of Sample:** **Date:**
Location: Site 16 Collins **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	68.4	25.7	0.8	5.1			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	75.1		
1.5 in.	70.0		
1 in.	46.3		
3/4 in.	31.6		
3/8 in.	10.5		
#4	5.9		
#10	5.1		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 62.2 D_{60}= 31.2 D_{50}= 26.9
D_{30}= 18.3 D_{15}= 11.8 D_{10}= 9.23
C_u= 3.38 C_c= 1.17

Classification

USCS= AASHTO=

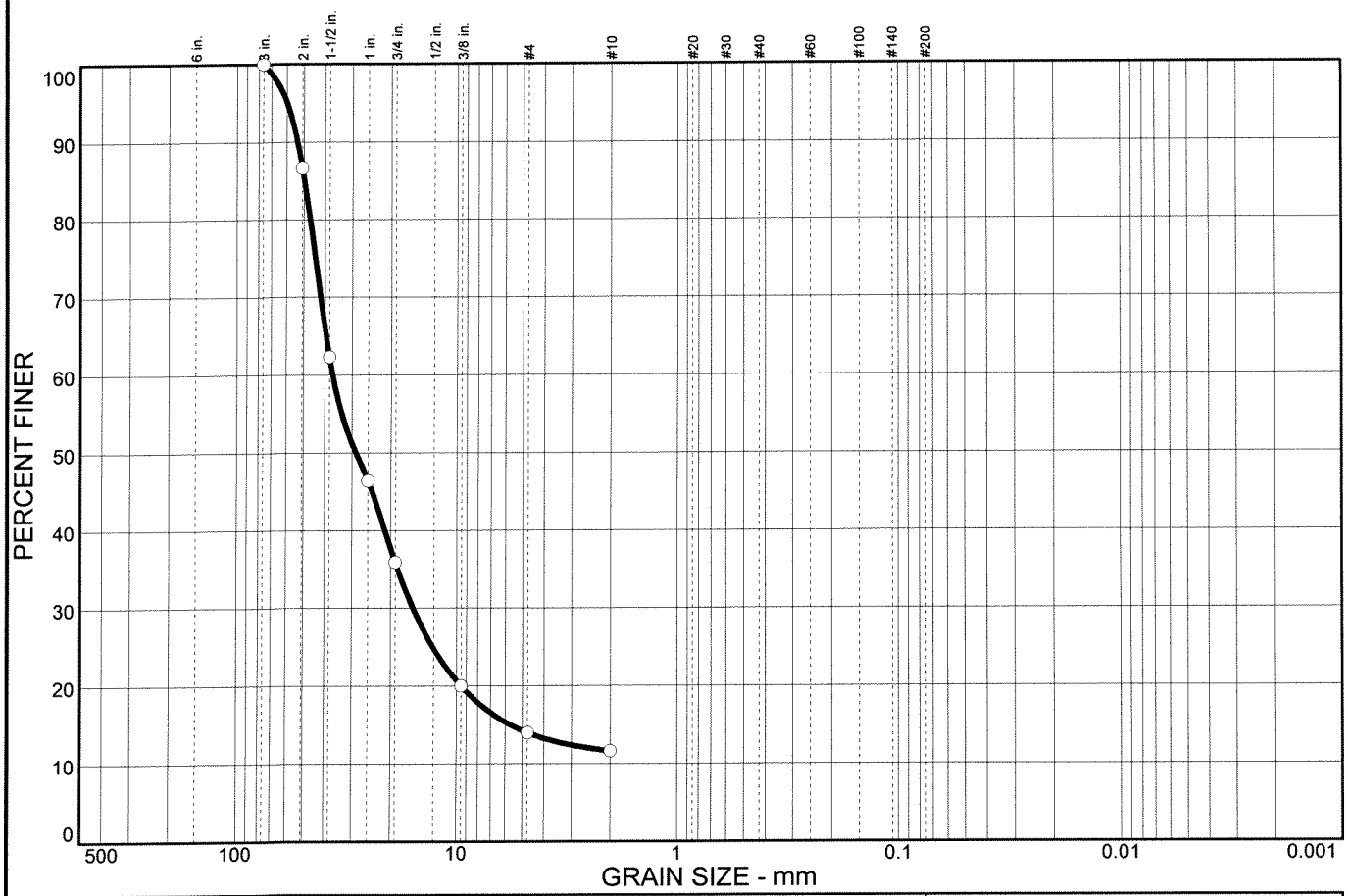
Remarks

Sample No.: 2-27-04 **Source of Sample:** **Date:**
Location: Site 17 Gold River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	64.1	21.9	2.4	11.6			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	86.7		
1.5 in.	62.3		
1 in.	46.4		
3/4 in.	35.9		
3/8 in.	20.0		
#4	14.0		
#10	11.6		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 49.6 D_{60}= 36.8 D_{50}= 28.8
D_{30}= 15.8 D_{15}= 5.67 D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

