

CALAVERAS STANDARD MATERIALS, INC.

CHINO & CUCAMONGA PLANTS

Mix No. HWR-40

Date: 10/08/08

Project Name:	Headwaters Resources Corporate Yard	Mix No.:	HWR-40
Project Address:	Pomona Fly Ash Terminal City of Pomona	Spec:	2,500 psi @ 28 days
General Contractor:		Agg Size:	1"
Sub Contractor:	Headwaters Resources	Slump:	4.0" +- 1.0"
Description:	Headwaters Resources - 2,500 psi 1" For: "On-Site" Concrete	Cement Type:	II / V
		W/C Ratio:	0.45

		Weight per Cubic Yard (S.S.D.)			Absolute Volume	
	Cement	372	lbs		1.89	C.F.
Aggregate Ratios:	Fly Ash	248	lbs		1.71	C.F.
0 %	1.5" Rock	0	lbs		0.00	C.F.
50 %	1" Rock	1549	lbs		9.30	C.F.
8 %	3/8" Rock	245	lbs	18.59	1.49	C.F.
42 %	#1 Sand	1286	lbs		7.81	C.F.
0 %	#2 Sand	0	lbs		0.00	C.F.
Admixtures:						
1.5 % Air	1. Pozz 200-N	18.6	fl.oz.			
	2. PS-1466	18.6	fl.oz.			
	3. Entrapped	0.0	fl.oz.		0.41	C.F.
	Slump:	4.0" +- 1.0"				
Allowable Water:	33 Gallons	274.89	lbs		4.41	C.F.
Total:		3975	lbs		27.00	C.F.
Unit Weight:		147.2	pcf			

Material	Source		Sp.Gr.	Sp.Wt.
Cement	Portland Type II / V		3.15	196.56
Fly Ash	Class F		2.33	145.39
1.5"	Inland Rock, Cucamonga		2.68	167.23
1"	Inland Rock, Cucamonga		2.67	166.61
3/8"	Inland Rock, Cucamonga		2.64	164.74
Sand	Inland Rock, Cucamonga		2.64	164.74
Sand	Inland Rock, Cucamonga		2.64	164.74
Pozz 200-N	Master Builders (BASF)	3 oz./100 wt.		
PS-1466	Master Builders (BASF)	3 oz./100 wt.		
MBAE-90	Master Builders (BASF)	0 oz./100 wt.		

Approved By: _____

Katha Redmon
Technical Services