

**STATE OF NEVADA  
DEPARTMENT OF TRANSPORTATION  
MATERIALS DIVISION  
GEOTECHNICAL SECTION**

**LINE SAMPLING DATA  
Lake Mead Blvd. and Las Vegas Blvd. Intersection**

**November 2011**

# LAKE MEADE and LAS VEGAS BLVD



**Legend**

● TEST HOLE

**Mileposts\_All**

**PANEL\_COLO**

- GREEN
- WHITE
- BROWN
- CO\_GREEN

**State Maintained Roads**

**SYSTEM**

- IR - Interstate
- SR - State Route
- US - US Route
- RM - Ramp
- FR - Frontage Road
- AR - Access Route
- RP - Roadside Park
- SP - State Park
- SO - State Owned

**SYSTEM**

— OS - Off System Local Roads

**SYSTEM**

--- OS - Off System Local Roads

1:3,000



THIS MAP IS FOR DISPLAY PURPOSES ONLY.  
 MAP COMPILED WITH DATA FROM THE  
 TRIMBLE GEO XT HANDHELD GPS UNIT.  
 THE DATA IS NOT SURVEY GRADE.  
 NOT ALL FEATURES PORTRAYED DUE  
 TO SCALE.



# LINE SAMPLING DATA

Date Reported: 12/21/11  
 Lab No.: S11-08B, RV-550-11  
 E.A.: 9100 Job Description: LAKE MEAD & L.V.B.N. INTERSECTION  
 Date Rec'd: 11/30/11 ON L.V.B.N. @ S/E CORNER  
 Samplers: LARRACUENTE Station \_\_\_\_\_ Route L.V.B.N.  
PYPKOWSKI, BEUS, WHITE Location from CL (ft) \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 32'  
 Sample No.: 1 County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/>	0--	Oil	0-- 200
Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/>	2--	Base	2--
Cut Section <input type="checkbox"/> Fill Section <input type="checkbox"/>	4--	RV	4--
Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/>	6--		6--
Gravel Depth (in) _____ Oil Depth (in) _____	8--		8--
Remarks: Oil 0-5"	10--		10--
Base 5"-2'6"	12--		12--
RV 2'6"-5'	14--		14--
Submitted By: <u>D. WHITE</u>	16--		16--
Title: <u>TECH V</u>	18--		18--
	20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	99
3/4"	87
1/2"	83
3/8"	81
No. 4	72
No. 10	68
No. 16	66
No. 40	64
No. 50	63
No. 100	59
No. 200	43

Liquid Limit	<u>26</u>	
Plastic Index	<u>11</u>	
Specific Gravity	_____	
Resistance Value	<u>16</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>25.3</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-6(2)</u>	

Remarks: Down pressure 200 PSI.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# LINE SAMPLING DATA

Date Reported: 12/21/11  
 Lab No.: S11-08B, RV-551-11  
 E.A.: 9100 Job Description: LAKE MEAD & L.V.B.N. INTERSECTION  
 Date Rec'd: 11/30/11 ON LAKE MEAD @ S.E CORNER  
 Samplers: LARRACUENTE Station \_\_\_\_\_ Route LAKE MEAD  
PYPKOWSKI, BEUS, WHITE Location from CL (ft) \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 31  
 Sample No.: 2 County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: <u>Oil 0-1'3"</u> <u>Base, No Base</u> <u>RV 2'-5'</u>	0--	Oil	0-- 200
	2--		2--
	4--	RV	4--
	6--		6--
	8--		8--
	10--		10--
	12--		12--
	14--		14--
	16--		16--
	18--		18--
	20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	100
1/2"	93
3/8"	87
No. 4	73
No. 10	64
No. 16	59
No. 40	53
No. 50	52
No. 100	47
No. 200	36

Liquid Limit	<u>22</u>	
Plastic Index	<u>7</u>	
Specific Gravity	_____	
Resistance Value	<u>24</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>22.5</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-6(1)</u>	

Remarks: Down pressure 200 PSI.

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# LINE SAMPLING DATA

Date Reported: 12/21/11  
 Lab No.: S11-08B, RV-552-11  
 E.A.: 9100 Job Description: LAKE MEAD & L.V.B.N. INTERSECTION  
 Date Rec'd: 11/30/11 ON LAKE MEAD @ N/E CORNER  
 Samplers: LARRACUENTE Station \_\_\_\_\_ Route LAKE MEAD  
PYPKOWSKI, BEUS, WHITE Location from CL (ft) Lt. 56' Rt. \_\_\_\_\_  
 Sample No.: 3 County: CLARK

