TRANSIT MIX CONCRETE CO.

Colorado Springs P.O. Box-1030, CO 80901 (719) 475-0700 (Fax) 475-0226 (7

Pueblo P.O. Box-857, CO 81002 (719) 561-8350 (Fax) 566-0231

CONCRETE MIX DESIGN

July 11, 2011

Secondary Clarifier
Birdsall Road East of Old Pueblo Road
El Paso County, CO

ALTERNATE MIX DESIGN

"Structural Concrete for Liquid Containment Structures - Walls"
4500 PSI @ 28 Days • 15% Fly Ash • Air Entrained • 0.42 Maximum W/CM

GAR NEY COMPANIES Inc. 7911 Shaffer Parkway

Little on, Colorado 80127

				ONE CUBIC YARD		
Ceme nt	(Type I/II)	559 lbs		
Fly Ash	(Class F)	99 lbs		
AEA	(Master Builders AE 90)	6.1 ozs		
WRA	(Master Builders 200N)	19.7 ozs		
MRV'RA	(Master Builders 1020)	41.5 ozs		
Sand	(Daniels Sand)	1235 lbs		
Rock	(Castle Concrete)	1700 lbs		
Wate ·				266 lbs		
TM MIX IDENTIF	ICATI	ON NUMBER		<u>45002110</u>		
Approximate Physic	cal Pro	perties:				
Unit Weight - PCI	+/- 141.1					
Slum > - Inches 5" Max.						
Air Entrainment -% 6% +/- 1%						
Water / Cementitious Ratio .40						

This inix was derived from the enclosed series (104-4). Compliance information on the various materials is also enclosed.

TRAJISIT MIX CONCRETE CO.

R. Jo in Ruppert Vice President, Sales

J. B. Morgan, P. E., C.C.E.

CONSULTING STRUCTURAL ENGINEER

Summary of Concrete Mix Data

6805 TOWAL ENGINEER

Table NO. 104-4 (Air Entrained Flowable Concrete w/ Fly Ash @ 5" - 7" Slump)

Client:

Transit Mix Concrete CO

Project:

Plant Mixes

Aggregates:

ASTM C 33 Coarse and Fine

Cement:

ASTM C 150 Type I-II

Fly Ash:

ASTM C 618 Class F

Admixtures:

ASTM C 494 AE, WRA and HRWRA

							ŧ	
MIX PROPORTIONS	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50
Cement (Type I-II), Ibs.	321	360	400	439	480	519	559	599
Fly Ash (Class F), lbs	55	63	70	78	84	92	99	106
Total Cementitious, It's	376	423	470	517	564	611	658	705
Air Entrainer, oz.	3.1	3.6	4.1	4.5	5.2	5.6	6.1	6.4
Water Reducer, oz.	11.3	12.7	14.1	15.5	16.9	18.3	19.7	21.2
High Range Water Reducer, oz.	18.8	21.2	23.5	25.8	35.8	38.7	41.5	44.3
Fine Aggregate, lbs.	1470	1430	1390	1350	1315	1275	1235	1195
# 57/67 Coarse Aggregate, lbs.	1700	1700	1700	1700	1700	1700	1700	1700
Water, gallons	31.4	31.7	32.0	32.2	30.5	31.5	31.9	33.0
Water, lbs.	261.6	264.1	266.6	268.2	254.1	262.4	265.7	274.9
PHYSICAL PROPERTIES								
Wet Unit WT. (PCF)	139.4	139.7	139.9	140.3	140.6	140.9	141.1	141.3
Slump (Inches)	7.00	6.75	6.50	6.75	6.50	6.50	6.75	6.00
Air Content, %	5.0	5.1	5.5	5.8	5.6	6.0	5.5	5.2
Water Cement Ratio	0.70	0.62	0.57	0.52	0.45	0.43	0.40	0.39
Temperature, (⁰ F)	75	75	76	77	78	78	80	81
COMPRESSIVE STR ENGTH	2000	<u>2500</u>	3000	<u>3500</u>	<u>4000</u>	<u>4500</u>	5000	<u>5500</u>
3 Day Average	1780	2290	2740	3180	3860	4360	4340	4650
7 Day Average	2320	2900	3750	4080	4490	4890	5140	5520
28 Day Average	3000	3510	4040	4610	5690	6250	6610	7060

