Sladden Engineering

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March 10, 2021

Project No. 644-20047
21-01-005

PVR Management, LLC
c/o Camfield Partners, LLC
8895 Research Drive, Suite 200
Irvine, California 92618

Project: Proposed Recovery Facility
Paradise Valley Ranch
43700 Cactus Valley Road
Hemet Area
Riverside County, California

Subject: Percolation Testing for On-Site Sewage Disposal Feasibility; PR 6117

This report presents a summary of the field exploration and percolation testing performed by Sladden Engineering (Sladden) for the proposed facility conversion and new buildings proposed for the Paradise Valley Ranch Retreat located at 43700 Cactus Valley Road in the Hemet area of Riverside County, California. The site is located at approximately 33.6684 degrees north latitude and 116.9008 degrees west longitude. The approximate location of the site is indicated on the Site Location Map (Figure 1). The existing facilities are served by septic tanks and leach lines.

Based on our preliminary discussions, it is our understanding that the proposed project will consist of constructing a new administrative building and converting existing site structures into living quarters for use as a recovery facility. The new structures and some renovated structures are anticipated to be serviced by new septic systems consisting of septic tanks and leach lines.

The proposed building sites are located within Paradise Valley Ranch property located at 43700 Cactus Valley Ranch in the Hemet area of Riverside County, California. The Paradise Valley Ranch retreat consists of five (5) parcels that occupy a combined area of approximately 288 acres. The parcels are identified by the County of Riverside as APNs 569-020-010, 013, 024, 025, and 026. The existing Paradise Ranch complex consists of scattered facility structures, a swimming pool, a tennis court/ play court and paved areas. The proposed sewage disposal areas are relatively level with surface gradients of approximately ten horizontal to one vertical (10H:1V) or less.

The subsurface conditions at the site were investigated by excavating a total of fourteen (14) exploratory test holes, three (3) test pits and six (6) boreholes to depths between approximately five (5) and thirty-four (34) feet bgs. The approximate locations of the test holes, test pits and boreholes are illustrated on the Exploration Location Photographs (Figure 2A & 2B). The test holes and test pits were excavated with a John Deere 30G excavator equipped with an 8-inch diameter auger attachment and 24-inch wide bucket. The exploratory boreholes were excavated using a truck mounted hollow stem auger rig (Mobile B-61) equipped with 8-inch outside diameter hollow-stem augers. A Geologist employed by Sladden was on-site to log the materials encountered and retrieve samples for laboratory testing and engineering analyses.

During our field investigation, alluvium was encountered to a maximum depth of thirty-four (34) feet bgs. Underlying the alluvium, intrusive bedrock was encountered. The alluvium consists of dark grayish brown to yellowish brown sand (SP) and silty sand (SM). The bedrock appeared gray in in-situ color, moderately strong, moderately hard, highly weathered and readily breaks down into sand (SP) and silty sand (SM) soil types.

The final logs represent our interpretation of the contents of the field logs, and the results of the laboratory observations and tests of the field samples. The final logs are attached to this report. The stratification lines represent the approximate boundaries between soil and bedrock types although the transitions may be gradual.

Groundwater was not encountered to a maximum explored depth of approximately fifteen feet bgs during our field investigation conducted on December 30, 2020, February 16, 2021 and February 23, 2021. Information regarding the approximate depth to groundwater provided by the California Department of Water Resources[1] online database indicates that the depth to groundwater is in excess of 40 feet below the existing ground surface in the vicinity of the site. The following table provides a summary of the recorded groundwater depths in the project vicinity.

TABLE 1
GROUNDWATER DEPTHS

STATE WELL	LAT/LONG	DISTANCE (KM)	DATE	DEPTH (FT)
06S01W10A001S	33.67/ -116.9648	5.90	02/01/1968	90
06S01W03R001S	33.6731/ -116.9679	6.25	04/26/1991	51.32
06S01W03K001S	33.677/ -116.9718	6.65	02/01/1968	82
06S01W03E003S	33.6789/ -116.9762	7.00	02/01/1968	75

Each of the test holes were cased with perforated pipe to facilitate percolation testing. Two inches of ½ inch gravel was placed on the bottom of the test holes to prevent scouring when water was added. Presoaking was performed by inverting a 5-gallon water bottle over each of the test holes and maintaining the water level at 8 inches until the water fully percolated through each of the test holes. Tests were then subsequently performed by filling the test holes with water and recording the drop in the water surface at regular intervals.

[1] California Department of Water Resources, 2021, Water Data Library; available at: https://wdl.water.ca.gov/waterdatalibrary/

The percolation test results are summarized below:

Test Hole	Depth	Rate (min/inch)	Minimum Sq. Ft. Per 100 Gallons
P-1	4.83	1.11	20
P-2	4.75	0.23	20
P-3	4.83	0.25	20
P-4	5.00	0.23	20
P-5	4.58	0.78	20
P-6	4.41	1.52	20
P-7	4.50	2.22	20
P-8	4.58	2.96	20
P-9	5.00	1.67	20
P-10	5.00	1.67	20
P-11	5.00	1.67	20
P-12	5.00	1.67	20
P-13	5.00	1.67	20
P-14	5.00	1.67	20

Based upon the percolation test results, leach lines may be designed using an application rate of 20 square feet per 100 gallons of septic tank capacity in accordance with Riverside County guidelines. The leach lines should be located so that the minimum setbacks as contained in the County Ordinance are maintained. All systems should operate by gravity flow. No grading should be necessary in the areas of the leach lines that should be bottomed no more than 5 feet below the existing ground surface. It appears that there will be sufficient area on the property for the new sewage disposal systems and the required expansion areas.

Based on the data presented in the report and using the recommendations set forth, it is the judgment of the engineer that there is sufficient area for the future administration building and new living quarters building for individual sewage disposal systems that will meet the current codes and standards of the health department.

Based on the data presented in the report and the test information accumulated, it is the judgment of the engineer that the groundwater table should not encroach within the current allowable limit set forth by County and State requirements when the recommendations of this report are followed.

The analysis and recommendations submitted in this report are based in part upon the data obtained from the bores excavated on the property. The nature and extent of variations within the field may not become evident until construction. If variations then appear evident, it may be necessary to reevaluate the recommendations of this report.

Findings of this report are valid as of this date. However, changes in conditions of a property can occur with passage of time whether because of natural processes or works of man. In addition, changes in applicable or appropriate standards can occur whether it results from legislation or the broadening of knowledge. Accordingly, findings of this report may be invalidated wholly or partially by changes outside our control. Therefore, this report is subject to review and should not be relied upon after a period of one (1) year.

In the event that any changes in the nature, design or location of the development are planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed and the conclusions of this report are verified in writing or appropriately modified.

This report is issued with the understanding that it is the responsibility of the owner (or his representative), to verify that the information and recommendations contained herein are called to the attention of the owner, architect and engineers for the project and are appropriately incorporated into the plans and specifications.

It is also the owner's responsibility (or his representative), to verify that the necessary steps are taken to see that the general contractor and all subcontractors carry out such recommendations in the field. It is further understood that the owner or his representative is responsible for submittal of this report to the appropriate governing agencies.

This report has been prepared for the exclusive use of the client and authorized agents. This report has been prepared in accordance with generally accepted soil and foundation engineering practices. Other warranties, either expressed or implied, are not made as the professional advice provided under the terms of this agreement, and included in the report

It is recommended that Sladden Engineering be provided the opportunity for a general review of final design and specifications to assure that percolation rates and designated areas for the sewage disposal system will be properly interpreted and implemented in the design and specifications. If Sladden Engineering is not accorded the privilege of making this recommended review, we cannot assume responsibility for the misinterpretation of our recommendations.

If there are any questions regarding this report, please contact the undersigned.