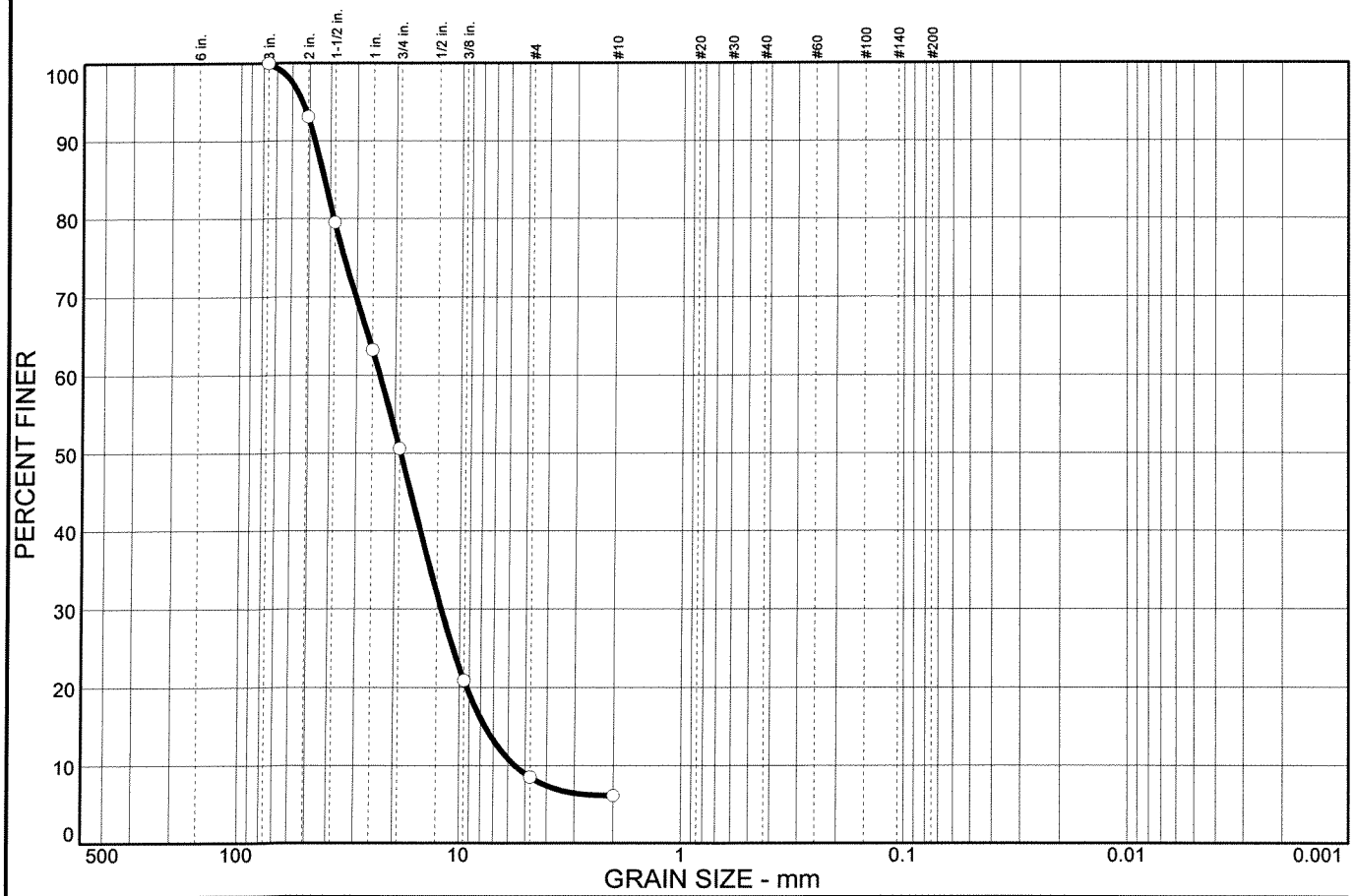
Remarks

Sample No.: 2-27-04 **Source of Sample:** **Date:**
Location: Site 18 Gold River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	49.4	42.1	2.4	6.1			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	93.1		
1.5 in.	79.5		
1 in.	63.2		
3/4 in.	50.6		
3/8 in.	20.9		
#4	8.5		
#10	6.1		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 42.5 D_{60}= 23.5 D_{50}= 18.8
D_{30}= 12.1 D_{15}= 7.63 D_{10}= 5.58
C_u= 4.21 C_c= 1.13

