



Sladden Engineering

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January 10, 2023

Project No. 544-22471
23-01-015

1.0 DESCRIPTION OF SITE AND PROPOSAL

1.1 Four Star Realty
c/o Ms. Kim Chen
2939 Leward Avenue, Unit 201
Los Angeles, California 90005

Project: Proposed Joshua Tree Estates
SEC East Broadway Street & Laferney Avenue
APN 0605-051-01
Joshua Tree Area
San Bernardino County, California

Subject: Percolation Testing for Onsite Sewage Disposal Feasibility

1.2. Location:

The project site is located on the southeast corner of East Broadway Street and Laferney Avenue in the Joshua Tree area of San Bernardino County, California. The project site consists of a single parcel that is formally identified by the County of San Bernardino County as APN 0605-051-01. The parcel occupies approximately 80 acres of undeveloped land. The site is near the elevation of the adjacent properties and roadways and is located at approximately 34.1623 degrees north latitude and 116.2690 degrees west longitude (Figure 1). The parcel is bounded by East Broadway Street to the north, Laferney Avenue to the west, Sunever Road to the east and undeveloped land to the immediate south.

1.3 Proposed Development:

- a) It is our understanding that the proposed project will consist of constructing a 32 lot residential development on the subject parcel. Each residential lot will consist of approximately 2 acres. Concrete flatwork, landscape areas and various associated site improvements are also anticipated. Private on-site sewage disposal systems consisting of septic tanks and leach lines are proposed to serve each lot.

San Bernardino County Department of Public Health Division of Environmental Health Services		EHS REF# <u>SR0140335</u>
Percolation Report		
DESIGN RATE: <u>55</u> square feet per 100 gallons septic tank capacity		
This rate applies to:		
<input type="checkbox"/> Location(s) where tested	<input checked="" type="checkbox"/> Leach lines/bed	<input type="checkbox"/> Seepage pits
<input type="checkbox"/> Replacement only	<input checked="" type="checkbox"/> Entire lot/subdivision	<input type="checkbox"/> Limited to:
Additional requirements:		
<input type="checkbox"/> Maintain septic tank minimum _____ ft setback from _____		
<input type="checkbox"/> Maintain disposal area minimum _____ ft setback from _____		
<input type="checkbox"/> New construction requires perc test <input type="checkbox"/> Clearance from _____ RWQCB		
<input type="checkbox"/> EHS special conditions apply		
CONSTRUCTION DETAILS SUBJECT TO BUILDING AND SAFETY APPROVAL		
Design Rate Issued By: <u>Iliana Olguin</u> <i>Iliana Olguin</i>		Date: <u>4/16/26</u>

- a) Surface gradients in the on the subject parcel descend to the northeast at inclinations of ten horizontal to one vertical (10H:1V) and less. Surface gradients descend to the northeast with elevations ranging from approximately 2,520 to 2,475 feet above mean sea level from the southwest to northeast, respectively (MSL)¹.
- b) No natural ponding of water or surface seeps were observed at or near the site during our investigation conducted on December 5, 2022. Site drainage appears to be controlled via sheet flow and surface infiltration. Shallowly incised drainage courses transect the site from approximately Lot 12 northeast to Lot 32. *Project planners should understand that the new disposal systems must be located a minimum of 25 feet from the from the edge of the 100 year flow boundary in accordance with County of San Bernardino guidelines.*
- c) It is assumed that the properties within the vicinity of the project site are utilizing individual on-site sewage disposal systems consisting of septic tanks and leach lines or seepage pits.
- d) At the time of our investigation the parcel was undeveloped, and no wells were identified on the property. The property is serviced by the Joshua Basin Water District.
- e) No bedrock outcrops were observed on the subject property or in the immediate site vicinity.
- f) Bedrock was not encountered within the exploratory bores and test holes excavated to a maximum depth of approximately 26 feet bgs.
- g) Groundwater was not encountered within our exploratory bores or test holes that extended to a maximum explored depth of approximately 26 feet bgs. Information regarding the approximate depth to groundwater provided by the California Department of Water Resources² online database suggests that the groundwater should be in excess of 200 feet below the existing ground surface in the vicinity of the site. The following table provides a summary of the recorded historic high groundwater depths in the project vicinity.

**TABLE 1
GROUNDWATER DEPTHS**

STATE WELL	LAT/LONG	DISTANCE (KM)	DATE	DEPTH (FT)
01N07E17Q001S	34.165/-116.2736	0.50	05/03/1994	Dry Well
01N07E16P001S	34.1656/-116.2578	1.10	04/20/1968	262.7
01N07E21Q001S	34.1506/ -116.2528	1.98	04/16/1947	286.9
01N07E20P002S	34.1524/-116.2738	1.20	05/11/2006	375
01N07E21J001S	34.1539/-116.25	2.00	04/25/1956	258.7
01N07E22E001S	34.1572/-116.2475	2.05	03/27/1958	259.08
01N07E22D001S	34.1631/-116.2464	2.10	02/10/1998	233.39

- h) Site geologic features are not expected have a significant impact on sewage disposal system design.
- i) It appears that there will be sufficient area for the on-site sewage disposal systems and the required expansion areas on the subject site.

¹ United States Geological Survey (USGS), 2018, Joshua Tree North Quadrangle, California-San Bernardino County, 7.5 Minute Series.

² California Department of Water Resources, 2023, Water Data Library; available at: <https://wdl.water.ca.gov/waterdatalibrary/>

2.0 EQUIPMENT

- a) Seventeen (17) exploratory bores and seventeen (17) percolation test holes were excavated on the subject property using a track mounted limited access drill-rig (CME 75) equipped with 8-inch outside diameter augers and a John Deere 30 excavator equipped with a 24 inch wide bucket and an 8-inch outside diameter solid stem augers attachment.
- b) Tools used during testing consisted of a water level measuring device, a multi-timer application and a 500-gallon truck mounted water tank.

3.0 METHODOLOGY AND PROCEDURES

- 3.1 The exploratory bores and test hole locations were determined by a handheld Global Positioning System (GPS). The approximate locations of the exploratory bores and test holes are indicated on the attached Exploration Location Plan (Figure 3).
- 3.2 The test results and soil conditions encountered during our site exploration indicated "favorable" conditions throughout the subject property. The rapid percolation test rates determined by testing were consistent with the alluvial soil conditions observed throughout the subject property. The surface gradient throughout the site is less than 30 percent.
- 3.3 The soil encountered in our bores and test holes consisted primarily of fine- to coarse-grained silty sand (SM) and poorly graded sand (SP).
- 3.4 Test procedures for leach lines:
 - a) Prior to testing, the County of San Bernardino DEHS was notified of the intent to perform percolation testing. The notification was submitted on November 16, 2022 via email.
 - b) Seventeen (17) exploratory bores and seventeen (17) leach line percolation test holes were excavated on the site to depths between approximately 5 and 26 feet bgs. Percolation testing was performed at a depth of approximately 5.0 feet bgs within each of the test holes. Two (2) inches of ½ inch gravel was placed on the bottom of the test holes to prevent scouring when water was added.
 - c) Twelve inches of water (10 inches above gravel) of water was placed in the test holes and the drop in the water level was recorded over two consecutive 10-minute readings. Because 10 inches of water percolated through the test holes within two consecutive readings, testing was initiated immediately.
 - d) Percolation testing was performed by filling each test hole with approximately 8 inches of water and recording the time required to drop 3-inches in accordance with San Bernardino County OWTS guidelines³.

³ San Bernardino Public Health, Environmental Health Services, Percolation Testing and Reporting Standards for Onsite Wastewater Treatment Systems, Revised September 2019.

3.5 Leach line Test Results

TABLE 2
LEACH LINE TEST RESULTS

Lot No.	Test Hole No.	Depth (Ft.)	Q minutes/inch	Minimum Square Feet of Absorption Area Per Gallon Per Day
32	P-1	5.0	1.50	0.83
27	P-2	5.0	1.55	0.83
29	P-3	5.0	1.67	0.83
21	P-4	5.0	1.42	0.83
22	P-5	5.0	1.32	0.83
23	P-6	5.0	1.35	0.83
26	P-7	5.0	1.52	0.83
18	P-8	5.0	1.35	0.83
2	P-9	5.0	1.28	0.83
3	P-10	5.0	1.38	0.83
5	P-11	5.0	1.30	0.83
8	P-12	5.0	1.27	0.83
10	P-13	5.0	1.17	0.83
12	P-14	5.0	1.37	0.83
14	P-15	5.0	1.92	0.83
16	P-16	5.0	1.57	0.83
19	P-17	5.0	1.53	0.83

4.0 DISCUSSION OF RESULTS

- 4.1 Testing indicates rapid percolation rates between 1.17 and 1.92 minutes per inch that are consistent with the alluvium encountered within the exploratory bores and test holes.
- 4.2 The recorded measurements are considered accurate, and the consistency of the individual test results indicates accuracy.

5.0 DESIGN

5.1 Criteria:

- a) Leach lines may be designed based on an application rate of 0.83 square feet per gallon per day in accordance with San Bernardino County DEHS guidelines.
- b) Design Rate: The following calculation may be utilized to determine the design rate in square feet (ft²) per 100 gallons of septic tank capacity (gstc):

$$= \text{Application Rate (ft}^2\text{/gal/day)} * \text{Flow (gal)} / (\text{Septic Tank Size}/100 \text{ gal})$$

Design Rate not to be taken at less than 55 ft² per 100 gstc

- c) The project was in the preliminary design stages at the time of this report. Therefore, project plans were not available. Preliminary information to assist in the design of the on-site sewage disposal systems is presented below:

OWTS DESIGN

Standard Design (3 Ft of Gravel Below Leach Lines)

Number of Bedrooms	1-2	3	4	5-6
Application Rate (ft ² /gal/day)	0.83	0.83	0.83	0.83
Gallons of Effluent Per Day	500	670	800	1,000
Gallons of Septic Tank Capacity	750	1,000	1,200	1,500
Absorption Area (ft ²):	415	556	664	830
Trench Credit (ft ² per ft):	7	7	7	7
Total Leach Line Length (ft)	60	80	95	119
Number of Leach Lines	2 @ 30 Ft.	2 @ 40 Ft.	2 @ 48 Ft.	3 @ 40 Ft.

6.0 SEE EXPLORATION LOCATION PLAN

7.0 GENERAL DISCUSSION AND CONCLUSIONS

7.1 Based on the data presented in the report, it is the judgment of this engineer that leach lines may be used for the sewage disposal on this property.

7.2 Based on the data presented in this report and the tested information accumulated, it is the judgment of the engineer that the groundwater table should not encroach with the allowable limit set forth by County and State requirements, when the recommendations of this report are followed. Also, there appears to be sufficient area on each proposed parcel for the proposed on-site sewage disposal systems and future expansion.

7.3 All minimum setback distances shall be maintained for the proposed sewage disposal system in accordance with San Bernardino County guidelines⁴.

8.0 GENERAL

The findings and recommendations presented in this report are based upon an interpolation of the soil conditions between bore locations and extrapolation of the conditions throughout the sewage disposal system areas. Should conditions encountered during grading (or excavation) appear different than that indicated in this report, this office should be notified.

⁴ San Bernardino Public Health, Environmental Health Services, Percolation Testing and Reporting Standards for Onsite Wastewater Treatment Systems, Revised September 2019; Appendix D.

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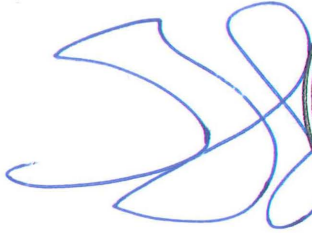
This report is considered applicable for use by the client for the specific site and project described herein. The use of this report by other parties or for other projects is not authorized.


We appreciate the opportunity to provide service to you on this project. If you have any questions regarding this report, please contact the undersigned.