Respectfully submitted,
SLADDEN ENGINEERING

Brett L. Anderson
Principal Engineer

REGISTERED PROFESSIONAL ENGINEER
BRETT L. ANDERSON
No. C45389
CIVIL ENGINEERING
STATE OF CALIFORNIA

Perc/mc/jm

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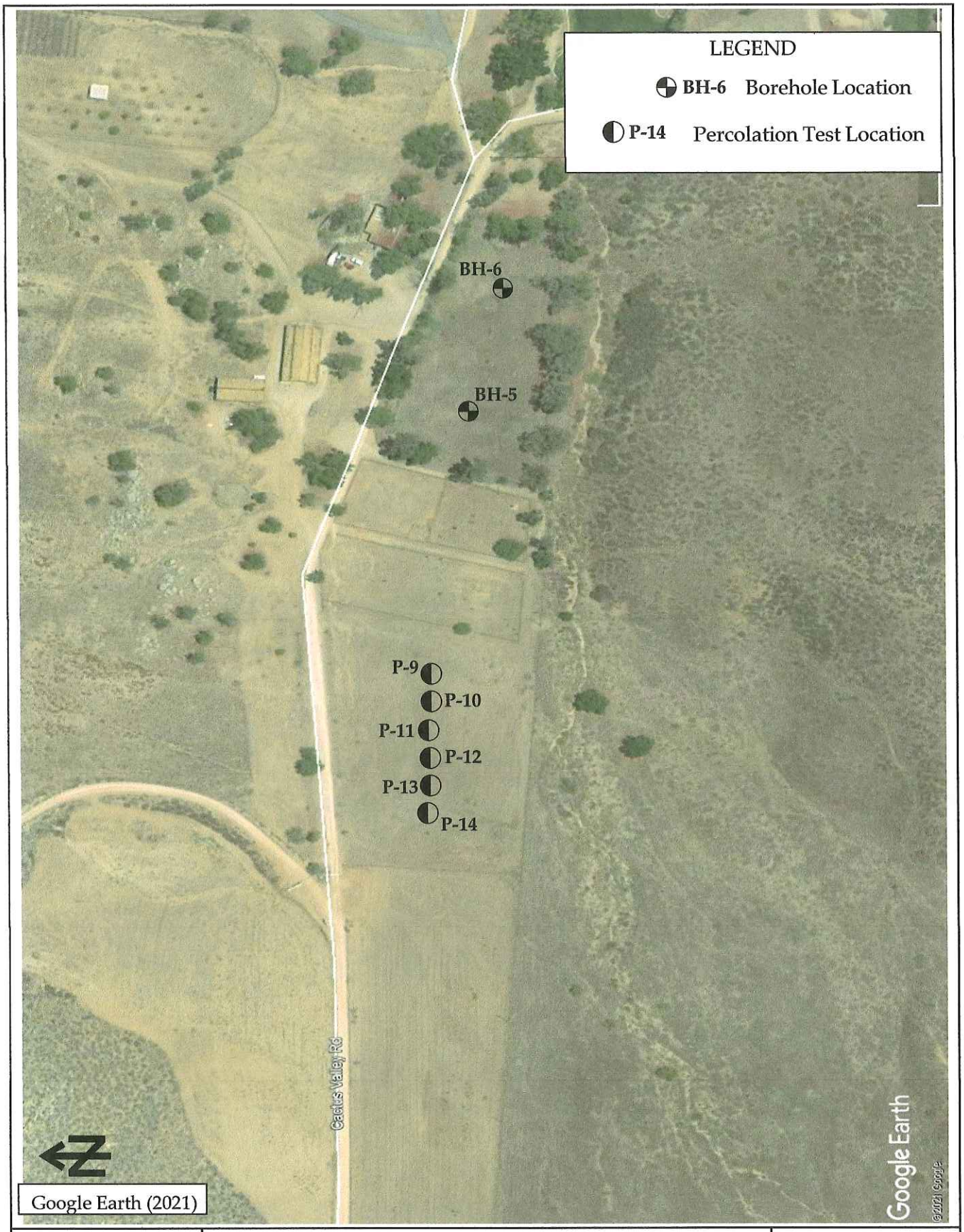
FIGURES

SITE LOCATION MAP
EXPLORATION LOCATION PHOTOGRAPHS

Sladden Engineering	SITE LOCATION MAP	FIGURE 1
	Project Number: 644-20047	
	Report Number: 21-01-005	
	Date: March 12, 2021	

Sladden Engineering	EXPLORATION LOCATION PHOTOGRAPH		FIGURE 2A
	Project Number:	644-20047	
	Report Number:	21-01-005	
	Date:	March 12, 2021	



Google Earth (2021)

Sladden Engineering	EXPLORATION LOCATION PHOTOGRAPH	FIGURE 2B
	Project Number: 644-20047	
	Report Number: 21-01-005	
	Date: March 12, 2021	

APPENDIX A

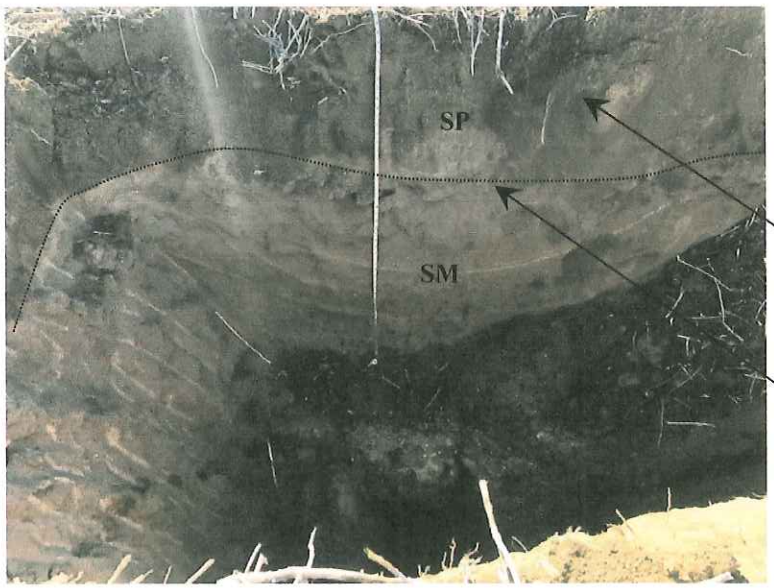
TEST PIT LOGS
BOREHOLE LOGS

LOG OF TEST PIT: TP - 1

Soil Interval Depth (Feet bgs)	Soil Sample Designation	Soil Sample Depth (Feet bgs)	SOIL DESCRIPTION
0.0-101			Sand (SP); dark grayish brown, slightly moist to moist, fine- to coarse-grained with gravel (Qal).
1.0-12.0			Silty Sand (SM); yellowish brown, dry, fine- to coarse-grained with gravel (Qal).
12.0-13.0			Bedrock (granitoid); moderately hard, moderately strong, highly weathered; breaks down to SP/SM soil type.
			Test Pit Terminated at ~5.0 Feet bgs. Bottom of Test Pit Augured to 13.0 Feet bgs. Bedrock Encountered. At ~12.0 Feet bgs. No Groundwater or Seepage Encountered

GRAPHIC REPRESENTATION

SCALE: N/A **BEARING: N49E** **WALL**: North



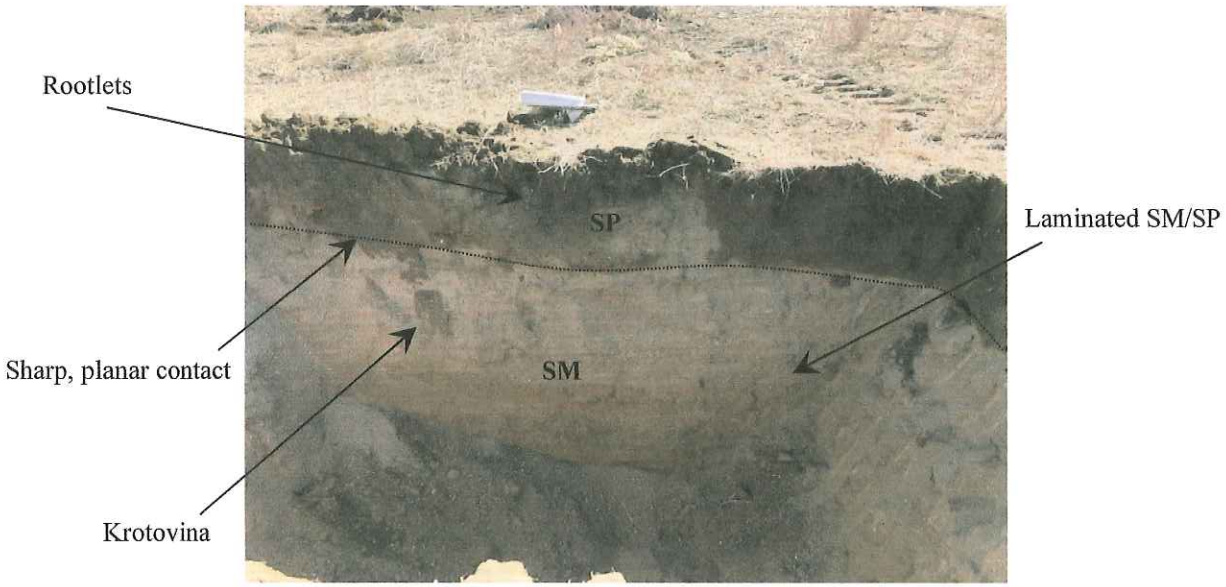
Test Pit Number: TP-1	Date: 12/30/2020	**Sladden Engineering**
Elevation: 2085 Ft. msl	Equipment: Track-Mounted Excavator	Project: Paradise Valley Ranch
Lat/Long: 33.6692/-116.8996	Logged By: J. Minor	Project No.: 644-20047

