

2016 Asphalt Mix Round Robin

Sampled three different miniature stockpiles from a large stockpile at an asphalt plant.



Sent out three samples from the round robin using different miniature piles.

Wanted to see how much variation there was from different locations in the same larger stockpile.

57's, 8's and sand were used to create a blend gradation. See results below.

Lab#	1"	3/4"	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200	Seives
1	100	96	63	50	30	21	15	9	5	3	0.8	
2	100	92	69	52	32	21	16	10	6	3	1.1	
3	100	94	73	54	33	21	16	10	6	2	0.7	
4	100	93	59	50	31	21	16	10	6	3	1.0	
5	100	92	70	53	32	21	15	10	5	2	0.9	
6	99	91	56	54	32	22	15	10	5	3	1.1	
7	100	92	57	50	30	20	15	9	5	3	0.9	
8	100	89	56	49	29	19	14	9	5	3	1.9	
9	98	80	53	49	30	18	13	9	5	3	0.7	
10	100	90	62	51	30	21	16	11	6	3	1.1	
11	100	92	62	48	29	20	15	10	7	3	0.8	
12	99	91	62	50	30	21	17	12	7	4	1.2	
13	100	92	68	53	32	20	14	8	4	2	0.6	
14	100	93	61	50	30	20	14	9	5	2	0.5	
15	100	94	70	52	32	21	16	10	6	2	0.7	
16	100	90	62	51	30	21	16	11	6	3	1.1	
17	100	87	52	28	25	20	14	10	6	5	0.6	
18	100	93	63	50	31	20	15	10	5	3	0.8	
19	99	92	72	53	30	20	14	8	6	2	0.2	
20	100	93	59	50	30	20	14	9	5	2	0.4	
21	99	97	79	53	48	21	16	10	5	2	0.7	
22	100	94	63	50	29	21	15	10	5	3	0.8	
23	100	93	60	50	31	22	16	10	6	3	0.9	
24	92	61	51	49	30	20	14	9	5	3	0.4	
25	100	88	56	48	28	19	14	10	6	3	0.7	
26	100	87	54	48	29	17	11	7	4	2	0.3	
27	100	87	55	48	27	19	15	10	6	3	0.8	
28	100	93	74	55	33	23	16	10	6	2	0.3	
29	99	93	68	52	31	21	16	10	5	2	0.7	
30	100	88	57	49	30	21	15	10	5	3	0.5	
31	100	91	67	52	31	22	16	11	6	3	1.3	
32	100	89	57	47	27	19	14	9	5	3	0.8	
33	100	91	56	47	28	19	14	10	6	3	0.3	
34	100	89	57	51	30	19	13	9	6	3	0.6	
35	100	92	58	49	29	21	15	10	5	3	0.7	
36	100	93	60	50	31	22	16	10	6	3	0.9	
37	100	95	68	52	32	21	16	10	5	2	0.8	
38	99	92	72	53	30	20	14	8	6	2	0.2	
Avg	99.5	90.4	62.0	49.9	30.6	20.4	14.8	9.6	5.4	2.7	0.8	
High	100	96	79	55	48	23	16	12	7	5	1.9	
Low	92	61	51	28	25	17	11	7	4	2	0.2	
Diff	8	35	28	27	23	6	5	5	3	3	1.7	
% Used	1"	3/4"	1/2"	3/8"	#4	#8	#16	#30	#50	#100	#200	

STD Dev 3/8" #4 #200
4 3 0.3

 On the line of STD DEV
 Beyond STD DEV

3/8" #4 #200
Avg 50 31 0.8
minus 46 28 0.3
Plus 54 34 1.3