Respectfully submitted,
SLADDEN ENGINEERING


Matthew J. Cohrt
Principal Geologist

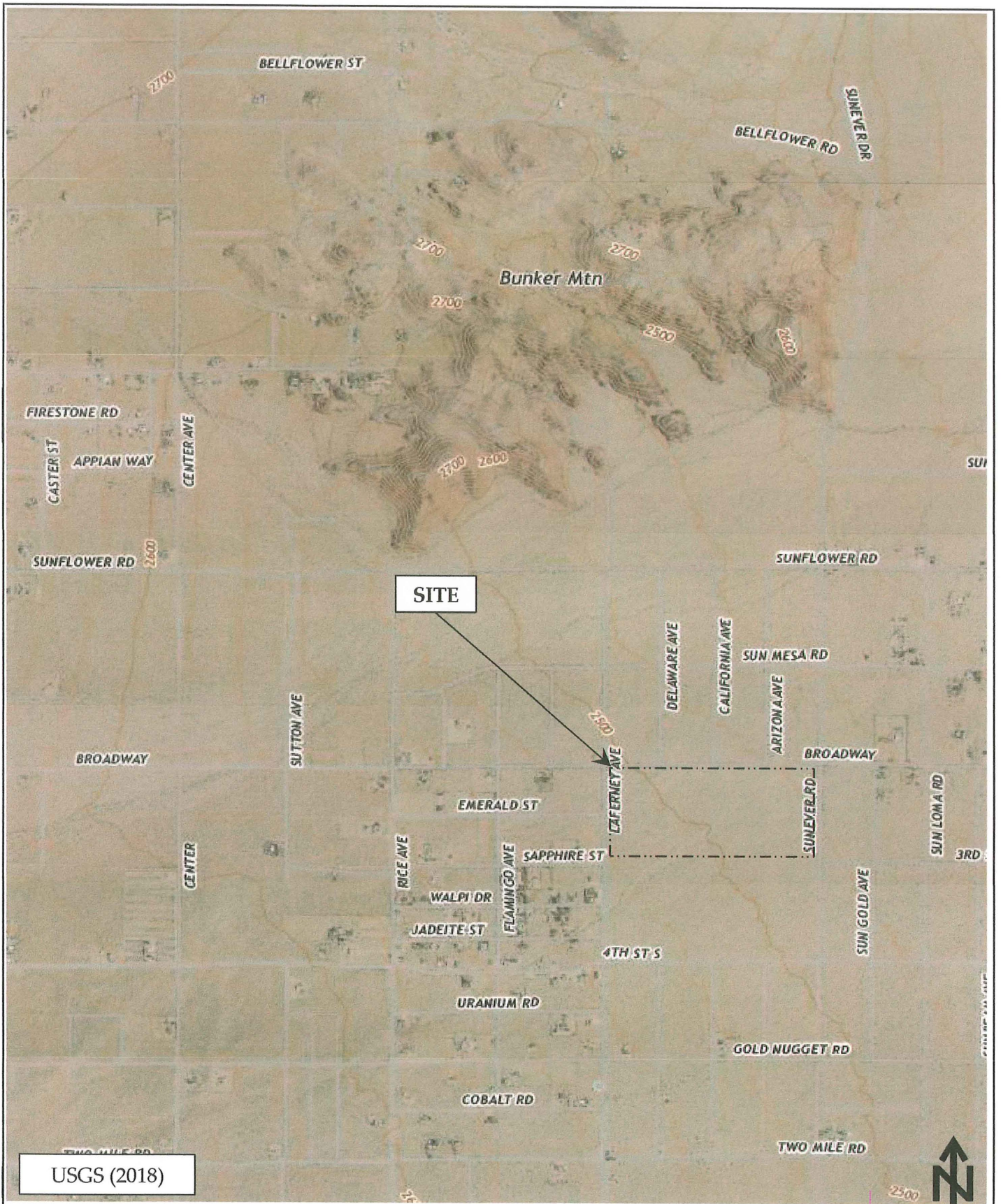



Brett L. Anderson
Principal Engineer



Perc/mc
PDF/Addressee

SITE LOCATION MAP
REGIONAL GEOLOGIC MAP
EXPLORATION LOCATION PLAN
FAULT ZONE MAP



USGS (2018)

SITE LOCATION MAP

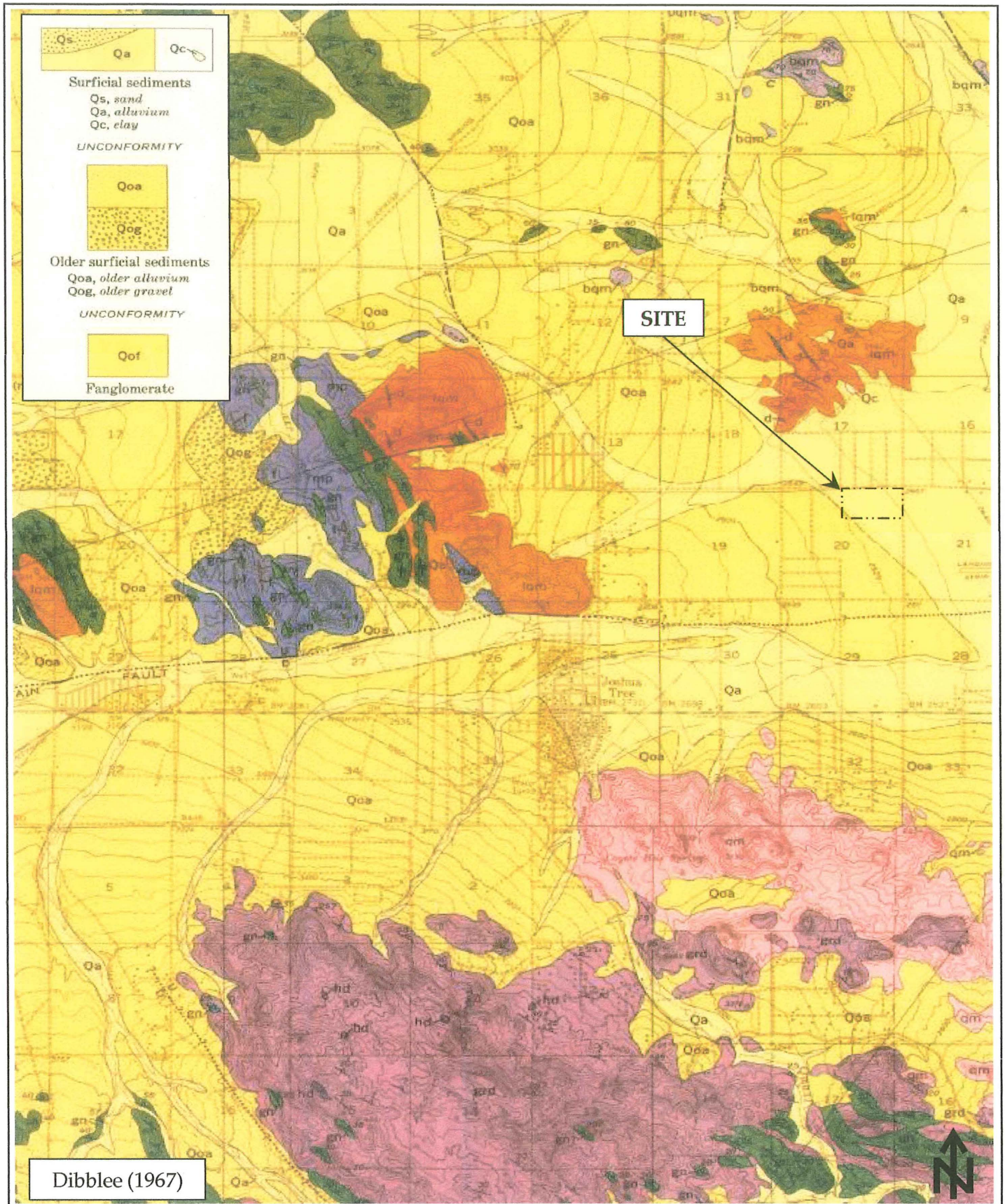
FIGURE

1



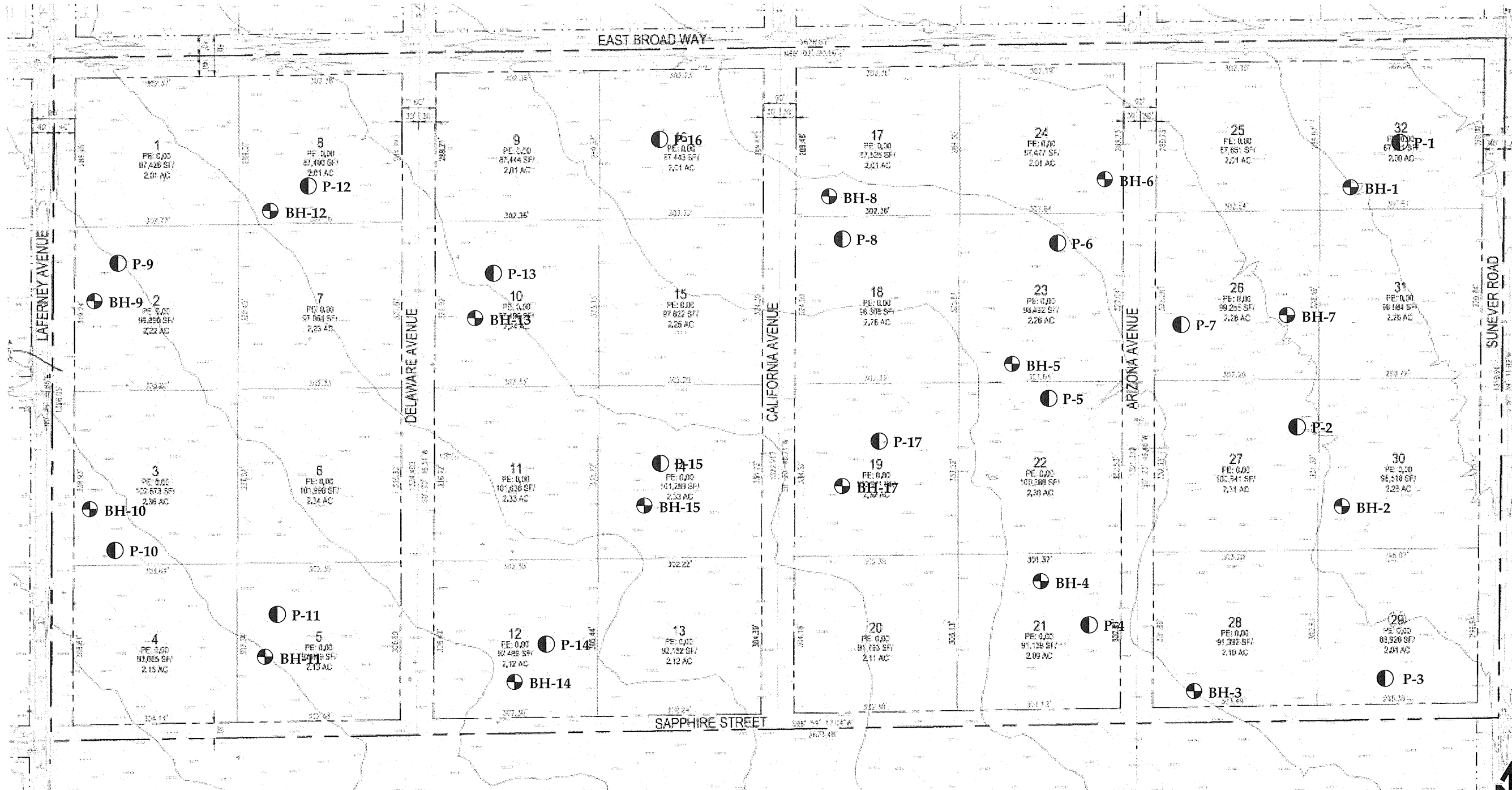
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REGIONAL GEOLOGIC MAP	
Project Number:	544-22471
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FIGURE
2



LEGEND	
	BH-17 Borehole Location
	P-17 Percolation Test Location

 Sladden Engineering	EXPLORATION LOCATION PLAN		FIGURE 3
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MAP EXPLANATION

Potentially Active Faults



Faults considered to have been active during Holocene time and to have a relatively high potential for surface rupture; solid line where accurately located, long dash where approximately located, short dash where inferred, dotted where concealed; query (?) indicates additional uncertainty. Evidence of historic offset indicated by year of earthquake-associated event or C for displacement caused by creep or possible creep.