LOG OF TEST PIT: TP - 2

Soil Interval Depth (Feet bgs)	Soil Sample Designation	Soil Sample Depth (Feet bgs)	SOIL DESCRIPTION
0.0-2.0			Sand (SP); dark grayish brown, slightly moist to moist, fine- to coarse-grained with gravel (Qal).
2.0-12.0			Silty Sand (SM); yellowish brown, dry, fine- to coarse-grained with gravel (Qal).
12.0-14.5			Bedrock (granitoid); moderately hard, moderately strong, highly weathered; breaks down to SP/SM soil type.
			Test Pit Terminated at ~5.0 Feet bgs. Bottom of Test Pit Augured to 14.5 Feet bgs. Bedrock Encountered. At ~12.0 Feet bgs. No Groundwater or Seepage Encountered

GRAPHIC REPRESENTATION

SCALE: N/A **BEARING: N27E** **WALL**: North



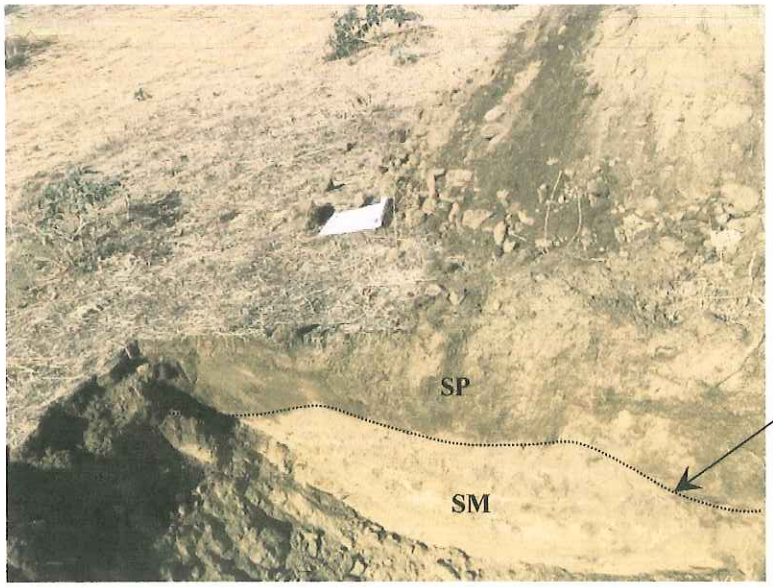
Test Pit Number: TP-2	Date: 12/30/2020	**Sladden Engineering**
Elevation: 2025 Ft. msl	Equipment: Track-Mounted Excavator	Project: Paradise Valley Ranch
Lat/Long: 33.6675/-116.9019	Logged By: J. Minor	Project No.: 644-20047

LOG OF TEST PIT: TP - 3

Soil Interval Depth (Feet bgs)	Soil Sample Designation	Soil Sample Depth (Feet bgs)	SOIL DESCRIPTION
0.0-1.0			Sand (SP); dark grayish brown, slightly moist to moist, fine- to coarse-grained with gravel (Qal).
1.0-5.0			Silty Sand (SM); yellowish brown, dry, fine- to coarse-grained with gravel (Qal).
			Test Pit Terminated at ~5.0 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered

GRAPHIC REPRESENTATION

SCALE: N/A **BEARING: N42E** **WALL**: North



Test Pit Number: TP-3	Date: 12/30/2020	**Sladden Engineering**
Elevation: 2032 Ft. msl	Equipment: Track-Mounted Excavator	Project: Paradise Valley Ranch
Lat/Long: 33.6677/-116.9023	Logged By: J. Minor	Project No.: 644-20047

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BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	2035 (MSL)	Boring No:	BH-1

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							4		Bedrock (granitoid); moderately hard, moderately strong, highly weathered; breaks down to SP/SM soil type.
							6		Terminated at ~ 2.5 feet bgs. Bedrock Encountered at ~ 1.0 feet bgs. No Groundwater or Seepage Encountered.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
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							48		
							50		

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PARADISE VALLEY RANCH
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BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	2035 (MSL)	Boring No:	BH-2

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							2		Bedrock (granitoid); moderately hard, moderately strong, highly weathered; breaks down to SP/SM soil type.
							4		
							6		Terminated at ~ 2.5 feet bgs. Bedrock Encountered at ~ 1.0 feet bgs. No Groundwater or Seepage Encountered.
							8		
							10		
							12		
							14		
							16		
							18		
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							22		
							24		
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BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	2035 (MSL)	Boring No:	BH-3

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							4		Bedrock (granitoid); moderately hard, moderately strong, highly weathered; breaks down to SP/SM soil type.
							6		Terminated at ~ 2.5 feet bgs. Bedrock Encountered at ~ 1.0 feet bgs. No Groundwater or Seepage Encountered.
							8		
							10		
							12		
							14		
							16		
							18		
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							22		
							24		
							26		
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							32		
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							50		

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BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	2035 (MSL)	Boring No:	BH-4

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							2		Bedrock (granitoid); moderately hard, moderately strong, highly weathered; breaks down to SP/SM soil type.
							4		
							6		Terminated at ~ 2.5 feet bgs. Bedrock Encountered at ~ 1.0 feet bgs. No Groundwater or Seepage Encountered.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
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BORE LOG

Drill Rig:	Mobil B-61	Date Drilled:	2/23/2021
Elevation:	2035 (MSL)	Boring No:	BH-5

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
	3/6/9						2		Silty Sand (SM); yellowish brown, moist, loose, fine-to-coarse grained with gravel (Qof).
	5/7/9						4		
							6		Silty Sand (SM); yellowish brown, moist, loose, fine-to-coarse grained with gravel (Qof).
	5/6/7						8		
							10		Silty Sand (SM); yellowish brown, moist, medium dense, fine-to-coarse grained with gravel (Qof).
	7/7/12						12		
							14		Silty Sand (SM); yellowish brown, moist, medium dense, fine-to-coarse grained with gravel (Qof).
	5/7/9						16		
							18		Silty Sand (SM); yellowish brown, moist, medium dense, fine-to-coarse grained with gravel (Qof).
	6/9/11						20		
							22		Silty Sand (SM); yellowish brown, moist, medium dense, fine-to-coarse grained with gravel (Qof).
	27/50-6"						24		
							26		Bedrock (granitoid); moderately hard, moderately strong, highly weathered; breaks down to SP/SM soil type.
							28		
							30		Practical Auger Refusal at ~ 34.0 feet bgs. Bedrock Encountered at ~ 30.0 feet bgs. No Groundwater or Seepage Encountered.
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

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BORE LOG

Drill Rig:	Mobil B-61	Date Drilled:	2/23/2021
Elevation:	2035 (MSL)	Boring No:	BH-6

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							2		Silty Sand (SM); yellowish brown, moist, fine-to-coarse grained with gravel (Qof).
	2/2/2						4		
							6		Silty Sand (SM); yellowish brown, moist, very loose, fine-to-coarse grained with gravel (Qof).
							8		
	8/10/26						10		
							12		Silty Sand (SM); yellowish brown, moist, medium dense, fine-to-coarse grained with gravel (Qof).
							14		
	50-3"						16		Silty Sand (SM); yellowish brown, moist, very dense, fine-to-coarse grained with gravel (Qof).
							18		Terminated at ~ 16.5 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
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BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	3380 (MSL)	Boring No:	P-1

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							2		
							4		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
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							30		
							32		
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							36		
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BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	3380 (MSL)	Boring No:	P-2

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							4		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
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BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	3380 (MSL)	Boring No:	P-3

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0–2		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							2–4		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							4–50		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.

