

Table 1
North Pad Field Density Test Results
Clayey Isolation Layer (1-ft-thick)
Former ASARCO Smelter Site - El Paso, Texas

Test #	Date	Location	Test Type	Lift Thickness (in.)	Moisture Content (%)	Dry Density (pcf)	Percent Compaction (%)	Proctor		Notes
		Approx. CQA Point						Max. Dry Density (pcf)	Optimum Moisture Content (%)	
1	8/25/2015	559		12	14.2	112.1	94	119.4	13.2	
2	8/25/2015	551		12	12.8	104.8	88	119.4	13.2	Test Failed
3	8/25/2015	551	R	12	11.3	109.2	92	119.4	13.2	Retest of #2
4	8/26/2015	553		12	10.4	117.1	98	119.4	13.2	
5	8/26/2015	553		12	10.4	117.2	98	119.4	13.2	
6	8/26/2015	554		12	12.4	115.6	97	119.4	13.2	
7	8/26/2015	554		12	12.3	114.3	96	119.4	13.2	
8	8/26/2015	521		12	13.2	113.8	95	119.4	13.2	
12	8/26/2015	521		12	13.1	113.7	95	119.4	13.2	
13	8/27/2015	526		12	11.4	111.6	94	118.5	13.5	
14	8/27/2015	515		12	13.9	112.4	95	118.5	13.5	
15	8/27/2015	482		12	11.3	116.6	98	118.5	13.5	
16	8/27/2015	487		12	11.5	107.9	91	118.5	13.5	
17	8/27/2015	488		12	11.7	111.0	94	118.5	13.5	
18	8/28/2015	501		12	13.4	111.0	92	121.0	12.2	
19	8/28/2015	502		12	14.3	110.8	92	121.0	12.2	
20	8/28/2015	468		12	12.8	116.1	96	121.0	12.2	
21	8/28/2015	471		12	12.7	113.0	93	121.0	12.2	
22	8/28/2015	473		12	13.1	113.2	94	121.0	12.2	
23	8/28/2015	501		12	12.2	115.6	96	121.0	12.2	
24	8/31/2015	452		12	9.9	109.7	91	121.0	12.2	
25	8/31/2015	436		12	12.1	115.4	95	121.0	12.2	
26	8/31/2015	457		12	11.2	115.3	95	121.0	12.2	
27	8/31/2015	458		12	9.6	113.9	94	121.0	12.2	
28	8/31/2015	444		12	10.0	118.8	98	121.0	12.2	
29	9/1/2015	449		12	11.9	109.9	91	121.0	12.2	
30	9/1/2015	379		12	14.2	115.6	96	121.0	12.2	
31	9/1/2015	403		12	10.0	122.0	100+	121.0	12.2	
32	9/1/2015	356		12	11.1	117.3	97	121.0	12.2	
33	9/1/2015	352		12	12.6	111.6	92	121.0	12.2	
34	9/2/2015	358		12	14.2	112.2	93	121.0	12.2	
35	9/2/2015	285		12	11.4	115.4	95	121.0	12.2	
36	9/2/2015	284		12	10.7	112.7	93	121.0	12.2	
37	9/9/2015	274		12	11.4	114.3	95	120.6	12.3	
38	9/9/2015	302		12	10.9	113.5	94	120.6	12.3	
39	9/9/2015	245		12	11.3	113.4	94	120.6	12.3	
40	9/9/2015	243		12	10.7	117.7	98	120.6	12.3	
41	9/10/2015	224		12	11.2	116.5	97	120.6	12.3	
42	9/10/2015	223		12	10.4	114.9	95	120.6	12.3	
43	9/10/2015	197		12	9.7	121.7	99	123.3	10.8	
44	9/10/2015	194		12	11.7	112.0	91	123.3	10.8	
45	9/11/2015	200		12	13.9	116.2	96	120.6	12.3	
46	9/11/2015	198		12	12.5	113.0	94	120.6	12.3	
47	9/14/2015	333		12	10.3	115.8	96	120.6	12.3	
48	9/14/2015	168		12	11.0	119.0	97	123.0	10.8	
49	9/14/2015	167		12	13.1	117.9	96	123.0	10.8	
50	9/15/2015	123		12	12.6	114.9	95	120.6	12.3	
51	9/15/2015	71		12	12.2	115.8	96	120.6	12.3	
52	9/16/2015	50		12	12.9	115.8	96	120.6	12.3	
53	9/16/2015	372		12	9.5	111.8	93	120.6	12.3	
54	9/16/2015	287		12	10.3	111.7	93	120.6	12.3	
55	9/17/2015	350		12	11.7	111.0	93	119.9	13.1	
56	9/17/2015	323		12	12.5	109.3	91	119.9	13.1	
57	9/17/2015	180		12	10.7	112.8	94	120.6	12.3	
58	9/17/2015	156		12	11.7	116.8	97	120.6	12.3	
59	9/18/2015	214		12	12.3	111.4	92	121.0	12.2	
60	9/18/2015	158		12	12.8	110.8	92	121.0	12.2	
61	9/18/2015	54		12	11.3	115	95	120.9	12.6	

Table 1
North Pad Field Density Test Results
Clayey Isolation Layer (1-ft-thick)
Former ASARCO Smelter Site - El Paso, Texas

Test #	Date	Location		Test Type	Lift Thickness (in.)	Moisture Content (%)	Dry Density (pcf)	Percent Compaction (%)	Proctor		Notes
		Approx. CQA Point							Max. Dry Density (pcf)	Optimum Moisture Content (%)	
62	9/18/2015	55			12	12.7	113.2	94	120.9	12.6	
63	9/19/2015	10			12	10.9	112.4	93	120.9	12.6	
64	9/19/2015	8			12	12.6	113.9	94	120.9	12.6	
65	9/22/2015	27			12	15.0	113.9	95	119.9	13.1	
66	9/22/2015	175			12	13.9	111.1	92	119.9	13.1	
67	9/22/2015	176			12	14.2	114.3	95	119.9	13.1	
68	9/22/2015	288			12	15.1	108.5	90	119.9	13.1	
69	9/24/2015	506			12	11.6	115	94	122.6	11.8	
70	9/28/2015	176			12	12.2	115.7	96	120.9	12.6	
71	9/28/2015	286			12	13.8	109.9	91	120.9	12.6	
72	10/26/2015	371			12	12.8	110.9	91	120.9	12.6	Clay along slope
73	10/27/2015	395			12	10.7	114.3	95	120.9	12.6	Clay along slope
74	10/27/2015	375			12	15.2	109.4	90	120.9	12.6	Clay along slope
75	10/27/2015	325			12	12.2	115.3	95	120.9	12.6	Clay along slope
76	10/27/2015	187			12	13.3	113.2	94	120.9	12.6	Clay along slope
77	10/27/2015	134			12	15.4	111.7	92	120.9	12.6	Clay along slope
78	10/27/2015	13			12	14.3	112.9	93	120.9	12.6	Clay along slope
79	10/27/2015	3			12	11.0	114.6	95	120.9	12.6	Clay along slope
80	10/27/2015	40			12	10.0	119.1	99	120.9	12.6	Clay along slope
81	10/27/2015	85			12	11.1	109.7	91	120.9	12.6	Clay along slope
82	10/28/2015	352			12	10.9	111.1	92	120.9	12.6	Clay along slope
83	10/28/2015	559			12	13.1	111.3	92	120.9	12.6	Clay along slope
84	10/30/2015	186			12	13.5	115.9	96	120.9	12.6	
85	10/30/2015	185			12	13.8	113.9	94	120.9	12.6	
86	11/2/2015	184			12	9.6	110.9	92	120.9	12.6	
87	11/2/2015	214			12	9.6	109.3	90	120.9	12.6	
88	11/2/2015	10			12	14.2	110.3	90	122.6	11.8	Clay along slope
89	11/2/2015	8			12	13.4	118	96	122.6	11.8	Clay along slope
90	11/2/2015	184			12	13.3	112.3	93	120.9	12.6	

Notes:

pcf = pounds per cubic foot

R = Re-test of original failing test

Table 2
North Pad Field Density Test Results - Silty Sand (1-ft-thick lifts)
Former ASARCO Smelter Site - El Paso, Texas

Test #	Date	Location	Lift Thickness (in.)	Moisture Content (%)	Dry Density (pcf)	Percent Compaction (%)	Proctor		Notes
		Approx. CQA Point					Max. Dry Density (pcf)	Optimum Moisture Content (%)	
1	9/21/2015	543	12	9.3	105.7	92	115.1	12.2	
2	9/21/2015	547	12	9.7	104.1	90	115.1	12.2	
3	9/22/2015	554	12	12.2	105.1	91	115.1	12.2	
4	9/22/2015	553	12	9.7	108.1	94	115.1	12.2	
5	9/22/2015	543	12	12.9	105.8	92	115.1	12.2	
6	9/22/2015	556	12	9.4	110.3	96	115.1	12.2	
7	9/22/2015	545	12	14.2	107.3	93	115.1	12.2	
8	9/23/2015	533	12	12.8	105.3	92	115.1	12.2	
9	9/23/2015	532	12	11.6	111.8	97	115.1	12.2	
10	9/23/2015	531	12	11.2	108.7	94	115.1	12.2	
11	9/23/2015	534	12	10.1	112.3	98	115.1	12.2	
12	9/23/2015	529	12	9.6	113.5	99	115.1	12.2	
13	9/23/2015	509	12	14.3	110.3	96	115.1	12.2	
14	9/23/2015	524	12	14.1	106.1	92	115.1	12.2	
15	9/23/2015	516	12	11.1	111.6	97	115.1	12.2	
16	9/29/2015	435	12	12.6	109.3	95	115.1	12.2	
17	9/29/2015	445	12	13.1	113.8	99	115.1	12.2	
18	9/29/2015	400	12	11	109.0	95	115.1	12.2	
19	9/29/2015	403	12	11.4	110.2	96	115.1	12.2	
20	9/30/2015	352	12	11	105.7	92	115.1	12.2	
21	9/30/2015	407	12	10.7	116.7	97	119.8	11.1	
22	9/30/2015	333	12	9.2	104.7	91	115.1	12.2	
23	9/30/2015	329	12	8.9	110.3	92	119.8	11.1	
24	9/30/2015	314	12	9.4	110.8	93	119.8	11.1	
25	10/1/2015	260	12	11.3	107.7	94	115.1	12.2	
26	10/1/2015	231	12	9.2	107.3	93	115.1	12.2	
27	10/1/2015	169	12	9.3	111.8	97	115.1	12.2	
28	10/1/2015	224	12	11.3	108.4	94	115.1	12.2	
29	10/1/2015	277	12	9.2	104.7	91	115.1	12.2	
30	10/1/2015	336	12	11	109.1	95	115.1	12.2	
31	10/2/2015	219	12	12	109.8	95	115.1	12.2	
32	10/2/2015	247	12	10.7	103.9	90	115.1	12.2	
33	10/2/2015	302	12	12.7	111.9	97	115.1	12.2	
34	10/2/2015	244	12	10.4	109.1	91	119.8	11.1	
35	10/2/2015	272	12	13.8	111.7	93	119.8	11.1	
36	10/2/2015	274	12	12.5	109.5	91	119.8	11.1	
37	10/2/2015	301	12	8.9	108.1	90	119.8	11.1	
38	10/5/2015	42	12	12.3	112.8	94	119.8	11.1	
39	10/6/2015	62	12	13.7	108.0	92	118.1	12.8	
40	10/6/2015	43	12	13.1	110.9	94	118.1	12.8	
41	10/6/2015	46	12	13	107.3	91	118.1	12.8	
42	10/6/2015	315	12	8.5	110.0	92	119.8	11.1	
43	10/6/2015	242	12	9.7	115.7	97	119.8	11.1	
44	10/6/2015	8	12	13.2	109.3	91	119.8	11.1	
45	10/6/2015	32	12	9.3	105.2	91	115.1	12.2	
46	10/7/2015	543	12	11	108.2	94	115.1	12.2	

Table 2
North Pad Field Density Test Results - Silty Sand (1-ft-thick lifts)
Former ASARCO Smelter Site - El Paso, Texas