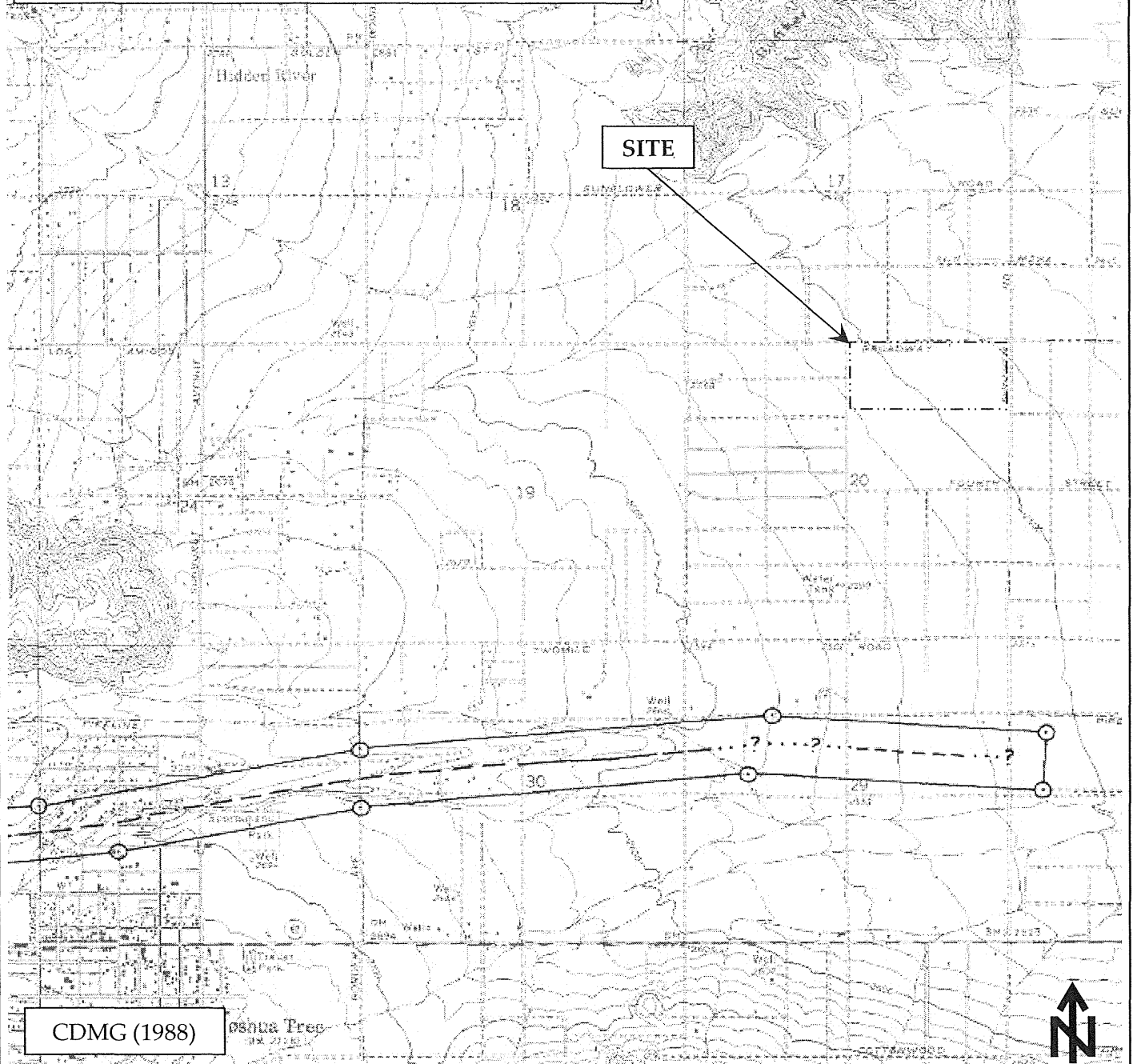
Special Studies Zone Boundaries



These are delineated as straight-line segments that connect encircled turning points so as to define special studies zone segments.



Seaward projection of zone boundary.



CDMG (1988)

osha Prep

FAULT ZONE MAP

FIGURE

4



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Date:

January 10, 2023

BORELOGS



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BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-1

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
	7 11 15	1	0	14.0	1.0	114.2	2	[Dotted pattern]	Silty Sand (SM); yellowish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
	10 12 13			14.8	1.2	108.1	4		Silty Sand (SM); yellowish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
	4 5 6			9.9	1.2		10	[Dotted pattern]	Sand (SW); yellowish brown, dry, medium dense, fine- to coarse-grained (Qa).
	16 29 38			6.5	0.6	117.2	12		Sand (SW); yellowish brown, dry, dense, fine- to coarse-grained (Qa).
	6 9 15			17.7	1.9		20	[Dotted pattern]	Silty Sand (SM); yellowish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
	27 43 55			3.2	0.5		22		Sand (SW); yellowish brown, dry, very dense, fine- to coarse-grained with calcium carbonate stringers (Qa).
							24	[Dotted pattern]	Terminated at ~26.5 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED 32 LOT RESIDENTIAL DEVELOPMENT
EAST BROADWAY STREET, JOSHUA TREE AREA



Sladden Engineering

BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-2

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine- to coarse-grained with gravel (Qa).
	5 6 7			19.3	1.7		4		
							6		Silty Sand (SM); yellowish brown, dry, medium dense, fine- to coarse-grained (Qa).
	6 14 18			14.4	1.0	108.9	8		
							10		Silty Sand (SM); yellowish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
							12		
							14		
	12 14 14			6.5	1.0		16		Sand (SW); yellowish brown, dry, medium dense, fine- to coarse-grained (Qa).
							18		
							20		Terminated at ~16.5 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		



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BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-3

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2	[Dotted pattern]	Silty Sand (SM); yellowish brown, dry, fine- to coarse-grained with gravel (Qa).
	6 7 8			2.4	0.3		4		
							6	[Dotted pattern]	Sand (SW); yellowish brown, dry, loose, fine- to coarse-grained with gravel (Qa).
	9 11 21			7.1	1.5		8		
							10	[Dotted pattern]	Sand (SW); yellowish brown, dry, dense, fine- to coarse-grained with gravel (Qa).
	12 26 34			5.6	0.9	115.9	12		
							14	[Dotted pattern]	Sand (SW); yellowish brown, dry, dense, fine- to coarse-grained with gravel (Qa).
	16 18 20			8.7	1.4		16		
							18	[Dotted pattern]	Sand (SW); yellowish brown, dry, dense, fine- to coarse-grained with gravel (Qa).
							20		
							22	[Dotted pattern]	Sand (SW); yellowish brown, dry, dense, fine- to coarse-grained with gravel (Qa).
							24		
							26	[Dotted pattern]	Terminated at ~21.5 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							28		
							30	[Dotted pattern]	
							32		
							34	[Dotted pattern]	
							36		
							38	[Dotted pattern]	
							40		
							42	[Dotted pattern]	
							44		
							46	[Dotted pattern]	
							48		
							50	[Dotted pattern]	

Completion Notes:

PROPOSED 32 LOT RESIDENTIAL DEVELOPMENT
EAST BROADWAY STREET, JOSHUA TREE AREA

Project No: 544-22471
Report No: 23-01-015



Sladden Engineering

BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-4

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine- to coarse-grained with gravel (Qa).
	3 4 4			13.9	2.3		4		
							6		Silty Sand (SM); yellowish brown, dry, loose, fine- to coarse-grained with gravel (Qa).
							8		
	5 11 16			7.1	0.9	107.5	10		
							12		Sand (SW); yellowish brown, dry, medium dense, fine- to coarse-grained (Qa).
							14		Terminated at ~11.5 Feet bgs.
							16		No Bedrock Encountered.
							18		No Groundwater or Seepage Encountered.
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		



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BORE LOG

Equipment: CME-75 Date Drilled: 11/22/2022
 Elevation: 2,500 Ft. MSL Boring No: BH-5

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine- to coarse-grained with gravel (Qa).
	12 20 22			4.8	0.6		4		
							6		Sand (SW); yellowish brown to grayish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
	5 6 8			9.5	1.0		8		
							10		Sand (SW); yellowish brown to grayish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
	8 11 28			2.5	0.3		12		
							14		Sand (SW); yellowish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
	9 11 14			5.6	0.8		16		
							18		Sand (SW); yellowish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
	19 33 29			3.5	0.4		20		
							22		Sand (SW); yellowish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
							24		
							26		Sand (SW); yellowish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
							28		
							30		Terminated at ~26.5 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		



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BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-6

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine- to coarse-grained with gravel (Qa).
	12 17 24			17.4	1.1	112.3	4		
							6		Silty Sand (SM); yellowish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
							8		
	7 9 12			6.9	0.9		10		
							12		Sand (SP); yellowish brown, dry, medium dense, fine- to coarse-grained (Qa).
							14		
	12 16 21			4.0	0.4	115.0	16		Sand (SP); yellowish brown, dry, medium dense, fine- to coarse-grained (Qa).
							18		
							20		Terminated at ~16.5 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		



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BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-7

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine- to coarse-grained with gravel (Qa).
	5 6 8			8.4	0.8		4		
							6		Sand (SP); grayish brown, dry, medium dense, fine- to coarse-grained (Qa).
	10 14 17			14.2	1.0	121.0	10		
							12		Silty Sand (SM); yellowish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
	10 16 18			5.6	0.6		14		
							16		Sand (SP); grayish brown to yellowish brown, dry, dense, fine- to coarse-grained with gravel (Qa).
	16 22 27			5.4	0.4	111.1	20		
							22		Sand (SP); grayish brown to yellowish brown, dry, dense, fine- to coarse-grained with gravel (Qa).
							24		Terminated at ~16.5 Feet bgs.
							26		No Bedrock Encountered.
							28		No Groundwater or Seepage Encountered.
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		



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BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-8

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); yellowish brown, dry, fine- to coarse-grained with gravel (Qa).
	13 26 23			6.7	0.4	121.9	4		
							6		Sand (SP); yellowish brown to grayish brown, dry, dense, fine- to coarse-grained (Qa).
							8		
	4 8 9			10.1	1.0		10		Sand (SW); grayish brown, dry, medium dense, fine- to coarse-grained with gravel (Qa).
							12		
							14		Terminated at ~11.5 Feet bgs.
							16		No Bedrock Encountered.
							18		No Groundwater or Seepage Encountered.
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		



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BORE LOG

Equipment: John Deere 30 Date Drilled: 12/15/2022

Elevation: 2,500 Ft. MSL Boring No: BH-9

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM) to Sand (SP); yellowish brown to grayish brown, dry, fine- to coarse-grained with gravel (Qa).
						4			
							6		
							8		Terminated at ~7.0 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED 32 LOT RESIDENTIAL DEVELOPMENT
EAST BROADWAY STREET, JOSHUA TREE AREA

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Sladden Engineering

BORE LOG

Equipment:	John Deere 30	Date Drilled:	12/15/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-10