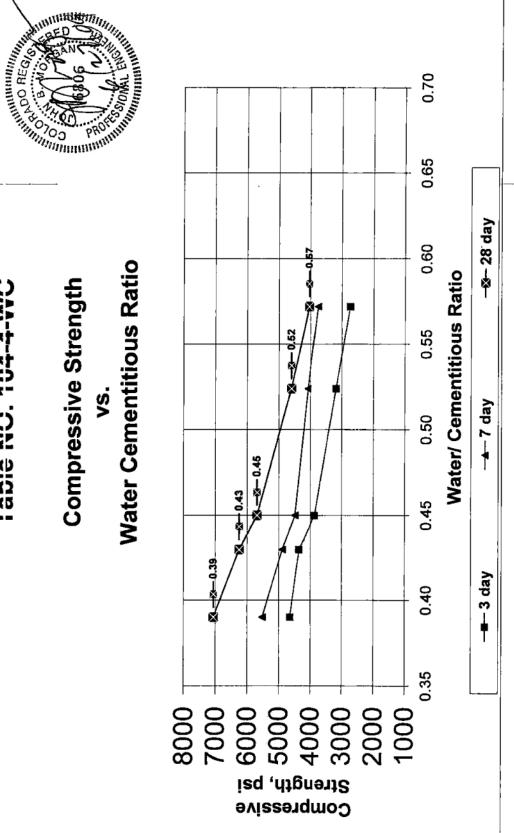
Date Tested:

Tuesday, May 05, 2009

Transit Mix Concrete Company Table NO. 104-4-WC

Compressive Strength

Water Cementitious Ratio



Material Certification Report

Material:

Portland Cement

Test Period:

01-Mar-2011

Type:

I-II(MH) (ASTM C 150)

To:

31-Mar-2011

Certification

Holcim cement meets the specifications of ASTM C 150 for Type I-II(MH) cement.

Camaril lalomethon:

Supplier:

Telephone:

Date Issued:

Holcin (US) Inc.

Address:

3500 Litate Highway 120

Florence, Co. 81226

719-714-1307

08-Api-2011

Source Location: Portland Plant

3500 State Highway 120

Florence, Co. 81226

Contact:

Dick Roush

The following informat on is based on average test data during the test period. The data is typical of cement shipped by Holcim; individual shipments may vary.

		Tess Dat	a on ASTM	Semend Requirements			
	Cher	nicat		Physical			
Item		Limit ^A	Result	item	Limit ^A	Result	
SiO ₂ (%)		-	19.7	Air Content (%)	12 max	6	
Al ₂ O ₃ (%)		6.0 max	4.8	Blaine Fineness (m²/kg)	260 min 430 max	389	
Fe ₂ O ₃ (%)		6.0 max	3.2		1		
CaO (%)		-	63.4				
MgO (%)		6.0 max	1.5	Autoclave Expansion (%) (C 151)	0.80 max	0.02	
SO ₃ (%) ^C		3.0 max	3.3	Compressive Strength MPa (psi):			
Loss on Ignition (%)		3.0 max	2.4				
Insoluble Residue (%)		0.75 max	0.44	3 days	10.0 (1450) min	31.0 (4500)	
CO ₂ (%)		-	1.2	7 days	17.0 (2470) min	37.8 (5480)	
Limestone (%)		5.0 max	3.2				
CaCO ₃ in Limestone (%)		70 min	84	Initial Vicat (minutes)	45-375	127	
Inorganic Processing Addition		5.0 max	0.0				
Potential Phase Composition	,D:			Mortar Bar Expansion (%) (C 1038)		0.014	
C ₃ S (%)		-	59				
C₂S (%)			11		•	-	
C ₃ A (%)		8 max	7				
C ₄ AF (%)		-	10				
C ₃ S + 4.75C ₃ A (%)		100 max	92				
		- Tests Dat	a on ASTM	Optopalifequitements:			
Chemical			Physical				
item		Limit ^A	Result	. Item	<u>Limit^B</u>	Result	
Equivalent Alkalies (%)			0.73	Heat of Hydration: 7 days, kJ/kg (cal/g) ⁸		354 (85)	
			i je i N	9(AS			

Dashes in the limit / result c alumns mean Not Applicable.

This data may have been reparted on previous mill certificates. It is typical of the cement being currently shipped.

B Test result represents most recent value and is provided for information only. Analysis of Heat of Hydration has been carried out by CTLGroup, Skokie, IL.