Classification

USCS= AASHTO=

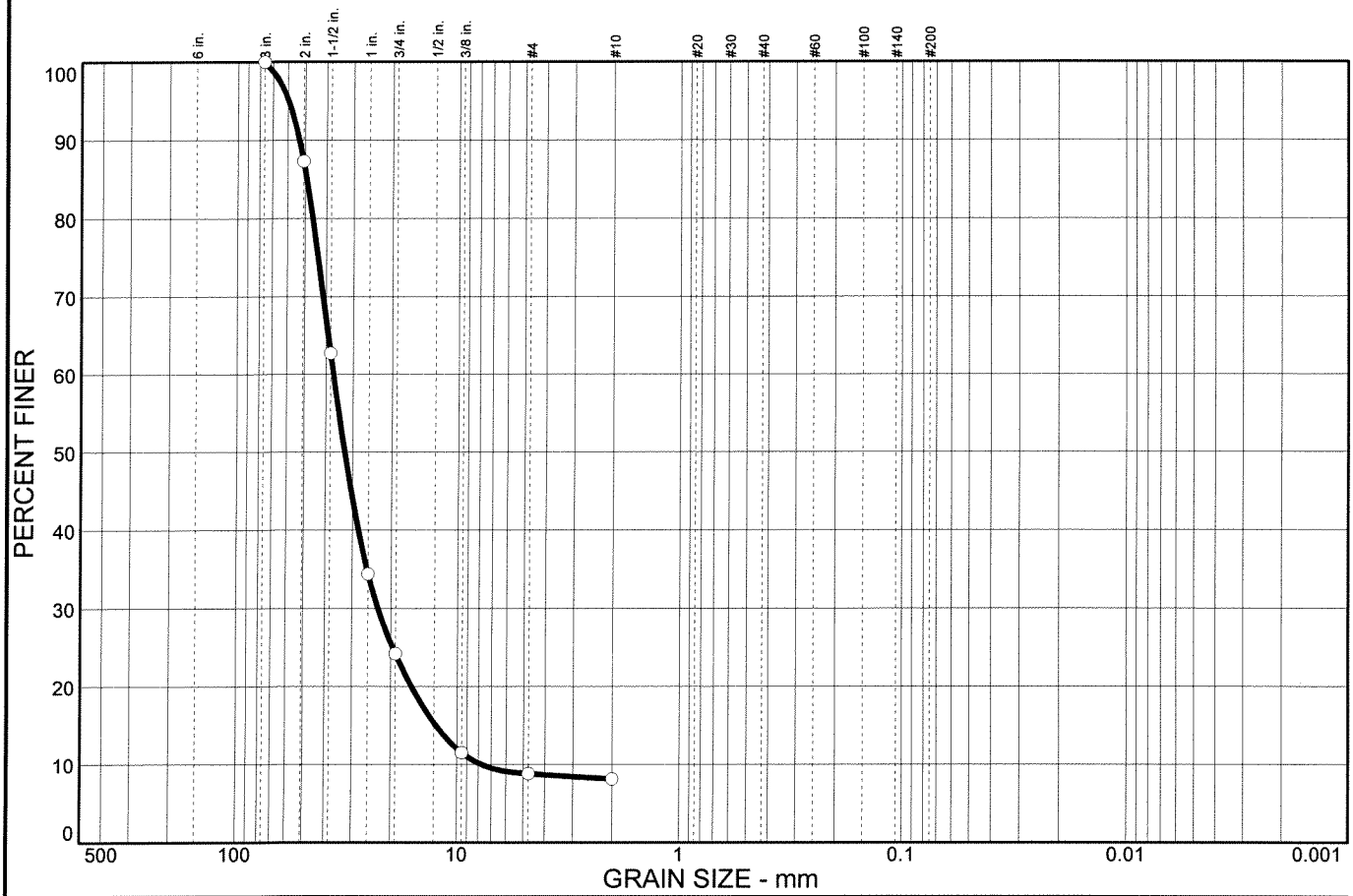
Remarks

Sample No.: 2-27-04 **Source of Sample:** **Date:**
Location: Site 19 Gold River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	75.8	15.4	0.7			8.1	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	87.3		
1.5 in.	62.7		
1 in.	34.4		
3/4 in.	24.2		
3/8 in.	11.5		
#4	8.8		
#10	8.1		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 49.1 D_{60}= 36.9 D_{50}= 32.7
D_{30}= 22.9 D_{15}= 12.5 D_{10}= 7.77
C_u= 4.76 C_c= 1.83

