



GeoTek, Inc.  
6835 South Escondido Street, Suite A, Las Vegas, NV 89119-3832  
702-897-1424 Office 702-897-2213 Fax www.geotekusa.com

## TECHNICAL REPORT

REPORT TO: Las Vegas Paving Corporation  
3401 North 5<sup>th</sup>. Street  
North Las Vegas, NV 89032

DATE: June 14, 2010  
WORK ORDER NO: 5478  
SHEET: 1 of 6  
Revision No.

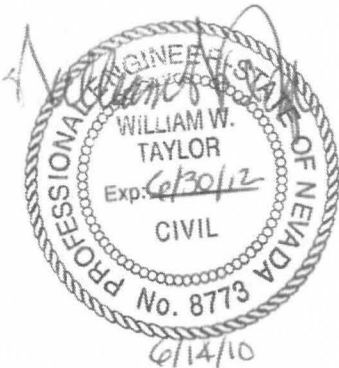
ATTENTION: Mr. Dan Peressini

REPORT OF: Concrete Aggregate Tests for Materials Sampled at the Apex Pit for use in  
Portland Cement Concrete Mixes for Concrete Production

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### SAMPLE IDENTIFICATION

On May 25, 2010, your personnel obtained five samples of concrete aggregates (#4, #67, #89, #7 and Washed Fines) from the above referenced pit. At your request, the following tests were performed: sieve analysis, organic impurities, sodium sulfate soundness, LA abrasion, clay lumps and friable particles, specific gravity, and lightweight pieces in aggregate. These tests were sampled and performed in general accordance with ASTM C29, C40, C88, C117, C123, C127, C128, C535, C136, C142, C229, D75, C289 and NDOT T227, T228. Results of these tests are summarized on the attached sheets.



LABORATORY MANAGER: *Linda S. Coe*

REVIEWED BY: *[Signature]*

**TABLE NO.1 SIEVE ANALYSIS, SPECIFIC GRAVITY AND ABSORPTION OF NO. 4 (1 1/2" - 3/4") COARSE AGGREGATE (ASTM C136, C117 AND C127)**

Laboratory Number	99695 / 99705	ASTM C33 TABLE 2 No. 4
Description	Apex Pit No. 4 Coarse Aggregate (1 1/2" - 3/4")	
Screen or Sieve Size	Percent Passing	
2"	100	100
1-1/2"	100	90 - 100
1"	39	20 - 55
3/4"	4	0 - 15
1/2"	1	-
3/8"	1	0 - 5
No. 4	0	-
No. 8	0	-
No. 200	0.3	0 - 1.5
Bulk Dry Specific Gravity	2.61	N/A
Bulk Specific Gravity, SSD	2.64	N/A
Apparent Specific Gravity	2.69	N/A
Absorption	1.0	N/A

**TABLE NO.2 COARSE AGGREGATE PROPERTIES PERFORMED ON NO. 4 (1 1/2" - 3/4") COARSE AGGREGATE**

Laboratory Tests	Test Method	Test Results	ASTM C33 Table 3
Percentage of Wear (500 Rev.), %	ASTM C131	21	50 max*
Clay Lumps and Friable Particles, %	ASTM C142	0	2 max*
Sodium Sulfate Soundness, % Loss after 5 Cycles	ASTM C88	4.8	12 max*
Lightweight Pieces	ASTM C123	0	0.5 max*
Cleanness Value	NDOT T228	97	71 min
Dry Rodded Unit Weight, pcf	ASTM C29	93.1	N/A

\* ASTM C33, Table 3 for 5S class designation