



# TECHNICAL REPORT

**Report To:** Mr. Said Amali  
IRZ Consulting, Inc.  
505 E. Main  
Hermiston, Oregon 97838

**Date:** 8/6/08

**Lab No.:** 08-223

**Project:** Laboratory Testing – Umatilla Recharge Project

**Project No.:** 2065.1.1

**Report of:** Sieve analysis

## Sample Identification


As requested, NTI provided sieve analysis on samples delivered to our laboratory on July 28, 2008 by an IRZ Consulting, Inc. representative. All testing was performed in general accordance with the methods indicated. Our laboratory's test results are summarized on the following table and attached page.

## Laboratory Test Results

Sieve Analysis of Aggregate (ASTM C136/ C117)				
Sieve Size	CL SS 1 @ 6" – 3.0' Percent Passing	CL SS 2 @ 6" – 3.0' Percent Passing	CL SS 3 @ 6" – 3.0' Percent Passing	FD 1-1 @ 6" – 3.0' Percent Passing
3/8"	100	100	100	100
1/4"	99	100	100	100
#4	99	100	99	100
#8	98	100	99	100
#10	98	99	98	100
#16	95	98	97	100
#30	73	80	80	99
#40	49	60	55	97
#50	27	36	32	91
#100	16	14	17	53
#200	12.7	9.8	10.8	31.5

**Copies:** Addressee  
Bryan Black, HDR, Inc.

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SHEET 1 of 2

REVIEWED BY: Bridgett Adams 



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## Laboratory Test Results

Sieve Analysis of Aggregate (ASTM C136/ C117)			
Sieve Size	FD 1-2 @ 6" – 2.5' Percent Passing	FD 1-2 @ 2.5' – 3.0' Percent Passing	FD 1-3 @ 6" – 3.0' Percent Passing
1/2"	100	100	100
3/8"	100	99	100
1/4"	99	98	100
#4	99	98	100
#8	99	98	100
#10	99	98	99
#16	98	97	99
#30	97	95	96
#40	94	92	93
#50	89	86	86
#100	61	66	67
#200	40.4	50.7	44.3

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REVIEWED BY: Bridgett Adame