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM) to Sand (SP); yellowish brown, dry, fine- to coarse-grained with gravel (Qa).
							4		
							6		
							8		Terminated at ~7.5 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		



Sladden Engineering

BORE LOG

Equipment:	John Deere 30	Date Drilled:	12/15/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-11

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM) to Sand (SP); yellowish brown, dry, fine- to coarse-grained with gravel (Qa).
							4		
							6		
							8		
							10		Terminated at ~8.5 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		



Sladden Engineering

BORE LOG

Equipment: John Deere 30 Date Drilled: 12/15/2022

Elevation: 2,500 Ft. MSL Boring No: BH-12

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Sand (SP); grayish brown, dry, fine- to coarse-grained with gravel (Qa).
						4	6		
							8		
							10		Terminated at ~8.0 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED 32 LOT RESIDENTIAL DEVELOPMENT
EAST BROADWAY STREET, JOSHUA TREE AREA

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BORE LOG

Equipment: John Deere 30 Date Drilled: 12/15/2022

Elevation: 2,500 Ft. MSL Boring No: BH-13

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM) to Sand (SP); yellowish brown to grayish brown, dry, fine- to coarse-grained with gravel (Qa).
						4			
						6			
						8			
						10			
						12			
						14			
						16			
						18			
						20			
						22		Terminated at ~8.5 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.	
						24			
						26			
						28			
						30			
						32			
						34			
						36			
						38			
						40			
						42			
						44			
						46			
						48			
						50			

Completion Notes:

PROPOSED 32 LOT RESIDENTIAL DEVELOPMENT
EAST BROADWAY STREET, JOSHUA TREE AREA

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BORE LOG

Equipment:	John Deere 30	Date Drilled:	12/15/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-14

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM) to Sand (SP); yellowish brown to grayish brown, dry, fine- to coarse-grained (Qa).
							4		
							6		
							8		
							10		
							12		
							14		
							16		
							18		
							20	Terminated at ~9.0 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.	
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		



Sladden Engineering

BORE LOG

Equipment:	John Deere 30	Date Drilled:	12/15/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-15

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM) to Sand (SP); yellowish brown to grayish brown, dry, fine- to coarse-grained with gravel (Qa).
						4			
							6		
							8		
							10		Terminated at ~8.5 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		



Sladden Engineering

BORE LOG

Equipment:	John Deere 30	Date Drilled:	12/15/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-16

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2 4 6		Silty Sand (SM) to Sand (SP); yellowish brown to grayish brown, dry, fine- to coarse-grained with gravel (Qa).
							8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50		Terminated at ~6.0 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.

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BORE LOG

Equipment:	John Deere 30	Date Drilled:	12/15/2022
Elevation:	2,500 Ft. MSL	Boring No:	BH-17

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM) to Sand (SP); yellowish brown to grayish brown, dry, fine- to coarse-grained with gravel (Qa).
							4		
							6		
							8		Terminated at ~7.0 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		



Sladden Engineering

BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	P-1

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



Sladden Engineering

BORE LOG

Equipment: CME-75	Date Drilled: 11/22/2022
Elevation: 2,500 Ft. MSL	Boring No: P-2

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



Sladden Engineering

BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	P-3

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

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BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	P-4

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

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BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	P-5

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



Sladden Engineering

BORE LOG

Equipment: CME-75	Date Drilled: 11/22/2022
Elevation: 2,500 Ft. MSL	Boring No: P-6

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



Sladden Engineering

BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	P-7

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



Sladden Engineering

BORE LOG

Equipment:	CME-75	Date Drilled:	11/22/2022
Elevation:	2,500 Ft. MSL	Boring No:	P-8

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



Sladden Engineering

BORE LOG

Equipment: John Deere 30 Date Drilled: 12/15/2022

Elevation: 2,500 Ft. MSL Boring No: P-9

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

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BORE LOG

Equipment:	John Deere 30	Date Drilled:	12/15/2022
Elevation:	2,500 Ft. MSL	Boring No:	P-10

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

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 EAST BROADWAY STREET, JOSHUA TREE AREA

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BORE LOG

Equipment: John Deere 30 Date Drilled: 12/15/2022

Elevation: 2,500 Ft. MSL Boring No: P-11

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM) to Sand (SP); yellowish brown to grayish brown, dry, fine- to coarse-grained with gravel (Qa).
						4			
							6		Terminated at ~5.0 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Cased to Facilitate 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:



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BORE LOG

Equipment: John Deere 30 Date Drilled: 12/15/2022

Elevation: 2,500 Ft. MSL Boring No: P-12

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

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BORE LOG

Equipment:	John Deere 30	Date Drilled:	12/15/2022
Elevation:	2,500 Ft. MSL	Boring No:	P-13

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

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BORE LOG

Equipment:	John Deere 30	Date Drilled:	12/15/2022
Elevation:	2,500 Ft. MSL	Boring No:	P-14

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM) to Sand (SP); yellowish brown to grayish brown, dry, fine- to coarse-grained with gravel (Qa).
						4			
							6		Terminated at ~5.0 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Cased to Facilitate 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:

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BORE LOG

Equipment: John Deere 30 Date Drilled: 12/15/2022

Elevation: 2,500 Ft. MSL Boring No: P-15

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM) to Sand (SP); yellowish brown to grayish brown, dry, fine- to coarse-grained with gravel (Qa).
						4			
							6		Terminated at ~5.0 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Cased to Facilitate 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:

PROPOSED 32 LOT RESIDENTIAL DEVELOPMENT
EAST BROADWAY STREET, JOSHUA TREE AREA

Project No: 544-22471

Report No: 23-01-015



Sladden Engineering

BORE LOG

Equipment:	John Deere 30	Date Drilled:	12/15/2022
Elevation:	2,500 Ft. MSL	Boring No:	P-16

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM) to Sand (SP); yellowish brown to grayish brown, dry, fine- to coarse-grained with gravel (Qa).
						4			
							6		Terminated at ~5.0 Feet bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Cased to Facilitate 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:

PROPOSED 32 LOT RESIDENTIAL DEVELOPMENT
 EAST BROADWAY STREET, JOSHUA TREE AREA

Project No: 544-22471	Page 33
Report No: 23-01-015	



Sladden Engineering

BORE LOG

Equipment:	John Deere 30	Date Drilled:	12/15/2022
Elevation:	2,500 Ft. MSL	Boring No:	P-17

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

LEACH LINE DATA SHEETS

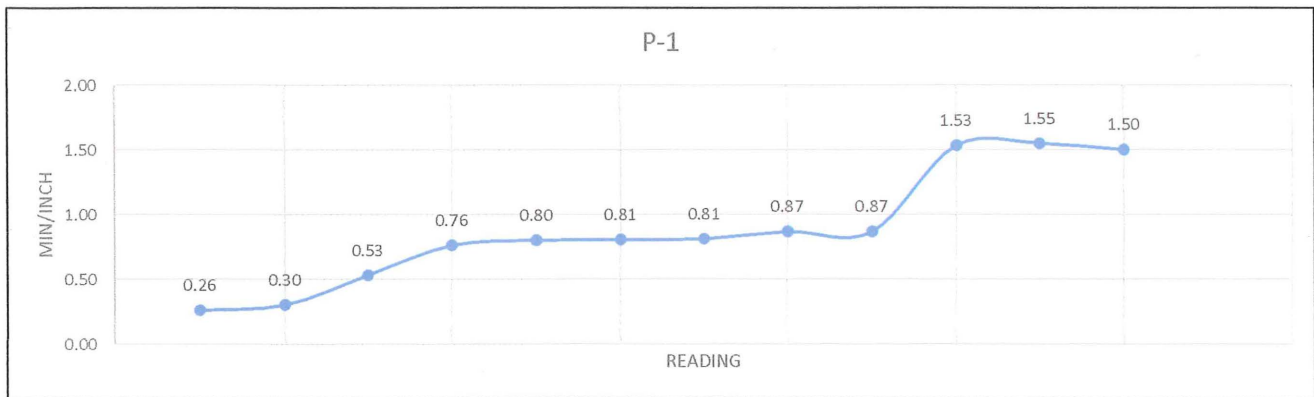
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/10/2022
 Test Hole #: P-1
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	10:00:00	10:03:07	0:03:07	5.00	12	0	12	0.26
B	10:04:00	10:07:36	0:03:36	5.00	12	0	12	0.30
C	10:08:15	10:10:54	0:02:39	5.00	8	3	5	0.53

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	10:11:30	10:13:47	0:02:17	5.00	8	5	3	0.76
2	10:14:30	10:16:54	0:02:24	5.00	8	5	3	0.80
3	10:17:30	10:19:55	0:02:25	5.00	8	5	3	0.81
4	10:20:30	10:22:56	0:02:26	5.00	8	5	3	0.81
5	10:23:30	10:26:06	0:02:36	5.00	8	5	3	0.87
6	10:27:00	10:29:36	0:02:36	5.00	8	5	3	0.87
7	10:30:15	10:31:47	0:01:32	5.00	8	7	1	1.53
8	10:32:15	10:33:48	0:01:33	5.00	8	7	1	1.55
9	10:34:15	10:35:45	0:01:30	5.00	8	7	1	1.50

*Initial Water level of 8-inches



Rate (Min/Inch): 1.50

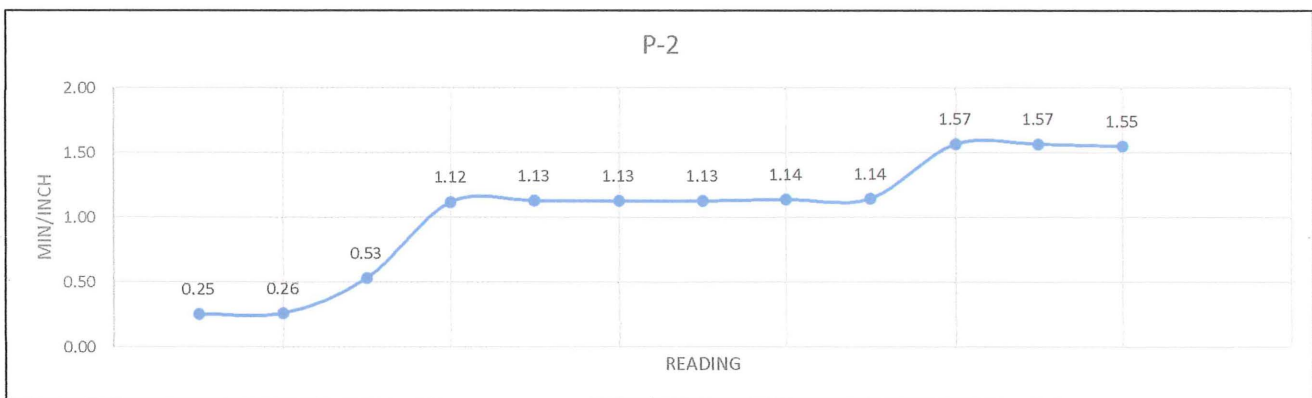
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/10/2022
 Test Hole #: P-2
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	10:40:00	10:43:02	0:03:02	5.00	12	0	12	0.25
B	10:44:00	10:47:06	0:03:06	5.00	12	0	12	0.26
C	10:48:15	10:50:54	0:02:39	5.00	8	3	5	0.53

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	10:51:00	10:54:21	0:03:21	5.00	8	5	3	1.12
2	10:55:30	10:58:53	0:03:23	5.00	8	5	3	1.13
3	10:59:30	11:02:53	0:03:23	5.00	8	5	3	1.13
4	11:04:00	11:07:23	0:03:23	5.00	8	5	3	1.13
5	11:08:15	11:11:40	0:03:25	5.00	8	5	3	1.14
6	11:12:15	11:15:41	0:03:26	5.00	8	5	3	1.14
7	11:17:15	11:18:49	0:01:34	5.00	8	7	1	1.57
8	11:19:15	11:20:49	0:01:34	5.00	8	7	1	1.57
9	11:21:15	11:22:48	0:01:33	5.00	8	7	1	1.55