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BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	3380 (MSL)	Boring No:	P-4

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							4		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PARADISE VALLEY RANCH
43700 CACTUS VALLEY ROAD, HEMET

Project No:	644-20047	Page	10
Report No:	21-01-005		

SLADDEN ENGINEERING

BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	2025 (MSL)	Boring No:	P-5

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							4		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
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							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PARADISE VALLEY RANCH
43700 CACTUS VALLEY ROAD, HEMET

Project No:	644-20047	Page	11
Report No:	21-01-005		

SLADDEN ENGINEERING

BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	2025 (MSL)	Boring No:	P-6

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							2		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							4		
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
							14		
							16		
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							32		
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							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PARADISE VALLEY RANCH
43700 CACTUS VALLEY ROAD, HEMET

Project No:	644-20047	Page	12
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SLADDEN ENGINEERING

BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	2025 (MSL)	Boring No:	P-7

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							2		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							4		
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
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							16		
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							32		
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							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PARADISE VALLEY RANCH
43700 CACTUS VALLEY ROAD, HEMET

Project No:	644-20047	Page	13
Report No:	21-01-005		

SLADDEN ENGINEERING

BORE LOG

Excavator:	Mini-Ex	Date Drilled:	12/30/2021
Elevation:	2025 (MSL)	Boring No:	P-8

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							2		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							4		
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
							14		
							16		
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							48		
							50		

Completion Notes:

PARADISE VALLEY RANCH
43700 CACTUS VALLEY ROAD, HEMET

Project No:	644-20047	Page	14
Report No:	21-01-005		

SLADDEN ENGINEERING

BORE LOG

Drill Rig:	Mobil B-61	Date Drilled:	2/23/2021
Elevation:	1980 (MSL)	Boring No:	P-9

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							2		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							4		
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
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							32		
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							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PARADISE VALLEY RANCH
43700 CACTUS VALLEY ROAD, HEMET

Project No:	644-20047	Page	15
Report No:	21-01-005		

SLADDEN ENGINEERING

BORE LOG

Drill Rig:	Mobil B-61	Date Drilled:	2/23/2021
Elevation:	1980 (MSL)	Boring No:	P-10

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							4		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
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							16		
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							20		
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							24		
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							32		
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							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PARADISE VALLEY RANCH
43700 CACTUS VALLEY ROAD, HEMET

Project No:	644-20047	Page	16
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SLADDEN ENGINEERING

BORE LOG

Drill Rig:	Mobil B-61	Date Drilled:	2/23/2021
Elevation:	1980 (MSL)	Boring No:	P-11

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							4		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
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							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PARADISE VALLEY RANCH
43700 CACTUS VALLEY ROAD, HEMET

Project No:	644-20047	Page	17
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SLADDEN ENGINEERING

BORE LOG

Drill Rig:	Mobil B-61	Date Drilled:	2/23/2021
Elevation:	1980 (MSL)	Boring No:	P-12

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							2		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							4		
							6		Terminated at ~ 5.0 feet bgs.
							8		No Bedrock Encountered.
							10		No Groundwater or Seepage Encountered.
							12		Borehole Cased with Perforated Pipe for Percolation Testing.
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PARADISE VALLEY RANCH
43700 CACTUS VALLEY ROAD, HEMET

Project No:	644-20047	Page	18
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SLADDEN ENGINEERING

BORE LOG

Drill Rig:	Mobil B-61	Date Drilled:	2/23/2021
Elevation:	1980 (MSL)	Boring No:	P-13

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							4		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PARADISE VALLEY RANCH
43700 CACTUS VALLEY ROAD, HEMET

Project No:	644-20047	Page	19
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SLADDEN ENGINEERING

BORE LOG

Drill Rig:	Mobil B-61	Date Drilled:	2/23/2021
Elevation:	1980 (MSL)	Boring No:	P-14

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Dry Density	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); yellowish brown, dry, fine-to-coarse grained with gravel (Qof).
							2		
							4		Silty Sand (SM); yellowish brown, dry to slightly moist, fine-to-coarse grained with gravel (Qof).
							6		Terminated at ~ 5.0 feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Borehole Cased with Perforated Pipe for Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
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							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PARADISE VALLEY RANCH
43700 CACTUS VALLEY ROAD, HEMET

Project No:	644-20047	Page	20
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APPENDIX B

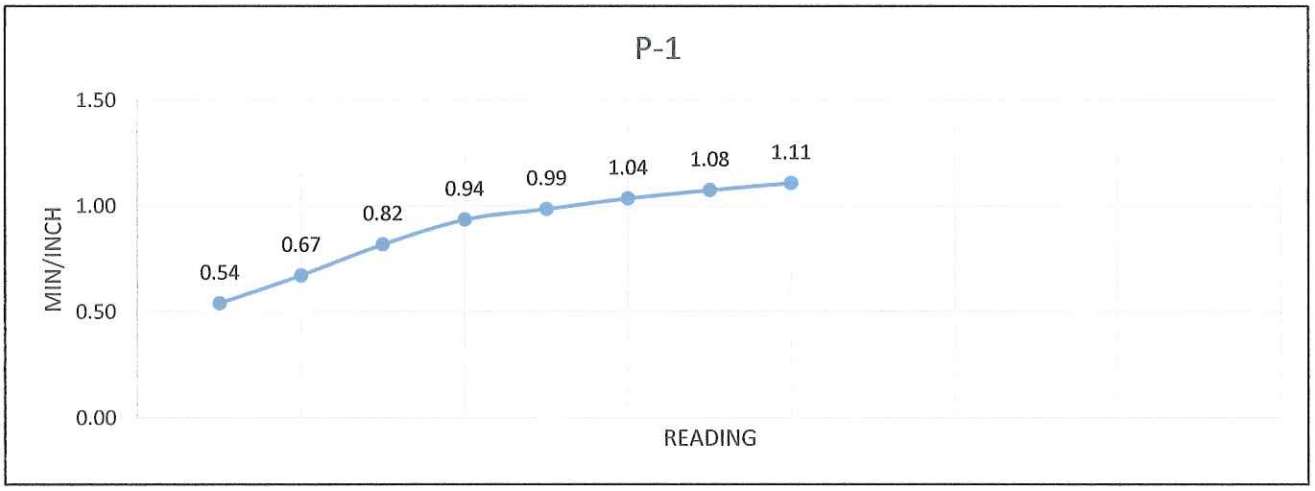
LEACH LINE DATA SHEETS

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 12/30/2020
Test Hole #: P-1
Depth (ft): 4.83
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: R.F./ A.F.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:04:20	4.83	8	0	8	0.54
B	0:05:23	4.83	8	0	8	0.67

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:04:55	4.83	6	0	6	0.82
2	0:05:37	4.83	6	0	6	0.94
3	0:05:55	4.83	6	0	6	0.99
4	0:06:13	4.83	6	0	6	1.04
5	0:06:27	4.83	6	0	6	1.08
6	0:06:39	4.83	6	0	6	1.11
7						
8						
9						
10						
11						