Test #	Date	Location	Lift Thickness (in.)	Moisture Content (%)	Dry Density (pcf)	Percent Compaction (%)	Proctor		Notes
		Approx. CQA Point					Max. Dry Density (pcf)	Optimum Moisture Content (%)	
47	10/7/2015	556	12	9.2	109.3	95	115.1	12.2	
48	10/8/2015	533	12	11.2	111.4	94	118.1	12.8	
49	10/8/2015	555	12	11.1	109.7	93	118.1	12.8	
50	10/8/2015	151	12	9.3	109.3	95	115.1	12.2	
51	10/8/2015	233	12	14.1	103.8	90	115.1	12.2	
52	10/8/2015	532	12	13.7	106.3	92	115.1	12.2	
53	10/8/2015	498	12	12.7	107.1	93	115.1	12.2	
54	10/8/2015	474	12	9.1	110.7	92	119.8	11.1	
55	10/8/2015	477	12	8.8	109.6	91	119.8	11.1	
56	10/9/2015	417	12	11.4	105.8	92	115.1	12.2	
57	10/9/2015	405	12	14.1	104.0	90	115.1	12.2	
58	10/9/2015	233	12	10.9	105.7	92	115.1	12.2	
59	10/9/2015	206	12	14.6	109.1	95	115.1	12.2	
60	10/9/2015	289	12	11.3	108.7	94	115.1	12.2	
61	10/9/2015	317	12	11.3	108.0	94	115.1	12.2	
62	10/9/2015	383	12	11	106.4	92	115.1	12.2	
63	10/9/2015	379	12	12.5	113.0	93	121.4	11.6	
64	10/9/2015	352	12	8.1	109.9	92	119.8	11.1	
65	10/9/2015	361	12	9.1	110.7	92	119.8	11.1	
66	10/10/2015	299	12	11.5	106.0	92	115.1	12.2	
67	10/10/2015	243	12	12.7	110.0	93	118.1	12.8	
68	10/10/2015	217	12	8.8	108.6	91	119.8	11.1	
69	10/10/2015	302	12	9.8	105.4	92	115.1	12.2	
70	10/10/2015	86	12	9.9	111.0	93	119.8	11.1	
71	10/12/2015	371	12	10.2	105.5	92	115.1	12.2	
72	10/12/2015	103	12	11.6	110.9	96	115.1	12.2	
73	10/12/2015	78	12	10.9	108.7	91	119.8	11.1	
74	10/12/2015	181	12	13	109.3	91	119.8	11.1	
75	10/13/2015	301	12	11.5	108.0	94	115.1	12.2	
76	10/13/2015	321	12	12.1	109.2	91	119.8	11.1	
77	10/13/2015	209	12	9.9	108.2	90	119.8	11.1	
78	10/13/2015	106	12	13.2	109.8	92	119.8	11.1	
79	10/13/2015	57	12	11.2	109.5	91	119.8	11.1	
80	10/14/2015	253	12	14.9	103.8	90	115.1	12.2	
81	10/14/2015	281	12	10.5	105.5	92	115.1	12.2	
82	10/14/2015	68	12	9.5	109.5	91	119.8	11.1	
83	10/14/2015	64	12	9.3	108.6	91	119.8	11.1	
84	10/14/2015	169	12	9.5	106.9	93	115.1	12.2	
85	10/14/2015	265	12	9.3	105.1	91	115.1	12.2	
86	10/14/2015	182	12	8.1	108.4	90	119.8	11.1	
87	10/14/2015	321	12	12.1	111.2	93	119.8	11.1	
88	10/14/2015	157	12	9.9	108.2	90	119.8	11.1	
89	10/14/2015	108	12	8.1	108.3	90	119.8	11.1	
90	10/14/2015	60	12	12.5	108.5	91	119.8	11.1	
91	10/15/2015	65	12	10.7	109.4	91	119.8	11.1	
92	10/15/2015	64	12	13.5	112.0	93	119.8	11.1	

Table 2
North Pad Field Density Test Results - Silty Sand (1-ft-thick lifts)
Former ASARCO Smelter Site - El Paso, Texas

Test #	Date	Location	Lift Thickness (in.)	Moisture Content (%)	Dry Density (pcf)	Percent Compaction (%)	Proctor		Notes
		Approx. CQA Point					Max. Dry Density (pcf)	Optimum Moisture Content (%)	
93	10/15/2015	62	12	13.1	113.1	94	119.8	11.1	
94	10/20/2015	158	12	10.7	106.4	90	118.1	12.8	
95	10/20/2015	108	12	10.3	107.9	91	118.1	12.8	
96	10/20/2015	84	12	8.9	110.3	92	119.8	11.1	
97	10/20/2015	348	12	8.1	110.4	92	119.8	11.1	
98	10/20/2015	294	12	9.1	113.6	95	119.8	11.1	
99	10/20/2015	268	12	9.6	113.2	94	119.8	11.1	
100	10/20/2015	296	12	12.5	108.0	90	119.8	11.1	
101	10/20/2015	227	12	11.7	107.7	90	119.8	11.1	
102	10/20/2015	171	12	10.4	107.9	90	119.8	11.1	
103	10/21/2015	173	12	9.8	108.1	92	118.1	12.8	
104	10/22/2015	285	12	11	109.3	93	118.1	12.8	
105	10/22/2015	201	12	12	109.0	91	119.8	11.1	
106	10/22/2015	158	12	12.2	103.7	90	115.1	12.2	
107	10/22/2015	59	12	8.5	109.5	91	119.8	11.1	
108	10/22/2015	23	12	9.7	109.4	91	119.8	11.1	
109	10/22/2015	5	12	10.5	107.8	90	119.8	11.1	
110	10/22/2015	74	12	14	109.6	91	119.8	11.1	
111	10/22/2015	128	12	13	110.2	92	119.8	11.1	
112	10/23/2015	128	12	10.7	111.9	93	119.8	11.1	
113	10/23/2015	204	12	9.6	108.3	90	119.8	11.1	
114	10/23/2015	231	12	9.9	104.7	91	115.1	12.2	obvious change in material
115	10/23/2015	185	12	11.5	104.0	90	115.1	12.2	
116	10/23/2015	315	12	8.9	108.5	91	119.8	11.1	
117	10/26/2015	312	12	11.6	103.9	90	115.1	12.2	
118	10/26/2015	372	12	14.7	104.9	91	115.1	12.2	
119	10/26/2015	351	12	10.9	111.2	93	119.8	11.1	
120	10/26/2015	238	12	12.4	109.4	91	119.8	11.1	
121	10/26/2015	260	12	10.2	114.3	95	119.8	11.1	
122	10/26/2015	348	12	10.2	106.5	90	118.1	12.8	
123	10/26/2015	324	12	11	107.7	91	118.1	12.8	
124	10/26/2015	314	12	9.9	107.3	91	118.1	12.8	
125	10/26/2015	209	12	11	113.1	96	118.1	12.8	
126	10/26/2015	293	12	10	115.8	98	118.1	12.8	
127	10/26/2015	295	12	10.1	117.0	99	118.1	12.8	
128	11/10/2015	446	6	8.6	107.7	90	119.8	11.1	Regrade area near North Pond
129	11/10/2015	339	6	9.1	108.7	91	119.8	11.1	Regrade area near North Pond

Notes:
in. = inches
pcf = pounds per cubic foot

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

Table 3

**South Pad 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		Notes
		Approx. CQA Point				Max. Dry Density (pcf)	Optimum Moisture Content (%)	
1	3/11/2016	32	15.4	111.2	91	122.6	12.8	slope Proctor: EBS Clayey Stockpile 022416
2	3/12/2016	29	15.0	110.5	90	122.6	12.8	slope
3	3/12/2016	54	13.8	115.7	94	122.6	12.8	slope
4	3/12/2016	37	14.2	120.9	99	122.6	12.8	slope
5	3/14/2016	7	14.0	111.7	91	122.6	12.8	
6	3/14/2016	14	14.7	110.7	90	122.6	12.8	
7	3/15/2016	170	15.3	106.6	91	117.1	13.2	Proctor: EBS Clayey Stockpile 030916
8	3/15/2016	181	15.6	107.8	92	117.1	13.2	
9	3/16/2016	91	15.1	106.1	91	117.1	13.2	
10	3/16/2016	100	15.2	113.8	97	117.1	13.2	
11	3/16/2016	127	15.5	109.0	93	117.1	13.2	
12	3/16/2016	103	14.5	112.0	96	117.1	13.2	
13	3/17/2016	67	15.5	109.4	93	117.1	13.2	
14	3/17/2016	87	16.2	110.4	94	117.1	13.2	
15	3/17/2016	97	15.4	109.4	93	117.1	13.2	
16	3/18/2016	119	15.4	106.9	91	117.1	13.2	
17	3/18/2016	109	14.9	111.1	95	117.1	13.2	
18	3/18/2016	111	15.3	106.9	91	117.1	13.2	
19	3/21/2016	176	16.1	110.2	94	117.1	13.2	
20	4/13/2016	209	14.1	108.8	93	117.5	14.1	
21	4/13/2016	207	15.3	109.0	93	117.5	14.1	

Notes:

pcf = pounds per cubic foot

R = Re-test of original failing test

"-" = Not Applicable

Table 4
South Pad Density Test Results
Silty Sand (1-ft-thick lifts)
Former ASARCO Smelter Site - El Paso, Texas

Test #	Date	Location	Lift Number	Moisture Content (%)	Dry Density (pcf)	Percent Compaction (%)	Proctor		Notes
		Approx. CQA Point					Max. Dry Density (pcf)	Optimum Moisture Content (%)	
1	3/21/2016	64	1	10.6	113.6	95	119.5	11.5	Proctor: N.Pad 111215AM
2	3/21/2016	65	1	11.1	112.8	94	119.5	11.5	
3	3/21/2016	68	1	12	116.8	98	119.5	11.5	
4	3/22/2016	75	1	9.6	117.6	98	119.4	12.5	Proctor: EBS Sand 031816
5	3/22/2016	87	1	11.2	113.9	95	119.4	12.5	
6	3/22/2016	84	1	10.7	116.4	97	119.4	12.5	
7	3/22/2016	89	1	10.6	118.7	99	119.4	12.5	
8	3/23/2016	96	1	11.0	113.8	95	119.4	12.5	
9	3/29/2016	101	1	12.4	115.0	94	121.9	10.2	Proctor: South Pad Sand 032316
10	3/29/2016	94	1	11.3	115.5	95	121.9	10.2	
11	3/29/2016	137	1	9.8	118.2	97	121.9	10.2	
12	3/30/2016	148	1	9.1	117.9	94	124.8	10.4	Proctor: S. Pad Sand 032516
13	3/30/2016	110	1	10.1	120.5	97	124.8	10.4	
14	3/30/2016	128	1	8.2	120.0	96	124.8	10.4	
15	3/30/2016	168	1	10.6	116.4	93	124.8	10.4	
16	3/31/2016	209	1	13.4	116.1	93	124.8	10.4	
17	3/31/2016	195	1	11.7	117.0	94	124.8	10.4	
18	3/31/2016	151	1	8.7	123.8	99	124.8	10.4	
19	3/31/2016	188	1	13	113.6	91	124.8	10.4	
20	3/31/2016	66	2	10.1	114.5	92	124.8	10.4	
21	4/1/2016	115	2	11.5	119.5	96	124.8	10.4	
22	4/1/2016	97	2	11.2	123.5	99	124.8	10.4	
23	4/1/2016	84	2	13.3	118.7	95	124.8	10.4	
24	4/1/2016	77	2	12.9	112.9	90	124.8	10.4	
25	4/1/2016	107	2	13	114.9	92	124.8	10.4	
26	4/4/2016	181	2	10.7	117.6	94	124.8	10.4	
27	4/4/2016	157	2	13	117.7	94	124.8	10.4	
28	4/4/2016	101	2	12	117.2	94	124.8	10.4	
29	4/4/2016	118	2	11.3	120.3	96	124.8	10.4	
30	4/5/2016	210	2	11.2	116.1	93	124.8	10.4	
31	4/5/2016	195	2	7.7	114.8	92	124.8	10.4	
32	4/5/2016	152	2	8.4	117.9	94	124.8	10.4	

Notes:

$Y_{dry, Troxler}$ = 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

in. = inches

pcf = pounds per cubic foot

R = Re-test of original failing test

"-" = Not Applicable

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

Sample ID	Approximate Location CQA Point	Date	Moisture Content (%)	Particle Size Summary				Atterberg Limits			Modified Proctor Test Results		Unified Soil Classification	Hydraulic Conductivity Samples Remolded to 90% Rel. Compaction (cm/s)	Soil Description	Estimated Volume Placed to Date (CY)	Comments
				Gravel (%)	Sand (%)	Fines (%)		Liquid Limit	Plastic Limit	Plasticity Index	Max. Dry Density (pcf)	Optimum Moisture Content (%)					
						Silt	Clay										
EBS Clayey Soil_081915AM	East Borrow Source	8/19/2015	14.5	--	--	50.5		--	--	--	--	--	--	Sandy Lean Clay			
EBS Clayey Soil_081915PM	East Borrow Source	8/19/2015	18.6	--	--	48.8		--	--	--	--	--	--	Clayey Sand			
EBS Clayey Soil_082015AM	East Borrow Source	8/20/2015	6.3	2	42	24	32	32	13	19	123.3	10.8	CL	2.0E-06	Sandy Lean Clay		
EBS Clayey Soil_082115PM	East Borrow Source	8/21/2015	17.2	2	41.2	56.8		39	14	25	119.4	13.2	CL	--	Sandy Lean Clay		
Test Pad 3B-25	559	8/24/2015	18.8	2	39.9	58.1		45	14	31	120.6	12.3	CL	--	Sandy Lean Clay		
Test Pad 2B-10E	551	8/24/2015	21.2	2	40	58.0		47	14	33	118.5	13.5	CL	2.2E-07	Sandy Lean Clay		
N. Pad_082515AM	555	8/25/2015	17.7	--	--	62.2		41	14	27	--	--	CL	--	Sandy Lean Clay		
N. Pad_082515PM	544	8/25/2015	16.7	1	35.4	63.6		44	14	30	119.9	13.1	CL	--	Sandy Lean Clay		
N. Pad_082615PM	529	8/26/2015	15.9	--	--	67.8		39	14	25	--	--	CL	--	Sandy Lean Clay	5,111	
N. Pad_082715AM	484	8/27/2015	17.2	--	--	63.9		41	14	27	--	--	CL	--	Sandy Lean Clay		
N. Pad_082715PM	526	8/27/2015	13.5	3	39.3	57.7		32	14	18	121.0	12.2	CL	3.7E-07	Sandy Lean Clay		2 buckets
N. Pad_082815AM	501	8/28/2015	14.8	--	--	60.3		35	13	22	--	--	CL	--	Sandy Lean Clay		
N. Pad_082815PM	466	8/28/2015	14.7	--	--	57.1		32	14	18	--	--	CL	--	Sandy Lean Clay	9,759	
EBS Clayey Sand_082915PM	East Borrow Source	8/29/2015	12.7	9	43	48.0		30	13	17	--	--	SC	--	Clayey Sand		
N. Pad_083115PM	422	8/31/2015	13.2	--	--	62.1		32	13	19	--	--	CL	--	Sandy Lean Clay		
N. Pad_090115AM	404	9/1/2015	14.2	--	--	65.0		34	14	20	--	--	CL	--	Sandy Lean Clay		
N. Pad_090115PM	354	9/1/2015	13.2	1	46.2	52.8		30	14	16	120.9	12.6	CL	--	Sandy Lean Clay		
N. Pad_090215PM	311	9/2/2015	14.7	--	--	61.5		36	14	22	--	--	CL	--	Sandy Lean Clay		
EBS Clayey Sand_090315AM	East Borrow Source	9/3/2015	11.5	--	--	52.3		28	14	14	--	--	CL	--	Sandy Lean Clay		
EBS Clayey Sand_090415AM	East Borrow Source	9/4/2015	11.1	--	--	43.9		25	14	11	--	--	SC	--	Clayey Sand		
EBS Clayey Sand_090415PM	East Borrow Source	9/4/2015	12.1	--	--	52.9		30	14	16	--	--	CL	--	Sandy Lean Clay		
N. Pad_090915AM	302	9/9/2015	11.5	--	--	49.6		30	14	16	--	--	SC	--	Clayey Sand		1 gallon bag sample
N. Pad_090915PM	302	9/9/2015	11.9	4	45	23	28	29	14	15	122.6	11.8	CL	6.8E-06	Sandy Lean Clay		
N. Pad_090915PM	243	9/9/2015	12.3	--	--	47.4		29	14	15	--	--	SC	--	Clayey Sand		
N. Pad_091015AM	223	9/10/2015	12.2	--	--	45.1		29	14	15	--	--	SC	--	Clayey Sand		
N. Pad_091015PM	195	9/10/2015	12.8	--	--	54.2		31	14	17	--	--	CL	--	Sandy Lean Clay		
N. Pad_091115AM	200	9/11/2015	12.3	--	--	44.8		29	13	16	--	--	SC	--	Clayey Sand	22,390	
N. Pad_091215PM	231	9/12/2015	--	--	--	60.7		--	--	--	--	--	CL	--	Sandy Lean Clay		
N. Pad_091415PM	168	9/14/2015	--	--	--	57.1		--	--	--	--	--	CL	--	Sandy Lean Clay		
N. Pad_091515PM	93	9/15/2015	--	--	--	59.5		--	--	--	--	--	CL	--	Sandy Lean Clay		
N. Pad_091615PM	287	9/16/2015	--	--	--	50.5		--	--	--	--	--	CL	--	Sandy Lean Clay		
N. Pad_091715PM	148	9/17/2015	--	--	--	60.0		36	14	22	--	--	CL	--	Sandy Lean Clay	36,273	
N. Pad_091815PM	55	9/18/2015	13.1	1	42	57.0		41	15	26	124.3	10.0	CL	1.39E-06	Sandy Lean Clay		
N. Pad_091915PM	10	9/19/2015	13.1	--	--	55.5		--	--	--	--	--	CL	--	Sandy Lean Clay		
EBS Sand Stockpile	East Borrow Source	9/19/2015	7.8	1	75.4	23.6		NP	NP	NP	115.1	12.2	SM	1.67E-04	Silty Sand		
N. Pad_092115AM	543	9/21/2015	7.6	--	--	24.5		--	--	--	--	--	SM	--	Silty Sand	2,733	
N. Pad_092215PM	545	9/22/2015	11.6	--	--	30.0		--	--	--	--	--	SM	--	Silty Sand		
N. Pad_092315AM	531	9/23/2015	11.3	3	66.1	30.9		NP	NP	NP	119.8	11.1	SM	--	Silty Sand		
N. Pad_092415AM	506	9/24/2015	--	--	--	77.2		43	16	27	--	--	CL	--	Sandy Lean Clay		
N. Pad_092915AM	445	9/29/2015	13.0	--	--	31.7		--	--	--	--	--	SM	--	Silty Sand		
N. Pad_093015AM	315	9/30/2015	9.00	1	72.6	26.4		NP	NP	NP	118.1	12.8	SM	3.73E-04	Silty Sand	13,250	
N. Pad_100215PM	244	10/2/2015	--	1	66.3	32.7		22	13	9	121.4	11.6	SC	1.63E-04	Clayey Sand		
N. Pad_100515PM	45	10/5/2015	--	--	--	33.6		--	--	--	--	--	SC	--	Clayey Sand		
N. Pad_100615PM	32	10/6/2015	--	--	--	26.7		--	--	--	--	--	SM	--	Silty Sand		
N. Pad_100815PM	477	10/8/2015	--	--	--	26.6		--	--	--	--	--	SM	--	Silty Sand	35,592	
N. Pad_100915PM	272	10/9/2015	--	--	--	34.6		--	--	--	--	--	SC	--	Clayey Sand		
N. Pad_101015AM	243	10/10/2015	--	7	63.7	29.3		NP	NP	NP	124.8	10.3	SM	1.37E-04	Silty Sand		
N. Pad_101315PM	67	10/13/2015	--	--	--	25.6		--	--	--	--	--	SM	--	Silty Sand	46,505	
N. Pad_102115AM	108	10/21/2015	--	1	74.2	24.8		NP	NP	NP	118.1	12.7	SM	4.05E-04	Silty Sand	62,703	Material placed 10/16 sampled on 10/21
N. Pad_102215AM	102	10/22/2015	--	3	71	26		NP	NP	NP	115	11.9	SM	6.37E-04	Silty Sand	67,199	
N. Pad_102915AM	187	10/29/2015	--	--	--	52.2		--	--	--	--	--	CL	--	Sandy Lean Clay	46,609	Clay along slope near SWPS 2
N. Pad_111215AM	459	11/12/2015	--	2	70.7	27.3		NP	NP	NP	119.5	11.5	SM	4.58E-04	Silty Sand		Location 459 sampled post placement

Material Specification for Final Cover

- Unified Soil Classification: GW, GP (Desert Armor); GM, GC, SM, or SC (Surface Layer); SM, SC, or CL (Isolation Layer)
- Maximum Particle Size: 4"
- Percent Particles Coarser than 1.0 Inch (Desert Armor) = 25%
- Percent Particles Coarser than 1.0 Inch (Surface Layer) = 25%
- Remolded Hydraulic Conductivity: 5.0x10⁻⁴ cm/s (Surface Layer); 5.0x10⁻⁵ cm/s (Isolation Layer)

Sample ID	Approximate Location CQA Point	Date	Moisture Content (%)	Particle Size Summary				Atterberg Limits			Modified Proctor Test Results		Unified Soil Classification	Hydraulic Conductivity Samples Remolded to 90% Rel. Compaction (cm/s)	Soil Description	Estimated Volume Placed to Date (CY)	Comments
				Gravel (%)	Sand (%)	Fines (%)		Liquid Limit	Plastic Limit	Plasticity Index	Max. Dry Density (pcf)	Optimum Moisture Content (%)					
						Silt	Clay										
EBS Clayey Stockpile 022416	EBS Stockpile	2/24/2016		1	34.4	64.6	40	15	25	122.6	12.8	CL	7.36E-06	Sandy Lean Clay			
EBS Clayey Stockpile 030916	EBS Stockpile	3/9/2016	16.7	1	14.7	84.3	40	16	24	117.1	13.2	CL		Sandy Lean Clay			
S.Pad 031116	32	3/11/2016				84.2											
S.Pad Clay 031416	181	3/14/2016				85.2											
S.Pad Clay 031616	103	3/16/2016	19.5	0	15.2	84.8	45	17	28	117.2	14.4	CL		Lean Clay with Sand			
S.Pad Clay 031716	67	3/17/2016				84.1											
N. Pad 111215AM	North Pad CQA 459	11/12/2015	--	2	70.7	27.3	NP	NP	NP	119.5	11.5	SM		Silty Sand		Sample from North Pad material	
EBS Sand 031816	EBS Stockpile	3/18/2016	4.1	10	63.9	26.1	NP	NP	NP	119.4	12.5	SM	1.30E-04	Silty Sand			
S.Pad Clay 031916	162	3/21/2016	18.4	0	17.2	82.8	32	15	17	117.5	14.1	CL	3.0E-08	Lean Clay with Sand		Sample taken Saturday 3/19 & sent Monday 3/21	
South Pad Sand 032116	68	3/21/2016	14.9			27.3											
South Pad Sand 032216	89	3/22/2016	14.7	8	63.6	28.7	NP	NP	NP	122.2	10	SM		Silty Sand			
South Pad Sand 032316	96	3/23/2016				26.8				121.9	10.2					Checkpoint	
S Pad Sand 032516	EBS Sand Stockpile	3/25/2016		11	44.7	44.3	25	15	10	124.8	10.4	SC	4.96E-06	Clayey Sand		Material mixed over rotation- mixing more clay	
EBS Sand 032816	EBS Sand Stockpile	3/29/2016	20.3			68.7											
S Pad Sand 032916	137	3/29/2016	12.9			41.8											
S Pad Sand 033116	66	3/31/2016				40.9										First sample of the second lift	
S Pad Sand 040116	107	4/1/2016				50.2											
S Pad Sand 040416	181	4/4/2016	14.9	1	61.9	37.1	25	16	9	120.3	12	SC	7.62E-06	Clayey Sand	16413		
S.Pad Clay 041316	208	4/13/2016	13.8	0	18.4	81.6	41	15	26	117.0	13.7	CL	8.93E-09	Lean clay with sand	12376	First day starting clay again	
EBS Clay 060716	EBS Stockpile	6/7/2016				62.3	38	15	23			CL		Sandy Lean Clay			
EBS Clay 060916	EBS Stockpile	6/9/2016	18.5			73.4	46	15	31			CL		Lean clay with sand			
S.Pad Clay 061416	376	6/14/2016	15.7			59.7	36	13	23			CL		Sandy Lean Clay			
S.Pad Clay 061416	376	6/14/2016		3	42	55	30	13	17	121.0	12.2	CL		Sandy Lean Clay			
S.Pad Clay 061516	409	6/15/2016		3	30.6	66.4	42	15	27	121	12.2	CL	4.67E-07	Sandy Lean Clay			
EBS Sand 061516	EBS Sand Stockpile	6/15/2016	14.5			52.6	27	13	14					Sandy Lean Clay			
EBS Sand 061616	EBS Sand Stockpile	6/16/2016		3	53.7	43.3	22	14	8	121.5	10.3	SC	1.06E-06	Clayey sand			
EBS Sand 061716	EBS Sand Stockpile	6/17/2016				33.3	22	16	6			SC-SM		Silty, Clayey Sand			
EBS -Sand 062016	EBS Sand stockpile	6/20/2016		5	70.2	24.8	NP	NP	NP	117.8	11.9	SM		Silty Sand			
S. Pad Sand 062216	391	6/22/2016	12.5	3	52	45	25	16	9	120.8	12.5	SC	1.14E-06	Clayey Sand			
S. Pad Sand 062416	362	6/24/2016	-	4	67.2	28.8	23	16	7	121.4	11.6	SC-SM		Silty, Clayey Sand			
S. Pad Sand 062816	329	6/28/2016		7	73.4	19.6	NP	NP	NP	116.6	12	SM		Silty Sand			
EBS Clayey SP 063016	EBS Stockpile	6/30/2016	15	4	51.3	44.7	26	15	11	122.6	10.9	SC		Clayey Sand			
EBS Clayey 070516	EBS Stockpile	7/5/2016	18.3	1	23.5	75.5	36	15	21	122.1	12.6	CL		Lean Clay with Sand			
S.Pad Clay 070716	436	7/7/2016				62.4	34	14	20			CL		Sandy Lean Clay	25163		
S Pad Sand 070616	363	7/6/2016				27.9								Silty, Clayey Sand	33761		
S Pad Sand 071316	183	7/13/2016	13.6	5	70.5	24.5	NP	NP	NP	120.1	11.4	SM		Silty Sand			

