



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 5th Street
North Las Vegas, NV 89032

DATE: June 10, 2009
WORK ORDER NO: 5478
SHEET: 1 of 5

ATTENTION: Mr. Dan Peressini

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

SAMPLE IDENTIFICATION

On May 5, 2009, your personnel obtained four samples of concrete aggregates 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, lightweight pieces in aggregate, and dry rodded unit weights. These tests were sampled and performed in general accordance with ASTM D75, C136, C117, C40, C88, C131, C142, C127, C128, C123, C29, and AASHTO T303. Results of these tests are summarized on the attached sheets.



LABORATORY MANAGER: *Jenna S. Coulter*

REVIEWED BY: *Andrew E. Bowman*

6/11/09
sxp 12/31/10

**TABLE NO. 3 SIEVE ANALYSIS, SPECIFIC GRAVITY AND ABSORPTION OF
#67 COARSE AGGREGATE (ASTM C136, C117, C127)**

Laboratory Number	98064	ASTM C33 TABLE 2 3/4" x No. 4
Description	Apex Landfill Pit #67 Coarse Aggregate 3/4" x No. 4	
Screen or Sieve Size	Percent Passing	
1"	100	100
3/4"	95	90-100
1/2"	63	-
3/8"	39	20-55
No. 4	4	0-10
No. 8	1	0-5
No. 200	0.8	0-1
Bulk Dry Specific Gravity	2.65	N/A
Bulk Specific Gravity, SSD	2.67	N/A
Apparent Specific Gravity	2.71	N/A
Absorption, %	0.8	N/A

**TABLE NO. 4 COARSE AGGREGATE PROPERTIES PERFORMED ON #67
COARSE AGGREGATE (3/4" X NO. 4)**

Laboratory Tests	Test Method	Test Results	ASTM C33 Table 3
Percentage of Wear (500 Rev.), %	ASTM C131	19	50 max
Clay Lumps and Friable Particles, %	ASTM C142	0.0	2 max*
Sodium Sulfate Soundness, % Loss After 5 Cycles	ASTM C88	0.23	12 max*
Lightweight Pieces	ASTM C123	0.0	0.5 max*
Dry Rodded Unit Weight, pcf	ASTM C29	98.2	N/A

*ASTM C33, Table 3

*** Fine aggregate consists of manufactured sand from the same source as the coarse aggregates. AASHTO T303 tests using fine aggregate are also representative of the coarse aggregates. T303 tests were performed by Concrete Materials Consultants, LLC; see attached reports.