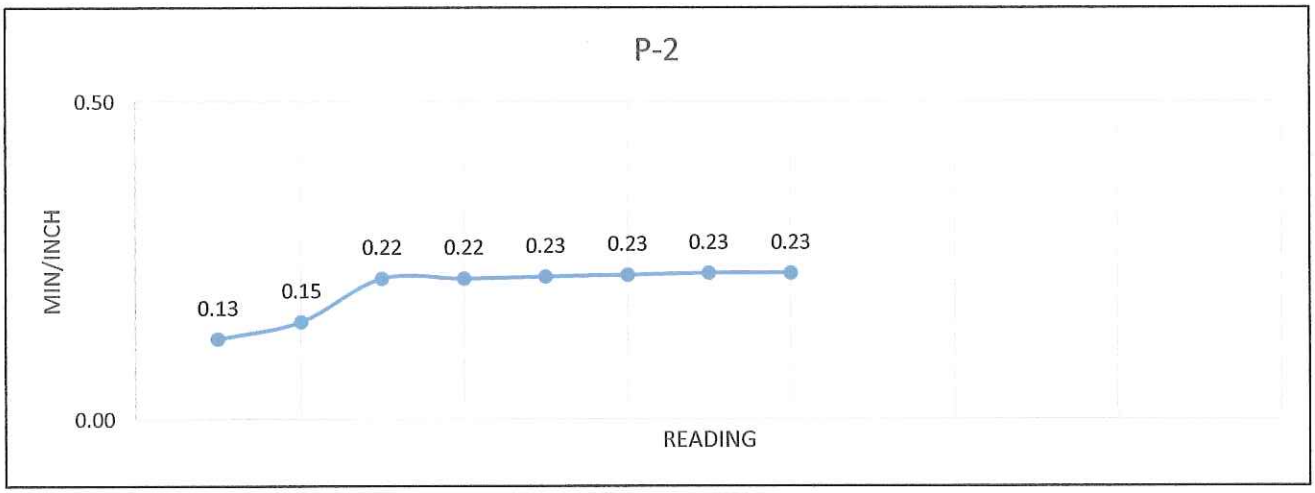
Rate (Min/Inch): 1.11

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 12/30/2020
Test Hole #: P-2
Depth (ft): 4.75
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: R.F./ A.F.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:01:01	4.75	8	0	8	0.13
B	0:01:14	4.75	8	0	8	0.15

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:01:20	4.75	6	0	6	0.22
2	0:01:20	4.75	6	0	6	0.22
3	0:01:21	4.75	6	0	6	0.23
4	0:01:22	4.75	6	0	6	0.23
5	0:01:23	4.75	6	0	6	0.23
6	0:01:23	4.75	6	0	6	0.23
7						
8						
9						
10						
11						



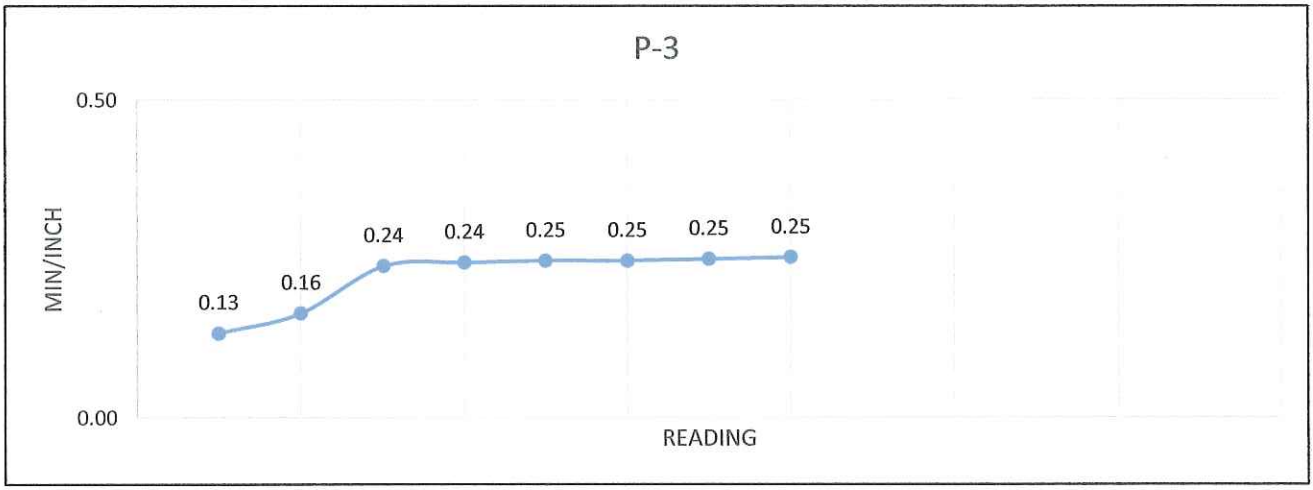
Rate (Min/Inch): 0.23

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 12/30/2020
Test Hole #: P-3
Depth (ft): 4.83
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: R.F./ A.F.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:01:04	4.83	8	0	8	0.13
B	0:01:19	4.83	8	0	8	0.16

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:01:26	4.83	6	0	6	0.24
2	0:01:28	4.83	6	0	6	0.24
3	0:01:29	4.83	6	0	6	0.25
4	0:01:29	4.83	6	0	6	0.25
5	0:01:30	4.83	6	0	6	0.25
6	0:01:31	4.83	6	0	6	0.25
7						
8						
9						
10						
11						



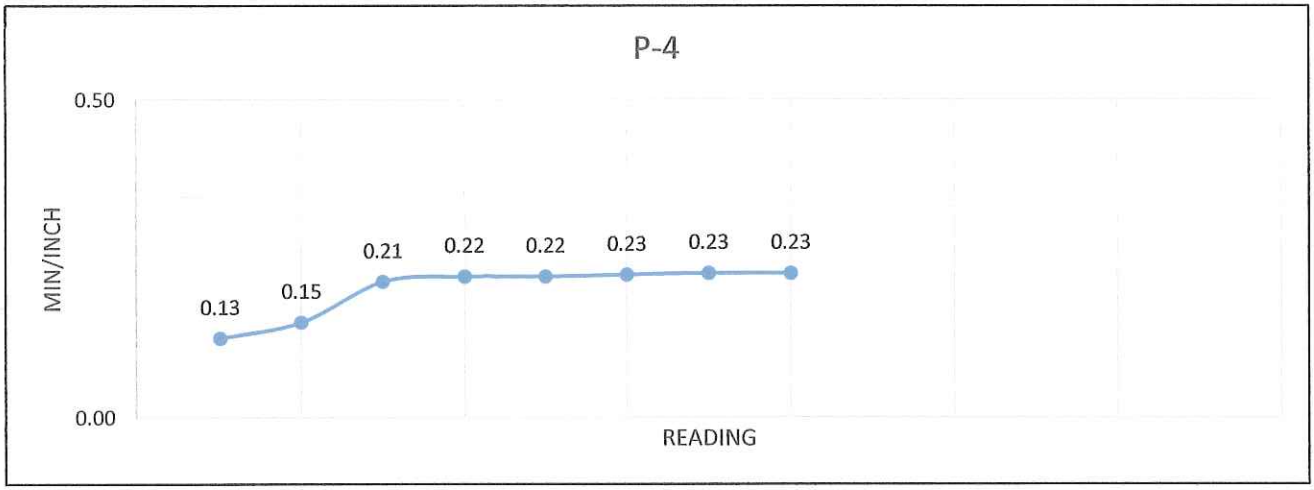
Rate (Min/Inch): 0.25

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 12/30/2020
Test Hole #: P-4
Depth (ft): 5.00
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: R.F./ A.F.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:01:00	5	8	0	8	0.13
B	0:01:12	5	8	0	8	0.15

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:01:17	5	6	0	6	0.21
2	0:01:20	5	6	0	6	0.22
3	0:01:20	5	6	0	6	0.22
4	0:01:21	5	6	0	6	0.23
5	0:01:22	5	6	0	6	0.23
6	0:01:22	5	6	0	6	0.23
7						
8						
9						
10						
11						



