



# NEVADA CEMENT COMPANY

Post Office Box 840, Fernley, Nevada 89408 - 0840 (775) 575 - 2281

**LABORATORY TEST REPORT**  
**SAMPLE: TYPE II/V (Low - Alkali)**

DATE: February 2012

Customer: \_\_\_\_\_

SILO: \_\_\_\_\_

Bill of Lading: \_\_\_\_\_

<b>CHEMICAL ANALYSIS (%)</b>	
ASTM C -114	
Silicon Dioxide	21.1
Aluminum Oxide	3.5
Ferric Oxide	2.5
Magnesium Oxide	2.6
Sulfur Trioxide	2.3
Loss on Ignition	1.6
Insoluble Residue	0.35
Total Equ. As Na2O	0.47

<b>PHYSICAL TESTS</b>	
Specific Surface (Blaine) ASTM C - 204	3850
Autoclave Expansion, % ASTM C - 151	0.01
Set Time Vicat Needles ASTM C - 191 Initial Set Min.	90
Air Content, % ASTM C - 185	8

<b>COMPOUND COMPOSITION (%)</b>	
ASTM C - 150	
Tricalcium Silicate	66
Dicalcium Silicate	10
Tricalcium Aluminate	5
2(C3A) + C4AF	18
C3S + 4.75 * C3A	91

<b>COMPRESSIVE STRENGTHS (P.S.I.)</b>		
ASTM C - 109		
	Mpa	(psi)
3 Day Mpa, (psi)	23.9	3470
7 Day Mpa, (psi)	29.9	4340
28 Day Mpa, (psi)	38.3	5550

NEVADA CEMENT COMPANY complies with the requirements of current ASTM C150 specifications for Type II/V low-alkali cement. The above data represents the average of the silos or bins ground during the month of January 2012 from which this cement was shipped.

Cement analysis are reported as oxides, in accordance with ASTM test methods C114.

Silicon dioxide (SiO<sub>2</sub>) is present in the combined state as the compounds tricalcium silicate and dicalcium silicate, and not as crystalline silica. This cement may contain processing additions which meet the requirements of ASTM C465. Compliance documents for these processing additions are available upon request. All test results are certified to comply with the type specification designated. We are not responsible for improper use or workmanship.

\* Heat of Hydration Test is subcontracted out to CTL.

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Ben Bufmack  
Plant Manager