Classification

USCS= AASHTO=

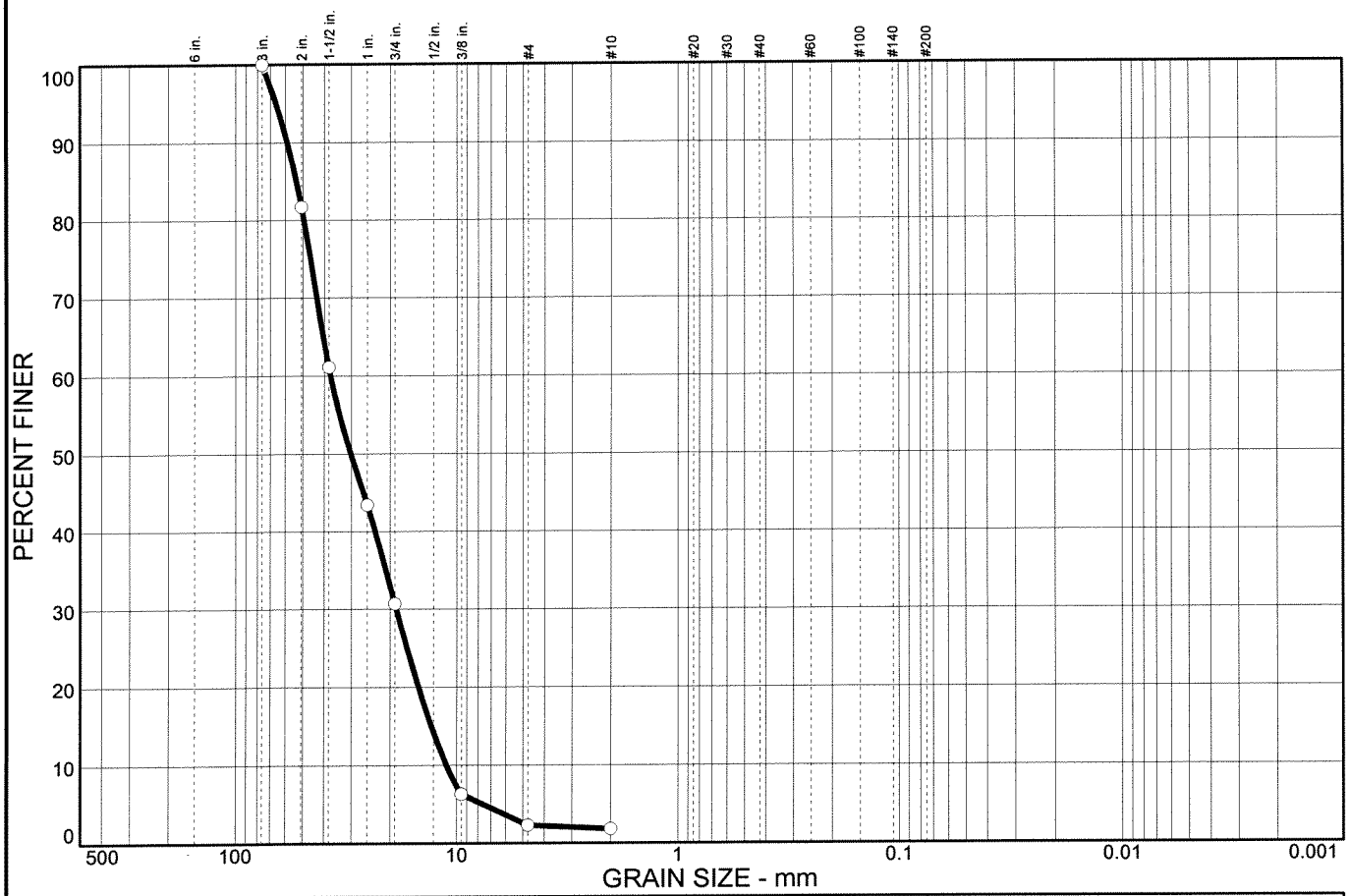
Remarks

Sample No.: 2-28-04 **Source of Sample:** **Date:**
Location: Site 20 Hardin **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	69.3	28.4	0.5	1.8			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	81.7		
1.5 in.	61.1		
1 in.	43.4		
3/4 in.	30.7		
3/8 in.	6.3		
#4	2.3		
#10	1.8		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 53.6 D_{60}= 37.4 D_{50}= 30.3
D_{30}= 18.8 D_{15}= 13.0 D_{10}= 11.1
C_u= 3.37 C_c= 0.85