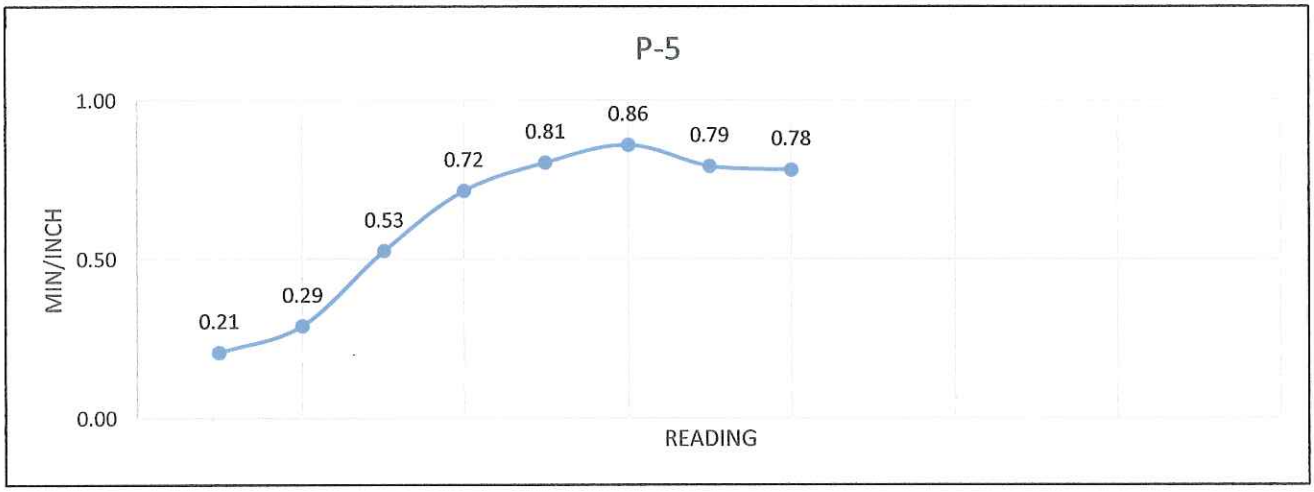
Rate (Min/Inch): 0.23

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 12/30/2020
Test Hole #: P-5
Depth (ft): 4.58
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: R.F./ A.F.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:01:40	4.58	8	0	8	0.21
B	0:02:20	4.58	8	0	8	0.29

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:03:10	4.58	6	0	6	0.53
2	0:04:18	4.58	6	0	6	0.72
3	0:04:50	4.58	6	0	6	0.81
4	0:05:10	4.58	6	0	6	0.86
5	0:04:46	4.58	6	0	6	0.79
6	0:04:42	4.58	6	0	6	0.78
7						
8						
9						
10						
11						



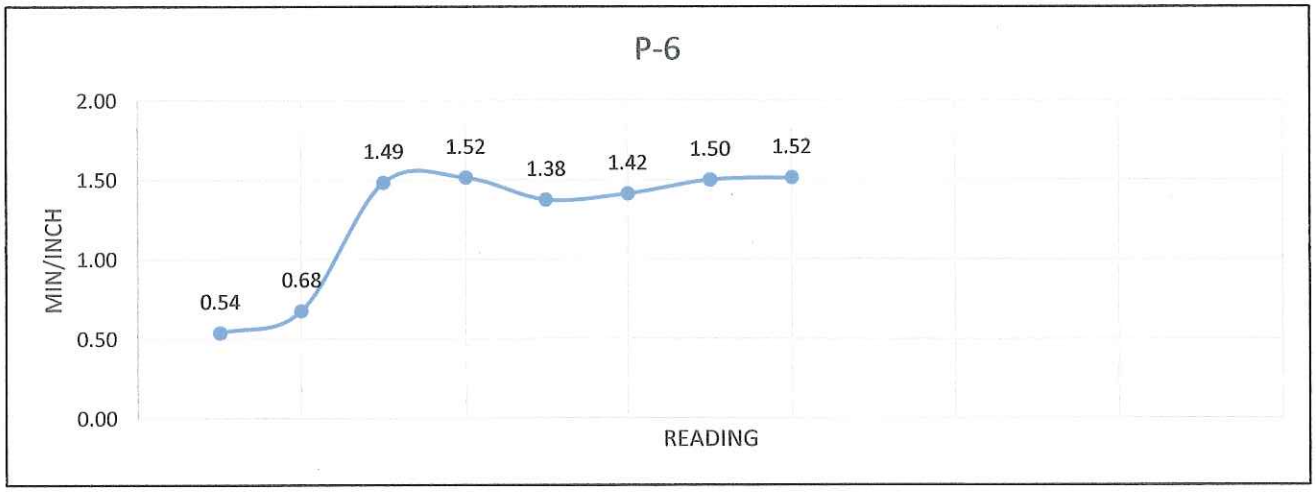
Rate (Min/Inch): 0.78

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 12/30/2020
Test Hole #: P-6
Depth (ft): 4.41
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: R.F./ A.F.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:04:20	4.41	8	0	8	0.54
B	0:05:26	4.41	8	0	8	0.68

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:08:55	4.41	6	0	6	1.49
2	0:09:06	4.41	6	0	6	1.52
3	0:08:16	4.41	6	0	6	1.38
4	0:08:30	4.41	6	0	6	1.42
5	0:09:01	4.41	6	0	6	1.50
6	0:09:06	4.41	6	0	6	1.52
7						
8						
9						
10						
11						



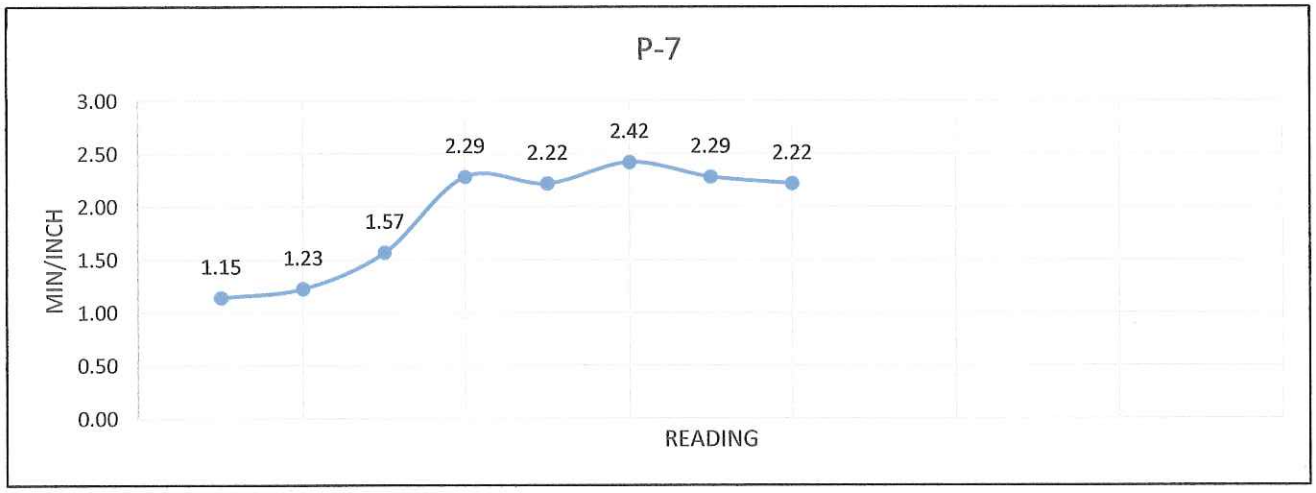
Rate (Min/Inch): 1.52

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 12/30/2020
Test Hole #: P-7
Depth (ft): 4.50
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: R.F./ A.F.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:09:10	4.5	8	0	8	1.15
B	0:09:50	4.5	8	0	8	1.23

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:09:26	4.5	6	0	6	1.57
2	0:10:00	4.5	6	1 5/8	4 3/8	2.29
3	0:10:00	4.5	6	1 4/8	4 4/8	2.22
4	0:10:00	4.5	6	1 7/8	4 1/8	2.42
5	0:10:00	4.5	6	1 5/8	4 3/8	2.29
6	0:10:00	4.5	6	1 4/8	4 4/8	2.22
7						
8						
9						
10						
11						



