STATE OF NEVADA

DEPARTMENT OF TRANSPORTATION

MATERIALS DIVISION

GEOTECHNICAL SECTION

LINE SAMPLING DATA

US93, Clark County, from near Apex Power Pkwy to 11 Miles North of Apex Power Pkwy

Mile Post CL 57.00 to CL 68.00

CLARK COUNTY, NEVADA

EA 73644

January 2017

This report presents laboratory test results consisting of gradation, liquid limit, plasticity index, and R-value data only. No interpretations of the data are presented. The tests were performed on samples collected at the locations and depths indicated on the individual data sheets. Each boring was advanced with a 6-inch solid-stem auger. Samples were collected from cuttings brought to the surface on auger flights while advancing borings the corresponding depth intervals. Tests were performed in accordance with Nevada standard test procedures. Individual samples might not be representative of the depth intervals indicated:

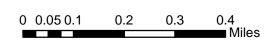
• Each sample is a mixture of strata encountered within the depth penetrated and is not necessarily representative of an individual stratum.

• Oversized material might not be brought to the surface and included in the sample.

• Deeper samples inevitably contain some material from the sides of the borehole above the sample interval.

• Drilling action might break individual particles into smaller pieces.





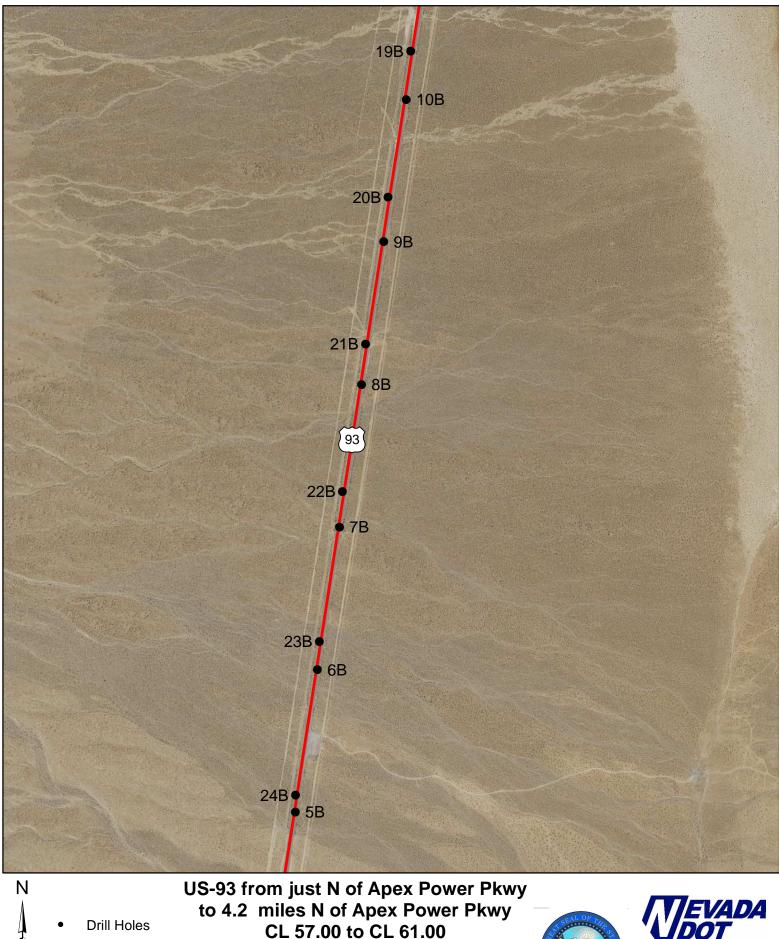
THIS MAP IS FOR DISPLAY PURPOSES ONLY. MAP COMPILED FROM BEST AVAILABLE DATA SOURCES. NOT ALL FEATURES PORTRAYED DUE TO SCALE.

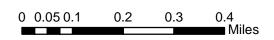
Brian Sandoval Governor



Rudy Malfabon, P.E. Director

Nevada Department of Transportation 1263 South Stewart Street Carson City, Nevada 89712 (775) 888-7000





