45090 Golf Center Parkway, Suite F, Indio, CA 92201 (760) 863-0713 Fax (760) 863-0847 6782 Stanton Avenue, Suite C, Buena Park, CA 90621 (714) 523-0952 Fax (714) 523-1369 450 Egan Avenue, Beaumont, CA 92223 (951) 845-7743 Fax (951) 845-8863 www.SladdenEngineering.com

February 14, 2022

Project No. 644-22003 22-02-023

Tulloch Holdings, LLC 32823 Temecula Parkway Temecula, California 92592

Project:

Proposed Residential Development

393 South Kirby Street APN 436-490-011 San Jacinto, California

Subject:

Infiltration Testing for On-Site Storm Water Management

In accordance with your request, we have performed infiltration testing on the subject site to evaluate the infiltration potential of the near surface soil to assist in storm water management system design. The infiltration rates determined by testing should be useful in the assessment of on-site storm water management needs. The approximate locations of the tests are indicated on the attached Test Location Plan (Figure 2).

Infiltration testing was performed on February 10, 2022 utilizing double ring infiltrometers. The tests were performed at depths of approximately 5.0 feet below the existing ground surface (bgs) for DR-1 & DR-2. The soil conditions encountered within the test hole locations consisted of silty sand (SM) and sandy silt (ML). Testing was performed in general accordance with the *Standard Test Method for Infiltration Rate of Soils in Field Using Double-Ring Infiltrometer* (ASTM D-3385).

INFILTRATION TEST RESULTS

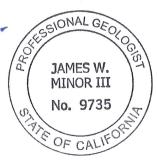
Test Location No.	Depth Below Existing Ground Surface (ft)	Infiltration Rate (in/hr)
DR-1	5.0	3.4
DR-2	5.0	1.7

The rates determined represent ultimate rates and an appropriate safety factor should be incorporated into the design to account for long-term saturation and potential "silting" of the surface soil. The safety factor should be determined with consideration to other factors considered in the storm water retention system design (specifically storm water volume estimates) and the safety factors associated with the related design components.

If you have any questions regarding this memo or the testing summarized herein, please contribute undersigned.

