

6980 Sierra Center Parkway, Suite 90
Reno, NV 89511

April 22, 2015
File: 1009

Mr. Chris Benna
RILITE AGGREGATES
3025 Mill Street
Reno, NV 89502

RE: Rilite Pit – NV Energy Bedding Sand

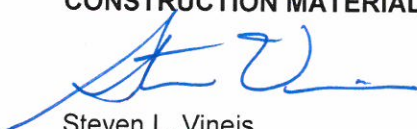
Dear Mr. Benna:

Per your request, we have performed aggregate quality testing on the NV Energy bedding sand received by our laboratory from the Rilite Pit on April 17th. Test results are provided on the attached page(s) in comparison with standards outlined in the *Sierra Pacific Engineering & Construction Standard* specifications.

We appreciate this opportunity to provide our laboratory testing services. If you have any questions or require further information, please do not hesitate to contact us.

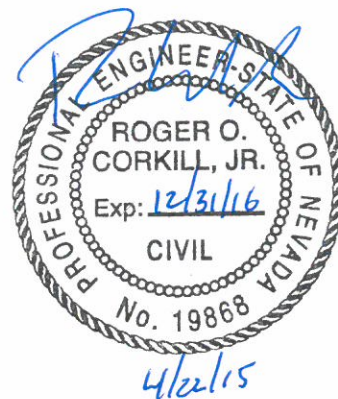
Sincerely,

CONSTRUCTION MATERIALS ENGINEERS, INC.



Steven L. Vineis
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Roger O. Corkill Jr., PE
Project Manager
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SLV:ROC:jy
Attachments
v:\active\1009\2015\invenergy_bed_sand_04-22-15.docx

NV ENERGY BEDDING SAND TEST RESULTS SUMMARY - RILITE PIT

Sieve Analysis

U.S. Standard Sieve Size	Percent Passing by Weight	
	ASTM C136/ASTM C117	NV Energy Specification ¹
³ / ₈ Inch	100	100
No. 4	100	90 - 100
No. 8	87	-
No. 16	68	-
No. 30	50	-
No. 50	36	10 - 40
No. 100	19	3 - 20
No. 200	7.8	0 - 15

Test Type	Test Method	Sample Result	NV Energy Specification ¹
Sand Equivalent	ASTM D2419	90	25 Minimum
Plasticity Index	ASTM D4318	Nonplastic	Nonplastic

Moisture Density

Test Type	Test Method	Sample Result	NV Energy Specification ¹
Maximum Dry Density	ASTM D1557A	99.0 pcf	-
Optimum Moisture	ASTM D1557A	15.0%	-

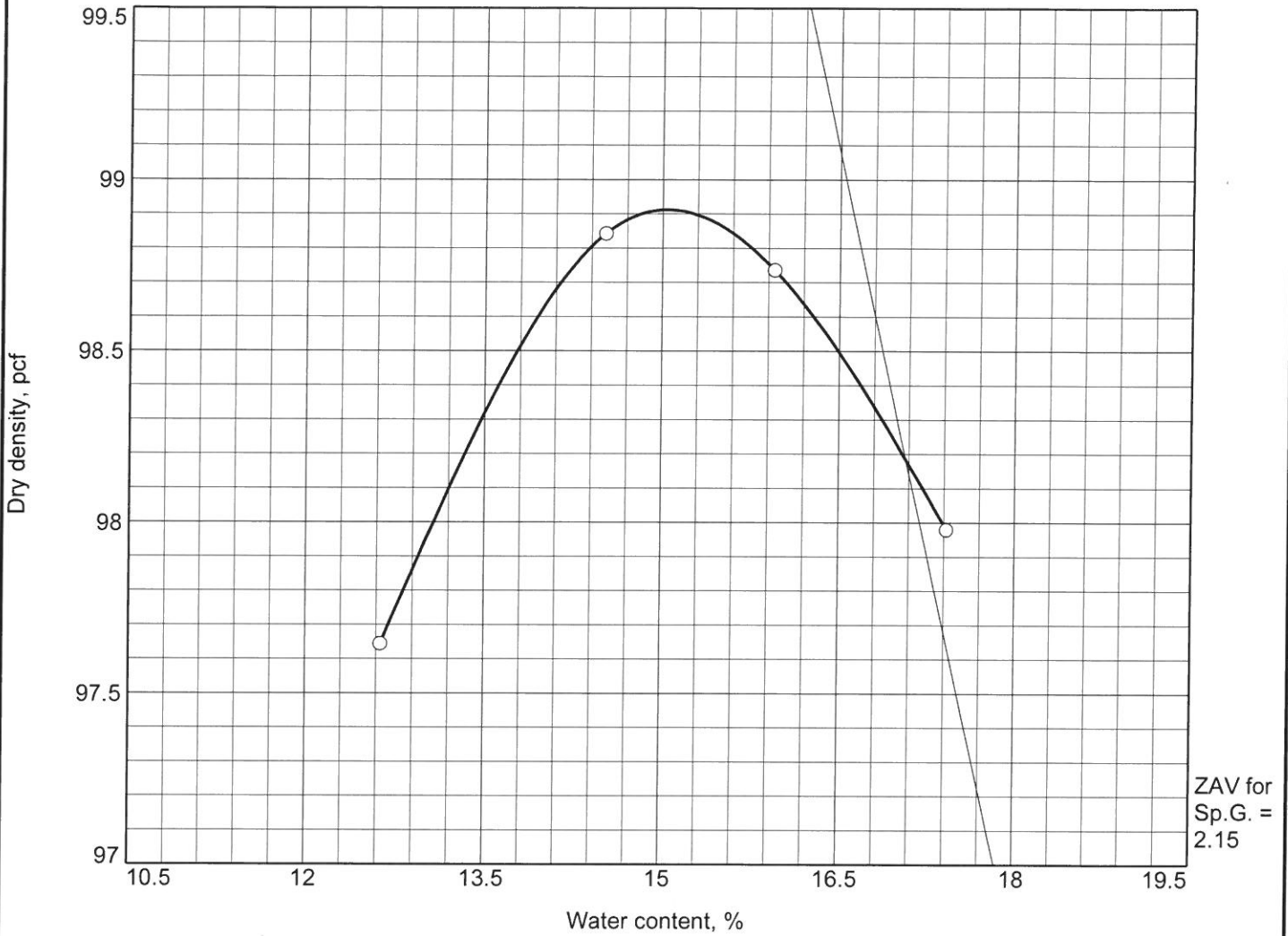
Angularity

Description	Test Method	Sample Result	NV Energy Specification ¹
Angular	ASTM D2488	0.4%	30% Maximum
Subangular	ASTM D2488	0.1%	Acceptable
Subrounded	ASTM D2488	0.0%	Acceptable
Rounded	ASTM D2488	0.0%	Acceptable

¹ Specifications per Sierra Pacific Engineering and Construction Standard.



MOISTURE DENSITY CURVE



ZAV for
Sp.G. =
2.15

Test specification: ASTM D 1557-07 Method A Modified

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > #4	% < No.200
	USCS	AASHTO						
							0.3	7.8

TEST RESULTS	MATERIAL DESCRIPTION
Maximum dry density = 99.0 pcf Optimum moisture = 15.0 %	NV ENERGY SAND RILITE PIT

Project No. 1009 Client: RILITE AGGREGATES Project: RILITE AGGREGATES-QUALITY TESTING <input type="radio"/> Location: PLANT STOCKPILE Sample Number: 29418	Remarks: RECEIVED 4/17/2015
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Figure

Tested By: D. NASH Checked By: S. VINEIS