^c It is permissible to exceed the specification limit provided ASTM C 1038 Mortar Bar Expansion does not exceed 0.020 %.

O Adjusted per Annex A1.6 of ASTM C150 and AASHTO M85.



Transit Mix Concrete
Attn: Robert Montoya
444 E Costilla St.
Colorado Sprir gs, CO 80903-3761

PHOENIX CEMENT

Product: AA;HTO M 295 Class F Fly Ash, Cholla AS M C 618

3-24-11 POZZOLAN TEST REPORT CH#: 51000

Lot: 2083 Results **Specifications** Chemical Analysis (C311 / C114 / P4326) Silicor Dioxide, SiO₂ 60.69 % 22.89 % Aluminum Oxide,Al₂O₃ Ferric Oxide, Fe₂O₃ 6.36 % SiO2+Al2O3+Fe2O3 89.94 % 70.00 Min 3.14 % Calciu n Oxide, CaO 1.24 % Magnesium Oxide, MgO 0.31 % 5.00 Max Sulfur Trioxide, SO₃ 0.02 % 3.00 Max Moist re Content 6.00 Max Loss on Ignition 0.26 % Availa de Alkalis as Na2 O 0.22 % Alkalis (%Na₂ O + 0.658% K₂ O) 1.12 % R Factor (%CaO -5) / (%FeO) -0.29 % Physical Analysis Fineness, amount retained on 34.00 Max 17.70 #3 !5 sieve, % (C430) 0.66 5.00 Max var ation, points from average Density, g/cm³ (C188) 2.20 5.00 Max Variation from average, % 0.00 Strength Activity Index wit i Portland Cement (C311 / C109) at "days, % of cement control 78.75 at 18 days, % of cement control 87.69 75.00 Min Water Requirement (6311) 95.87 105.00 Max % of cement control Soundness, autoclave expansion (C311 / C151) -0.03 0.80 Max or contraction, %

All tests have t een made in strict accordance with the current standards of the American Society for Testing and Materials covering the type of material specified. Corporate Headquarters 8800 E Chaparral Rd, Ste 155 Scottsdale, AZ 85250 Phone: 480-850-5757 Fax: 480-850-5758

Cement Manufacturing 601 N Cement Plant Rd Clarkdale, AZ 86324 Phone: 928-634-2261 Fax: 928-634-3543

19th Avenue Facility 1802 W Lower Buckeye Rd Phoenix, AZ 85007 Phone: 602-253-9149 Fax: 602-253-9160

Lower Buckeye Facility 1941 W Lower Buckeye Rd Phoenix, AZ 85009 Phone: 602-258-7798 Fax: 602-525-3362

> 21st Avenue Facility 1325 N 21st Avenue Phoenix, AZ 85009 Phone: 602-254-3824 Fax: 602-254-3825

Mesa Community Storage Dobson & McKellips Mesa, AZ 85211 Phone: 480-990-7847

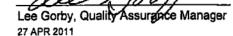
> Cholla Fly Ash Facility P O Box 380 Joseph City, AZ 86032 Phone: 928-288-1661 Fax: 928-288-1663

Four Corners Fly Ash Facility P O Box 1007 Fruitland, NM 87416 Phone: 505-598-8657 Fax: 505-598-8633

> San Juan Fly Ash Facility San Juan Generating Station Waterflow, NM 87421 Phone: 505-598-7546 Fax: 505-598-7547

Escalante Fly Ash Facility CR19 / P O Box 620 Prewitt, NM 87405 Phone: 505-285-4590 Fax: 505-285-4667

> Gallup Fly Ash Facility 9001/4 N 9th St. Gallup, NM 87305







ASTM C 618 TEST REPORT

Sample Number: Sample Date: S-110208024 January 2011 Report Date:

3/24/2011

Sample Source:

Denver

Tested By:

jх

TESTS	RESULTS	ASTM C 618 CLASS F/C	CLASS F/C
CHEMICAL TESTS			

Sillcon Dioxide (SiO2), %	54,61		
Aluminum Oxide (Al2O3), %	22.61		
Iron Oxide (Fe2i)3), %	5.22		
Sum of SiO2, Al 2O3, Fe2O3, %	82.44	70.0/50.0 min.	70.0/50.0 min.
Calcium Oxide (CaO), %	9.62		
Magnesium Oxide (MgO), %	2.53		
Sulfur Trioxide (303), %	0.39	5.0 max.	5.0 max.
Sodium Oxide (I la2O), %	0.33		
Potassium (K2C), %	1.18		
Total Alƙalies (a : Na2O), %	1.11		
PHYSICAL TES IS			

Meets ASTM C 618 and a ASTO M 295, FDOT Section 929, TxDOT DMS 4610, SCDHPT and MDOT specifications for Class F Fly Ash

Approved By:

Loss on Ignition, %

Autoclave Soundness, %

Water Required, % of Control

Loose, Dry Bulk Density, lb/cu. ft.