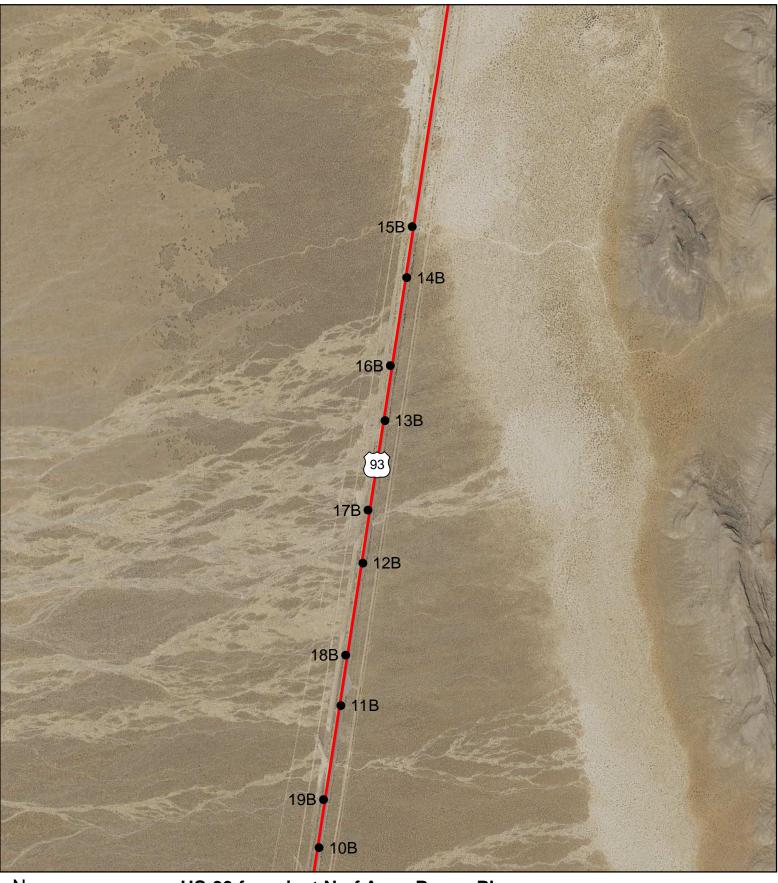
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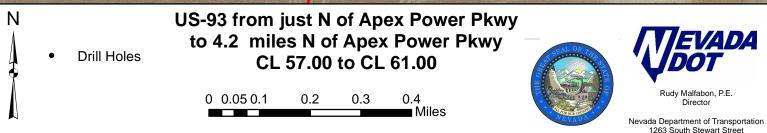
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Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-103-12			_					
E.A.:	73644		Job D	Description:	US 93 MI	P CL57 T	HROUGH CL 6	51		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57+00	0		Route	US 93	
M. PYPKOWSI	KI, S. BEUS	, D. WHITE		Location fro	om CL (ft)	Lt.		Rt.	10'	
Sample No.:	1B			County:	CLARK					
Sample Type:					Depth (ft)	В	oring Description			PSI
$_{\rm RV}$ \Box	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None	Trees Shi	rubs 🗆		2		Base		2	
	Brushy 🗆	Grassy 🗆			4		Subgrad	le	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	11''		10				10	
Remarks:	Base is 0' - 2	2'		11" Oil	12				12	
	Subgrade is	2' - 5'		18" Base	14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
	Sieve Size	% Passing			Liquid Lim	it	19			
	3"				Plastic Inde	ex	2			
	2"				Specific Gr	ravity				
	1.5"				Resistance	Value	81			
	1"	100			Cover		Stabilometer		Expansion	Pressure
	3/4"	98			Thicl	kness	3.1			
	1/2"	82								
	3/8"	65				Sand Equi	valent			
	No. 4	37				Natural M	oisture, %			
	No. 10	25				Resistivity	-			
	No. 16	21				pH Factor	_			
	No. 40	17				AASHTO	Classification	A-1-a		
	No. 50	16								
	No. 100	14								
	No. 200	11								

Remarks:

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-104-12			_					
E.A.:	73644		Job D	Description:	US 93 MI	P CL57 T	HROUGH CL (51		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	1500 feet	past MP :	57 hole 1	Route	US 93	
M. PYPKOWSI	KI, S. BEUS	, D. WHITE		Location from	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	2B			County:	CLARK					
Sample Type:					Depth (ft)	Bo	oring Description			PSI
RV 🗆	Sub 🗆	Chem □	DC 🗆	Other \Box	0				0	
Vegetation:	None	Trees Shi	rubs 🗆		2		Base		2	
	Brushy 🗆	Grassy 🗆			4		Subgrad	de	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	10''	1'-9" Base	10				10	
Remarks:	Base is 0' - 2	2'		_	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
					_					
	Sieve Size	% Passing			Liquid Lim	nit	22			
	3"				Plastic Inde	ex	5			
	2"				Specific G	ravity				
	1.5"				Resistance	Value	66			
	1"				Cover		Stabilometer		Expansion H	Pressure
	3/4"	100			Thic	kness	8.3			
	1/2"	91								
	3/8"	81				Sand Equiv	valent			
	No. 4	52				Natural Mo	oisture, %			
	No. 10	34				Resistivity	_			
	No. 16	29				pH Factor	_			
	No. 40	23				AASHTO	Classification	A-1-a		
	No. 50	21					-			
	No. 100	19								

Remarks:

No. 200

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-105-12								
E.A.:	73644		Job D	Description:	US 93 MI	P CL57 TH	HROUGH CL	51		
Date Rec'd	3/22/12				MP 57 + 3	3000'				
Samplers:	J. LARRA	CUENTE		Station	1500 feet	past hole 2	2	Route	US 93	
M. PYPKOWSI	KI, S. BEUS	, D. WHITE		Location from	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	3B			County:	CLARK					
Sample Type:					Depth (ft)	Boi	ring Description			PSI
RV 🗆	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None	Trees Shi	rubs 🗆		2		Base		2	
	Brushy 🗆	Grassy 🗆			4		Subgrad	de	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	11''		10				10	
Remarks:	Base is 0' - 2	2'		1'-8" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
					_					
	Sieve Size	% Passing			Liquid Lim	nit	22			
	3"				Plastic Inde	ex	6			
	2"				Specific G	ravity				
	1.5"				Resistance	Value	72			
	1"	100			Cover		Stabilometer		Expansion I	Pressure
	3/4"	97			Thic	kness	6.2			
	1/2"	94								
	3/8"	85				Sand Equiv	valent			
	No. 4	57				Natural Mo	oisture, %			
	No. 10	38				Resistivity	_			
	No. 16	32				pH Factor	_			
	No. 40	25				AASHTO	Classification	A-1-b		
	No. 50	23					-			
	No. 100	20								

Remarks:

17

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-106-12			_					
E.A.:	73644		Job D	Description:	US 93 MF	CL57 TI	HROUGH CL 6	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 4	4500'		Route	US 93	
M. PYPKOWSI	KI, S. BEUS	, D. WHITE		Location from	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	4B			County:	CLARK					
Sample Type:					Depth (ft)	Во	oring Description			PSI
$_{\rm RV}$ \Box	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None	Trees Shi	rubs 🗆		2		Base		2	
	Brushy 🗆	Grassy 🗆			4		Subgrad	le	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	9''		10				10	
Remarks:	Base is 0' - 2	2'		2'-0" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
		_								
	Sieve Size	% Passing			Liquid Lim	it	23			
	3"				Plastic Inde	ex	6			
	2"				Specific Gr	avity				
	1.5"				Resistance	Value	67			
	1"				Cover		Stabilometer		Expansion H	Pressure
	3/4"	100			Thick	kness	7.9			
	1/2"	88								
	3/8"	80				Sand Equiv	valent			
	No. 4	55				Natural Mo	oisture, %			
	No. 10	39				Resistivity	_			
	No. 16	34				pH Factor				
	No. 40	28				AASHTO	Classification	A-1-b		
	No. 50	26					-			
	No. 100	23								

Remarks:

20

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-107-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	CL57 T	HROUGH CL 6	1		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 6	5000'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location fro	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	5B			County:	CLARK					
Sample Type:					Depth (ft)	Bo	ring Description			PSI
RV □	Sub 🗆	Chem	DC 🗆	Other 🗆] 0				0	
Vegetation:	None	Trees Sh	rubs 🗆		2		Base		2	
	Brushy	Grassy 🗆			4		Subgrad	le	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder	· 🗆		8				8	
Gravel Depth (in)		Oil Depth (in)	1'-1''		10				10	
Remarks:	Base is 0' - 2	2'		2' Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
	Sieve Size	% Passing			Liquid Limi		19			
	3"				Plastic Inde		NP			
	2"				Specific Gra	•				
	1.5"				Resistance Y	Value	78			
	1"				Cover		Stabilometer		Expansion l	Pressure
	3/4"	100			Thick	cness	4.1			
	1/2"	94								
	3/8"	89				Sand Equiv	valent			
	No. 4	64			1	Natural Mo	oisture, %			
	No. 10	46			I	Resistivity	_			
	No. 16	39			I	pH Factor	-			
	No. 40	29			1	AASHTO	Classification	A-1-b		
	No. 50	26								
	No. 100	21								

Remarks:

No. 200

Date Reported:	4/26/12									
Lab No.:	S12-03, R	V-108-12			_					
E.A.:	73644	_	Job D	Description:	US 93 MI	P CL57 TI	HROUGH CL (61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 7	7500'		Route	US 93	
M. PYPKOWSH	KI, S. BEUS	5, D. WHITE		Location from	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	6B			County:	CLARK					
Sample Type:					Depth (ft)	Во	ring Description			PSI
RV 🗆	Sub 🗆	Chem	DC 🗆	Other	0				0	
Vegetation:	None	Trees Shi	rubs 🗆		2		Base		2	
	Brushy 🗆	Grassy 🗆			4		Subgrad	đe	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	11''		10				10	
Remarks:	Base is 0' - 2	2'		1'-10"	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineeri	ng Technician V			20				20	
		_								
	Sieve Size	% Passing			Liquid Lim	it	21			
	3"				Plastic Inde	ex	4			
	2"				Specific G	ravity				
	1.5"				Resistance	Value	71			
	1"	100			Cover		Stabilometer		Expansion I	Pressure
	3/4"	98			Thic	kness	6.5			
	1/2"	89								
	3/8"	79				Sand Equiv	valent			
	No. 4	54				Natural Mo	oisture, %			
	No. 10	37				Resistivity	_			
	No. 16	32				pH Factor	-			
	No. 40	27				AASHTO	Classification	A-1-b		
	No. 50	25					-			
	No. 100	22								

Remarks:

18

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	7-109-12			_					
E.A.:	73644		Job D	escription:	US 93 MP	CL57 T	HROUGH CL (61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE	_	Station	MP 57 + 9	000'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE	_	Location fro	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	7B			County:	CLARK					
Sample Type:					Depth (ft)	Bo	oring Description		<u>.</u>	PSI
RV □	Sub 🗆	Chem □	DC 🗆	Other \Box] 0				0	
Vegetation:	None	Trees 🗆	Shrubs 🗆		2		Base		2	
	Brushy	Grassy 🗆			4		Subgrad	de	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1	Taken on Shou	lder 🗆		8				8	
Gravel Depth (in)		Oil Depth (in)	1'-2" Base		10				10	
Remarks:	Base is 0' - 2	2'		2'-2" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician	V		20				20	
					_					
	a. a.						22			
	Sieve Size	% Passing	-		Liquid Limi		22			
	3"		_		Plastic Inde		6			
	2"		_		Specific Gr	•				
	1.5"		_		Resistance	Value	63			
	1"		_		Cover		Stabilometer		Expansion I	Pressure
	3/4"	100	_		Thick	cness	9.3			
	1/2"	89	-							
	3/8"	80	_			Sand Equiv	-			
	No. 4	55	_		1	Natural Mo	oisture, %			
	No. 10	39	_]	Resistivity	_			
	No. 16	34	_		1	pH Factor	_			
	No. 40	28	_		1	AASHTO	Classification	A-1-b		
	No. 50	27	_							
	No. 100	24								

Remarks:

19

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-110-12			_					
E.A.:	73644		Job D	Description:	US 93 MI	P CL57 TI	HROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 2	10,500'		Route	US 93	
M. PYPKOWSI	KI, S. BEUS	, D. WHITE		Location from	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	8B			County:	CLARK					
Sample Type:					Depth (ft)	Во	ring Description			PSI
RV 🗆	Sub 🗆	Chem □	DC 🗆	Other \Box	0				0	
Vegetation:	None	Trees Shi	rubs 🗆		2		Base	2	2	
	Brushy 🗆	Grassy 🗆			4		Subgra	ıde	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	10''		10				10	
Remarks:	Base is 0' - 2	2'		1-8" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineeri	ng Technician V			20				20	
		_								
	Sieve Size	% Passing			Liquid Lim	nit	21			
	3"				Plastic Inde	ex	5			
	2"				Specific G	ravity				
	1.5"				Resistance	Value	65			
	1"				Cover		Stabilometer		Expansion I	Pressure
	3/4"	100			Thic	kness	8.6			
	1/2"	97								
	3/8"	88				Sand Equiv	valent			
	No. 4	66				Natural Mo	oisture, %			
	No. 10	50				Resistivity				
	No. 16	45				pH Factor				
	No. 40	38				AASHTO	Classification	A-2-4(0)		
	No. 50	36								
	No. 100	33								

Remarks:

27

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-111-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	CL57 TI	HROUGH CL 6	1		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 1	2,000'		Route	US 93	
M. PYPKOWSI	KI, S. BEUS	, D. WHITE		Location fro	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	9B			County:	CLARK					
Sample Type:					Depth (ft)	Во	ring Description			PSI
$_{\rm RV}$ \Box	Sub 🗆	Chem □	DC 🗆	Other 🗆	0				0	
Vegetation:	None	Trees Shi	rubs 🗆		2		Base		2	
	Brushy 🗆	Grassy 🗆			4		Subgrad	e	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	10''		10				10	
Remarks:	Base is 0' - 2	2'		1"-10" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
	Sieve Size	% Passing			Liquid Limi	it	21			
	3"				Plastic Inde	X	5			
	2"				Specific Gra	avity				
	1.5"				Resistance Y	Value	58			
	1"	100			Cover		Stabilometer		Expansion	Pressure
	3/4"	98			Thick	iness	11.0			
	1/2"	91								
	3/8"	86			2	Sand Equiv	valent			
	No. 4	63			1	Natural Mo	oisture, %			
	No. 10	46			1	Resistivity	_			
	No. 16	40			I	pH Factor	_			
	No. 40	34			1	AASHTO	Classification	A-1-b		
	No. 50	32								
	No. 100	29								
	No. 200	23								

Remarks:

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-112-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	P CL57 TH	HROUGH CL e	51		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 1	13,500'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location fro	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	10B			County:	CLARK					
Sample Type:					Depth (ft)	Bo	ring Description		<u>.</u>	PSI
RV □	Sub 🗆	Chem	DC 🗆	Other 🗆	0				0	
Vegetation:	None	Trees 🗆 Sh	rubs 🗆		2		Base		2	
	Brushy 🗆	Grassy 🗆			4		Subgrad	le	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-1''		10				10	
Remarks:	Base is 0' - 2	2'		1'-10" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerir	ng Technician V			20				20	
					_					
	Sieve Size	% Passing			Liquid Lim	it	19			
	3"	70 I assing			Plastic Inde		2			
	2"				Specific Gr					
	1.5"				Resistance	-	66			
	1.5				Cover	v alue	Stabilometer		Expansion I	Draccura
	3/4"	100			Thick	zness	8.3		Expansion	lessure
	1/2"	93			The	xiiess	0.0			
	3/8"	84				Sand Equiv	valent			
	No. 4	<u> </u>				Natural Mo	_			
	No. 10	44				Resistivity				
	No. 16	39				pH Factor	-			
	No. 40	33			-	-	- Classification	A-1-b		
	No. 50	31						11-1-0		
	No. 100	28								

Remarks:

23

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-113-12			_					
E.A.:	73644		Job D	Description:	US 93 MF	P CL57 T	HROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 1	15,000'		Route	US 93	
M. PYPKOWSH	KI, S. BEUS	, D. WHITE		Location from	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	11B			County:	CLARK					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV □	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None	Trees 🗆 Sh	rubs 🗆		2		Base		2	
	Brushy	Grassy 🗆			4		Subgra	de	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-0''		10				10	
Remarks:	Base is 0' - 2	2'		2'-1" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
	Sieve Size	% Passing			Liquid Lim	it	19			
	3"				Plastic Inde	ex	2			
	2"				Specific Gr	-				
	1.5"				Resistance	Value	70			
	1"				Cover		Stabilometer		Expansion I	Pressure
	3/4"	100			Thicl	kness	6.9			
	1/2"	95								
	3/8"	82				Sand Equi	valent			
	No. 4	58				Natural M	oisture, %			
	No. 10	43				Resistivity	-			
	No. 16	38				pH Factor	-			
	No. 40	31				AASHTO	Classification	A-1-b		
	No. 50	29								
	No. 100	26								

Remarks:

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Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-114-12			_					
E.A.:	73644		Job D	Description:	US 93 MF	P CL57 T	HROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 1	16,500'		Route	US 93	
M. PYPKOWSH	KI, S. BEUS	, D. WHITE		Location from	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	12B			County:	CLARK					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV □	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None	Trees Shi	rubs 🗆		2		Base		2	
	Brushy	Grassy 🗆			4		Subgra	de	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	9''		10				10	
Remarks:	Base is 0' - 2	2'		1'-8" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerii	ng Technician V			20				20	
					-					
	Sieve Size	% Passing			Liquid Lim	it	19			
	3"				Plastic Inde	ex	3			
	2"				Specific Gr	avity				
	1.5"				Resistance	Value	61			
	1"				Cover		Stabilometer		Expansion I	Pressure
	3/4"	100			Thick	kness	10.0			
	1/2"	94								
	3/8"	87			1	Sand Equi	valent			
	No. 4	63				Natural M	oisture, %			
	No. 10	45				Resistivity	, -			
	No. 16	40				pH Factor	_			
	No. 40	33				AASHTO	Classification	A-1-b		
	No. 50	31					_			
	No. 100	27								