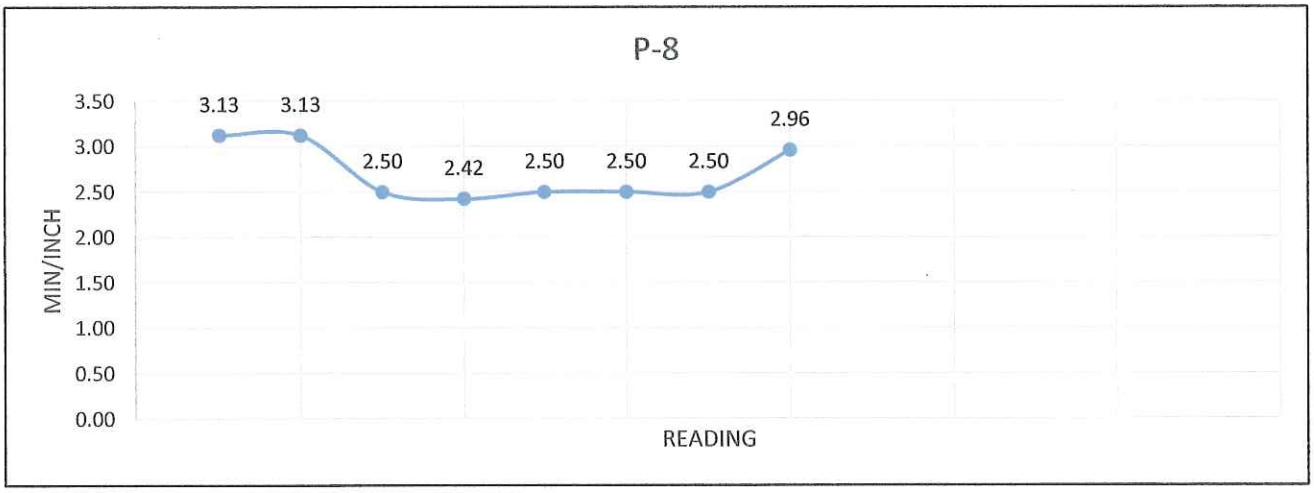
Rate (Min/Inch): 2.22

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 12/30/2020
Test Hole #: P-8
Depth (ft): 4.58
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: R.F./ A.F.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:25:00	4.58	8	0	8	3.13
B	0:25:00	4.58	8	0	8	3.13

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:10:00	4.58	6	2	4	2.50
2	0:10:00	4.58	6	1 7/8	4 1/8	2.42
3	0:10:00	4.58	6	2	4	2.50
4	0:10:00	4.58	6	2	4	2.50
5	0:10:00	4.58	6	2	4	2.50
6	0:10:00	4.58	6	2 5/8	3 3/8	2.96
7						
8						
9						
10						
11						



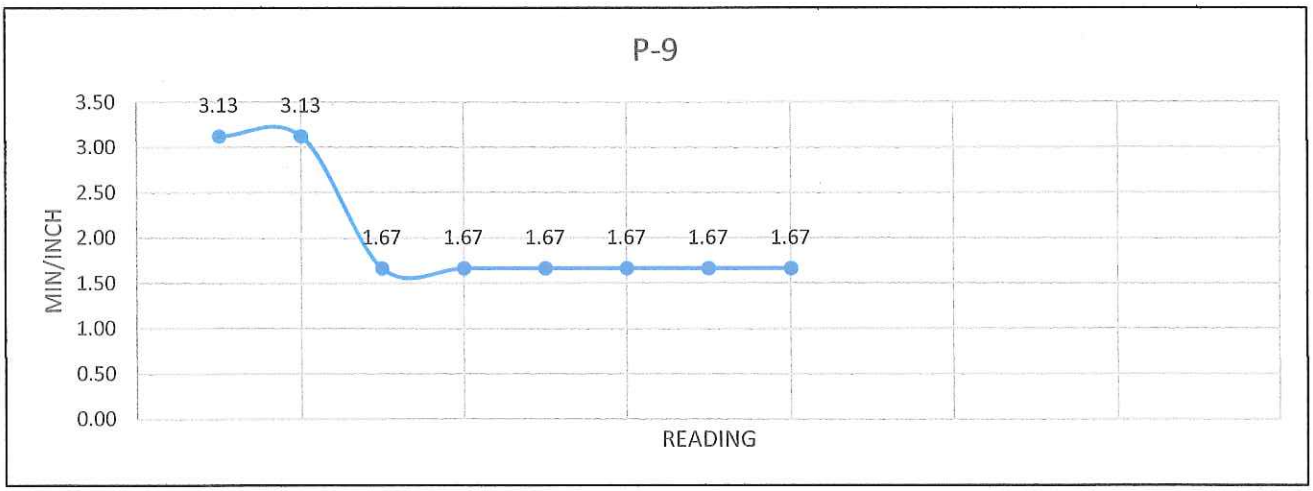
Rate (Min/Inch): 2.96

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 2/23/2021
Test Hole #: P-9
Depth (ft): 5
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: S.D./J.M.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:25:00	5	8	0	8	3.13
B	0:25:00	5	8	0	8	3.13

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:10:00	5	6	0	6	1.67
2	0:10:00	5	6	0	6	1.67
3	0:10:00	5	6	0	6	1.67
4	0:10:00	5	6	0	6	1.67
5	0:10:00	5	6	0	6	1.67
6	0:10:00	5	6	0	6	1.67
7						
8						
9						
10						
11						



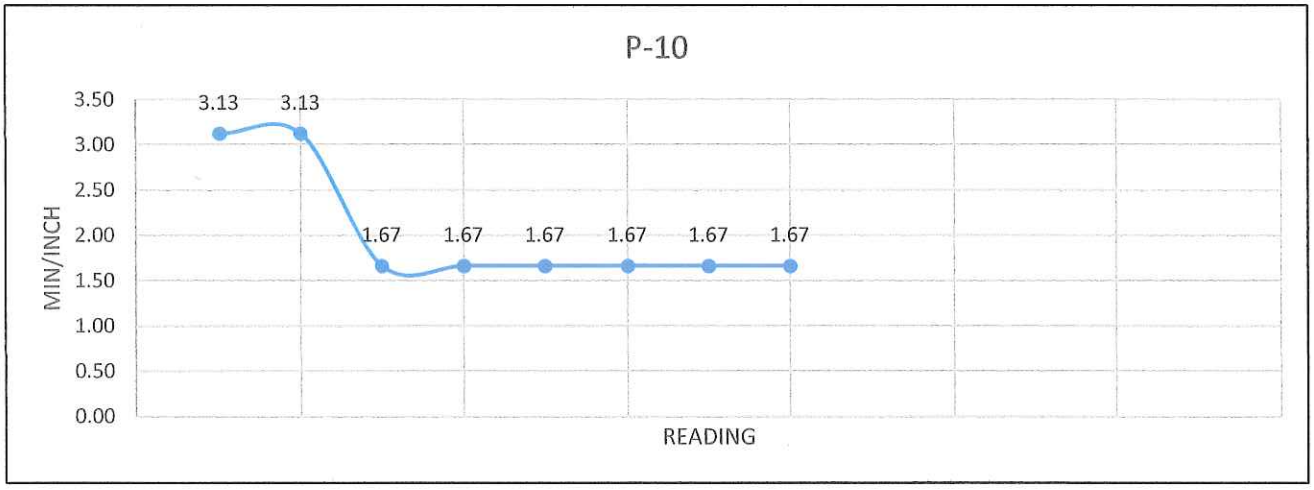
Rate (Min/Inch): 1.67

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 2/23/2021
Test Hole #: P-10
Depth (ft): 5.00
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: S.D./J.M.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:25:00	5	8	0	8	3.13
B	0:25:00	5	8	0	8	3.13

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:10:00	5	6	0	6	1.67
2	0:10:00	5	6	0	6	1.67
3	0:10:00	5	6	0	6	1.67
4	0:10:00	5	6	0	6	1.67
5	0:10:00	5	6	0	6	1.67
6	0:10:00	5	6	0	6	1.67
7						
8						
9						
10						
11						