*Initial Water level of 8-inches



Rate (Min/Inch): 1.55

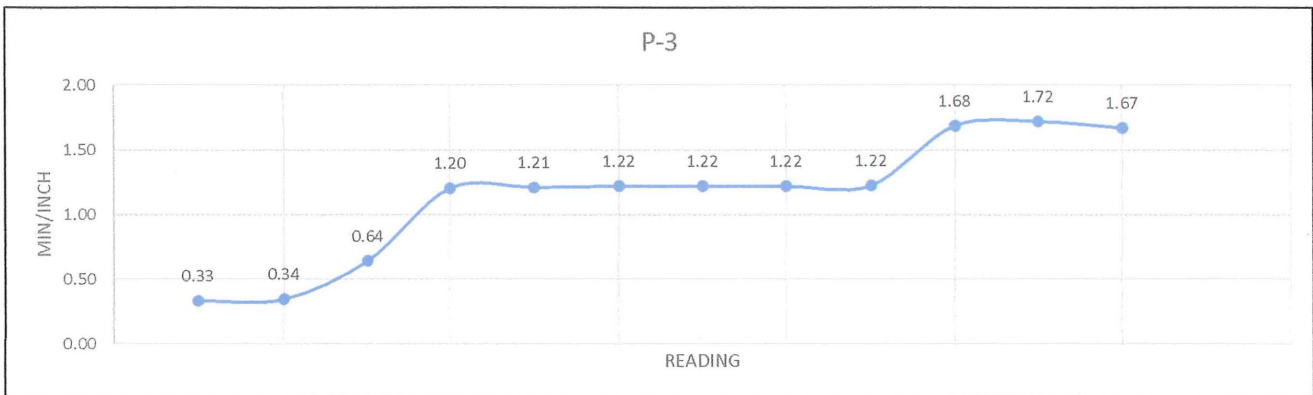
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/10/2022
 Test Hole #: P-3
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	11:28:00	11:31:57	0:03:57	5.00	12	0	12	0.33
B	11:32:15	11:36:22	0:04:07	5.00	12	0	12	0.34
C	11:37:15	11:40:27	0:03:12	5.00	8	3	5	0.64

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	11:31:30	11:35:06	0:03:36	5.00	8	5	3	1.20
2	11:36:30	11:40:07	0:03:37	5.00	8	5	3	1.21
3	11:41:00	11:44:39	0:03:39	5.00	8	5	3	1.22
4	11:45:15	11:48:54	0:03:39	5.00	8	5	3	1.22
5	11:49:20	11:52:59	0:03:39	5.00	8	5	3	1.22
6	11:53:35	11:57:15	0:03:40	5.00	8	5	3	1.22
7	11:59:00	12:00:41	0:01:41	5.00	8	7	1	1.68
8	12:01:00	12:02:43	0:01:43	5.00	8	7	1	1.72
9	12:03:00	12:04:40	0:01:40	5.00	8	7	1	1.67

*Initial Water level of 8-inches



Rate (Min/Inch): 1.67

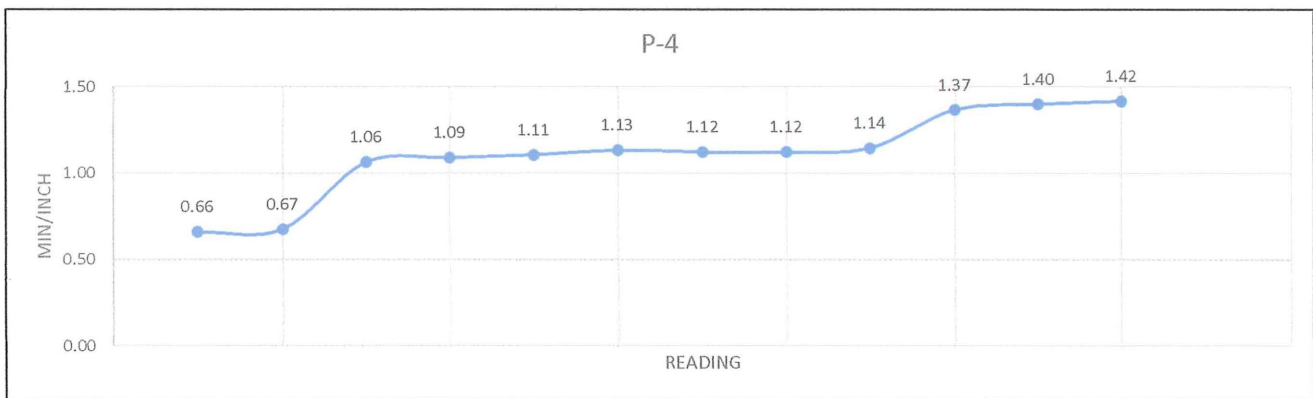
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/10/2022
 Test Hole #: P-4
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	12:10:00	12:17:54	0:07:54	5.00	12	0	12	0.66
B	12:18:45	12:26:51	0:08:06	5.00	12	0	12	0.67
C	12:28:00	12:33:19	0:05:19	5.00	8	3	5	1.06

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	12:34:00	12:37:16	0:03:16	5.00	8	5	3	1.09
2	12:38:00	12:41:19	0:03:19	5.00	8	5	3	1.11
3	12:42:00	12:45:24	0:03:24	5.00	8	5	3	1.13
4	12:46:00	12:49:22	0:03:22	5.00	8	5	3	1.12
5	12:50:15	12:53:37	0:03:22	5.00	8	5	3	1.12
6	12:54:00	12:57:26	0:03:26	5.00	8	5	3	1.14
7	13:00:00	13:01:22	0:01:22	5.00	8	7	1	1.37
8	13:02:00	13:03:24	0:01:24	5.00	8	7	1	1.40
9	13:04:00	13:05:25	0:01:25	5.00	8	7	1	1.42

*Initial Water level of 8-inches



Rate (Min/Inch): 1.42

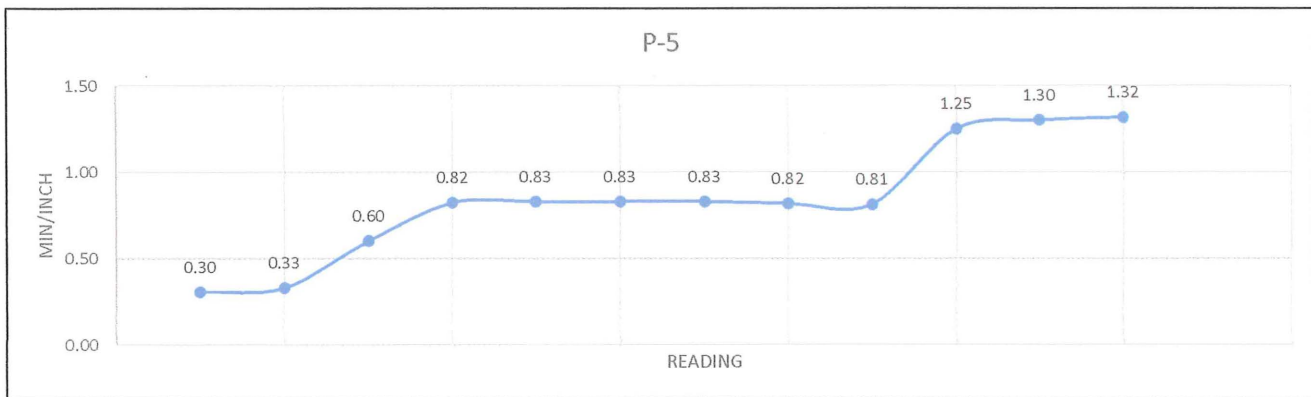
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/10/2022
 Test Hole #: P-5
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	13:10:00	13:13:39	0:03:39	5.00	12	0	12	0.30
B	13:14:10	13:18:06	0:03:56	5.00	12	0	12	0.33
C	13:19:00	13:22:00	0:03:00	5.00	8	3	5	0.60

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	13:23:00	13:25:28	0:02:28	5.00	8	5	3	0.82
2	13:25:55	13:28:24	0:02:29	5.00	8	5	3	0.83
3	13:30:00	13:32:29	0:02:29	5.00	8	5	3	0.83
4	13:33:10	13:35:39	0:02:29	5.00	8	5	3	0.83
5	13:36:15	13:38:42	0:02:27	5.00	8	5	3	0.82
6	13:40:10	13:42:36	0:02:26	5.00	8	5	3	0.81
7	13:44:00	13:45:15	0:01:15	5.00	8	7	1	1.25
8	13:46:10	13:47:28	0:01:18	5.00	8	7	1	1.30
9	13:48:00	13:49:19	0:01:19	5.00	8	7	1	1.32

*Initial Water level of 8-inches



Rate (Min/Inch): 1.32

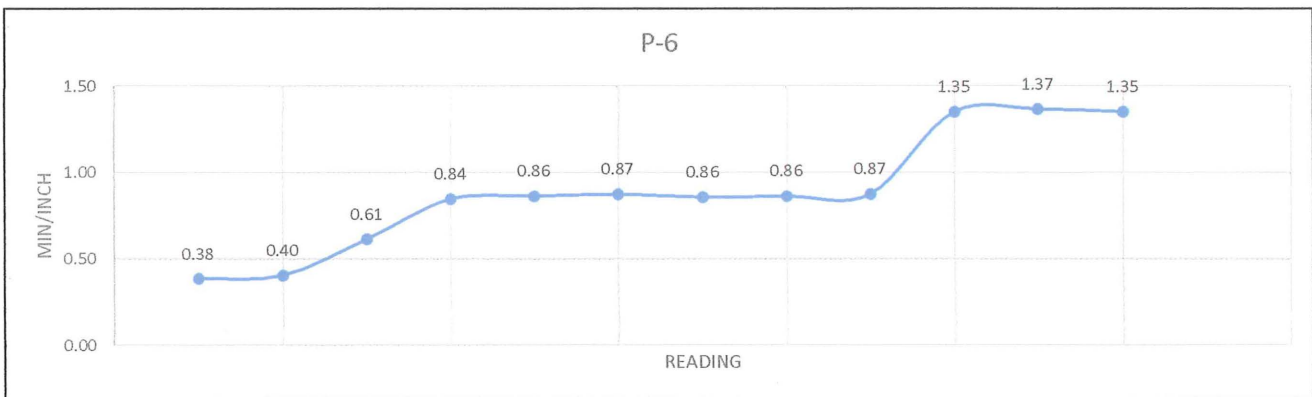
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/10/2022
 Test Hole #: P-6
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	14:05:00	14:08:50	0:03:50	5.00	12	2	10	0.38
B	14:10:00	14:14:02	0:04:02	5.00	12	2	10	0.40
C	14:16:00	14:19:04	0:03:04	5.00	8	3	5	0.61

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	14:20:15	14:22:47	0:02:32	5.00	8	5	3	0.84
2	14:23:15	14:25:50	0:02:35	5.00	8	5	3	0.86
3	14:26:30	14:29:07	0:02:37	5.00	8	5	3	0.87
4	14:31:10	14:33:44	0:02:34	5.00	8	5	3	0.86
5	14:34:10	14:36:45	0:02:35	5.00	8	5	3	0.86
6	14:37:30	14:40:07	0:02:37	5.00	8	5	3	0.87
7	14:41:00	14:42:21	0:01:21	5.00	8	7	1	1.35
8	14:44:00	14:45:22	0:01:22	5.00	8	7	1	1.37
9	14:46:00	14:47:21	0:01:21	5.00	8	7	1	1.35