Classification

USCS= AASHTO=

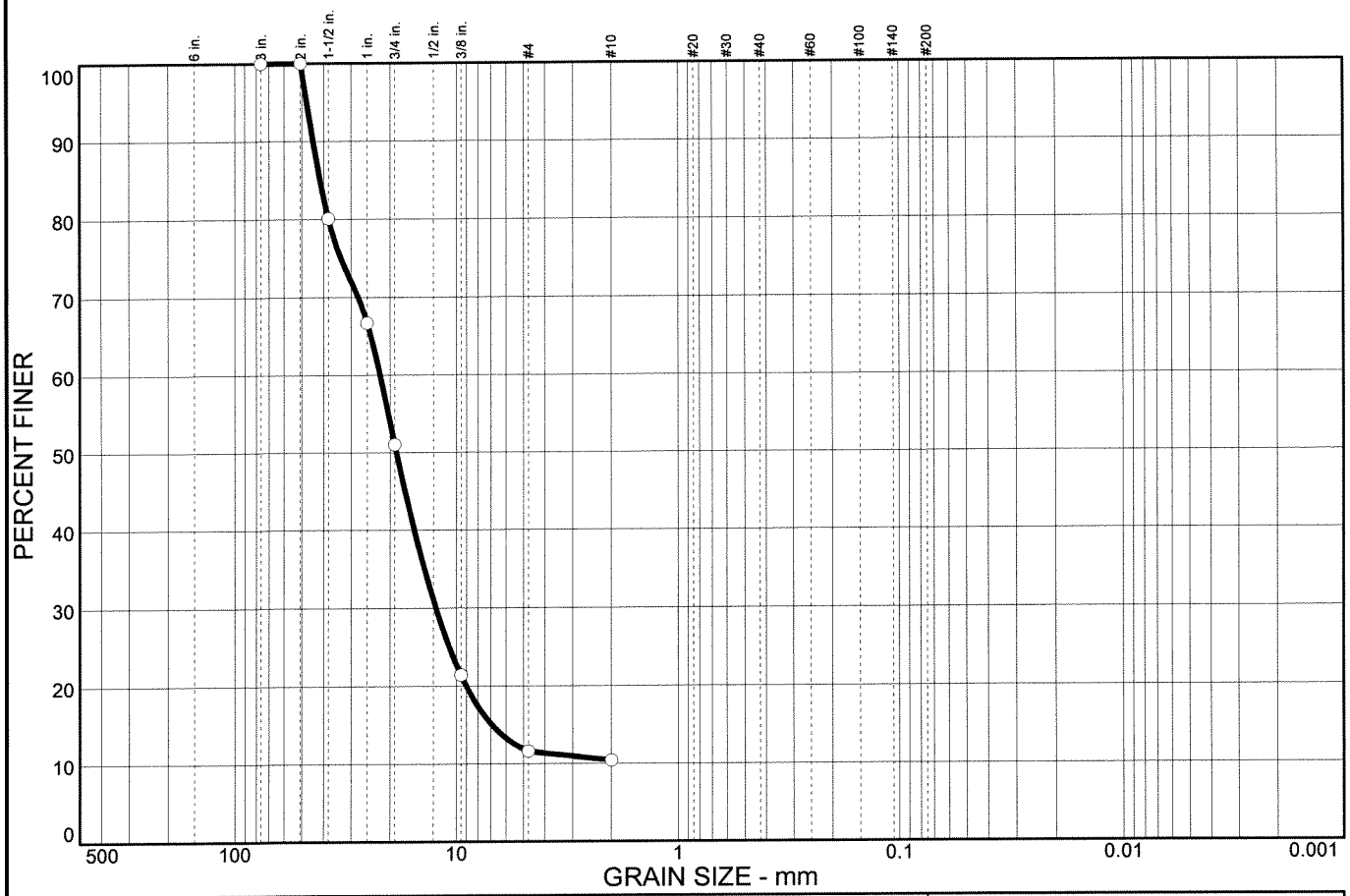
Remarks

Sample No.: 2-28-04 **Source of Sample:** **Date:**
Location: Site 21 Hardin **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	49.0	39.4	1.2	10.4			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	100.0		
1.5 in.	80.1		
1 in.	66.7		
3/4 in.	51.0		
3/8 in.	21.4		
#4	11.6		
#10	10.4		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 41.5 D_{60}= 22.2 D_{50}= 18.7
D_{30}= 12.4 D_{15}= 6.91 D_{10}=
C_u= C_c=