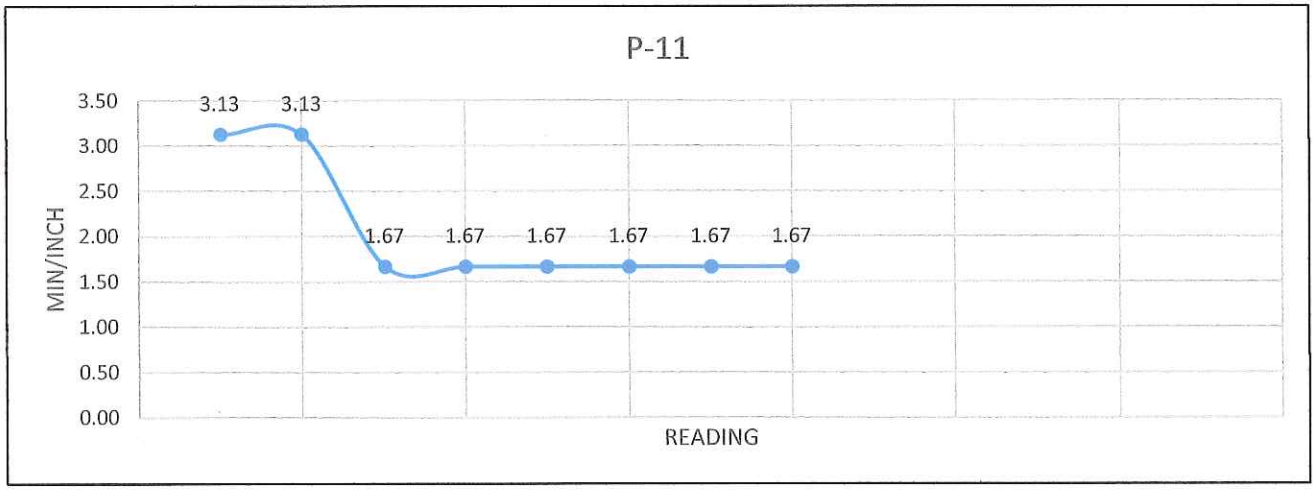
Rate (Min/Inch): 1.67

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 2/23/2021
Test Hole #: P-11
Depth (ft): 5.00
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: S.D./J.M.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:25:00	5	8	0	8	3.13
B	0:25:00	5	8	0	8	3.13

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:10:00	5	6	0	6	1.67
2	0:10:00	5	6	0	6	1.67
3	0:10:00	5	6	0	6	1.67
4	0:10:00	5	6	0	6	1.67
5	0:10:00	5	6	0	6	1.67
6	0:10:00	5	6	0	6	1.67
7						
8						
9						
10						
11						



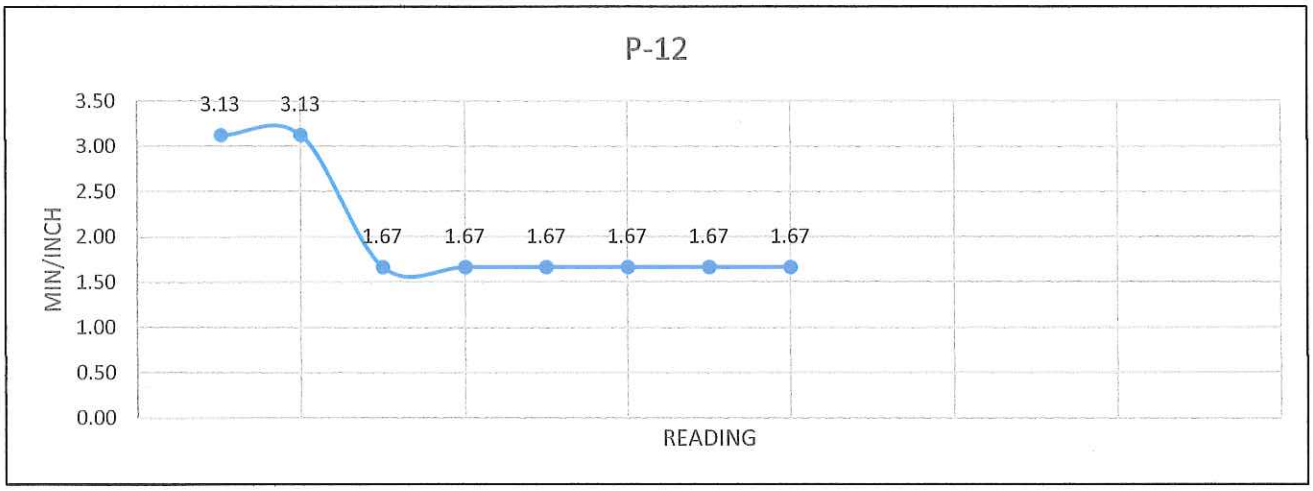
Rate (Min/Inch): 1.67

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 2/23/2021
Test Hole #: P-12
Depth (ft): 5.00
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: S.D./J.M.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:25:00	5	8	0	8	3.13
B	0:25:00	5	8	0	8	3.13

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:10:00	5	6	0	6	1.67
2	0:10:00	5	6	0	6	1.67
3	0:10:00	5	6	0	6	1.67
4	0:10:00	5	6	0	6	1.67
5	0:10:00	5	6	0	6	1.67
6	0:10:00	5	6	0	6	1.67
7						
8						
9						
10						
11						



Rate (Min/Inch): 1.67

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 2/23/2021
Test Hole #: P-13
Depth (ft): 5.00
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: S.D./J.M.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:25:00	5	8	0	8	3.13
B	0:25:00	5	8	0	8	3.13

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:10:00	5	6	0	6	1.67
2	0:10:00	5	6	0	6	1.67
3	0:10:00	5	6	0	6	1.67
4	0:10:00	5	6	0	6	1.67
5	0:10:00	5	6	0	6	1.67
6	0:10:00	5	6	0	6	1.67
7						
8						
9						
10						
11						

Rate (Min/Inch): 1.67

RIVERSIDE COUNTY LEACH LINE DATA SHEETS

PR#: 6113-6117
Project: Paradise Valley Ranch
Job No. : 644-20047
Date: 2/23/2021
Test Hole #: P-14
Depth (ft): 5.00
Equipment: John Deere 30
USCS Soil Class: SM/SP
Tested By: S.D./J.M.

READING	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	0:25:00	5	8	0	8	3.13
B	0:25:00	5	8	0	8	3.13

READING*	TIME INTERVAL (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	0:10:00	5	6	0	6	1.67
2	0:10:00	5	6	0	6	1.67
3	0:10:00	5	6	0	6	1.67
4	0:10:00	5	6	0	6	1.67
5	0:10:00	5	6	0	6	1.67
6	0:10:00	5	6	0	6	1.67
7						
8						
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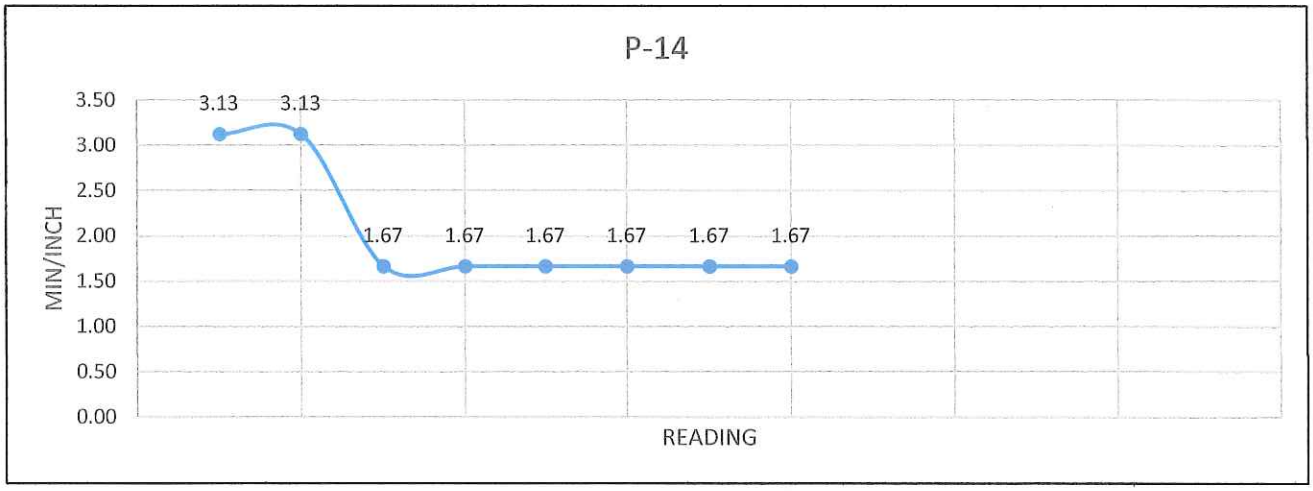

Rate (Min/Inch): 1.67