Remarks:

No. 200

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-115-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	P CL57 T	HROUGH CL (61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 1	18,000'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location fro	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	13B			County:	CLARK					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV □	Sub 🗆	Chem	DC 🗆	Other \Box	0				0	
Vegetation:	None	Trees 🗆 S	hrubs 🗆		2		Base		2	
	Brushy	Grassy 🗆			4		Subgrad	de	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulde	er 🗆		8				8	
Gravel Depth (in)		Oil Depth (in)	1'-1''		10				10	
Remarks:	Base is 0' - 2	2'		2'-0" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
					_					
	Sieve Size	% Passing			Liquid Lim	it	18			
	3"				Plastic Inde	ex	2			
	2"				Specific Gr	avity				
	1.5"				Resistance	Value	66			
	1"				Cover		Stabilometer		Expansion l	Pressure
	3/4"	100			Thick	cness	8.3			
	1/2"	94								
	3/8"	84			1	Sand Equi	valent			
	No. 4	60]	Natural M	oisture, %			
	No. 10	45]	Resistivity	_			
	No. 16	40]	pH Factor	_			
	No. 40	34				AASHTO	Classification	A-1-b		
	No. 50	32					-			
	No. 100	29								

Remarks:

24

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-116-12			_					
E.A.:	73644		Job D	Description:	US 93 MF	P CL57 T	HROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 1	19,500'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location fro	m CL (ft)	Lt.		Rt.	10'	
Sample No.:	14B			County:	CLARK					
Sample Type:					Depth (ft)	Во	oring Description			PSI
RV □	Sub 🗆	Chem □	DC 🗆	Other 🗆	0				0	
Vegetation:	None	Trees Sh	irubs 🗆		2		Base	e	2	
	Brushy 🗆	Grassy 🗆			4		Subgra	ade	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-1''		10				10	
Remarks:	Base is 0' - 2	2'		1'-10" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerii	ng Technician V			20				20	
	Sieve Size	% Passing			Liquid Lim	it	19			
	3"				Plastic Inde	ex	3			
	2"				Specific Gr	ravity				
	1.5"				Resistance	Value	65			
	1"	100			Cover		Stabilometer		Expansion I	Pressure
	3/4"	96			Thicl	kness	8.6			
	1/2"	88								
	3/8"	85				Sand Equi	valent			
	No. 4	65				Natural M	oisture, %			
	No. 10	50				Resistivity				
	No. 16	46				pH Factor				
	No. 40	40				AASHTO	Classification	A-2-4(0)		
	No. 50	38								
	No. 100	34								

Remarks:

No. 200

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-117-12								
E.A.:	73644		Job D	Description:	US 93 MP	CL57 TH	HROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 2	20,250'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location fro	m CL (ft)	Lt.	10'	Rt.		
Sample No.:	15B			County:	CLARK					
Sample Type:					Depth (ft)	Boi	ring Description			PSI
RV □	Sub 🗆	Chem	DC 🗆	Other 🗆	0				0	
Vegetation:	None	Trees SI	nrubs 🗆		2		Base	e	2	
	Brushy 🗆	Grassy 🗆			4		Subgra	ıde	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulder	r 🗆		8				8	
Gravel Depth (in)		Oil Depth (in)	1'-1''		10				10	
Remarks:	Base is 0' - 2	2'		1'-8" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
					_					
	Sieve Size	% Passing			Liquid Limi	it	20			
	3"	70 T assing			Plastic Inde		5			
	2"				Specific Gr		3			
	1.5"				Resistance	-	66			
	1.5				Cover	value	Stabilometer		Expansion l	Draggura
	3/4"	100			Thick	magg	8.3		Expansion	riessuie
	1/2"	99			THICK	11088	0.5			
	3/8"	99 97				Sand Equiv	volont			
		75				Sand Equiv				
	No. 4						isture, %			
	No. 10	<u>58</u> 52				Resistivity				
	No. 16	<u> </u>			-	pH Factor	Classification	A-2-4(0)		
	No. 40 No. 50	40			1	ААЗПІО	Classification	A-2-4(U)		
	No. 100	44 41								
	INO. 100	41								

Remarks:

33

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-118-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	P CL57 TH	IROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	<u>MP 57 + 1</u>	18,750'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location fro		Lt.	10'	Rt.		
Sample No.:	16B			County:	CLARK					
Sample Type:					Depth (ft)	Boi	ring Description			PSI
RV □	Sub 🗆	Chem	DC 🗆	Other 🗆] 0				0	
Vegetation:	None	Trees Sh	rubs 🗆		2		Base	2	2	
	Brushy 🗆	Grassy 🗆			4		Subgra	ıde	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-3''		10				10	
Remarks:	Base is 0' - 2	2'		2'-4" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
	Sieve Size	% Passing			Liquid Limi	it	19			
	3"	, , , , , , , , , , , , <u>,</u>			Plastic Inde		3			
	2"				Specific Gr					
	1.5"				Resistance '	-	60			
	1"				Cover	· urue	Stabilometer		Expansion l	Pressure
	3/4"	100			Thick	cness	10.3		1	
	1/2"	92								
	3/8"	86				Sand Equiv	alent			
	No. 4	65				Natural Mo				
	No. 10	50				Resistivity	*			
	No. 16	45				pH Factor				
	No. 40	39			-	-	Classification	A-2-4(0)		
	No. 50	38								
	No. 100	34								

Remarks:

28

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-119-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	CL57 T	HROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 1	7,250'		Route	US 93	
M. PYPKOWSH	KI, S. BEUS	, D. WHITE		Location from	m CL (ft)	Lt.	10'	Rt.		
Sample No.:	17B			County:	CLARK					
Sample Type:					Depth (ft)	Во	ring Description			PSI
RV □	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None	Trees Sh	rubs 🗆		2		Base		2	
	Brushy 🗆	Grassy 🗆			4		Subgra	de	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-2''		10				10	
Remarks:	Base is 0' - 2	2'		2'-2" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineeri	ng Technician V			20				20	
					-				-	
		_								
	Sieve Size	% Passing			Liquid Limi	it	20			
	3"				Plastic Inde	X	4			
	2"				Specific Gra	avity				
	1.5"				Resistance V	Value	63			
	1"				Cover		Stabilometer		Expansion I	Pressure
	3/4"	100			Thick	iness	9.3			
	1/2"	94								
	3/8"	89			2	Sand Equiv	valent			
	No. 4	65			1	Natural Mo	oisture, %			
	No. 10	48			I	Resistivity	-			
	No. 16	42			I	pH Factor	-			
	No. 40	35			-	AASHTO	Classification	A-1-b		
	No. 50	33					-			
	No. 100	30								

Remarks:

No. 200

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-120-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	P CL57 TH	IROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	<u>MP 57 + 1</u>	15,750'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location fro	. ,	Lt.	10'	Rt.		
Sample No.:	18B			County:	CLARK					
Sample Type:					Depth (ft)	Bor	ing Description			PSI
RV □	Sub 🗆	Chem □	DC 🗆	Other 🗆	0				0	
Vegetation:	None	Trees 🗆 Sh	irubs 🗆		2		Base		2	
	Brushy 🗆	Grassy 🗆			4		Subgrad	de	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-0''		10				10	
Remarks:	Base is 0' - 2	2'		1'-8" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
	Sieve Size	% Passing			Liquid Lim	it	19			
	3"				Plastic Inde		3			
	2"				Specific Gr					
	1.5"				Resistance	-	60			
	1"	100			Cover		Stabilometer		Expansion l	Pressure
	3/4"	96			Thick	cness	10.3			
	1/2"	91								
	3/8"	84				Sand Equiv	alent			
	No. 4	62				Natural Mo	-			
	No. 10	47]	Resistivity	-			
	No. 16	42				pH Factor	-			
	No. 40	36				-	- Classification	A-1-b		
	No. 50	34					-			
	No. 100	31								

Remarks:

25

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-121-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	CL57 T	HROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 1	4,250		Route	US 93	
M. PYPKOWSH	KI, S. BEUS	, D. WHITE		Location from	m CL (ft)	Lt.	10'	Rt.		
Sample No.:	19B			County:	CLARK					
Sample Type:					Depth (ft)	Bo	ring Description			PSI
RV 🗆	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None	Trees Sh	rubs 🗆		2		Bas	e	2	
	Brushy 🗆	Grassy 🗆			4		Subgr	ade	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-2''		10				10	
Remarks:	Base is 0' - 2	2'		2'-2" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineeri	ng Technician V			20				20	
					-				•	
		_								
	Sieve Size	% Passing			Liquid Limi	it	19			
	3"				Plastic Inde	X	4			
	2"				Specific Gra	avity				
	1.5"				Resistance V	Value	59			
	1"				Cover		Stabilometer	-	Expansion I	Pressure
	3/4"	100			Thick	iness	10.7	_		
	1/2"	97						-		
	3/8"	91			2	Sand Equiv	valent			
	No. 4	69			1	Natural Mo	oisture, %			
	No. 10	51			I	Resistivity				
	No. 16	46			I	pH Factor				
	No. 40	39			1	AASHTO	Classification	A-2-4(0)		
	No. 50	37								
	No. 100	34								

Remarks:

No. 200

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-122-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	CL57 T	HROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 1	2,750'		Route	US 93	
M. PYPKOWSH	KI, S. BEUS	, D. WHITE		Location from	m CL (ft)	Lt.	10'	Rt.		
Sample No.:	20B			County:	CLARK					
Sample Type:					Depth (ft)	Во	ring Description			PSI
RV 🗆	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None	Trees Sh	rubs 🗆		2		Bas	е	2	
	Brushy 🗆	Grassy 🗆			4		Subgr	ade	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-1''		10				10	
Remarks:	Base is 0' - 2	2'		1'-10" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineeri	ng Technician V			20				20	
					-					
	Sieve Size	% Passing			Liquid Limi	it	26	_		
	3"				Plastic Inde	X	10	_		
	2"				Specific Gra	avity		_		
	1.5"				Resistance Y	Value	42	_		
	1"				Cover		Stabilometer	-	Expansion I	Pressure
	3/4"	100			Thick	cness	16.5	_		
	1/2"	98								
	3/8"	90			2	Sand Equiv	valent			
	No. 4	68			1	Natural Mo	oisture, %			
	No. 10	51			1	Resistivity				
	No. 16	45			I	pH Factor				
	No. 40	38			-	AASHTO	Classification	A-2-4(0)		
	No. 50	37								
	No. 100	32								

Remarks:

No. 200

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-123-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	P CL57 TH	IROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	<u>MP 57 + 1</u>	1,250'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location fro	m CL (ft)	Lt.	10'	Rt.		
Sample No.:	21B			County:	CLARK					
Sample Type:					Depth (ft)	Bor	ing Description			PSI
RV □	Sub 🗆	Chem □	DC 🗆	Other 🗆	0				0	
Vegetation:	None	Trees Sh	rubs 🗆		2		Base	:	2	
	Brushy	Grassy 🗆			4		Subgra	de	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-0''		10				10	
Remarks:	Base is 0' - 2	2'		2'-1" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
					_					
	Sieve Size	% Passing			Liquid Lim	it	22			
	3"	70 Tussing			Plastic Inde		7			
	2"				Specific Gr		,			
	1.5"				Resistance		40			
	1.5				Cover	v aluc	Stabilometer		Expansion l	Pressure
	3/4"	100			Thick	cness	17.2		Expansion	ressure
	1/2"	98			1					
	3/8"	93				Sand Equiv	alent			
	No. 4	76				Natural Mo	-			
	No. 10	60				Resistivity				
	No. 16	54				pH Factor	-			
	No. 40	47			-	-	Classification	A-2-4(0)		
	No. 50	45				0		(v)		
	No. 100	41								

Remarks:

33

Date Reported:	4/26/12	_								
Lab No.:	S12-03, RV	V-124-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	CL57 TH	IROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 9	,750'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location from	m CL (ft)	Lt.	10'	Rt.		
Sample No.:	22B			County:	CLARK					
Sample Type:					Depth (ft)	Bor	ing Description			PSI
RV □	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None	Trees Sh	rubs 🗆		2		Bas	e	2	
	Brushy 🗆	Grassy 🗆			4		Subgra	ade	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1 🗖	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-1''	_	10				10	
Remarks:	Base is 0' - 2	2'		1'-10" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineeri	ng Technician V			20				20	
	Sieve Size	% Passing			Liquid Limi	t .	25	-		
	3"				Plastic Index	x	9	-		
	2"				Specific Gra	avity		-		
	1.5"				Resistance V	Value	45	-		
	1"				Cover		Stabilometer		Expansion I	Pressure
	3/4"	100			Thick	ness	15.5	-		
	1/2"	97								
	3/8"	89			S	Sand Equiv	alent			
	No. 4	71			N	Natural Mo	isture, %			
	No. 10	53			F	Resistivity				
	No. 16	46			p	H Factor				
	No. 40	37			A	AASHTO	Classification	A-2-4(0)		
	No. 50	35								
	No. 100	31								

Remarks:

No. 200

Date Reported:	4/26/12									
Lab No.:	S12-03, R	V-125-12			_					
E.A.:	73644	_	Job D	Description:	US 93 MP	CL57 TH	IROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 8	,250'		Route	US 93	
M. PYPKOWSH	KI, S. BEUS	5, D. WHITE		Location from	m CL (ft)	Lt.	10'	Rt.		
Sample No.:	23B			County:	CLARK					
Sample Type:					Depth (ft)	Bor	ring Description			PSI
RV 🗆	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None	Trees Sh	rubs 🗆		2		Base		2	
	Brushy 🗆	Grassy 🗆			4		Subgra	de	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-0''		10				10	
Remarks:	Base is 0' - 2	2'		1'-5" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineeri	ng Technician V			20				20	
					•				•	
	Sieve Size	% Passing			Liquid Limi	t	20			
	3"				Plastic Index	x	4			
	2"				Specific Gra	avity				
	1.5"				Resistance V	Value	62			
	1"				Cover		Stabilometer		Expansion I	Pressure
	3/4"	100			Thick	ness	9.6			
	1/2"	92								
	3/8"	83			S	Sand Equiv	alent			
	No. 4	61			Ν	Natural Mo	isture, %			
	No. 10	45			F	Resistivity	-			
	No. 16	40			p	H Factor	-			
	No. 40	33			Ā	AASHTO	Classification	A-1-b		
	No. 50	31					-			
	No. 100	28								

Remarks:

No. 200

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	/-126-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	CL57 TH	HROUGH CL (61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 6	,750'		Route	US 93	
M. PYPKOWSK	I, S. BEUS	, D. WHITE		Location from	m CL (ft)	Lt.	10'	Rt.		
Sample No.:	24B			County:	CLARK					
Sample Type:					Depth (ft)	Bor	ing Description			PSI
RV □	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None 🔳	Trees 🗆 S	Shrubs 🗆		2		Base		2	
	Brushy 🗆	Grassy 🗆			4		Subgrad	de	4	300
Cut Section		Fill Section	1		6				6	
Taken Through Oil		Taken on Should	er 🗆		8				8	
Gravel Depth (in)		Oil Depth (in)	0'-11''	_	10				10	
Remarks:	Base is 0' - 2			1'-6" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V	7		20				20	
					_					
	Sieve Size	% Passing			Liquid Limi	t	21			
-	3"	70 I assing			Plastic Index		5			
-	2"				Specific Gra	-	5			
-	1.5"				Resistance V		65			
-	1.5	100			Cover	value	Stabilometer		Expansion I	Draccura
-	3/4"	99			Thick	necc	8.6		Expansion	ressure
-	1/2"	94			THICK		0.0			
-	3/8"	85			ç	Sand Equiv	alent			
-	No. 4	62				Vatural Mo	_			
-	No. 10	45				Resistivity				
-	No. 16	43 39				oH Factor	-			
-	No. 40	33			-		- Classification	A-1-b		
-	110.40	31			F	1.51110		1-1-D		
	No. 50	29								

Remarks:

No. 200

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-127-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	P CL57 TI	HROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	<u>MP 57 + 5</u>	5,250'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location fro		Lt.	10'	Rt.		
Sample No.:	25B			County:	CLARK					
Sample Type:					Depth (ft)	Bo	ring Description			PSI
RV □	Sub 🗆	Chem	DC 🗆	Other 🗆	0				0	
Vegetation:	None	Trees Sł	irubs 🗆		2		Base	9	2	
	Brushy 🗆	Grassy			4		Subgra	ade	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-2''		10				10	
Remarks:	Base is 0' - 2	2'		1'-9" Base	12				12	
	Subgrade is 2' - 5'			14				14		
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
	Sieve Size	% Passing			Liquid Lim	it	28			
	3"	<u> </u>			Plastic Inde		11			
	2"				Specific Gr					
	1.5"				Resistance		39			
	1"	100			Cover		Stabilometer		Expansion l	Pressure
	3/4"	98			Thick	kness	17.5			
	1/2"	94								
	3/8"	89				Sand Equiv	valent			
	No. 4	66			Natural Moisture, %					
	No. 10	50				Resistivity				
	No. 16	45				pH Factor				
	No. 40	39			-	-	Classification	A-2-6(0)		
	No. 50	38								
	No. 100	35								

Remarks:

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Date Reported:	4/26/12									
Lab No.:	S12-03, RV	/-128-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	CL57 TH	IROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 3,	,750'		Route	US 93	
M. PYPKOWSKI, S. BEUS, D. WHITE				Location from	m CL (ft)	Lt.	Lt. 10'			
Sample No.:	26B			County:	CLARK	-				
Sample Type:					Depth (ft)	Bor	ing Description			PSI
$_{\rm RV}$ \Box	Sub 🗆	Chem □	DC 🗆	Other	0				0	
Vegetation:	None	Trees Shi	rubs 🗆		2		Bas	e	2	
	Brushy 🗆	Grassy 🗆			4		Subgr	ade	4	300
Cut Section		Fill Section			6				6	
Taken Through Oi	1 🔳	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-3''		10				10	
Remarks:	Base is 0' - 2	2'		2'-0" Base	12				12	
	Subgrade is	2' - 5'			14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
					-				-	
	Sieve Size	% Passing			Liquid Limit	t	23			
	3"				Plastic Index	x	7			
	2"				Specific Gra	vity				
	1.5"				Resistance V	/alue	63			
	1"				Cover	-	Stabilometer		Expansion I	Pressure
	3/4"	100			Thick	ness	9.3			
	1/2"	94				-		-		
	3/8"	87			S	and Equiv	alent			
	No. 4	64	54			Natural Moisture, %				
	No. 10	45			Resistivity					
	No. 16	38			pH Factor					
	No. 40	29					Classification	A-2-4(0)		
	No. 50	27								
	No. 100	23								

Remarks:

19

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-129-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	CL57 TH	ROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	<u>MP 57 + 2</u>	2,250'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location fro	m CL (ft)	Lt.	10'	Rt.		
Sample No.:	27B			County:	CLARK					
Sample Type:					Depth (ft)	Bor	ing Description			PSI
RV □	Sub 🗆	Chem	DC 🗆	Other 🗆	0				0	
Vegetation:	None	Trees Sh	rubs 🗆		2		Base	2	2	
	Brushy 🗆	Grassy 🗆			4		Subgra	ıde	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-1''		10				10	
Remarks:	Base is 0' - 2	2'		2'-0" Base	12				12	
	Subgrade is 2' - 5'				14				14	
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
	<u> </u>	0/ Deceive			T	•,	25			
	Sieve Size	% Passing			Liquid Limi	-	25			
	3"				Plastic Inde	-	8			
	2"				Specific Gr	-				
	1.5"				Resistance	Value	64		_	_
	1"	100			Cover		Stabilometer		Expansion l	Pressure
	3/4"	100			Thick	iness	8.9			
	1/2"	94								
	3/8"	89			Sand Equivalent					
	No. 4	63			Natural Moisture, %					
	No. 10	44			Resistivity					
	No. 16	38			-	pH Factor				
	No. 40	29			1	AASHTO (Classification	A-2-4(0)		
	No. 50	27								
	No. 100	24								

Remarks:

No. 200

Date Reported:	4/26/12									
Lab No.:	S12-03, RV	V-130-12			_					
E.A.:	73644		Job D	Description:	US 93 MP	P CL57 TH	IROUGH CL	61		
Date Rec'd	3/22/12									
Samplers:	J. LARRA	CUENTE		Station	MP 57 + 7	750'		Route	US 93	
M. PYPKOWSE	KI, S. BEUS	, D. WHITE		Location fro	m CL (ft)	Lt.	10'	Rt.		
Sample No.:	28B			County:	CLARK					
Sample Type:					Depth (ft)	Bor	ing Description			PSI
RV □	Sub 🗆	Chem	DC 🗆	Other 🗆	0				0	
Vegetation:	None	Trees Sł	rubs 🗆		2		Base	e	2	
	Brushy 🗆	Grassy			4		Subgra	ıde	4	300
Cut Section \Box		Fill Section			6				6	
Taken Through Oi	1	Taken on Shoulder			8				8	
Gravel Depth (in)		Oil Depth (in)	1'-0''		10				10	
Remarks:	Base is 0' - 2	2'		1'-9" Base	12				12	
	Subgrade is 2' - 5'			14				14		
					16				16	
Submitted By:	D. WHIE				18				18	
Title:	Engineerin	ng Technician V			20				20	
	<u> </u>	0/ Deceive			T : 1 T :	•,	22			
	Sieve Size	% Passing			Liquid Lim		23			
	3"				Plastic Inde		8			
	2"				Specific Gr					
	1.5"				Resistance	Value	66			_
	1"				Cover		Stabilometer		Expansion I	Pressure
	3/4"	100			Thick	cness	8.3			
	1/2"	93								
	3/8"		85			Sand Equivalent				
	No. 4	56			Natural Moisture, %					
	No. 10	39			Resistivity					
	No. 16	33			-	pH Factor				
	No. 40	27				AASHTO	Classification	A-2-4(0)		
	No. 50	25								
	No. 100	22								

Remarks:

No. 200