Classification

USCS= AASHTO=

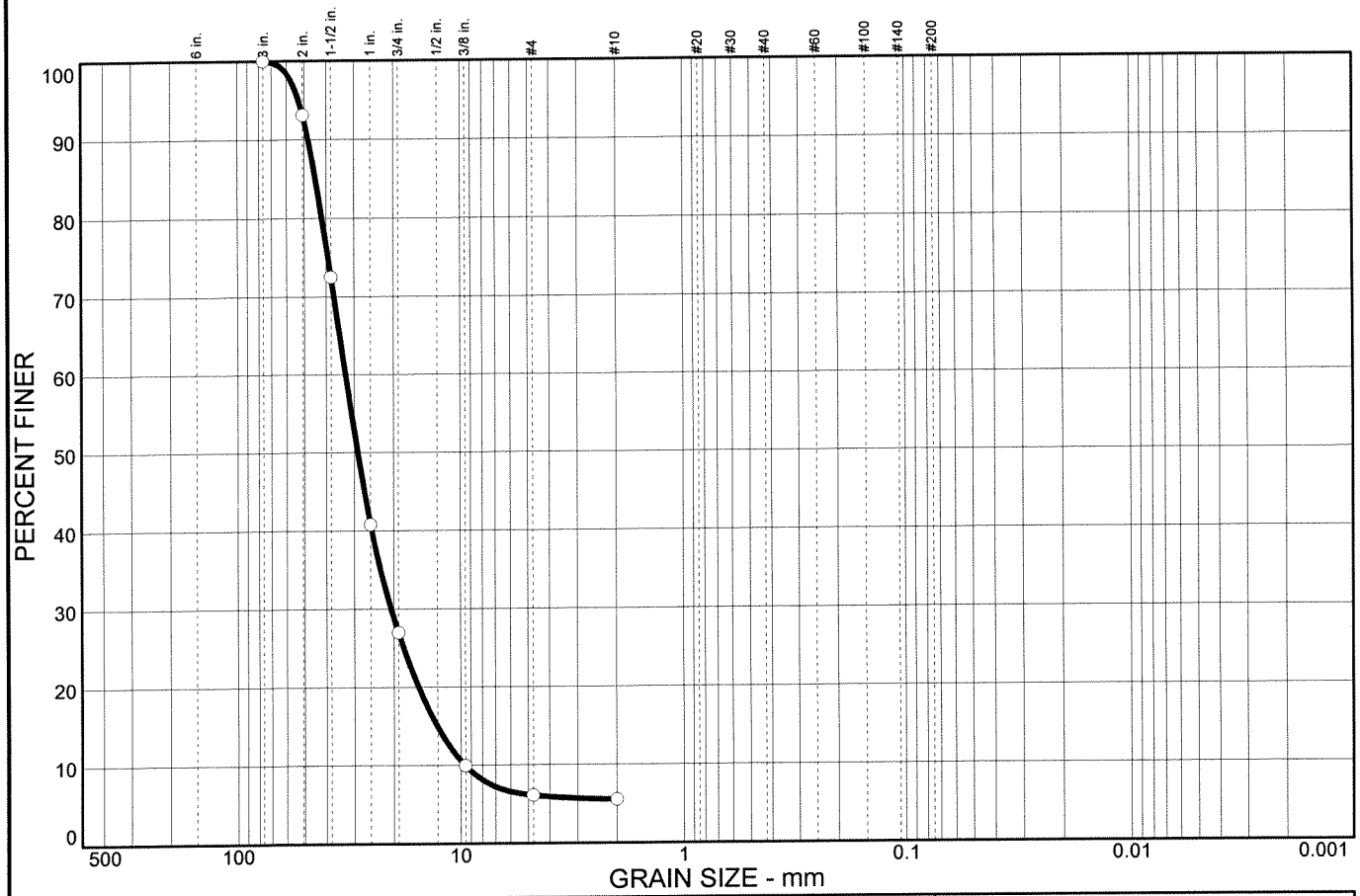
Remarks

Sample No.: 2-29-04 **Source of Sample:** **Date:**
Location: Site 22 Merced River Ranch **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	73.0	20.9	0.6	5.5			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	93.1		
1.5 in.	72.5		
1 in.	40.8		
3/4 in.	27.0		
3/8 in.	9.9		
#4	6.1		
#10	5.5		

* (no specification provided)

Soil Description

Grayish brown gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 44.5 D_{60}= 32.9 D_{50}= 29.0
D_{30}= 20.5 D_{15}= 12.8 D_{10}= 9.60
C_u= 3.42 C_c= 1.34

Classification

USCS= AASHTO=

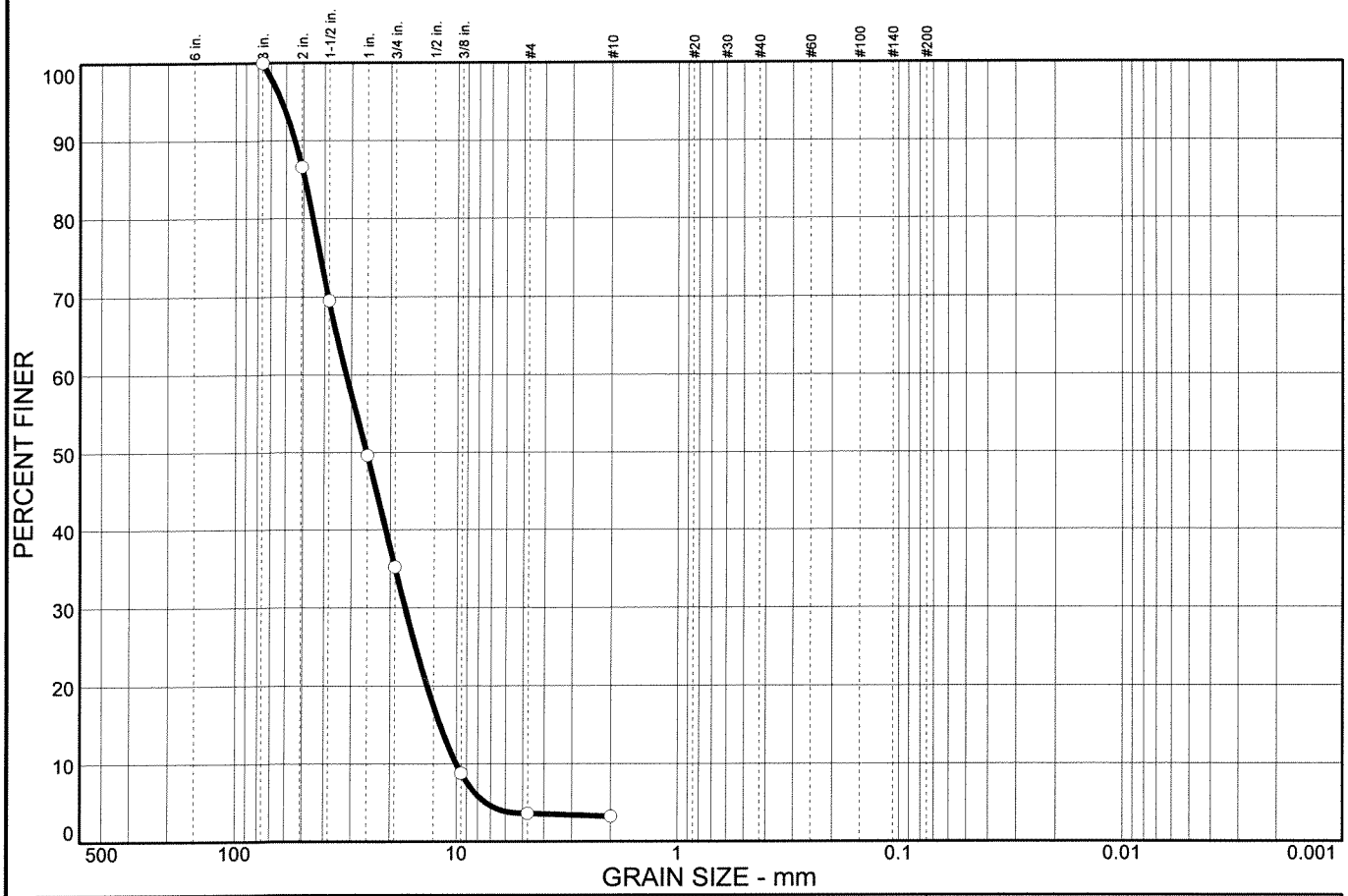
Remarks

Sample No.: 2-29-04 **Source of Sample:** **Date:**
Location: Site 23 Merced Irrigation District **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	64.8	31.6	0.4	3.2			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	86.6		
1.5 in.	69.5		
1 in.	49.6		
3/4 in.	35.2		
3/8 in.	8.8		
#4	3.6		
#10	3.2		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 49.3 D_{60}= 31.7 D_{50}= 25.6
D_{30}= 17.1 D_{15}= 11.9 D_{10}= 10.0
C_u= 3.16 C_c= 0.92