Specific Gravity

Amount Retaine I on No. 325 Sieve, %

SAI, with Portlar d Cement at 7 Days, % of Control

SAI, with Portlar d Cement at 28 Days, % of Control

Diana Benfield GC Specialist Approved By:

0.67

17.30

2.36

0.03

79.7

90.5

95.9 74.40

Brian Shaw

6.0 max.

34 max.

0.8 max.

75 min.*

75 min.*

105 max.

Materials Testing Manager

5.0 max.

34 max.

0.8 max.

75 min.*

75 min.*

105 max.

^{*} Meeting the 7 day or 28 day Strength Activity Index will indicate specification compliance.



The Chemical Company

May 12, 2011

Transit Mix Concrete CO 444 East Costilla Colorado Springs, Colorado 80903

Attention: Robert Montoya Project: Various Project location: Various

Certificate of Conforr nance
Pave-Air™ 90
BASF Corporation* Fir-Entraining Admixture for Concrete

*(successor in interest to BASF Construction Chemicals, LLC, which is successor by merger to BASF Admixtures, Inc., formerly known as Degussa Admixtures, Inc., formerly known as Master Builders, Inc.)

I, Richard Hubbard, Sr. Technical Marketing Specialist for BASF Corporation, Cleveland, Ohio, certify:

That Pave-Air 90 is a BASF Corporation Air-Entraining Admixture for concrete; and

That no calcium chlo ide or chloride based ingredient is used in the manufacture of Pave-Air 90; and

That Pave-Air 90, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.000068 percent (0.68 ppm) chloride ions by weight of the cement when used at the rate of 65 mL per 100 kg (1 fluid ounce per 100 pounds) of cement; and

That Pave-Air 90 meets the requirements of ASTM C 260, Corps of Engineers' CRD-C 13 and AASHTO M154, the Standard Specifications for Air-Entraining Admixtures for Concrete.

Richard Hubbard

Sr. Technical Marketing Specialist, BASF Corporation

Richard Hubbard I

BASF Corporation 23700 Chagrin Boulvard Cleveland, OH 44122 216 839-7500 ph www.masterbuilders.com





The Chemical Co npany

May 12, 2011

Transit Mix Concrete CO 444 East Costilla Colorado Springs, Cc Iorado 80903

Attention: Robert Montoya Project: Various Project location: Va ious

Certificate of Confornance Pozzolith® 200 N BASF Corporation* Admixture for Concrete

*(successor in interest to BASF Construction Chemicals, LLC, which is successor by merger to BASF Admixtures, Inc., formerly known as Degussa Admixtures, Inc., formerly known as Master Builders, Inc.)

I, Richard Hubbard, Sr. Technical Marketing Specialist for BASF Corporation, Cleveland, Ohio, certify:

That Pozzolith 200 N is a BASF Corporation Water-Reducing Admixture for concrete; and

That no calcium chloride or chloride based ingredient is used in the manufacture of Pozzolith 200 N; and

That Pozzolith 200 N, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.00013 percent (1.3 ppm) chloride ions by weight of the cement when used at the rate of 65 mL per 100 kg (1 fluid ounce per 100 pounds) of cement; and

That, depending on the dosage used, Pozzolith 200 N meets the requirements for a Type A, Water-Reducing, Type B, Retarding, and Tyre D, Water Reducing and Retarding Admixture as specified in ASTM C 494, Corps of Engineers' CRD-C 87 and AASHTO M194, the Standard Specifications for Chemical Admixtures for Concrete.

Richard Hubbard

Sr. Technical Marketir g Specialist, BASF Corporation

Richard Hubbard I

BASF Corporation 23700 Chagrin Boulvard Cleveland, OH 44122 216 839-7500 ph www.masterbuilders.com





The Chemical Company

May 12, 2011

Transit Mix Concrete CO 444 East Costilla Colorado Springs, Colorado 80903

Attention: Robert Montoya Project: Various Project location: Various

Certificate of Conforr rance PolyHeed® 1020 BASF Corporation* Admixture for Concrete

*(successor in interest to BASF Construction Chemicals, LLC, which is successor by merger to BASF Admixtures, Inc., formerly known as Degussa Admixtures, Inc., formerly known as Master Builders, Inc.)