*Initial Water level of 8-inches



Rate (Min/Inch): 1.35



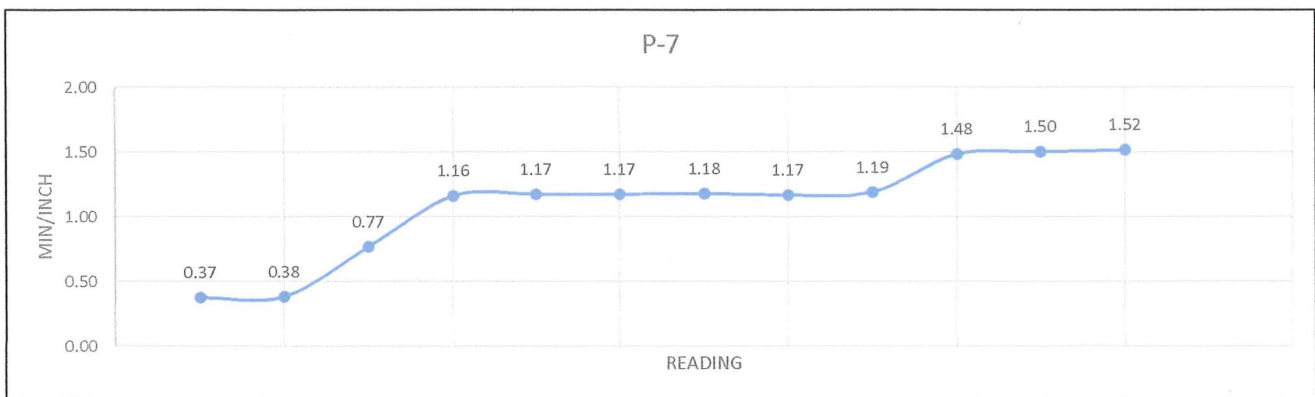
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/10/2022
 Test Hole #: P-7
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	14:48:10	14:52:39	0:04:29	5.00	12	0	12	0.37
B	14:53:10	14:57:44	0:04:34	5.00	12	0	12	0.38
C	14:58:15	15:02:05	0:03:50	5.00	8	3	5	0.77

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	15:03:10	15:06:39	0:03:29	5.00	8	5	3	1.16
2	15:07:30	15:11:01	0:03:31	5.00	8	5	3	1.17
3	15:13:10	15:16:41	0:03:31	5.00	8	5	3	1.17
4	15:17:10	15:20:42	0:03:32	5.00	8	5	3	1.18
5	15:21:15	15:24:45	0:03:30	5.00	8	5	3	1.17
6	15:25:10	15:28:44	0:03:34	5.00	8	5	3	1.19
7	15:29:15	15:30:44	0:01:29	5.00	8	7	1	1.48
8	15:31:15	15:32:45	0:01:30	5.00	8	7	1	1.50
9	15:33:15	15:34:46	0:01:31	5.00	8	7	1	1.52

*Initial Water level of 8-inches



Rate (Min/Inch): 1.52

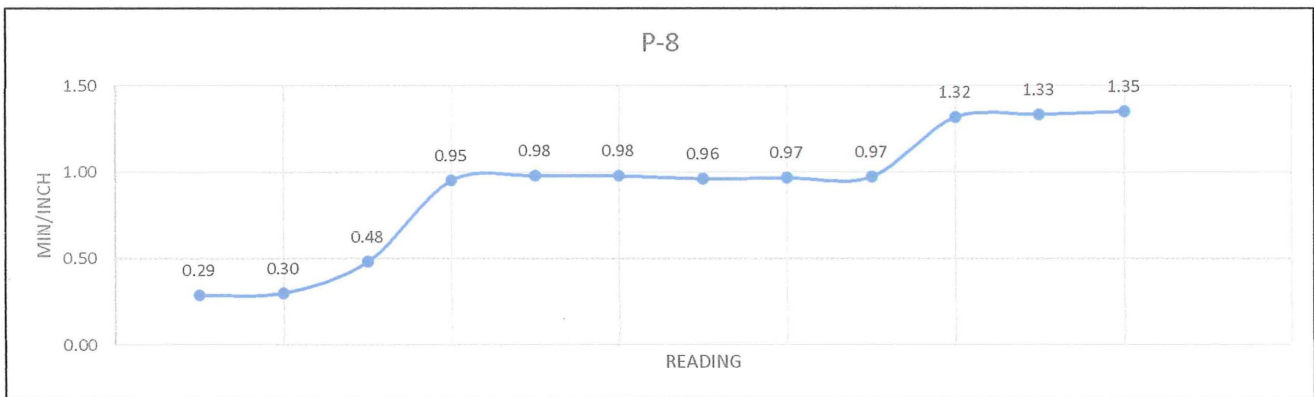
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/10/2022
 Test Hole #: P-8
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	15:45:00	15:48:26	0:03:26	5.00	12	0	12	0.29
B	15:51:00	15:54:34	0:03:34	5.00	12	0	12	0.30
C	15:55:15	15:57:39	0:02:24	5.00	8	3	5	0.48

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	16:05:00	16:07:51	0:02:51	5.00	8	5	3	0.95
2	16:09:00	16:11:56	0:02:56	5.00	8	5	3	0.98
3	16:13:00	16:15:56	0:02:56	5.00	8	5	3	0.98
4	16:16:15	16:19:08	0:02:53	5.00	8	5	3	0.96
5	16:20:00	16:22:54	0:02:54	5.00	8	5	3	0.97
6	16:23:30	16:26:25	0:02:55	5.00	8	5	3	0.97
7	16:27:00	16:28:19	0:01:19	5.00	8	7	1	1.32
8	16:29:15	16:30:35	0:01:20	5.00	8	7	1	1.33
9	16:31:10	16:32:31	0:01:21	5.00	8	7	1	1.35

*Initial Water level of 8-inches



Rate (Min/Inch): 1.35

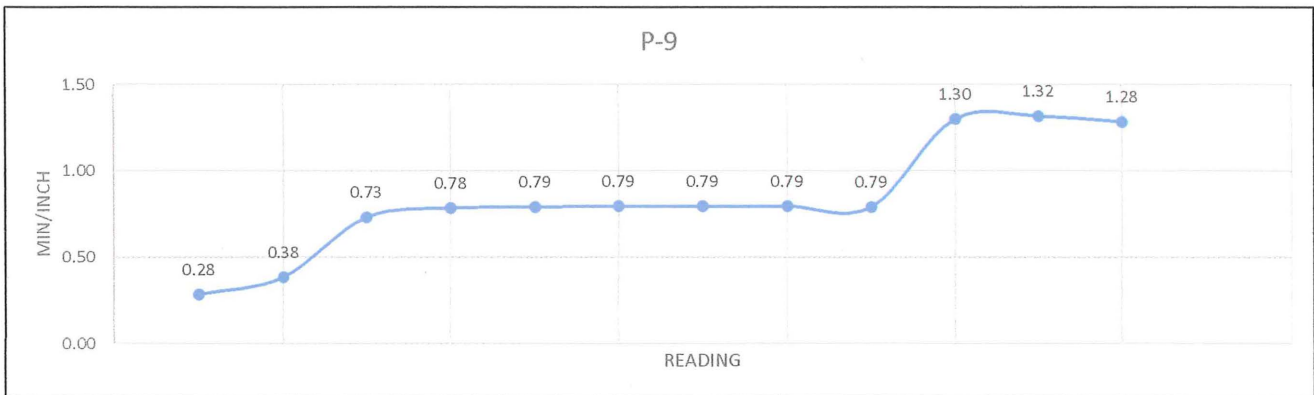
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/15/2022
 Test Hole #: P-9
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	9:15:00	9:18:23	0:03:23	5.00	12	0	12	0.28
B	9:21:10	9:25:45	0:04:35	5.00	12	0	12	0.38
C	9:26:10	9:29:49	0:03:39	5.00	8	3	5	0.73

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	9:30:30	9:32:51	0:02:21	5.00	8	5	3	0.78
2	9:33:00	9:35:22	0:02:22	5.00	8	5	3	0.79
3	9:36:10	9:38:33	0:02:23	5.00	8	5	3	0.79
4	9:39:15	9:41:38	0:02:23	5.00	8	5	3	0.79
5	9:42:00	9:44:23	0:02:23	5.00	8	5	3	0.79
6	9:45:00	9:47:22	0:02:22	5.00	8	5	3	0.79
7	9:48:10	9:49:28	0:01:18	5.00	8	7	1	1.30
8	9:50:00	9:51:19	0:01:19	5.00	8	7	1	1.32
9	9:52:09	9:53:26	0:01:17	5.00	8	7	1	1.28

*Initial Water level of 8-inches



Rate (Min/Inch): 1.28

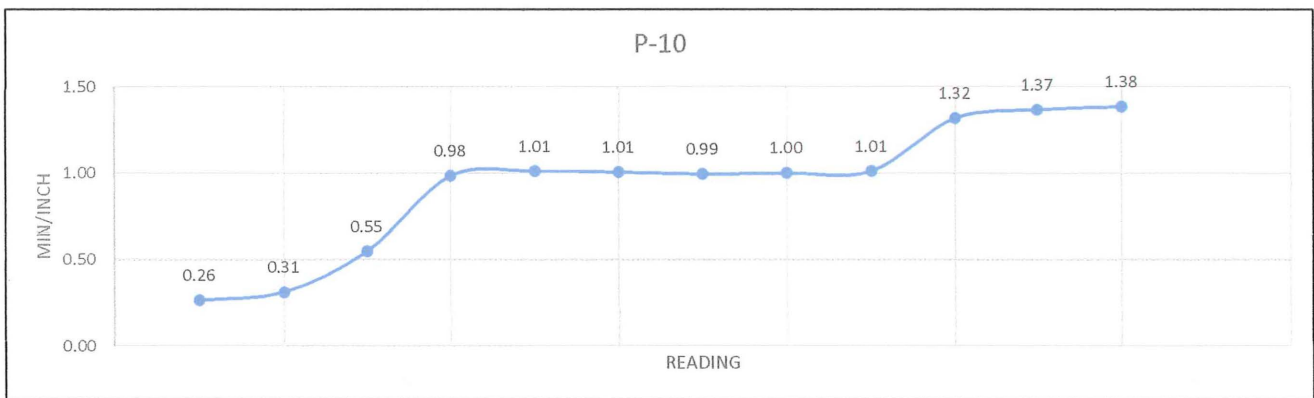
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/15/2022
 Test Hole #: P-10
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	10:15:00	10:18:09	0:03:09	5.00	12	0	12	0.26
B	10:18:45	10:22:28	0:03:43		12	0	12	0.31
C	10:22:50	10:25:34	0:02:44		8	3	5	0.55

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	10:27:15	10:30:12	0:02:57	5.00	8	5	3	0.98
2	10:31:10	10:34:12	0:03:02	5.00	8	5	3	1.01
3	10:35:00	10:38:01	0:03:01	5.00	8	5	3	1.01
4	10:38:45	10:41:44	0:02:59	5.00	8	5	3	0.99
5	10:42:15	10:45:15	0:03:00	5.00	8	5	3	1.00
6	10:46:10	10:49:12	0:03:02	5.00	8	5	3	1.01
7	10:50:45	10:52:04	0:01:19	5.00	8	7	1	1.32
8	10:53:45	10:55:07	0:01:22	5.00	8	7	1	1.37
9	10:56:00	10:57:23	0:01:23	5.00	8	7	1	1.38

*Initial Water level of 8-inches



Rate (Min/Inch): 1.38

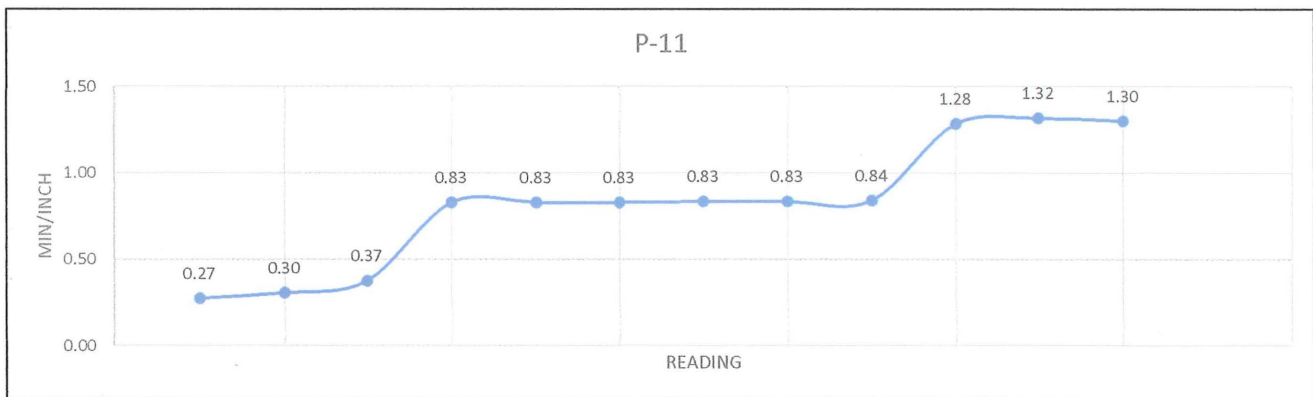
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/15/2022
 Test Hole #: P-11
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D.