Classification

USCS= AASHTO=

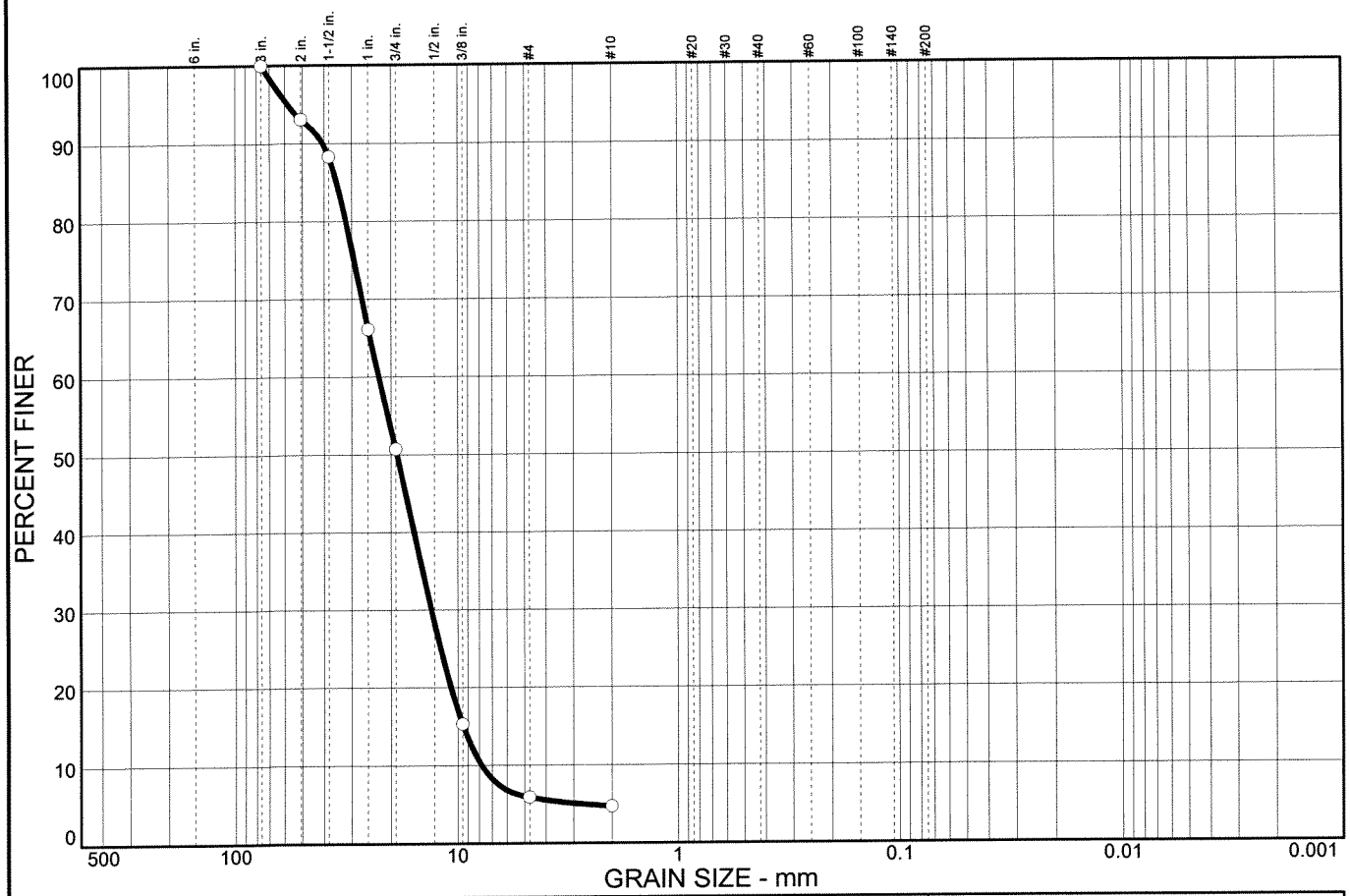
Remarks

Sample No.: 2-29-04 **Source of Sample:** **Date:**
Location: Site 24 Merced Irrigation District **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	49.3	44.8	1.2	4.7			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	93.1		
1.5 in.	88.3		
1 in.	66.1		
3/4 in.	50.7		
3/8 in.	15.3		
#4	5.9		
#10	4.7		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 35.1 D_{60}= 22.8 D_{50}= 18.8
D_{30}= 13.1 D_{15}= 9.44 D_{10}= 7.79
C_u= 2.92 C_c= 0.97