Sample Type:  RV  Sub  Chem  DC  Other   
 Vegetation: None  Trees  Shrubs   
 Brushy  Grassy   
 Cut Section  Fill Section   
 Taken Through Oil  Taken on Shoulder   
 Gravel Depth (in) \_\_\_\_\_ Oil Depth (in) \_\_\_\_\_  
 Remarks: Oil 0-1'2"  
Base 1'2"-2'5"  
RV 2'5"-5'  
 Submitted By: D. WHITE  
 Title: TECH V

Depth (ft)	Boring Description	PSI
0--	Oil	0-- 200
2--	Base	2--
4--	RV	4--
6--		6--
8--		8--
10--		10--
12--		12--
14--		14--
16--		16--
18--		18--
20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	<b>100</b>
1/2"	<b>99</b>
3/8"	<b>96</b>
No. 4	<b>89</b>
No. 10	<b>79</b>
No. 16	<b>74</b>
No. 40	<b>68</b>
No. 50	<b>65</b>
No. 100	<b>54</b>
No. 200	<b>34</b>

Liquid Limit 20  
 Plastic Index 4  
 Specific Gravity \_\_\_\_\_  
 Resistance Value 39  
 Cover Stabilometer Expansion Pressure \_\_\_\_\_  
 Thickness 17.4  
 Sand Equivalent \_\_\_\_\_  
 Natural Moisture, % \_\_\_\_\_  
 Resistivity \_\_\_\_\_  
 pH Factor \_\_\_\_\_  
 AASHTO Classification A-2-6(1)

Remarks: Down pressure 200 PSI.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

# LINE SAMPLING DATA

Date Reported: 12/21/11  
 Lab No.: S11-08B, RV-553-11  
 E.A.: 9100 Job Description: LAKE MEAD & L.V.B.N. INTERSECTION  
 Date Rec'd: 11/30/11 ON L.V.B.N. @ N/E CORNER  
 Samplers: LARRACUENTE Station \_\_\_\_\_ Route LAKE MEAD  
PYPKOWSKI, BEUS, WHITE Location from CL (ft) \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 22'  
 Sample No.: 4 County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: <u>Oil 0-7"</u> <u>Base 7"-1'7"</u> <u>RV 2'-5'</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Oil Base RV	200  200

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	
1/2"	<b>100</b>
3/8"	<b>99</b>
No. 4	<b>97</b>
No. 10	<b>95</b>
No. 16	<b>94</b>
No. 40	<b>93</b>
No. 50	<b>93</b>
No. 100	<b>89</b>
No. 200	<b>69</b>

Liquid Limit	<u>26</u>	
Plastic Index	<u>10</u>	
Specific Gravity	_____	
Resistance Value	<u>19</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>24.2</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-6(8)</u>	

Remarks: Down pressure 200 PSI.

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# LINE SAMPLING DATA

Date Reported: 12/21/11  
 Lab No.: S11-08B, RV-554-11  
 E.A.: 9100 Job Description: LAKE MEAD & L.V.B.N. INTERSECTION  
 Date Rec'd: 11/30/11 ON L.V.B.N. @ N/W CORNER  
 Samplers: LARRACUENTE Station \_\_\_\_\_ Route L.V.B.N.  
PYPKOWSKI, BEUS, WHITE Location from CL (ft) \_\_\_\_\_ Lt. 46' Rt. \_\_\_\_\_  
 Sample No.: 5 County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: <u>Oil 0-7"</u> <u>Base 7"-2'7"</u> <u>RV 2'7"-5'</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Oil Base RV	200  200

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	<b>100</b>
1/2"	<b>96</b>
3/8"	<b>94</b>
No. 4	<b>80</b>
No. 10	<b>73</b>
No. 16	<b>70</b>
No. 40	<b>66</b>
No. 50	<b>65</b>
No. 100	<b>55</b>
No. 200	<b>34</b>

Liquid Limit	<u>21</u>	
Plastic Index	<u>5</u>	
Specific Gravity	_____	
Resistance Value	<u>32</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>19.8</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-6(1)</u>	

Remarks: Down pressure 200 PSI.

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# LINE SAMPLING DATA

Date Reported: 12/21/11  
 Lab No.: S11-08B, RV-555-11  
 E.A.: 9100 Job Description: LAKE MEAD & L.V.B.N. INTERSECTION  
 Date Rec'd: 11/30/11 LAKE MEAD @ N/W CORNER  
 Samplers: LARRACUENTE Station \_\_\_\_\_ Route LAKE MEAD  
PYPKOWSKI, BEUS, WHITE Location from CL (ft) Lt. 44' Rt. \_\_\_\_\_  
 Sample No.: 6 County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: Oil 0-1' Base 1'-2'4" RV 2'4"-5' Submitted By: <u>D. WHITE</u> Title: <u>TECH V</u>	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--	Oil Base RV Hit Caliche layer at 4' to 5' @ 300 PSI	0-- 2-- 4-- 6-- 8-- 10-- 12-- 14-- 16-- 18-- 20--
			200