I, Richard Hubbard, & r. Technical Marketing Specialist for BASF Corporation, Cleveland, Ohio, certify:

That PolyHeed 1020 s a BASF Corporation Mid-Range Water-Reducing Admixture for concrete; and

That no calcium chloride or chloride based ingredient is used in the manufacture of PolyHeed 1020; and

That PolyHeed 1020, based on the chlorides originating from all the ingredients used in its manufacture, contributes less than 0.00014 pe cent (1.4 ppm) chloride ions by weight of the cement when used at the rate of 65 mL per 100 kg (1 fluid ounce per 100 pounds) of cement; and

That, depending on the dosage used, PolyHeed 1020 meets the requirements for a Type A, Water-Reducing and Type F, Water-Reducing, High Range Admixture specified in ASTM C 494, Corps of Engineers' CRD-C 87 and AASHTO M194, the Standard Specifications for Chemical Admixtures for Concrete.

Richard Hubbard

Sr. Technical Marketing Specialist, BASF Corporation

Ruhand Jubbard I

BASF Corporation 23700 Chagrin Boulvard Cleveland, OH 44122 216 839-7500 ph www.masterbuilders.com



444 East Costilla Avenue Colorado Springs, Colorado 80903 Pl. (719) 475-0700 Fax (719) 475-0226

2596 Hwy 96 East Pueblo, Colorado 81002 Ph. (719) 543-7898 Fax (719) 583-0345

February 17, 2011

RE:

Fine Concrete Aggregate
Daniels Land Pit
3710 Brc dley Road
Colorado Springs, Colorado 80916

Gentlemen:

This letter preser to the results of physical properties and deleterious substances tests performed on a Fine Concrete Aggregate that was sampled on January 6, 2011 at Daniels Sand Pit.

The results are a follows:

Sieve Size	ize Percent Passing			
			ASTM C 33 Fine Concrete Agg.	
9.5 mm, 3/8"	100		100	
4.75 mm, No. 4	100		95 - 100	
2.36 mm, No. 8	89		80 - 100	
1.18 mm, No. 16	69		50 - 85	
600 um, No. 30	51		25 - 60	
300 um, No. 50	28		10 - 30	
150 um, No. 100	8.2		0 - 10	
75 um, No. 200	1.0		0-3	
Fineness Modulu: 2.60			AASHTO T-37	
Bulk Specific Gravity (SSD): 2.5	9 Absorption: 1.0%		AASHTO T-85	
Magnesium Sulfc le Soundness (Fiv	e Cycles): 2.1% Los	SS	AASHTO T-104	
Sodium Sulfate Soundness (Five C)			AASHTO T-104	
Average Sand Ecuivalent: 87			AASHTO T-176	
Organic Impurities: Clear			AASHTO T-21	
Mortar Bar Exparsion (ASR) - Sodiu	m Hydroxide:	0.04%	AASHTO T-303	

The above samp a was tested according to American Society for Testing and Materials (ASTM) procedures D-75, D-2419, C-702, C-117, C-136, C-33, C-40, C-88, C-128 and C-1260.

If you have any cuestions feel free to contact me at your earliest convenience.

Respectfully Submitted,

Grant W. Smith

Quality Control Manager



444 East Costilla Avenue Ce orado Springs, Colorado 80903 Ph. (719) 475-0700 Fax (719) 475-0226 2596 Hwy 96 East Pueblo, Colorado 81002 Ph. (719) 543-7898 Fax (719) 583-0345

Modified ASTM C 1260 / C 1567 Tests

No.