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	11:30:00	11:33:15	0:03:15	5.00	12		12	0.27
B	11:34:15	11:37:54	0:03:39	5.00	12		12	0.30
C	11:38:15	11:41:14	0:02:59	5.00	8		8	0.37

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	11:42:10	11:44:39	0:02:29	5.00	8	5	3	0.83
2	11:45:15	11:47:44	0:02:29	5.00	8	5	3	0.83
3	11:48:30	11:50:59	0:02:29	5.00	8	5	3	0.83
4	11:51:35	11:54:05	0:02:30	5.00	8	5	3	0.83
5	11:55:00	11:57:30	0:02:30	5.00	8	5	3	0.83
6	11:58:10	12:00:41	0:02:31	5.00	8	5	3	0.84
7	12:01:10	12:02:27	0:01:17	5.00	8	7	1	1.28
8	12:03:00	12:04:19	0:01:19	5.00	8	7	1	1.32
9	12:04:45	12:06:03	0:01:18	5.00	8	7	1	1.30

*Initial Water level of 8-inches



Rate (Min/Inch): 1.30



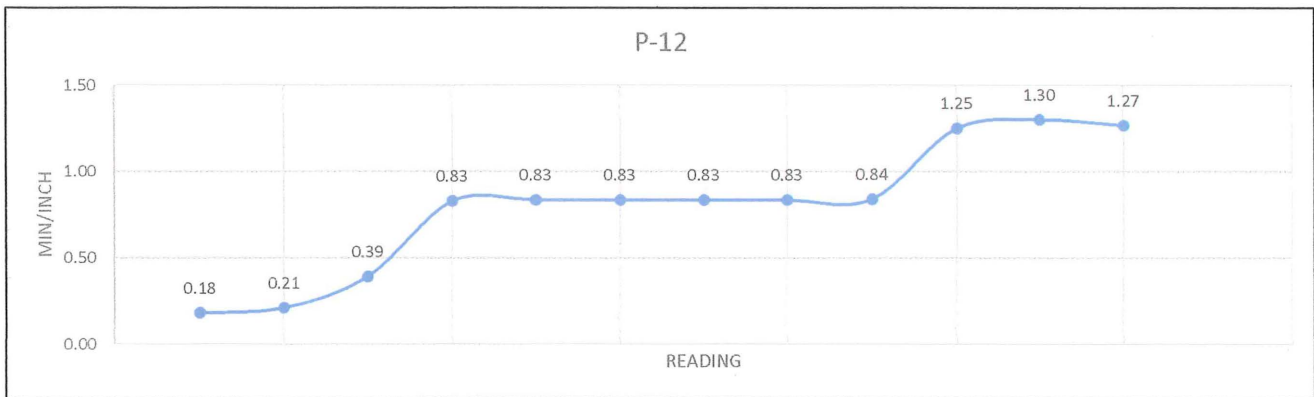
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/15/2022
 Test Hole #: P-12
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D.

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	12:18:00	12:20:09	0:02:09	5.00	12	0	12	0.18
B	12:22:10	12:24:40	0:02:30	5.00	12	0	12	0.21
C	12:16:00	12:17:57	0:01:57	5.00	8	3	5	0.39

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	12:18:30	12:20:59	0:02:29	5.00	8	5	3	0.83
2	12:21:30	12:24:00	0:02:30	5.00	8	5	3	0.83
3	12:25:00	12:27:30	0:02:30	5.00	8	5	3	0.83
4	12:28:10	12:30:40	0:02:30	5.00	8	5	3	0.83
5	12:31:10	12:33:40	0:02:30	5.00	8	5	3	0.83
6	12:35:00	12:37:31	0:02:31	5.00	8	5	3	0.84
7	12:38:15	12:39:30	0:01:15	5.00	8	7	1	1.25
8	12:40:10	12:41:28	0:01:18	5.00	8	7	1	1.30
9	12:42:10	12:43:26	0:01:16	5.00	8	7	1	1.27

*Initial Water level of 8-inches



Rate (Min/Inch): 1.27

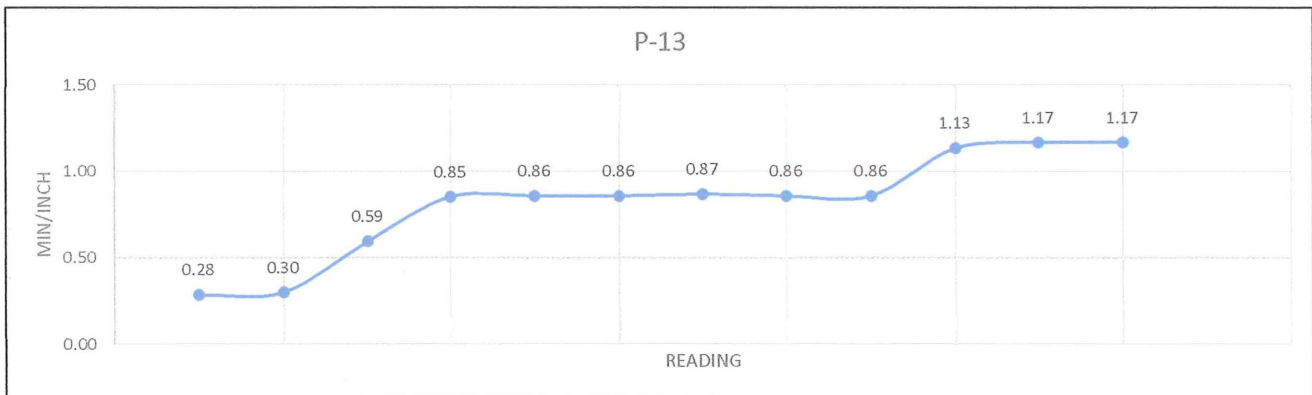
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/15/2022
 Test Hole #: P-13
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D.

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	13:45:00	13:48:24	0:03:24	5.00	12	0	12	0.28
B	13:49:10	13:52:44	0:03:34	5.00	12	0	12	0.30
C	13:53:15	13:56:13	0:02:58	5.00	8	3	5	0.59

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	13:57:00	13:59:33	0:02:33	5.00	8	5	3	0.85
2	14:01:00	14:03:34	0:02:34	5.00	8	5	3	0.86
3	14:04:10	14:06:44	0:02:34	5.00	8	5	3	0.86
4	14:07:15	14:09:51	0:02:36	5.00	8	5	3	0.87
5	14:10:52	14:13:26	0:02:34	5.00	8	5	3	0.86
6	14:14:00	14:16:34	0:02:34	5.00	8	5	3	0.86
7	14:17:15	14:18:23	0:01:08	5.00	8	7	1	1.13
8	14:19:00	14:20:10	0:01:10	5.00	8	7	1	1.17
9	14:21:00	14:22:10	0:01:10	5.00	8	7	1	1.17

*Initial Water level of 8-inches



Rate (Min/Inch): 1.17

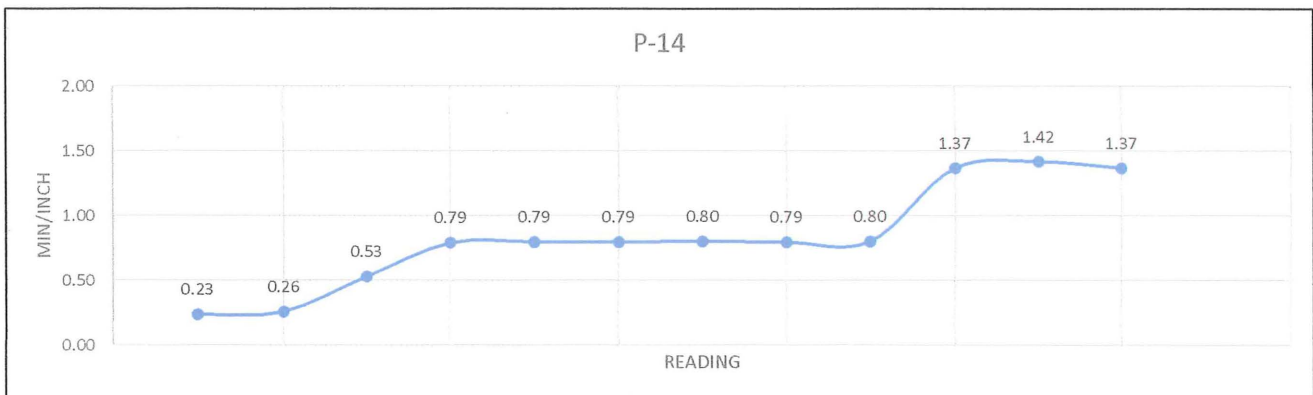
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/15/2022
 Test Hole #: P-14
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D.

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	14:30:00	14:32:49	0:02:49	5.00	12	0	12	0.23
B	14:33:00	14:36:04	0:03:04	5.00	12	0	12	0.26
C	14:37:00	14:39:38	0:02:38	5.00	8	3	5	0.53

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	14:40:30	14:42:52	0:02:22	5.00	8	5	3	0.79
2	14:43:30	14:45:53	0:02:23	5.00	8	5	3	0.79
3	14:46:15	14:48:38	0:02:23	5.00	8	5	3	0.79
4	14:49:15	14:51:39	0:02:24	5.00	8	5	3	0.80
5	14:52:00	14:54:23	0:02:23	5.00	8	5	3	0.79
6	14:55:00	14:57:24	0:02:24	5.00	8	5	3	0.80
7	14:49:10	14:50:32	0:01:22	5.00	8	7	1	1.37
8	14:51:00	14:52:25	0:01:25	5.00	8	7	1	1.42
9	14:53:00	14:54:22	0:01:22	5.00	8	7	1	1.37

*Initial Water level of 8-inches



Rate (Min/Inch): 1.37

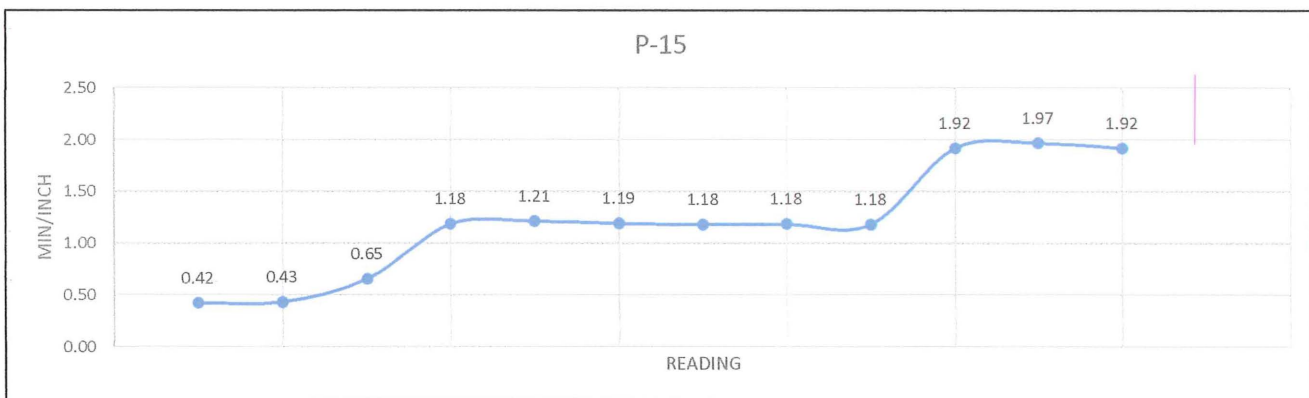
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/15/2022
 Test Hole #: P-15
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D.

