

Table 1b
Fines Pile Density Test Results
Clayey Isolation Layer (1-ft-thick)
Former ASARCO Smelter Site - El Paso, Texas

Test #	Date	Location	Moisture Content (%)	Dry Density (pcf)	Percent Compaction (%)	Proctor	
		CQA Point				Max dry density (pcf)	Optimum Moisture (%)
1	8/18/2016	38	14.3	111.7	92	122.1	12.6
2	8/18/2016	17	13.8	116.3	95	122.1	12.6
3	8/18/2016	44	13.6	111.2	91	122.1	12.6
4	8/18/2016	1	14.0	109.9	90	122.1	12.6
5	8/18/2016	11	13.1	113.5	93	122.1	12.6
6	8/19/2016	23	14.7	112.3	92	122.1	12.6
7	8/19/2016	28	14.8	115.5	95	122.1	12.6
8	8/23/2016	51	13.0	114.3	94	122.9	11.7
9	8/23/2016	53	13.0	111.0	90	122.9	11.7
10	8/23/2016	54	13.9	111.9	91	122.9	11.7
11	8/24/2016	58	13.6	113.1	92	122.9	11.7
12	8/24/2016	57	14.0	115.4	94	122.9	11.7
13	8/24/2016	97	13.8	112.0	91	122.9	11.7
14	9/8/2016	117	13.7	112.1	92	122.1	12.6
15	9/8/2016	78	14.1	111.3	91	122.1	12.6
16	9/9/2016	79	15.4	111.0	91	122.1	12.6
17	9/9/2016	73	14.1	112.1	92	122.1	12.6
18	9/9/2016	71	14.9	110.4	90	122.1	12.6

Notes:
 % = percent
 CQA = Construction Quality Assurance
 pcf = pounds per cubic foot
 $Y_{dry, Troxler}$ = Dry density obtained at the field using a nuclear density gauge
 $Y_{moist, Troxler}$ = Wet density obtained at the field using a nuclear density gauge
 $W_{c, Troxler}$ = Moisture content obtained at the field using a nuclear density gauge
 $Y_{dry, max}$ = Maximum dry density obtainable when the compaction is carried out on the material at optimum moisture content

Minimum Field CQA Testing Requirements for Structural Fill = 1 per 1,000 yd³ of placed fill or a minimum of 2 per lift