Classification

USCS= AASHTO=

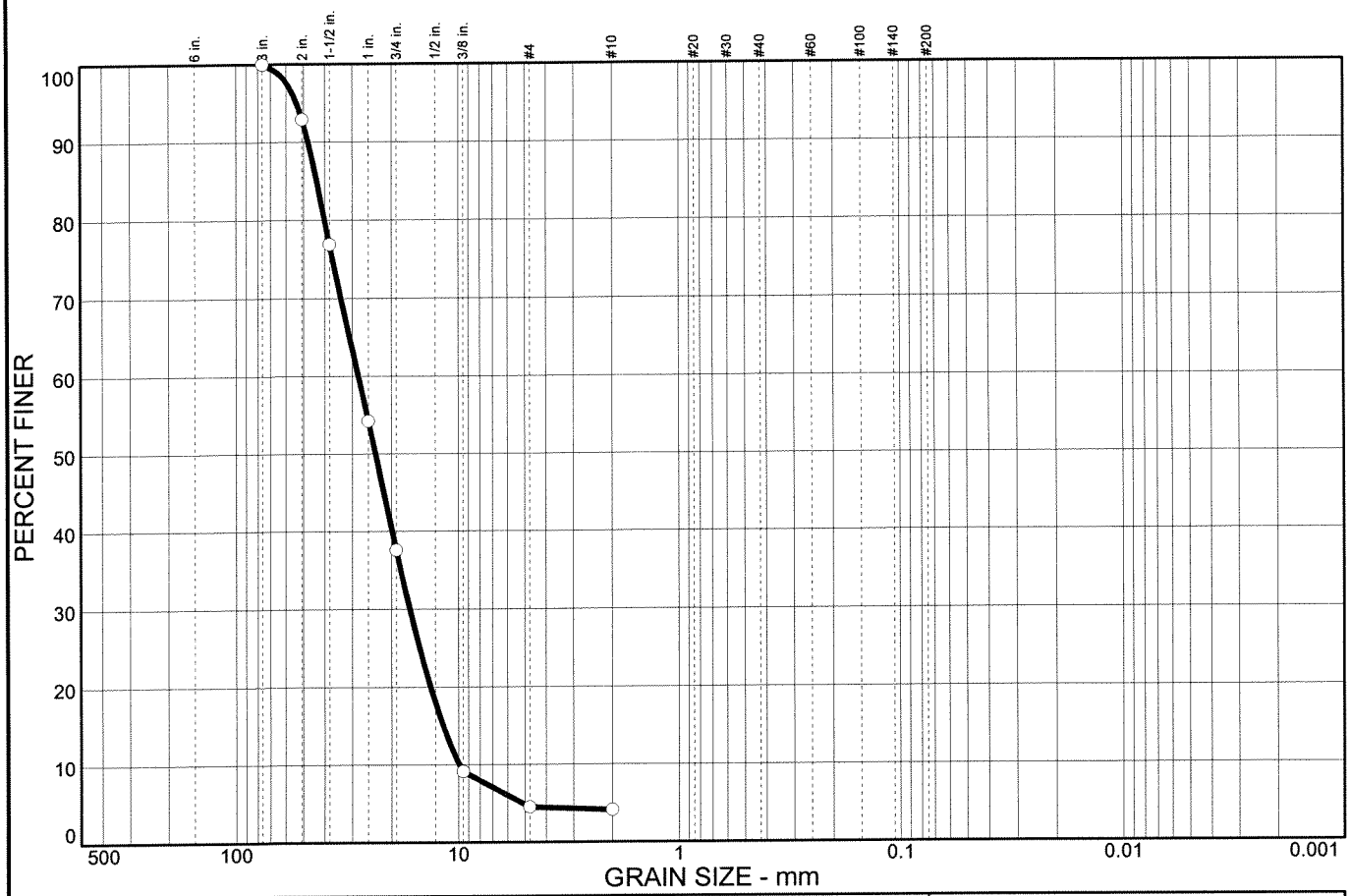
Remarks

Sample No.: 3-01-04 **Source of Sample:** **Date:**
Location: Site 25 Merced Irrigation District **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**

Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	CRS.	FINE	CRS.	MEDIUM	FINE	SILT	CLAY
0.0	62.4	33.1	0.4	4.1			

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3 in.	100.0		
2 in.	92.9		
1.5 in.	76.9		
1 in.	54.2		
3/4 in.	37.6		
3/8 in.	9.1		
#4	4.5		
#10	4.1		

* (no specification provided)

Soil Description

Brownish gray gravel

Atterberg Limits

PL= LL= PI=

Coefficients

D_{85}= 43.6 D_{60}= 28.2 D_{50}= 23.6
D_{30}= 16.5 D_{15}= 11.7 D_{10}= 9.90
C_u= 2.85 C_c= 0.98

Classification

USCS= AASHTO=

Remarks

Sample No.: 3-01-04 **Source of Sample:** **Date:**
Location: Site 26 Merced County **Elev./Depth:**

SIGNET Testing Labs

Client: URS/OAKLAND
Project: Merced River Restoration Plan
Volume and Texture Analysis of Dredger Tailings Piles
Project No: 26814344 **Plate**