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	15:10:00	15:15:03	0:05:03	5.00	12	0	12	0.42
B	15:17:08	15:22:17	0:05:09	5.00	12	0	12	0.43
C	15:23:55	15:27:11	0:03:16	5.00	8	3	5	0.65

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	15:28:00	15:31:33	0:03:33	5.00	8	5	3	1.18
2	15:32:10	15:35:48	0:03:38	5.00	8	5	3	1.21
3	15:37:00	15:40:34	0:03:34	5.00	8	5	3	1.19
4	15:41:10	15:44:42	0:03:32	5.00	8	5	3	1.18
5	15:45:15	15:48:48	0:03:33	5.00	8	5	3	1.18
6	15:49:15	15:52:47	0:03:32	5.00	8	5	3	1.18
7	15:53:20	15:55:15	0:01:55	5.00	8	7	1	1.92
8	15:56:30	15:58:28	0:01:58	5.00	8	7	1	1.97
9	15:59:00	16:00:55	0:01:55	5.00	8	7	1	1.92

*Initial Water level of 8-inches



Rate (Min/Inch): 1.92

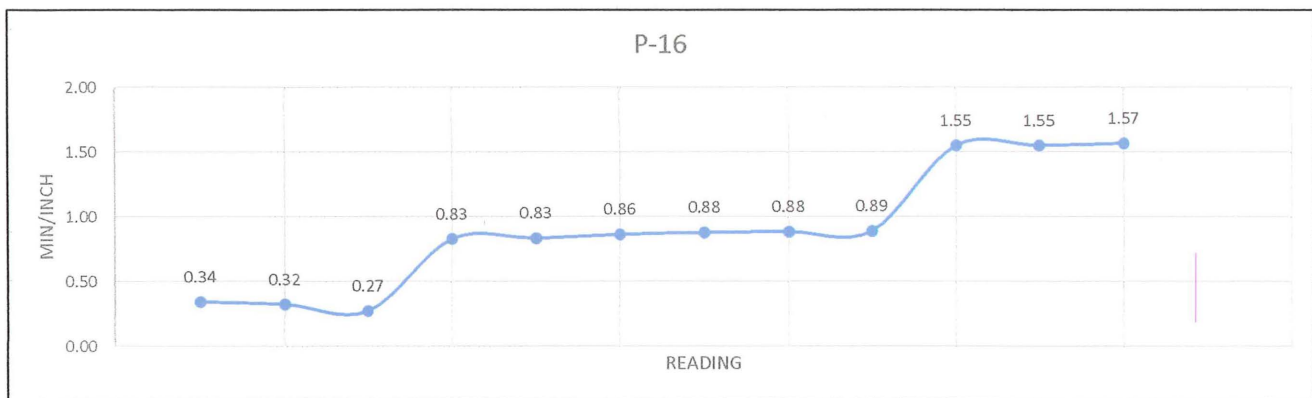
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/15/2022
 Test Hole #: P-16
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D.

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	16:15:00	16:19:05	0:04:05	5.00	12		12	0.34
B	16:21:00	16:24:52	0:03:52	5.00	12		12	0.32
C	16:25:45	16:27:55	0:02:10	5.00	8		8	0.27

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	16:28:15	16:30:44	0:02:29	5.00	8	5	3	0.83
2	16:31:15	16:33:45	0:02:30	5.00	8	5	3	0.83
3	16:34:15	16:36:50	0:02:35	5.00	8	5	3	0.86
4	16:37:15	16:39:53	0:02:38	5.00	8	5	3	0.88
5	16:41:00	16:43:39	0:02:39	5.00	8	5	3	0.88
6	16:44:15	16:46:55	0:02:40	5.00	8	5	3	0.89
7	16:47:10	16:48:43	0:01:33	5.00	8	7	1	1.55
8	16:49:25	16:50:58	0:01:33	5.00	8	7	1	1.55
9	16:51:35	16:53:09	0:01:34	5.00	8	7	1	1.57

*Initial Water level of 8-inches



Rate (Min/Inch): 1.57

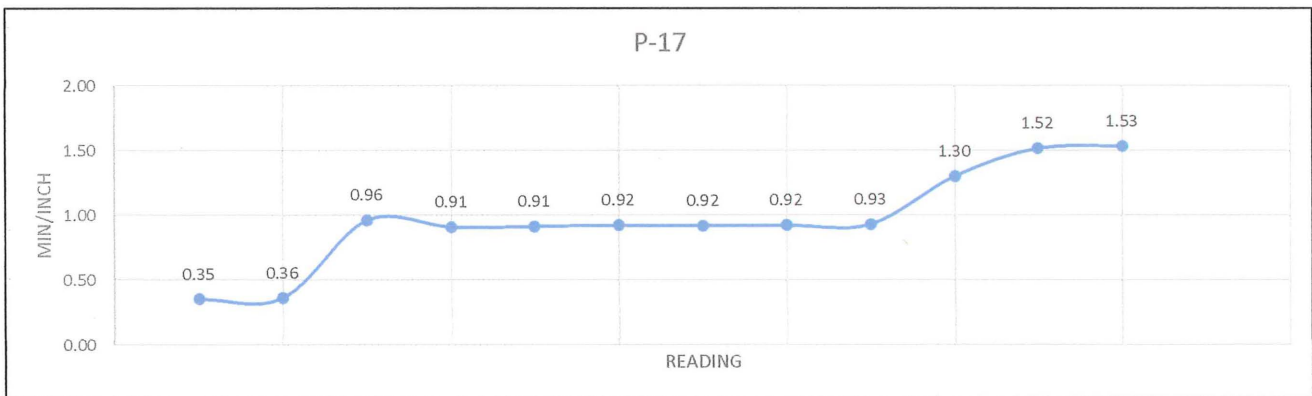
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Notification of Testing: 11/16/2022
 Project: SEC East Broa SEC East Broadway Street and Laferney Avenue, Joshua Tree Area
 Job No. : 544-22471
 Date: 12/15/2022
 Test Hole #: P-17
 Depth (ft): 5.00
 Disposal Area: Favorable
 USCS Soil Class: SM/SW/SP
 Tested By: E.S./S.D.

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	17:10:00	17:14:14	0:04:14	5.00	12	0	12	0.35
B	17:15:10	17:19:29	0:04:19	5.00	12	0	12	0.36
C	17:21:30	17:26:18	0:04:48	5.00	8	3	5	0.96

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	17:27:10	17:29:53	0:02:43	5.00	8	5	3	0.91
2	17:30:35	17:33:19	0:02:44	5.00	8	5	3	0.91
3	17:34:20	17:37:06	0:02:46	5.00	8	5	3	0.92
4	17:38:00	17:40:45	0:02:45	5.00	8	5	3	0.92
5	17:41:10	17:43:56	0:02:46	5.00	8	5	3	0.92
6	17:44:15	17:47:02	0:02:47	5.00	8	5	3	0.93
7	17:48:00	17:49:18	0:01:18	5.00	8	7	1	1.30
8	17:51:00	17:52:31	0:01:31	5.00	8	7	1	1.52
9	17:55:00	17:56:32	0:01:32	5.00	8	7	1	1.53

*Initial Water level of 8-inches



Rate (Min/Inch): 1.53

PERCOLATION TEST NOTIFICATION



Public Health
Environmental Health Services
PERCOLATION TEST NOTIFICATION

www.SBCounty.gov
www.sbcounty.gov/dph/dehs
Phone: (800) 442-2283



Please email form to EHS.CustomerService@dph.sbcounty.gov or fax to 909.387.4323 at least two (2) working days before testing.

THIS SECTION TO BE COMPLETED BY QUALIFIED PROFESSIONAL				
QUALIFIED PROFESSIONAL INFORMATION				
Firm Name Sladden Engineering			Date 11/16/2022	
Firm Address 45090 Golf Center Pkwy., Suite F		City Indio	State Ca	Zip 92201
Firm Contact Person James Minor		Email(s) jminor@sladdenengineering.com	Phone Number 760 863-0713	
SITE INFORMATION				
Owner's Name Four Star Realty		Assessor's Parcel Number (APN) 0605-051-01		
Site Address SWC Broadway St. & Sunever Rd.		City Joshua Tree	State Ca	Zip 92252
Email(s) kim@homeparadiserg.com			Phone Number 626 872-2566	
BILLING INFORMATION				
Environmental Health Services may need to be onsite to observe percolation testing. This will be billed at the current hourly professional rate. Provide billing information below or check one of the following: <input type="checkbox"/> Same as Qualified Professional Information <input checked="" type="checkbox"/> Same as Site Information				
Billing Name				
Billing Address		City	State	Zip
Email(s)			Phone Number	
PROJECT INFORMATION				
Disposal field	<input checked="" type="checkbox"/> Leach Lines <input type="checkbox"/> Seepage Pits <input type="checkbox"/> Alternative Treatment System			
Exploratory Boring(s)	Boring Date(s) 11/28/2022	Boring Time 8am	Number of Borings 15	Depth of Boring(s) in ft. 15 ft.
Testing	Test Date(s) 11/28/2022 & 11/29/2022	Test Time 8am	Number of Tests 18	Depth of Test Hole(s) in ft. 5 ft.
Project Type	<input checked="" type="checkbox"/> Single Family Residence <input type="checkbox"/> Multi Family Residential		<input type="checkbox"/> Commercial	
	Lot Size (ft ² /acres)	Number of Units		Lot Size (ft ² /acres)
		Lot Size (ft ² /acres)		Estimated Flow
	Please select one of the following <input type="checkbox"/> Tentative Tract (TT) # >50' <input type="checkbox"/> Tentative Parcel Map (TPM) # >50'			
	Number of Proposed Lots	Original Lot Size (ft ² /acres) >50'	Average New Lot Size (ft ² /acres)	
A sewer connection will be required if a sewer is available within 200 ft. of the nearest property line (add 100 ft. for each additional lot). A "sewer will not serve" letter may be required prior to submittal of the percolation report.				
Site Conditions	Historic groundwater level in feet >50'		Slope in disposal area (%) <30%	
	Source of Water <input type="checkbox"/> Private Well <input type="checkbox"/> Water Purveyor			
	<input type="checkbox"/> Check box if parcel is on Forest Service Land			
	<input type="checkbox"/> Check box if lot is within 100 feet of a river/stream			
For Office Use Only For Office Use Only For Office Use Only For Office Use Only For Office Use Only				
Fee:	FA Number:	Record ID:	PE Number:	
Late Fee: <input type="checkbox"/> Y <input type="checkbox"/> N	Designated Employee:	Received By:	Date:	
Check One: <input type="checkbox"/> New <input type="checkbox"/> Transfer <input type="checkbox"/> Reactivate			Changes (please specify):	