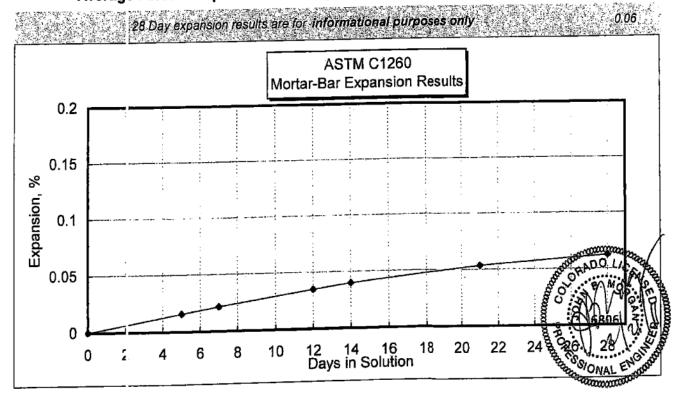
1025D-1-6

Standard Test Meth id for Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars Due to Alkali-Silica Reaction

Materia	ls S	ource Product		t Blend	Blend Batch Weights, g		Notes	
Cemen	t Holeim	Florence, Co	Florence, CO Type I/II 100%		44 0	440	Batched: 1/	17/2011
Flyash	·					410		
Coarse	•					990		
Sand	Daniels	Colo Spgs, (CO FCA	100%	990			
Water					20	06.8		
W/C Rat	io				. · · 0	.47	Completed: 2/	16/2011
	Specimen ID:		D-1, 2, 3					
Days	Date	Co	mparator Readi	ngs	Мо	rtar Bar Expans	ion, %	Average
		1	2	3	1	2	3	
0	1/19/2011	0.1700	0.1700	0.1710				0.0000
5	1/24/2011	0.1716	0.1714	0.1727	0.0160	0.0140	0.0170	0.0157
7	1/26/2011	0.1721	0.1722	0.1732	0.0210	0.0220	0.0220	0.0217
12	1/31/2011	0.1735	0.1735	0.1745	0.0350	0.0350	0.0350	0.0350
14	2/2/20-1	0.1740	0.1740	0,1750	0.0400	0.0400	0.0400	0.0400
21	2/9/2011	0.1753	0.1754	0.1764	0.0530	0.0540	0.0540	0.0537
28	2/16/20 11	0.1763	0.1762	0.1772	0.0630	0.0620	0.0620	0.0623

Average Percent Expansion at 14 days in solution (16 days of age)

0.04



Revised: 11/1/2009

444 East Costilla Avenue Colorado Springs, Colorado 80903 P¹. (719) 475-0700 Fax (719) 475-0226

2596 Hwy 96 East Pueblo, Colorado 8 (002 Ph. (719) 543-7898 Fax (719) 583-0345

February 17, 2011

RÉ:

No. 57/67 Coarse Concrete Aggregate Cas le Concrete 725C Allegheny Drive Colcrado Springs, CO 80919

Gentlemen:

This letter presents the results of physical properties and deleterious substances tests performed on a coarse aggregate that was sampled on January 7, 2011 at Black Canyon Quarry. The results are as follows:

Sieve Size	Percent Passing	Speci	fications
		No. 57	No. 67
37.5 mm, 1 1, 2"	100	100	
25.0 mm, 1"	100	95 - 100	100
19.0 mm, 3/4	93		90 - 100
12.5 mm, 1/2	43	25 - 60	
9.5 mm, 3/8"	23		20 - 55
4.75 mm, No. 4	2.5	0 - 10	0 - 10
2.36 mm, No. 8	1.8	0 - 5	0-5
75 um, No. 200	1.2	0 - 1.5	0 - 1.5
Los Angeles Abrasion (Gradin	g B): 27.0% Loss	AASHTO	T-96
Bulk Specific Gravity (SSD):	2.63 Absorption: 1.5%	OTHZAA	T-85
Magnesium Sulfate Soundnes	s (Five Cycles): 6.3% Loss	OTHZAA	T-104
Sodium Sulfat a Soundness (Fiv		AASHTO	T-104
Clay Lumps and Friable Partic		OTHZAA	T-112
ractured Particles (2 Fracture			
Organic Imputities: Clear	•	OTHSAA	T-21
Julk Density b / Rodding: 98	lb/ft ³ Voids: 40%	AASHTO	T-19
Nortar Bar Expc nsion (ASR) - Sodi		ASTM C	1260

The above sample was tested according to American Society for Testing and Materials (ASTM) procedures D-75, D-5821, C-702, C-117, C-136, C-33, C-40, C-142, C-88, C-127, C-131, C-29 and C-1567.

The above sample conforms to the requirements of ASTM C 33, TABLE 3, Limits for Deleterious Substances and Physical Property Requirements of Coarse Aggregate for Concrete, (1S, 2S, 3S, 4S, 5S, 1M, 2M, 3M, 4/4, 5M, 1N and 2N).