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	<b>100</b>
1/2"	<b>96</b>
3/8"	<b>91</b>
No. 4	<b>74</b>
No. 10	<b>56</b>
No. 16	<b>48</b>
No. 40	<b>39</b>
No. 50	<b>37</b>
No. 100	<b>31</b>
No. 200	<b>24</b>

Liquid Limit	<u>21</u>	
Plastic Index	<u>6</u>	
Specific Gravity	_____	
Resistance Value	<u>51</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>13.3</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-6(0)</u>	

Remarks: Down pressure 200 PSI. 4'-5' Caliche layer @ 300 PSI.

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# LINE SAMPLING DATA

Date Reported: 12/21/11  
 Lab No.: S11-08B, RV-556-11  
 E.A.: 9100 Job Description: LAKE MEAD & L.V.B.N. INTERSECTION  
 Date Rec'd: 11/30/11 LAKE MEAD @ S/W CORNER  
 Samplers: LARRACUENTE Station \_\_\_\_\_ Route LAKE MEAD  
PYPKOWSKI, BEUS, WHITE Location from CL (ft) \_\_\_\_\_ Lt. \_\_\_\_\_ Rt. 57'  
 Sample No.: 7 County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: <u>Oil 0'-1'2"</u> <u>Base 1'2"-2'2"</u> <u>RV 2'2"-5'</u>	0--	Oil	0-- 200
	2--	Base	2--
	4--	RV	4--
	6--		6--
	8--		8--
	10--		10--
	12--		12--
	14--		14--
	16--		16--
	18--		18--
	20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	100
1"	97
3/4"	97
1/2"	89
3/8"	83
No. 4	65
No. 10	50
No. 16	46
No. 40	41
No. 50	39
No. 100	34
No. 200	26

Liquid Limit	<u>27</u>	
Plastic Index	<u>10</u>	
Specific Gravity	_____	
Resistance Value	<u>58</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>10.9</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-2-6(1)</u>	

Remarks: Down pressure 200 PSI.

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# LINE SAMPLING DATA

Date Reported: 12/21/11  
 Lab No.: S11-08B, RV-557-11  
 E.A.: 9100 Job Description: LAKE MEAD & L.V.B.N. INTERSECTION  
 Date Rec'd: 11/30/11 ON L.V.B.N. @ S/W CORNER  
 Samplers: LARRACUENTE Station \_\_\_\_\_ Route L.V.B.N.  
PYPKOWSKI, BEUS, WHITE Location from CL (ft) Lt. 20' Rt. \_\_\_\_\_  
 Sample No.: 8 County: CLARK

Sample Type:	Depth (ft)	Boring Description	PSI
RV <input checked="" type="checkbox"/> Sub <input type="checkbox"/> Chem <input type="checkbox"/> DC <input type="checkbox"/> Other <input type="checkbox"/> Vegetation: None <input checked="" type="checkbox"/> Trees <input type="checkbox"/> Shrubs <input type="checkbox"/> Brushy <input type="checkbox"/> Grassy <input type="checkbox"/> Cut Section <input type="checkbox"/> Fill Section <input type="checkbox"/> Taken Through Oil <input checked="" type="checkbox"/> Taken on Shoulder <input type="checkbox"/> Gravel Depth (in) _____ Oil Depth (in) _____ Remarks: <u>Oil 0-1'</u> <u>Base 1'-1'6"</u> <u>RV 2'-5'</u>	0--	Oil	0--
	2--	Base	2--
	4--	RV	4--
	6--	Hit Caliche layer @ 5'	6--
	8--		8--
	10--		10--
	12--		12--
	14--		14--
	16--		16--
	18--		18--
	20--		20--

Sieve Size	% Passing
3"	
2"	
1.5"	
1"	
3/4"	<b>100</b>
1/2"	<b>97</b>
3/8"	<b>94</b>
No. 4	<b>83</b>
No. 10	<b>75</b>
No. 16	<b>71</b>
No. 40	<b>67</b>
No. 50	<b>66</b>
No. 100	<b>58</b>
No. 200	<b>40</b>

Liquid Limit	<u>23</u>	
Plastic Index	<u>6</u>	
Specific Gravity	_____	
Resistance Value	<u>25</u>	
Cover	Stabilometer	Expansion Pressure
Thickness	<u>22.2</u>	_____
Sand Equivalent	_____	
Natural Moisture, %	_____	
Resistivity	_____	
pH Factor	_____	
AASHTO Classification	<u>A-6(2)</u>	

Remarks: Down pressure 200 PSI. Hit Caliche @ 5'

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