Notes:

NP = Non-Plastic

Material Specification for Final Cover

- Unified Soil Classification: GW, GP (Desert Armor); GM, GC, SM, or SC (Surface Layer); SM, SC, or CL (Isolation Layer)
- Maximum Particle Size: 4"
- Percent Particles Coarser than 1.0 Inch (Desert Armor) = 25%
- Percent Particles Coarser than 1.0 Inch (Surface Layer) = 25%
- Remolded Hydraulic Conductivity: 5.0×10^{-4} cm/s (Surface Layer); 5.0×10^{-5} cm/s (Isolation Layer)



Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
1	10664550.00	374500.00	3789.03	3790.09	1.06	12.72	3792.10	3.07	36.84	
2	10664550.00	374550.00	3788.86	3789.92	1.06	12.68	3791.96	3.10	37.21	
3	10664600.00	374500.00	3788.78	3789.94	1.16	13.92	3791.86	3.08	37.00	
4	10664600.00	374550.00	3788.71	3789.79	1.08	12.96	3791.85	3.14	37.72	
5	10664600.00	374600.00	3788.54	3789.61	1.07	12.78	3791.72	3.18	38.14	
6	10664600.00	374650.00	3788.50	3789.74	1.24	14.84	3791.77	3.27	39.19	
7	10664600.00	374700.00	3788.81	3790.03	1.22	14.58	3792.18	3.37	40.49	
8	10664600.00	374750.00	3788.86	3789.87	1.01	12.11	3792.03	3.17	38.00	
9	10664600.00	374800.00	3789.21	3790.26	1.05	12.58	3792.41	3.20	38.36	
10	10664600.00	374850.00	3789.57	3790.63	1.06	12.67	3793.21	3.64	43.72	
11	10664600.00	374900.00	3791.16	3792.17	1.01	12.10	3794.24	3.08	36.91	
12	10664600.00	374950.00	3791.16	3792.28	1.12	13.38	3794.35	3.19	38.24	
13	10664600.00	375000.00	3791.07	3792.23	1.16	13.93	3794.34	3.26	39.18	
14	10664650.00	374500.00	3788.52	3789.65	1.13	13.56	3791.75	3.23	38.78	
15	10664650.00	374550.00	3788.43	3789.50	1.07	12.84	3791.71	3.28	39.34	
16	10664650.00	374600.00	3788.31	3789.41	1.10	13.20	3791.45	3.14	37.63	
17	10664650.00	374650.00	3788.42	3789.59	1.17	14.05	3791.62	3.20	38.44	
18	10664650.00	374700.00	3788.49	3789.69	1.20	14.35	3791.67	3.18	38.17	
19	10664650.00	374750.00	3788.66	3789.88	1.22	14.62	3791.81	3.15	37.79	
20	10664650.00	374800.00	3789.01	3790.11	1.09	13.14	3792.01	3.00	36.04	
21	10664650.00	374850.00	3789.83	3790.86	1.03	12.32	3792.84	3.01	36.17	
22	10664650.00	374900.00	3790.61	3791.71	1.10	13.15	3793.64	3.03	36.36	
23	10664650.00	374950.00	3790.67	3791.75	1.08	13.01	3793.71	3.04	36.43	
24	10664650.00	375000.00	3790.64	3791.69	1.05	12.55	3793.66	3.02	36.24	
25	10664650.00	375050.00	3791.01	3792.12	1.11	13.31	3794.23	3.22	38.65	
26	10664650.00	375100.00	3791.01	3792.04	1.03	12.40	3794.19	3.18	38.16	
27	10664700.00	374500.00	3788.43	3789.46	1.03	12.35	3791.55	3.12	37.49	
28	10664700.00	374550.00	3788.12	3789.15	1.03	12.32	3791.38	3.26	39.08	
29	10664700.00	374600.00	3787.99	3789.14	1.15	13.80	3791.25	3.26	39.16	
30	10664700.00	374650.00	3788.04	3789.18	1.14	13.68	3791.21	3.17	38.05	
31	10664700.00	374700.00	3788.26	3789.42	1.16	13.93	3791.47	3.21	38.54	
32	10664700.00	374750.00	3788.57	3789.67	1.10	13.15	3791.72	3.15	37.79	
33	10664700.00	374800.00	3788.79	3789.82	1.03	12.36	3791.84	3.05	36.65	
34	10664700.00	374850.00	3789.15	3790.23	1.08	13.00	3792.23	3.08	36.92	
35	10664700.00	374900.00	3789.68	3790.70	1.02	12.18	3792.70	3.02	36.26	
36	10664700.00	374950.00	3789.82	3790.96	1.14	13.64	3793.23	3.40	40.86	



Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
37	10664700.00	375000.00	3790.27	3791.38	1.11	13.34	3793.43	3.16	37.92	
38	10664700.00	375050.00	3790.84	3791.99	1.15	13.84	3793.96	3.12	37.44	
39	10664700.00	375100.00	3790.88	3792.03	1.15	13.76	3794.09	3.21	38.48	
40	10664750.00	374100.00	3789.16	#N/A	#N/A	#N/A	3792.24	3.08	36.98	
41	10664750.00	374150.00	3789.45	3790.52	1.07	12.82	3792.52	3.07	36.83	
42	10664750.00	374200.00	3789.69	3790.70	1.01	12.12	3792.74	3.05	36.64	
43	10664750.00	374250.00	3789.72	3790.73	1.01	12.12	3792.85	3.13	37.60	
44	10664750.00	374300.00	3789.38	3790.42	1.04	12.53	3792.61	3.23	38.76	
45	10664750.00	374350.00	3789.12	3790.26	1.14	13.68	3792.42	3.30	39.54	
46	10664750.00	374400.00	3788.88	3790.06	1.18	14.14	3792.09	3.21	38.51	
47	10664750.00	374450.00	3788.56	3789.64	1.08	12.97	3791.81	3.24	38.94	
48	10664750.00	374500.00	3788.20	3789.26	1.06	12.66	3791.29	3.09	37.13	
49	10664750.00	374550.00	3787.84	3788.83	1.00	12.00	3790.89	3.05	36.64	
50	10664750.00	374600.00	3787.87	3789.07	1.20	14.35	3790.99	3.12	37.40	
51	10664750.00	374650.00	3787.93	3788.99	1.06	12.72	3791.09	3.16	37.87	
52	10664750.00	374700.00	3788.13	3789.24	1.11	13.32	3791.30	3.17	38.02	
53	10664750.00	374750.00	3788.37	3789.52	1.15	13.76	3791.56	3.18	38.22	
54	10664750.00	374800.00	3788.54	3789.55	1.01	12.07	3791.64	3.10	37.14	
55	10664750.00	374850.00	3788.83	3789.97	1.14	13.64	3792.04	3.21	38.56	
56	10664750.00	374900.00	3788.96	3790.14	1.18	14.21	3792.20	3.24	38.93	
57	10664750.00	374950.00	3789.30	3790.34	1.04	12.50	3792.41	3.11	37.32	
58	10664750.00	375000.00	3790.22	3791.46	1.24	14.87	3793.47	3.25	39.04	
59	10664750.00	375050.00	3790.19	3791.20	1.01	12.10	3793.28	3.09	37.13	
60	10664750.00	375100.00	3790.33	3791.47	1.14	13.63	3793.60	3.27	39.22	
61	10664800.00	373950.00	3789.74	3790.84	1.10	13.24	3792.97	3.23	38.75	
62	10664800.00	374000.00	3789.57	3790.76	1.19	14.32	3792.79	3.22	38.64	
63	10664800.00	374050.00	3789.58	3790.61	1.03	12.30	3792.65	3.07	36.89	
64	10664800.00	374100.00	3789.39	3790.43	1.04	12.47	3792.49	3.10	37.15	
65	10664800.00	374150.00	3789.41	3790.72	1.31	15.71	3792.76	3.35	40.16	
66	10664800.00	374200.00	3789.40	3790.55	1.15	13.75	3792.64	3.24	38.93	
67	10664800.00	374250.00	3789.37	3790.38	1.01	12.06	3792.47	3.10	37.14	
68	10664800.00	374300.00	3789.24	3790.44	1.20	14.42	3792.55	3.31	39.66	
69	10664800.00	374350.00	3788.95	3790.00	1.05	12.58	3792.09	3.14	37.70	
70	10664800.00	374400.00	3788.45	3789.56	1.11	13.32	3791.60	3.15	37.81	
71	10664800.00	374450.00	3788.33	3789.45	1.12	13.49	3791.49	3.16	37.97	
72	10664800.00	374500.00	3787.87	3788.96	1.09	13.09	3791.01	3.14	37.66	



Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
73	10664800.00	374550.00	3787.74	3788.86	1.12	13.45	3790.92	3.18	38.17	
74	10664800.00	374600.00	3787.70	3788.89	1.19	14.30	#N/A	#N/A	#N/A	Location falls within Drainage Swale
75	10664800.00	374650.00	3787.90	3788.89	0.99	11.83	3790.93	3.03	36.38	
76	10664800.00	374700.00	3788.07	3789.09	1.02	12.24	3791.20	3.13	37.58	
77	10664800.00	374750.00	3788.29	3789.56	1.27	15.28	3791.60	3.31	39.73	
78	10664800.00	374800.00	3788.40	3789.57	1.17	14.04	3791.59	3.19	38.29	
79	10664800.00	374850.00	3788.59	3789.72	1.13	13.55	3791.78	3.18	38.22	
80	10664800.00	374900.00	3788.81	3789.93	1.12	13.43	3791.99	3.18	38.20	
81	10664800.00	374950.00	3789.02	3790.20	1.18	14.18	3792.26	3.24	38.87	
82	10664800.00	375000.00	3789.21	3790.33	1.12	13.44	3792.37	3.16	37.92	
83	10664800.00	375050.00	3789.64	3790.69	1.05	12.58	3792.83	3.19	38.32	
84	10664800.00	375100.00	3790.36	3791.63	1.27	15.19	3793.75	3.39	40.68	
85	10664850.00	373900.00	3789.77	3790.90	1.13	13.51	3792.98	3.21	38.52	
86	10664850.00	373950.00	3789.66	3790.79	1.13	13.58	3792.89	3.23	38.81	
87	10664850.00	374000.00	3789.41	3790.61	1.20	14.45	3792.62	3.21	38.48	
88	10664850.00	374050.00	3789.26	3790.33	1.07	12.88	3792.41	3.15	37.76	
89	10664850.00	374100.00	3789.21	3790.39	1.18	14.17	3792.46	3.25	39.04	
90	10664850.00	374150.00	3789.07	3790.28	1.21	14.56	3792.34	3.27	39.24	
91	10664850.00	374200.00	3789.02	3790.09	1.07	12.86	3792.23	3.21	38.54	
92	10664850.00	374250.00	3789.05	3790.11	1.06	12.77	3792.20	3.15	37.80	
93	10664850.00	374300.00	3788.91	3790.02	1.11	13.32	3792.11	3.20	38.42	
94	10664850.00	374350.00	3788.68	3789.90	1.22	14.69	3792.01	3.33	39.97	
95	10664850.00	374400.00	3788.26	3789.48	1.22	14.60	3791.54	3.28	39.32	
96	10664850.00	374450.00	3788.05	3789.20	1.15	13.75	3791.30	3.25	38.99	
97	10664850.00	374500.00	3787.86	3789.07	1.21	14.52	3790.89	3.03	36.32	
98	10664850.00	374550.00	3787.49	3788.70	1.21	14.50	3790.79	3.30	39.59	
99	10664850.00	374600.00	3787.58	3788.61	1.03	12.30	3790.74	3.16	37.94	
100	10664850.00	374650.00	3787.65	3788.86	1.21	14.48	3790.93	3.28	39.40	
101	10664850.00	374700.00	3787.87	3788.90	1.03	12.36	3790.99	3.12	37.48	
102	10664850.00	374750.00	3788.13	3789.15	1.02	12.24	3791.20	3.07	36.88	
103	10664850.00	374800.00	3788.28	3789.54	1.26	15.10	3791.57	3.29	39.43	
104	10664850.00	374850.00	3788.38	3789.61	1.23	14.72	3791.68	3.30	39.64	
105	10664850.00	374900.00	3788.71	3790.01	1.30	15.56	3791.88	3.17	38.06	
106	10664850.00	374950.00	3788.89	3790.11	1.22	14.66	3792.08	3.19	38.30	
107	10664850.00	375000.00	3788.94	3790.21	1.27	15.29	3792.27	3.33	39.97	
108	10664850.00	375050.00	3789.08	3790.24	1.16	13.90	3792.29	3.21	38.48	



Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
109	10664850.00	375100.00	3789.91	3791.08	1.17	14.02	3793.21	3.30	39.62	
110	10664900.00	373900.00	3789.58	3790.59	1.01	12.11	3792.75	3.17	38.00	
111	10664900.00	373950.00	3789.56	3790.84	1.28	15.41	3792.86	3.30	39.64	
112	10664900.00	374000.00	3789.21	3790.35	1.14	13.70	3792.45	3.24	38.83	
113	10664900.00	374050.00	3789.09	3790.30	1.21	14.57	3792.37	3.28	39.34	
114	10664900.00	374100.00	3788.96	3790.09	1.13	13.60	3792.11	3.15	37.82	
115	10664900.00	374150.00	3788.81	3789.84	1.03	12.35	3791.94	3.13	37.61	
116	10664900.00	374200.00	3788.75	3789.80	1.05	12.64	3791.87	3.11	37.38	
117	10664900.00	374250.00	3788.55	3789.79	1.24	14.87	3791.84	3.29	39.50	
118	10664900.00	374300.00	3788.47	3789.49	1.02	12.29	3791.50	3.03	36.35	
119	10664900.00	374350.00	3788.19	3789.37	1.18	14.21	3791.45	3.26	39.07	
120	10664900.00	374400.00	3788.07	3789.07	1.00	12.04	3791.18	3.11	37.34	
121	10664900.00	374450.00	3787.73	3788.74	1.01	12.11	3790.84	3.11	37.36	
122	10664900.00	374500.00	3787.48	3788.71	1.23	14.81	3790.75	3.27	39.22	
123	10664900.00	374550.00	3787.41	3788.64	1.23	14.70	3790.39	2.98	35.76	
124	10664900.00	374600.00	3787.34	3788.49	1.15	13.76	3790.54	3.19	38.34	
125	10664900.00	374650.00	3787.48	3788.51	1.03	12.40	3790.60	3.11	37.38	
126	10664900.00	374700.00	3787.60	#N/A	#N/A	#N/A	3790.80	3.20	38.34	
127	10664900.00	374750.00	3787.79	3788.85	1.06	12.68	3791.07	3.28	39.41	
128	10664900.00	374800.00	3788.05	3789.09	1.04	12.49	3791.10	3.05	36.64	
129	10664900.00	374850.00	3788.31	3789.34	1.03	12.30	3791.37	3.06	36.77	
130	10664900.00	374900.00	3788.52	3789.57	1.05	12.56	3791.59	3.07	36.89	
131	10664900.00	374950.00	3788.57	3789.80	1.23	14.76	3791.87	3.29	39.54	
132	10664900.00	375000.00	3788.82	3789.97	1.15	13.85	3792.03	3.21	38.51	
133	10664900.00	375050.00	3788.96	3790.16	1.20	14.34	3792.23	3.27	39.24	
134	10664900.00	375100.00	3789.17	3790.24	1.07	12.85	3792.53	3.36	40.32	
135	10664950.00	373900.00	3789.61	3790.65	1.04	12.46	3792.77	3.16	37.94	
136	10664950.00	373950.00	3789.36	3790.46	1.10	13.25	3792.58	3.22	38.65	
137	10664950.00	374000.00	3789.15	3790.30	1.15	13.75	3792.40	3.25	38.96	
138	10664950.00	374050.00	3788.88	3790.01	1.13	13.52	3792.13	3.25	39.02	
139	10664950.00	374100.00	3788.63	3789.75	1.12	13.49	3791.85	3.22	38.66	
140	10664950.00	374150.00	3788.52	3789.58	1.06	12.73	3791.77	3.25	39.01	
141	10664950.00	374200.00	3788.25	3789.32	1.07	12.83	3791.35	3.10	37.18	
142	10664950.00	374250.00	3788.20	3789.33	1.13	13.55	3791.46	3.26	39.17	
143	10664950.00	374300.00	3787.97	3789.21	1.24	14.83	3791.31	3.34	40.10	
144	10664950.00	374350.00	3787.94	3788.98	1.04	12.53	3791.13	3.19	38.23	



Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
145	10664950.00	374400.00	3787.70	3788.87	1.17	14.00	3790.88	3.18	38.21	
146	10664950.00	374450.00	3787.53	3788.75	1.22	14.69	3790.83	3.29	39.54	
147	10664950.00	374500.00	3787.19	3788.32	1.13	13.52	3790.34	3.15	37.85	
148	10664950.00	374550.00	3787.12	3788.35	1.23	14.72	3790.16	3.04	36.48	
149	10664950.00	374600.00	3787.21	3788.44	1.23	14.71	3790.51	3.30	39.56	
150	10664950.00	374650.00	3787.39	3788.45	1.06	12.73	3790.50	3.11	37.27	
151	10664950.00	374700.00	3787.62	#N/A	#N/A	#N/A	3790.71	3.09	37.02	
152	10664950.00	374750.00	3787.84	3789.09	1.25	15.02	3791.07	3.23	38.78	
153	10664950.00	374800.00	3787.91	3788.97	1.06	12.74	3791.10	3.19	38.32	
154	10664950.00	374850.00	3788.17	3789.18	1.01	12.08	3791.24	3.07	36.88	
155	10664950.00	374900.00	3788.32	3789.39	1.07	12.78	3791.40	3.08	36.95	
156	10664950.00	374950.00	3788.54	3789.57	1.03	12.31	3791.61	3.07	36.89	
157	10664950.00	375000.00	3788.67	3789.72	1.05	12.56	3791.73	3.06	36.77	
158	10664950.00	375050.00	3788.94	3789.99	1.05	12.61	3792.11	3.17	37.99	
159	10664950.00	375100.00	3789.33	#N/A	#N/A	#N/A	3792.51	3.18	38.16	
160	10665000.00	373850.00	3789.66	3790.79	1.13	13.56	3792.89	3.23	38.75	
161	10665000.00	373900.00	3789.40	3790.52	1.12	13.40	3792.57	3.17	37.99	
162	10665000.00	373950.00	3789.26	3790.54	1.28	15.32	3792.55	3.29	39.48	
163	10665000.00	374000.00	3789.00	3790.12	1.12	13.44	3792.19	3.19	38.24	
164	10665000.00	374050.00	3788.88	3789.99	1.11	13.28	3792.02	3.14	37.69	
165	10665000.00	374100.00	3788.58	3789.63	1.05	12.58	3791.70	3.12	37.43	
166	10665000.00	374150.00	3788.38	3789.63	1.25	15.01	3791.66	3.28	39.41	
167	10665000.00	374200.00	3788.23	3789.39	1.16	13.86	3791.48	3.25	39.00	
168	10665000.00	374250.00	3788.06	3789.12	1.06	12.72	3791.17	3.11	37.37	
169	10665000.00	374300.00	3788.00	3789.01	1.01	12.17	3791.04	3.04	36.53	
170	10665000.00	374350.00	3787.60	3788.76	1.16	13.93	3790.80	3.20	38.40	
171	10665000.00	374400.00	3787.60	3788.67	1.07	12.89	3790.74	3.14	37.72	
172	10665000.00	374450.00	3787.30	3788.39	1.09	13.10	3790.46	3.16	37.96	
173	10665000.00	374500.00	3787.02	3788.08	1.06	12.77	3790.13	3.11	37.33	
174	10665000.00	374550.00	3787.01	3788.02	1.01	12.07	3790.08	3.07	36.84	
175	10665000.00	374600.00	3787.11	3788.27	1.15	13.86	3790.27	3.16	37.96	
176	10665000.00	374650.00	3787.25	3788.33	1.08	13.00	3790.36	3.11	37.33	
177	10665000.00	374700.00	3787.51	3788.60	1.09	13.08	3790.63	3.11	37.38	
178	10665000.00	374750.00	3787.79	3789.01	1.22	14.66	3790.98	3.19	38.29	
179	10665000.00	374800.00	3787.94	3789.14	1.20	14.38	3791.23	3.29	39.43	
180	10665000.00	374850.00	3788.13	3789.30	1.17	14.03	3791.33	3.20	38.44	

Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
181	10665000.00	374900.00	3788.34	3789.64	1.30	15.60	#N/A	#N/A	#N/A	Location falls within Drainage Swale
182	10665000.00	374950.00	3788.67	3789.85	1.18	14.11	3791.93	3.26	39.16	
183	10665000.00	375000.00	3788.70	3789.81	1.11	13.30	3791.88	3.18	38.17	
184	10665000.00	375050.00	3789.37	#N/A	#N/A	#N/A	3792.37	3.00	36.00	
185	10665000.00	375100.00	3789.40	#N/A	#N/A	#N/A	3792.66	3.26	39.12	
186	10665000.00	375150.00	3789.35	#N/A	#N/A	#N/A	3792.84	3.49	41.88	
187	10665000.00	375200.00	3791.01	#N/A	#N/A	#N/A	3793.98	3.00	36.00	
188	10665050.00	373850.00	3789.54	3790.66	1.12	13.43	3792.72	3.18	38.11	
189	10665050.00	373900.00	3789.30	3790.53	1.23	14.71	3792.59	3.29	39.43	
190	10665050.00	373950.00	3789.13	3790.30	1.17	14.06	3792.37	3.24	38.83	
191	10665050.00	374000.00	3788.82	3790.06	1.24	14.83	3792.11	3.29	39.52	
192	10665050.00	374050.00	3788.73	3789.73	1.00	12.00	3791.73	3.00	36.04	
193	10665050.00	374100.00	3788.42	3789.70	1.28	15.31	3791.70	3.28	39.31	
194	10665050.00	374150.00	3788.18	3789.34	1.16	13.88	3791.37	3.19	38.33	
195	10665050.00	374200.00	3788.05	3789.17	1.11	13.38	3791.23	3.18	38.12	
196	10665050.00	374250.00	3787.88	3789.03	1.15	13.82	#N/A	#N/A	#N/A	Location falls within Drainage Swale
197	10665050.00	374300.00	3787.60	3788.64	1.04	12.44	3790.65	3.05	36.64	
198	10665050.00	374350.00	3787.43	3788.53	1.10	13.25	3790.56	3.13	37.57	
199	10665050.00	374400.00	3787.15	3788.31	1.16	13.92	3790.34	3.19	38.28	
200	10665050.00	374450.00	3786.79	3787.92	1.13	13.51	3789.99	3.20	38.36	
201	10665050.00	374500.00	3786.63	3787.82	1.19	14.32	3789.83	3.20	38.41	
202	10665050.00	374550.00	3786.51	3787.64	1.13	13.55	#N/A	#N/A	#N/A	Location falls within Drainage Swale
203	10665050.00	374600.00	3786.94	3788.09	1.15	13.80	3790.13	3.19	38.33	
204	10665050.00	374650.00	3787.03	3788.20	1.17	14.04	3790.26	3.23	38.76	
205	10665050.00	374700.00	3787.24	3788.29	1.05	12.60	#N/A	#N/A	#N/A	Location falls within Drainage Swale
206	10665050.00	374750.00	3787.53	3788.62	1.09	13.04	3790.77	3.24	38.83	
207	10665050.00	374800.00	3787.77	3788.98	1.21	14.51	3791.09	3.32	39.85	
208	10665050.00	374850.00	3788.21	3789.32	1.11	13.33	3791.39	3.18	38.16	
209	10665050.00	374900.00	3788.33	3789.62	1.29	15.50	3791.63	3.30	39.56	
210	10665050.00	374950.00	3788.67	3789.95	1.28	15.31	3791.99	3.32	39.86	
211	10665050.00	375000.00	3789.06	3790.13	1.07	12.80	3792.16	3.10	37.20	
212	10665050.00	375050.00	3789.62	3790.67	1.05	12.55	3792.74	3.12	37.39	
213	10665050.00	375100.00	3789.67	3790.78	1.11	13.28	3792.84	3.17	38.05	
214	10665050.00	375150.00	3790.61	#N/A	#N/A	#N/A	3793.66	3.05	36.54	
215	10665100.00	373800.00	3789.70	3790.73	1.03	12.36	3792.86	3.16	37.86	
216	10665100.00	373850.00	3789.47	3790.49	1.02	12.23	3792.61	3.14	37.64	



Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
217	10665100.00	373900.00	3789.29	3790.40	1.11	13.34	3792.49	3.20	38.36	
218	10665100.00	373950.00	3789.07	3790.28	1.21	14.48	3792.33	3.26	39.12	
219	10665100.00	374000.00	3788.73	3789.82	1.09	13.10	3791.88	3.15	37.81	
220	10665100.00	374050.00	3788.60	3789.66	1.06	12.77	3791.69	3.09	37.04	
221	10665100.00	374100.00	3788.32	3789.47	1.15	13.84	3791.51	3.19	38.29	
222	10665100.00	374150.00	3788.18	3789.19	1.01	12.10	3791.23	3.05	36.64	
223	10665100.00	374200.00	3787.89	3789.06	1.17	14.00	3791.10	3.20	38.46	
224	10665100.00	374250.00	3787.64	3788.74	1.10	13.16	3790.80	3.16	37.87	
225	10665100.00	374300.00	3787.47	3788.52	1.05	12.54	#N/A	#N/A	#N/A	Location falls within Drainage Swale
226	10665100.00	374350.00	3787.18	3788.33	1.15	13.80	3790.34	3.16	37.88	
227	10665100.00	374400.00	3787.02	3788.16	1.14	13.72	3790.21	3.19	38.28	
228	10665100.00	374450.00	3786.88	3788.00	1.12	13.49	3789.86	3.00	36.00	
229	10665100.00	374500.00	3786.46	3787.51	1.05	12.61	3789.55	3.09	37.04	
230	10665100.00	374550.00	3786.54	3787.64	1.10	13.22	3789.81	3.27	39.29	
231	10665100.00	374600.00	3786.74	3787.89	1.15	13.82	3789.93	3.19	38.24	
232	10665100.00	374650.00	3787.01	3788.23	1.22	14.64	3790.26	3.25	39.01	
233	10665100.00	374700.00	3787.41	3788.47	1.06	12.72	3790.53	3.12	37.44	
234	10665100.00	374750.00	3787.69	3788.85	1.16	13.88	3790.90	3.21	38.47	
235	10665100.00	374800.00	3787.97	3789.02	1.05	12.61	3791.11	3.14	37.67	
236	10665100.00	374850.00	3788.24	3789.26	1.02	12.29	3791.33	3.09	37.13	
237	10665100.00	374900.00	3788.71	3789.79	1.08	12.96	3791.87	3.16	37.97	
238	10665100.00	374950.00	3789.02	3790.22	1.20	14.36	3792.24	3.22	38.62	
239	10665100.00	375000.00	3789.40	3790.69	1.29	15.44	3792.75	3.35	40.24	
240	10665100.00	375050.00	3789.74	3790.91	1.17	14.00	3792.96	3.22	38.69	
241	10665100.00	375100.00	3790.62	3791.67	1.05	12.61	3793.71	3.09	37.10	
242	10665100.00	375150.00	3790.84	3792.01	1.17	14.05	3794.08	3.24	38.93	
243	10665150.00	373800.00	3789.63	3790.64	1.01	12.12	3792.77	3.14	37.68	
244	10665150.00	373850.00	3789.42	3790.53	1.11	13.30	3792.58	3.16	37.87	
245	10665150.00	373900.00	3789.24	3790.44	1.20	14.40	3792.52	3.28	39.31	
246	10665150.00	373950.00	3788.91	3789.95	1.04	12.48	3792.11	3.20	38.34	
247	10665150.00	374000.00	3788.69	3789.68	1.00	12.00	3791.78	3.09	37.03	
248	10665150.00	374050.00	3788.56	3789.58	1.02	12.29	3791.68	3.12	37.44	
249	10665150.00	374100.00	3788.25	3789.47	1.22	14.69	3791.54	3.28	39.42	
250	10665150.00	374150.00	3787.96	3789.15	1.18	14.22	3791.23	3.27	39.26	
251	10665150.00	374200.00	3787.77	3788.89	1.12	13.42	3790.93	3.16	37.93	
252	10665150.00	374250.00	3787.56	3788.74	1.18	14.15	3790.77	3.21	38.47	



Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
253	10665150.00	374300.00	3787.40	3788.63	1.23	14.80	3790.64	3.24	38.83	
254	10665150.00	374350.00	3787.00	3788.08	1.08	13.01	#N/A	#N/A	#N/A	Location falls within Drainage Swale
255	10665150.00	374400.00	3786.73	3787.93	1.20	14.42	3789.98	3.25	39.00	
256	10665150.00	374450.00	3786.40	3787.54	1.14	13.66	3789.61	3.21	38.57	
257	10665150.00	374500.00	3786.27	3787.39	1.12	13.42	3789.42	3.14	37.74	
258	10665150.00	374550.00	3786.34	3787.42	1.08	12.94	3789.54	3.20	38.35	
259	10665150.00	374600.00	3786.73	3787.87	1.14	13.68	3789.99	3.26	39.13	
260	10665150.00	374650.00	3787.11	3788.37	1.26	15.12	3790.49	3.38	40.50	
261	10665150.00	374700.00	3787.52	3788.65	1.13	13.61	3790.65	3.13	37.60	
262	10665150.00	374750.00	3787.87	3789.15	1.28	15.31	3791.19	3.32	39.83	
263	10665150.00	374800.00	3788.18	3789.34	1.16	13.96	3791.43	3.25	39.02	
264	10665150.00	374850.00	3788.61	3789.92	1.30	15.66	3791.92	3.31	39.67	
265	10665150.00	374900.00	3788.75	3790.02	1.27	15.20	3792.05	3.30	39.61	
266	10665150.00	374950.00	3789.27	3790.53	1.26	15.14	3792.58	3.31	39.70	
267	10665150.00	375000.00	3789.38	3790.53	1.15	13.75	3792.59	3.21	38.47	
268	10665150.00	375050.00	3790.13	3791.20	1.07	12.80	3793.24	3.11	37.30	
269	10665150.00	375100.00	3790.87	3791.96	1.09	13.10	3794.06	3.19	38.33	
270	10665150.00	375150.00	3791.24	3792.34	1.10	13.14	3794.39	3.15	37.84	
271	10665200.00	373800.00	3789.61	3790.63	1.02	12.24	3792.69	3.08	36.91	
272	10665200.00	373850.00	3789.33	3790.55	1.22	14.62	3792.55	3.22	38.63	
273	10665200.00	373900.00	3789.13	3790.31	1.17	14.10	3792.37	3.24	38.83	
274	10665200.00	373950.00	3788.96	3790.13	1.17	14.06	3792.19	3.23	38.72	
275	10665200.00	374000.00	3788.66	3789.70	1.04	12.46	3791.76	3.10	37.25	
276	10665200.00	374050.00	3788.63	3789.84	1.21	14.57	3791.85	3.21	38.58	
277	10665200.00	374100.00	3788.14	3789.20	1.06	12.67	3791.21	3.07	36.83	
278	10665200.00	374150.00	3787.88	3789.01	1.13	13.52	3791.05	3.16	37.98	
279	10665200.00	374200.00	3787.75	3788.95	1.20	14.38	3790.97	3.22	38.64	
280	10665200.00	374250.00	3787.52	3788.70	1.18	14.12	3790.73	3.20	38.46	
281	10665200.00	374300.00	3787.28	3788.32	1.04	12.46	3790.37	3.09	37.04	
282	10665200.00	374350.00	3786.93	3788.06	1.13	13.56	3790.12	3.19	38.32	
283	10665200.00	374400.00	3786.87	3788.08	1.21	14.56	3789.89	3.02	36.24	
284	10665200.00	374450.00	3786.24	3787.28	1.04	12.49	3789.34	3.10	37.18	
285	10665200.00	374500.00	3786.09	3787.20	1.11	13.26	3789.25	3.16	37.96	
286	10665200.00	374550.00	3786.28	3787.37	1.09	13.08	3789.53	3.25	39.00	
287	10665200.00	374600.00	3786.62	3787.75	1.13	13.56	3789.91	3.29	39.52	
288	10665200.00	374650.00	3787.31	3788.61	1.30	15.60	3790.62	3.31	39.72	

Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
289	10665200.00	374700.00	3788.03	3789.19	1.16	13.97	3791.25	3.22	38.64	
290	10665200.00	374750.00	3788.20	3789.39	1.19	14.30	3791.43	3.23	38.75	
291	10665200.00	374800.00	3788.68	3789.78	1.10	13.15	3791.82	3.14	37.67	
292	10665200.00	374850.00	3788.95	3790.06	1.11	13.33	3792.18	3.23	38.81	
293	10665200.00	374900.00	3789.28	3790.47	1.19	14.32	3792.56	3.28	39.38	
294	10665200.00	374950.00	3789.66	3790.69	1.03	12.36	3792.73	3.07	36.86	
295	10665200.00	375000.00	3789.99	3791.18	1.19	14.30	3793.26	3.27	39.25	
296	10665200.00	375050.00	3790.49	3791.75	1.26	15.07	3793.81	3.32	39.85	
297	10665200.00	375100.00	3790.92	3792.23	1.31	15.68	3794.31	3.39	40.63	
298	10665200.00	375150.00	3791.53	3792.53	1.00	12.00	3794.66	3.13	37.60	
299	10665250.00	373800.00	3789.54	3790.58	1.04	12.48	3792.98	3.44	41.28	
300	10665250.00	373850.00	3789.37	3790.55	1.18	14.20	3792.64	3.27	39.23	
301	10665250.00	373900.00	3789.23	3790.50	1.27	15.23	3792.55	3.32	39.83	
302	10665250.00	373950.00	3788.89	3790.04	1.15	13.78	3792.08	3.18	38.22	
303	10665250.00	374000.00	3788.72	3789.79	1.07	12.85	3791.93	3.21	38.54	
304	10665250.00	374050.00	3788.46	3789.51	1.05	12.64	3791.56	3.10	37.25	
305	10665250.00	374100.00	3788.17	3789.31	1.13	13.62	3791.38	3.21	38.47	
306	10665250.00	374150.00	3787.93	3789.00	1.07	12.80	3791.31	3.38	40.54	
307	10665250.00	374200.00	3787.76	3788.91	1.15	13.81	3791.03	3.27	39.19	
308	10665250.00	374250.00	3787.62	3788.78	1.16	13.91	3790.86	3.24	38.93	
309	10665250.00	374300.00	3787.55	3788.58	1.03	12.36	3790.69	3.14	37.72	
310	10665250.00	374350.00	3787.16	3788.21	1.05	12.60	3790.34	3.18	38.16	
311	10665250.00	374400.00	3786.51	3787.69	1.17	14.10	3789.85	3.34	40.08	
312	10665250.00	374450.00	3786.19	3787.29	1.10	13.18	3789.41	3.22	38.64	
313	10665250.00	374500.00	3785.89	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	NA(On Pond Slope)
314	10665250.00	374550.00	3786.13	3787.32	1.19	14.28	3789.38	3.25	38.98	
315	10665250.00	374600.00	3786.50	3787.64	1.14	13.68	3789.71	3.21	38.54	
316	10665250.00	374650.00	3787.21	3788.32	1.11	13.32	3790.46	3.25	38.96	
317	10665250.00	374700.00	3787.98	3789.17	1.19	14.30	3791.27	3.29	39.43	
318	10665250.00	374750.00	3788.59	3789.73	1.13	13.62	3791.83	3.24	38.89	
319	10665250.00	374800.00	3789.05	3790.10	1.05	12.55	3792.15	3.10	37.25	
320	10665250.00	374850.00	3789.42	3790.62	1.20	14.41	3792.73	3.31	39.71	
321	10665250.00	374900.00	3789.60	3790.81	1.21	14.51	3792.90	3.30	39.55	
322	10665250.00	374950.00	3789.61	3790.79	1.18	14.11	3792.86	3.25	38.96	
323	10665250.00	375000.00	3790.25	3791.34	1.09	13.04	3793.37	3.12	37.45	
324	10665250.00	375050.00	3790.64	3791.68	1.04	12.50	3793.76	3.12	37.39	

Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
325	10665250.00	375100.00	3791.22	3792.52	1.30	15.60	3794.59	3.37	40.49	
326	10665300.00	373800.00	3790.53	3791.81	1.28	15.36	3793.53	3.00	36.00	
327	10665300.00	373850.00	3788.22	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
328	10665300.00	373900.00	3790.25	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Drainage Swale
329	10665300.00	373950.00	3791.73	3792.3	0.57	6.84	3794.72	3.00	36.00	
330	10665300.00	374000.00	3791.35	3792.40	1.05	12.58	3794.38	3.03	36.34	
331	10665300.00	374050.00	3790.35	3791.38	1.03	12.37	3793.43	3.08	36.94	
332	10665300.00	374100.00	3789.44	3790.44	1.00	12.01	3792.54	3.10	37.15	
333	10665300.00	374150.00	3788.98	3790.06	1.08	12.96	3792.12	3.13	37.62	
334	10665300.00	374200.00	3787.74	3789.12	1.38	16.58	3791.21	3.47	41.59	
335	10665300.00	374250.00	3787.35	3788.38	1.03	12.38	3790.48	3.13	37.50	
336	10665300.00	374300.00	3787.00	3788.27	1.27	15.20	3790.32	3.32	39.88	
337	10665300.00	374350.00	3786.70	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Drainage Swale
338	10665300.00	374400.00	3785.64	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
339	10665300.00	374450.00	3785.88	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
340	10665300.00	374500.00	3785.96	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
341	10665300.00	374550.00	3785.30	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
342	10665300.00	374600.00	3786.05	3787.23	1.18	14.16	3789.33	3.28	39.37	
343	10665300.00	374650.00	3787.17	3788.3	1.13	13.56	3790.30	3.13	37.52	
344	10665300.00	374700.00	3788.54	3789.80	1.26	15.07	3791.88	3.34	40.04	
345	10665300.00	374750.00	3789.11	3790.41	1.30	15.54	3792.49	3.38	40.50	
346	10665300.00	374800.00	3789.76	3791.05	1.28	15.42	3793.19	3.43	41.20	
347	10665300.00	374850.00	3789.87	3791.11	1.24	14.90	3793.24	3.37	40.40	
348	10665300.00	374900.00	3789.94	3791.17	1.23	14.75	3793.25	3.30	39.66	
349	10665300.00	374950.00	3790.13	3791.25	1.12	13.43	3793.38	3.25	38.96	
350	10665300.00	375000.00	3790.10	3791.28	1.18	14.15	3793.39	3.29	39.53	
351	10665300.00	375050.00	3790.66	3791.89	1.23	14.72	3793.99	3.33	39.97	
352	10665350.00	373800.00	3791.90	3793.03	1.13	13.61	3795.07	3.17	38.06	
353	10665350.00	373850.00	3792.43	3793.52	1.09	13.04	3795.53	3.10	37.20	
354	10665350.00	373900.00	3793.40	3794.64	1.24	14.93	3796.74	3.34	40.10	
355	10665350.00	373950.00	3793.38	3794.56	1.17	14.10	3796.64	3.26	39.17	
356	10665350.00	374000.00	3792.72	3793.88	1.16	13.87	3795.94	3.22	38.65	
357	10665350.00	374050.00	3792.87	3794.09	1.22	14.65	3796.11	3.24	38.83	
358	10665350.00	374100.00	3792.58	3793.78	1.20	14.36	3795.87	3.29	39.48	
359	10665350.00	374150.00	3792.56	3793.75	1.19	14.23	3795.77	3.21	38.57	
360	10665350.00	374200.00	3789.63	3790.99	1.36	16.27	3792.97	3.34	40.12	



Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
361	10665350.00	374250.00	3788.09	3789.42	1.33	15.95	3791.46	3.37	40.46	
362	10665350.00	374300.00	3787.10	3788.21	1.11	13.28	3790.21	3.11	37.33	
363	10665350.00	374350.00	3786.85	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
364	10665350.00	374400.00	3785.36	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
365	10665350.00	374450.00	3785.13	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
366	10665350.00	374500.00	3785.48	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
367	10665350.00	374550.00	3784.92	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
368	10665350.00	374600.00	3787.42	3788.51	1.09	13.08	3790.39	3.00	36.00	
369	10665350.00	374650.00	3787.02	3788.26	1.24	14.88	3790.31	3.29	39.52	
370	10665350.00	374700.00	3788.49	3789.68	1.19	14.24	3791.83	3.34	40.07	
371	10665350.00	374750.00	3789.36	3790.58	1.22	14.66	3792.67	3.31	39.73	
372	10665350.00	374800.00	3790.33	3791.39	1.06	12.70	3793.44	3.11	37.36	
373	10665350.00	374850.00	3790.62	3791.69	1.07	12.78	3793.79	3.17	37.99	
374	10665350.00	374900.00	3790.41	3791.64	1.23	14.72	3793.77	3.36	40.37	
375	10665350.00	374950.00	3790.96	3792.03	1.07	12.86	3794.08	3.12	37.49	
376	10665350.00	375000.00	3791.06	3792.11	1.05	12.65	3794.11	3.05	36.60	
377	10665400.00	373750.00	3793.90	3794.93	1.03	12.38	3797.03	3.13	37.54	
378	10665400.00	373800.00	3793.60	3794.69	1.09	13.12	3796.76	3.16	37.93	
379	10665400.00	373850.00	3793.74	3794.72	1.00	12.00	3796.78	3.04	36.44	
380	10665400.00	373900.00	3794.36	3795.45	1.09	13.10	3797.46	3.10	37.25	
381	10665400.00	373950.00	3794.44	3795.56	1.12	13.39	3797.56	3.12	37.48	
382	10665400.00	374000.00	3794.18	3795.30	1.12	13.39	3797.37	3.19	38.29	
383	10665400.00	374050.00	3794.57	3795.61	1.04	12.50	3797.66	3.09	37.06	
384	10665400.00	374100.00	3794.46	3795.52	1.06	12.68	3797.57	3.11	37.32	
385	10665400.00	374150.00	3793.53	3794.57	1.04	12.53	3796.70	3.17	38.03	
386	10665400.00	374200.00	3791.81	3792.99	1.18	14.14	3795.03	3.22	38.68	
387	10665400.00	374250.00	3788.21	3789.64	1.43	17.20	3791.76	3.55	42.59	
388	10665400.00	374300.00	3787.13	3788.16	1.03	12.40	3790.31	3.18	38.16	
389	10665400.00	374350.00	3786.29	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
390	10665400.00	374400.00	3785.73	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
391	10665400.00	374450.00	3785.23	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
392	10665400.00	374500.00	3784.29	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
393	10665400.00	374550.00	3784.69	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
394	10665400.00	374600.00	3787.48	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
395	10665400.00	374650.00	3788.01	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
396	10665400.00	374700.00	3787.80	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond

Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
397	10665450.00	373750.00	3794.61	3795.87	1.26	15.12	3797.93	3.32	39.89	
398	10665450.00	373800.00	3794.64	3795.81	1.17	14.04	3797.80	3.16	37.97	
399	10665450.00	373850.00	3795.02	3796.14	1.12	13.42	3798.15	3.13	37.52	
400	10665450.00	373900.00	3795.07	3796.18	1.11	13.27	3798.20	3.13	37.50	
401	10665450.00	373950.00	3795.23	3796.38	1.15	13.78	3798.37	3.14	37.68	
402	10665450.00	374000.00	3795.35	3796.40	1.05	12.64	3798.39	3.04	36.52	
403	10665450.00	374050.00	3796.19	3797.40	1.21	14.54	3799.40	3.21	38.50	
404	10665450.00	374100.00	3796.31	3797.33	1.02	12.28	3799.39	3.08	37.00	
405	10665450.00	374150.00	3796.25	3797.25	1.00	11.98	3799.26	3.01	36.17	
406	10665450.00	374200.00	3792.74	3794.00	1.26	15.10	3796.02	3.28	39.30	
407	10665450.00	374250.00	3789.27	3790.59	1.32	15.84	3792.64	3.37	40.49	
408	10665450.00	374300.00	3787.27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
409	10665450.00	374350.00	3786.40	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
410	10665450.00	374400.00	3785.28	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
411	10665450.00	374450.00	3784.19	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
412	10665450.00	374500.00	3783.26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
413	10665450.00	374550.00	3789.76	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	n Pond Slope/Haul Road)
414	10665450.00	374600.00	3788.13	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	NA(In Haul Road)
415	10665500.00	373700.00	3795.02	3796.14	1.12	13.44	3798.16	3.14	37.72	
416	10665500.00	373750.00	3795.09	3796.32	1.23	14.75	3798.35	3.26	39.17	
417	10665500.00	373800.00	3795.25	3796.41	1.16	13.86	3798.50	3.25	39.00	
418	10665500.00	373850.00	3795.48	3796.65	1.17	14.03	3798.70	3.22	38.65	
419	10665500.00	373900.00	3795.78	3797.00	1.21	14.58	3799.02	3.24	38.93	
420	10665500.00	373950.00	3795.95	3797.06	1.11	13.37	3799.15	3.20	38.44	
421	10665500.00	374000.00	3796.38	3797.54	1.16	13.88	3799.57	3.19	38.28	
422	10665500.00	374050.00	3797.26	3798.56	1.30	15.59	3800.62	3.35	40.26	
423	10665500.00	374100.00	3796.95	3798.72	1.77	21.29	3800.71	3.76	45.08	
424	10665500.00	374150.00	3797.30	3798.51	1.21	14.51	3800.58	3.28	39.35	
425	10665500.00	374200.00	3794.39	3795.67	1.28	15.32	3797.71	3.32	39.79	
426	10665500.00	374250.00	3790.27	3791.63	1.36	16.32	3793.71	3.44	41.29	
427	10665500.00	374300.00	3787.84	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
428	10665500.00	374350.00	3786.01	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
429	10665500.00	374400.00	3786.47	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
430	10665500.00	374450.00	3785.20	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
431	10665500.00	374500.00	3787.77	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
432	10665500.00	374550.00	3790.55	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond



Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
433	10665550.00	373700.00	3795.28	3796.46	1.18	14.15	3798.51	3.22	38.70	
434	10665550.00	373750.00	3795.58	3796.71	1.13	13.58	3798.73	3.15	37.85	
435	10665550.00	373800.00	3795.67	3796.78	1.11	13.33	3798.82	3.15	37.81	
436	10665550.00	373850.00	3795.99	3797.24	1.25	14.95	3799.28	3.29	39.49	
437	10665550.00	373900.00	3796.30	3797.54	1.24	14.89	3799.55	3.25	39.02	
438	10665550.00	373950.00	3796.62	3797.75	1.13	13.57	3799.73	3.11	37.37	
439	10665550.00	374000.00	3797.17	3798.36	1.18	14.22	3800.42	3.25	39.04	
440	10665550.00	374050.00	3798.20	3799.34	1.14	13.64	3801.37	3.17	38.05	
441	10665550.00	374100.00	3798.30	3799.58	1.28	15.40	3801.56	3.26	39.16	
442	10665550.00	374150.00	3798.00	3799.03	1.03	12.34	3801.06	3.06	36.72	
443	10665550.00	374200.00	3794.48	3795.69	1.20	14.46	3797.71	3.23	38.72	
444	10665550.00	374250.00	3790.73	3792.01	1.28	15.34	3793.96	3.23	38.80	
445	10665550.00	374300.00	3787.87	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
446	10665550.00	374350.00	3787.18	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
447	10665550.00	374400.00	3787.09	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
448	10665550.00	374450.00	3786.61	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
449	10665550.00	374500.00	3792.11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
450	10665600.00	373700.00	3795.19	3796.37	1.18	14.11	3798.42	3.23	38.77	
451	10665600.00	373750.00	3795.58	3796.72	1.14	13.73	3798.78	3.20	38.41	
452	10665600.00	373800.00	3795.93	3797.01	1.08	12.96	3799.03	3.10	37.18	
453	10665600.00	373850.00	3796.44	3797.54	1.10	13.15	3799.54	3.10	37.24	
454	10665600.00	373900.00	3796.82	3797.80	1.00	12.00	3799.83	3.01	36.08	
455	10665600.00	373950.00	3797.26	3798.27	1.01	12.16	3800.27	3.01	36.14	
456	10665600.00	374000.00	3797.65	3798.91	1.26	15.07	3800.93	3.28	39.41	
457	10665600.00	374050.00	3798.66	3799.85	1.19	14.24	3801.89	3.23	38.76	
458	10665600.00	374100.00	3798.90	3800.10	1.19	14.34	3802.16	3.26	39.17	
459	10665600.00	374150.00	3798.18	3799.38	1.20	14.40	3801.42	3.24	38.86	
460	10665600.00	374200.00	3794.79	3795.95	1.16	13.87	3798.00	3.21	38.53	
461	10665600.00	374250.00	3791.16	3792.18	1.02	12.26	3794.28	3.12	37.49	
462	10665600.00	374300.00	3788.13	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
463	10665600.00	374350.00	3787.24	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
464	10665600.00	374400.00	3787.30	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
465	10665600.00	374450.00	3792.98	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Haul Road - Needs to be recorded
466	10665650.00	373700.00	3795.01	3796.00	1.00	12.00	3798.07	3.06	36.68	
467	10665650.00	373750.00	3795.64	3796.67	1.03	12.40	3798.74	3.10	37.14	
468	10665650.00	373800.00	3796.32	3797.47	1.15	13.75	3799.51	3.19	38.29	



Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
469	10665650.00	373850.00	3796.66	3797.69	1.03	12.37	3799.73	3.07	36.86	
470	10665650.00	373900.00	3797.30	3798.41	1.11	13.30	3800.42	3.12	37.48	
471	10665650.00	373950.00	3797.75	3798.84	1.09	13.10	3800.93	3.18	38.10	
472	10665650.00	374000.00	3798.56	3799.58	1.02	12.19	3801.63	3.07	36.78	
473	10665650.00	374050.00	3798.73	3799.83	1.10	13.16	3802.21	3.48	41.76	
474	10665650.00	374100.00	3799.01	3800.03	1.02	12.29	3802.24	3.23	38.80	
475	10665650.00	374150.00	3798.11	3799.12	1.01	12.16	3801.20	3.09	37.10	
476	10665650.00	374200.00	3795.05	3796.28	1.23	14.81	3798.32	3.27	39.24	
477	10665650.00	374250.00	3792.49	3793.56	1.07	12.78	3795.62	3.13	37.55	
478	10665650.00	374300.00	3790.81	3791.99	1.18	14.16	3793.99	3.18	38.17	
479	10665650.00	374350.00	3788.35	3789.44	1.09	13.08	3791.55	3.20	38.45	
480	10665650.00	374400.00	3793.16	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	Location falls within Detention Pond
481	10665700.00	373700.00	3794.85	3795.89	1.04	12.48	3797.97	3.12	37.38	
482	10665700.00	373750.00	3795.49	3796.68	1.19	14.29	3798.65	3.16	37.94	
483	10665700.00	373800.00	3796.09	3797.19	1.10	13.18	3799.17	3.08	36.96	
484	10665700.00	373850.00	3796.71	3797.86	1.15	13.75	3799.87	3.16	37.94	
485	10665700.00	373900.00	3797.36	3798.50	1.14	13.68	3800.50	3.14	37.69	
486	10665700.00	373950.00	3798.30	3799.48	1.18	14.17	3801.53	3.23	38.76	
487	10665700.00	374000.00	3799.25	3800.44	1.19	14.29	3802.50	3.25	39.00	
488	10665700.00	374050.00	3799.65	3800.84	1.19	14.30	3802.89	3.24	38.90	
489	10665700.00	374100.00	3798.90	3800.16	1.26	15.08	3802.23	3.33	39.97	
490	10665700.00	374150.00	3797.62	3798.71	1.09	13.08	3800.76	3.14	37.62	
491	10665700.00	374200.00	3795.41	3796.43	1.02	12.28	3798.51	3.10	37.14	
492	10665700.00	374250.00	3793.07	3794.18	1.11	13.26	3796.25	3.18	38.17	
493	10665700.00	374300.00	3792.82	3793.72	1.00	12.00	3795.83	3.01	36.12	
494	10665700.00	374350.00	3792.42	#N/A	#N/A	#N/A	3796.00	3.58	42.96	
495	10665750.00	373700.00	3795.23	3796.22	1.00	12.00	3798.28	3.05	36.55	
496	10665750.00	373750.00	3795.85	3796.92	1.07	12.85	3798.93	3.08	36.95	
497	10665750.00	373800.00	3796.11	3797.24	1.13	13.57	3799.30	3.19	38.28	
498	10665750.00	373850.00	3796.66	3797.81	1.15	13.82	3799.82	3.16	37.97	
499	10665750.00	373900.00	3797.17	3798.27	1.10	13.20	3800.33	3.16	37.94	
500	10665750.00	373950.00	3798.33	3799.49	1.16	13.96	3801.49	3.16	37.94	
501	10665750.00	374000.00	3799.83	3800.93	1.10	13.14	3802.98	3.15	37.78	
502	10665750.00	374050.00	3800.20	3801.20	1.00	11.98	3803.19	3.00	36.00	
503	10665750.00	374100.00	3799.92	3800.97	1.05	12.56	3803.06	3.14	37.73	
504	10665750.00	374150.00	3797.97	3799.05	1.08	12.96	3801.11	3.14	37.68	



Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
505	10665750.00	374200.00	3795.64	3796.86	1.22	14.62	3798.94	3.30	39.65	
506	10665750.00	374250.00	3793.66	3795.09	1.43	17.15	3797.19	3.53	42.32	
507	10665750.00	374300.00	3794.56	#N/A	#N/A	#N/A	3798.06	3.50	42.00	
508	10665800.00	373700.00	3794.99	3796.12	1.13	13.60	3798.18	3.19	38.33	
509	10665800.00	373750.00	3795.43	3796.60	1.17	14.08	3798.63	3.20	38.41	
510	10665800.00	373800.00	3795.98	3797.09	1.11	13.28	3799.16	3.18	38.16	
511	10665800.00	373850.00	3796.70	3797.78	1.08	12.92	3799.83	3.13	37.57	
512	10665800.00	373900.00	3797.35	3798.52	1.17	13.99	3800.54	3.19	38.23	
513	10665800.00	373950.00	3798.17	3799.17	1.00	12.00	3801.23	3.06	36.74	
514	10665800.00	374000.00	3799.29	3800.44	1.14	13.74	3802.45	3.16	37.91	
515	10665800.00	374050.00	3800.70	3801.86	1.16	13.93	3803.90	3.20	38.44	
516	10665800.00	374100.00	3800.35	3801.39	1.04	12.47	3803.48	3.13	37.57	
517	10665800.00	374150.00	3798.58	3799.70	1.12	13.39	3801.76	3.18	38.18	
518	10665800.00	374200.00	3796.47	3797.61	1.14	13.62	3799.70	3.23	38.80	
519	10665800.00	374250.00	3795.05	3796.31	1.25	15.06	3798.38	3.33	39.91	
520	10665850.00	373700.00	3794.87	3795.88	1.01	12.13	3797.97	3.10	37.20	
521	10665850.00	373750.00	3795.52	3796.53	1.01	12.11	3798.53	3.01	36.17	
522	10665850.00	373800.00	3796.16	3797.18	1.02	12.20	3799.25	3.09	37.10	
523	10665850.00	373850.00	3796.89	3797.92	1.03	12.37	3799.97	3.08	36.90	
524	10665850.00	373900.00	3797.51	3798.56	1.05	12.60	3800.61	3.10	37.15	
525	10665850.00	373950.00	3797.88	3799.00	1.12	13.40	3801.08	3.20	38.36	
526	10665850.00	374000.00	3799.05	3800.10	1.05	12.65	3802.18	3.13	37.60	
527	10665850.00	374050.00	3800.41	3801.46	1.05	12.54	3803.46	3.05	36.58	
528	10665850.00	374100.00	3800.89	3802.01	1.12	13.48	3804.05	3.16	37.91	
529	10665850.00	374150.00	3799.08	3800.11	1.03	12.31	3802.19	3.11	37.33	
530	10665850.00	374200.00	3797.57	3798.59	1.02	12.20	3800.64	3.07	36.79	
531	10665900.00	373700.00	3795.55	3796.54	1.00	12.00	3798.51	3.00	36.00	
532	10665900.00	373750.00	3796.19	3797.21	1.02	12.24	3799.22	3.03	36.36	
533	10665900.00	373800.00	3796.71	3797.73	1.02	12.20	3799.79	3.08	36.95	
534	10665900.00	373850.00	3797.17	3798.15	1.00	12.00	3800.20	3.03	36.35	
535	10665900.00	373900.00	3797.49	3798.56	1.07	12.84	3800.57	3.08	36.91	
536	10665900.00	373950.00	3798.08	3799.17	1.09	13.04	3801.16	3.08	36.97	
537	10665900.00	374000.00	3799.31	3800.31	1.00	12.01	3802.35	3.04	36.47	
538	10665900.00	374050.00	3800.29	3801.37	1.08	12.96	3803.39	3.10	37.22	
539	10665900.00	374100.00	3800.29	3801.31	1.02	12.28	3803.31	3.02	36.29	
540	10665900.00	374150.00	3798.93	3800.00	1.07	12.83	3802.00	3.07	36.88	



Table 7. Control Points
North Pad Evapotranspirative Cover
Former ASARCO Smelter Site - El Paso, Texas

Total CQA Locations	Difference in ft	560	
	0.000	509	91%
	-0.001	0	0%
	-0.05	0	0%
	#N/A	51	9%
Total Points Listed		560	

TCT ASARCO - North Pad ET Cover										
CQA Control Points										
CQA CONTROL POINT #	SUBGRADE WASTE LAYER			CLAY LAYER			ET COVER			Notes
	Northing	Easting	Elevation	As-Built Elevation	Difference		As-Built Elevation	Difference		
				ECS Survey	Δ in FT	Δ in IN	ECS Survey	Δ in FT	Δ in IN	
541	10665900.00	374200.00	3798.19	3799.24	1.05	12.54	3801.30	3.11	37.37	
542	10665950.00	373750.00	3795.84	3796.89	1.05	12.60	3798.84	3.00	36.00	
543	10665950.00	373800.00	3796.12	3797.16	1.04	12.50	3799.21	3.09	37.10	
544	10665950.00	373850.00	3796.55	3797.59	1.04	12.47	3799.65	3.10	37.19	
545	10665950.00	373900.00	3797.23	3798.32	1.09	13.09	3800.35	3.12	37.39	
546	10665950.00	373950.00	3797.65	3798.68	1.03	12.40	3800.72	3.07	36.89	
547	10665950.00	374000.00	3798.54	3799.56	1.02	12.22	3801.64	3.10	37.21	
548	10665950.00	374050.00	3798.35	3799.44	1.09	13.06	3801.53	3.18	38.12	
549	10665950.00	374100.00	3798.67	3799.74	1.07	12.78	3801.81	3.14	37.69	
550	10665950.00	374150.00	3798.78	3799.77	1.00	12.00	3801.89	3.11	37.37	
551	10666000.00	373800.00	3795.35	3796.35	1.00	12.05	3798.70	3.35	40.20	
552	10666000.00	373850.00	3795.89	3796.89	1.00	12.00	3798.85	3.00	36.00	
553	10666000.00	373900.00	3796.62	3797.76	1.14	13.67	3799.79	3.17	38.05	
554	10666000.00	373950.00	3797.13	3798.26	1.13	13.56	3800.30	3.17	38.00	
555	10666000.00	374000.00	3797.30	3798.32	1.02	12.22	3800.32	3.02	36.24	
556	10666000.00	374050.00	3797.09	3798.17	1.08	12.91	3800.21	3.12	37.43	
557	10666000.00	374100.00	3797.81	3798.83	1.02	12.19	3800.89	3.08	36.95	
558	10666050.00	373850.00	3795.87	3797.02	1.15	13.75	3799.14	3.27	39.24	
559	10666050.00	373900.00	3796.00	3797.08	1.08	12.95	3799.67	3.67	44.04	
560	10666050.00	373950.00	3796.35	3797.35	1.00	11.99	3799.51	3.16	37.92	