Respectfully submitted, SLADDEN ENGINEERING

James W. Minor III Senior Geologist



Brett L. Anderson Principal Engineer

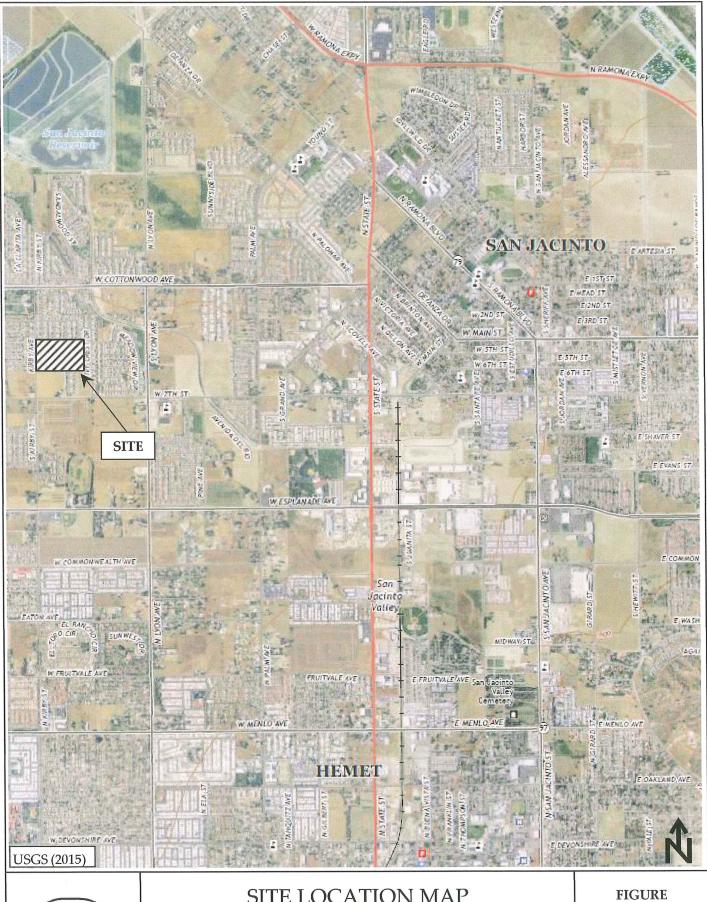
BRETT L. ANDERSON No. C45389

CIVIL

Copies: 4 / Addressee

FIGURES

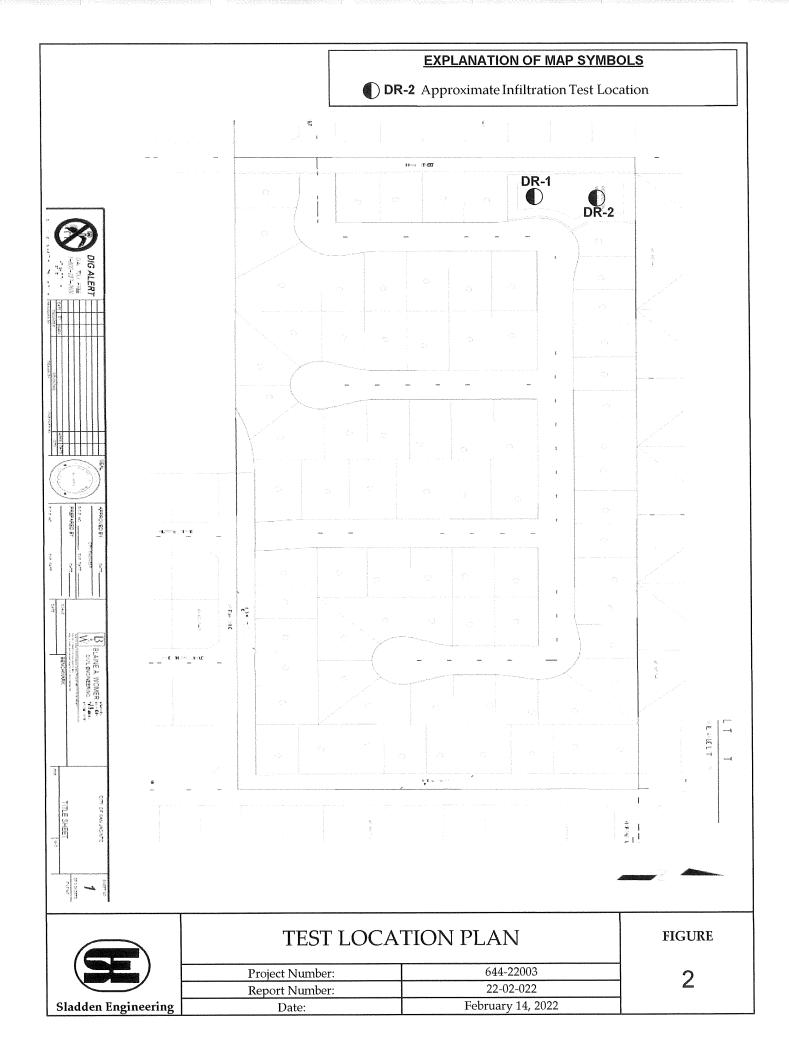
SITE LOCATION MAP
TEST LOCATION PLAN





SITE LOCATION MAP

644-22003 Project Number: 22-02-022 Report Number: February 14, 2022 Date:



APPENDIX A DOUBLE-RING TESTING DATA SHEETS

Job No. 644-22003		Hole DR-1													AVERAGE RATE" = 3.4	(in/hr)															
dol		Test Hole	_		_		_				-	_	_		T AVE	_	_	_	_		_	_		_	_	_	_	_	_	_	_
Vir	(in/hr)	5.0	3.1	2.6	2.3	7.8	1.7	1.7	1.6	<u>7.</u> 8.	1.7																				
Time	(hr)	0.25	0.25	0.25	0.25	0.50	0.50	0.50	0.50	0.50	0.50			7																	
Time	(min)	15	15	15	15	30	30	30	30	30	30																				
Area IR	(in2)	113.1	113.1	113.1	113.1	113.1	113.1	113.1	113.1	113.1	113.1																				
Volume		141.9	87.0	72.2	65.5	100.7	8.96	95.1	91.5	100.7	95.1																				
Area Mar.	(in2)	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9																				
Water		15.9	9.7	8.1	7.3	11.3	10.8	10.6	10.2	11.3	10.6							/													
Con Factor	(cm to in)	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39																				
Final	Water(cm)	9.9	22.1	25.6	27.3	17.6	19.3	19.6	18.2	17.7	19.4																				
IG Initial	Water(cm)	46.9	46.8	46.1	45.9	46.2	46.8	46.6	44.2	46.3	46.4																				
INNER RING			2	3	4	2	9	7	80	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30

Job No. 644-22003		Test Hole DR-2													AVERAGE RATE* = 1./	(in/hr)															
Vir	(in/hr)	5.3	3.1	2.6	2.4	3.6	1.6	1.7	1.6	1.7	1.7																				
Time	(hr)	0.25	0.25	0.25	0.25	0.25	0.50	0.50	0.50	0.50	0.50																				
Time	(min)	15	15	15	15	15	30	30	30	30	30																				
Area IR	(in2)	113.1	113.1	113.1	113.1	113.1	113.1	113.1	113.1	113.1	113.1																				
Volume	(in3)	149.3	86.3	72.5	66.5	101.7	93.3	95.4	90.1	94.4	96.5																				
Area Mar.	(in2)	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9																				
Water	(in)	16.7	9.6	8.1	7.4	11.4	10.4	10.7	10.1	10.6	10.8																				
Con. Factor	(cm to in)	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39																				
Final	Water(cm)	4.3	21.9	25.7	26.9	17.8	18.9	19.1	19.9	19.3	18.9																				
G Initial	Water(cm)	46.7	46.4	46.3	45.8	46.7	45.4	46.2	45.5	46.1	46.3																				
INNER RING Interval			2	8	4	2	9	7	∞	0	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30