If you have any questions feel free to contact me at your earliest convenience.

Respectfully Submitted,

Grant W. Smith

Quality Contro Manager



· 44 East Costilla Avenue Colo: ado Springs, Colorado 80903 Ph. (719) 475-0700 Fax (719) 475-0226 2596 Hwy 96 East Pueblo, Colorado 81002 Ph. (719) 543-7898 Fax (719) 583-0345

Modified ASTM C 1260 / C 1567 Tests

No.

1037BC-1-7

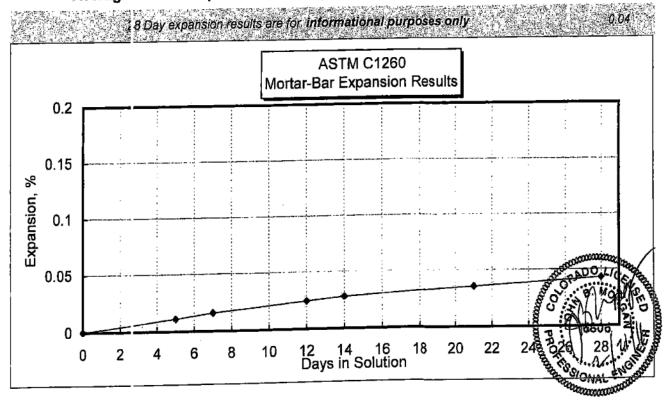
Standard Test Methoc for Accelerated Detection of Potentially Deleterious Expansion of Mortar Bars Due to Alkali-Silica Reaction

Materials	S	ource	Product	Blend	Batch W	/eights, g		Votes
Cement	Holcim	Florence, CO	Type I/II	100%	440	440	Batched:	1/17/2011
Flyash						110		
Coarse	Blk C/n	Colo Spgs, CO	57/67	100%	990	990		
Sand								
Water					20	6.8	<u></u>	
W/C Ratio					0.	47	Completed:	2/16/2011

Specimen ID:			BC-1, 2, 3					
Days	Date	C	Comparator Readings			tar Bar Expansio	on, %	Average
		1	2	3	1	2	3	经的批准
0	1/19/2011	0.1699	0.1695	0.1705				0.0000
5	1/24/2011	0.1709	0.1707	0.1716	0.0100	0.0120	0.0110	0.0110
7	1/26/2011	0.1714	0.1711	0.1722	0.0150	0.0160	0.0170	0.0160
12	1/31/2011	0.1723	0.1720	0.1730	0.0240	0.0250	0.0250	0.0247
14	2/2/2011	0.1726	0.1723	0.1734	0.0270	0.0280	0.0290	0.0280
21	2/9/2011	0.1733	0.1732	0.1741	0.0340	0.0370	0.0360	0.0357
28	2/16/2011	0.1741	0.1739	0.1748	0.0420	0.0440	0.0430	0.0430

Average Percent Expansion at 14 days in solution (16 days of age)

0.03



Revised: 11/1/2009

W

COMMENTS:

WEAVER GENERAL CONSTRUCTION COMPANY

3679 S. Huron St., Suite 404 Englewood, CO 80110

Phone: (303) 789-4111 FAX: (303) 789-4310

SUBMITTAL TRANSMITAL

		July 18, 2011 WGC Submittal No: 03300-010.C							
PROJECT:	Harold Thompson Regional WRF Birdsall Rd. Fountain, CO 80817 Job No. 2908								
ENGINEER:									
OWNER:	Lower Fountain Metropolitan Sewage Disposal District 901 S. Santa Fe Ave. Fountain, CO 80817 719-382-5303 James Heckman								
CONTRACTOR:	Garney Companies Inc. 7911 Shaffer Parkway Littleton, CO 80127								
		Il Mix 5" Slump. roportions and design parameters provided as							
SPEC SECTION: 03	3300 - Cast-In-Place Conc	rete							
PREVIOUS SUBMIS	SSION DATES: 6/29/11								
DEVIATIONS FROM	SPEC: YES X N	IO							
respect to the means, me	ethods, techniques, & safety pre	ewed by Weaver General Construction and approved with cautions & programs incidental thereto. Weaver General ith contracted documents and comprises on deviations							
Contractor's Stamp):	Engineer's Stamp:							
Date: July 18, 201 Reviewed by: H.C (X) Reviewed Wi () Reviewed Wit	. Myers thout Comments								
ENGINEED'S									