



December 5, 2019

Project No. 19744-10A

Mr. Wayne Dollarhide  
**DIAMOND VALLEY PARTNERS, LLC**  
41197 Golden Gate Circle, Suite 201  
Murrieta, CA 92562

Subject: **Infiltration System Design Interpretive Report, Proposed Diamond Valley Storage, Assessor's Parcel Numbers 466-050-019, -020, & -021, Winchester Area, Riverside County, California**

In accordance with your request, CW Soils is pleased to present this infiltration system interpretive report for the proposed Diamond Valley Storage facility, Assessor's Parcel Numbers 466-050-019, -020, & -021, located in the Winchester area of Riverside County, California. The purpose of our feasibility study was to determine the onsite infiltration rates and physical characteristics of the subsurface soils within the vicinity of the proposed infiltration systems. We have provided guidelines for the design of onsite infiltration systems. This interpretive report is intended to provide onsite infiltration rates for the existing soils.

### **SITE DESCRIPTION**

The subject property consists of undeveloped land with relatively flat to hilly terrain. Topographic relief at the subject property is low to moderate.

### **PROPOSED DEVELOPMENT**

Based on information provided by you, the proposed improvements will consist of several buildings with associated interior driveways, utilities, and on-site infiltration areas.

## **SUBSURFACE EXPLORATION AND INFILTRATION TESTING**

### **SUBSURFACE EXPLORATION**

Subsurface exploration at the site consisted of five exploratory excavations to a maximum depth of 15 feet, conducted on May 8, 2006 to evaluate the subsurface earth materials. The exploratory holes were excavated and logged, see Appendix A. The approximate locations of the exploratory excavations are shown on the attached Infiltration Location Map, Plate 1.

### **INFILTRATION TESTING**

Aardvark Permeameter testing was utilized to conduct in-situ infiltration tests within the proposed basin on December 5, 2019 to evaluate the infiltration rates in order to estimate the amount of storm water runoff that can infiltrate into the proposed systems. The testing utilizes the constant head method with extremely accurate (0.2 ml resolution) hydraulic conductivity testing under saturated conditions, for the determination of reliable in-situ infiltration rates. Automated readings are taken at 1 minute intervals until the rate becomes constant and saturated hydraulic conductivity for the particular soil has been reached. This is reflected by the flattening of the curve generated by sample test data as shown on the Water Consumption Rate graph (Plot of Water Consumption Rate vs. Time) in Appendix B. Steady Flow Rate is achieved when the Water Consumption Rate changes less than +/- 5% for 3 consecutive readings.

The Aardvark Permeameter was utilized in replacement of the Guelph Permeameter as recommended by Soil Moisture Equipment Corporation, due to the higher reliability, accuracy, and ease of use. The Aardvark Permeameter is the latest version of the Guelph Permeameter.



The infiltration tests were conducted in a 3 inch diameter test hole, at depths of 2 to 3 feet deep. The approximate locations of the infiltration test holes are indicated on the attached Infiltration Location Map, Plate 1. Infiltration test holes were located by property boundary measurement on the site plan and/or by using geographic features. The test holes were filled with water and allowed to stand for an extended period of time.

Relatively shallow Aardvark Permeameter testing (P-1 & P-2) was conducted using the guidelines of the product instruction manuals. Stabilized infiltration test readings are summarized in the following table and more detailed test data recorded in the field can be found in Appendix

B. The test results are anticipated to be representative of the soils found in the vicinity of the test locations.

## INFILTRATION TEST SUMMARY

TEST NUMBER	TEST HOLE DIAMETER (in)	HOLE DEPTH (in)	INFILTRATION RATE (in/hr)	SOIL DESCRIPTION
P-1	3	3	0.29	Silty SAND
P-2	3	2	0.9	Silty SAND

## FINDINGS

### SOILS

A general description of the soils observed on site is provided below:

- Quaternary Old Alluvial Deposits (map symbol Qoa): Quaternary old alluvial deposits were encountered to a maximum depth of 13 feet. These alluvial deposits consist predominately of yellowish brown to dark brown, silty sand and sandy silt.

### GROUNDWATER

Groundwater was not observed during exploration of TP-2 excavated to a maximum depth of 15 feet on May 8, 2006.

## CONCLUSIONS AND RECOMMENDATIONS

### GENERAL

The shallow in-situ soils within the subject property were determined to have somewhat consistent infiltration properties in the areas tested. As a result, the recommended infiltration design rate is 0.6 in/hr.

## PLAN REVIEW AND CONSTRUCTION SERVICES

This report has been prepared for the exclusive use of **DIAMOND VALLEY PARTNERS, LLC** and their authorized representative. It is unlikely to contain sufficient information for other parties or other uses. CW Soils should be provided the opportunity to review the final design plans and specifications prior to construction, in order to verify that the recommendations have been properly incorporated into the project plans and specifications. If CW Soils is not accorded the opportunity to review the project plans and specifications, we are not responsible for misinterpretation of our recommendations.

We recommend that CW Soils be retained to provide soils engineering and engineering geologic services during the grading and foundation excavation phases of work, in order to allow for design changes in the event that the subsurface conditions differ from those anticipated prior to construction.

CW Soils should review any changes in the project and modify the conclusions and recommendations of this report in writing. This report along with the drawings contained within are intended for design input purposes only and are not intended to act as construction drawings or specifications. In the event that conditions during grading or construction operations appear to differ from those indicated in this report, our office should be notified immediately, as appropriate revisions may be required.

### **REPORT LIMITATIONS**

Our services were performed using the degree of care and skill ordinarily exercised, under similar circumstances, by reputable soils engineers and geologists, practicing at the time and location this report was prepared. No other warranty, expressed or implied, is made as to the conclusions and professional advice included in this report.

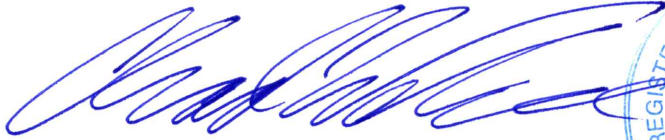
Soils vary in type, strength, and other engineering properties between points of observation and exploration. Groundwater and moisture conditions can also vary due to natural processes or the works of man on this or adjacent properties. As a result, we do not and cannot have complete knowledge of the subsurface conditions beneath the proposed project. No practical study can completely eliminate uncertainty with regard to the anticipated geologic and soils engineering conditions in connection with a proposed project. The conclusions and recommendations within this report are based upon the findings at the points of observation and are subject to confirmation by CW Soils based on the conditions revealed during grading and construction operations.

This report was prepared with the understanding that it is the responsibility of the owner, to ensure that the conclusions and recommendations contained herein are brought to the attention of the other project consultants and are incorporated into the plans and specifications. The owners' contractor should implement the recommendations in this report and notify the owner as well as our office if they consider any of the recommendations presented herein to be unsafe or unsuitable.

CW Soils appreciates the opportunity to offer our services on this project. If we can be of further assistance, please do not hesitate to contact the undersigned at your convenience.

Respectfully submitted,

CW Soils



Chad E. Welke, PG, CEG, PE  
Principal Geologist/Engineer



Distribution: (4) Addressee

Attachments: Appendix A – Exploration  
Appendix B – Infiltration Test Results  
Plate 1 – Infiltration Location Map (*Rear of Text*)

# **APPENDIX A**

## **EXPLORATION**

# KEY TO LOGS

DEFINITION OF TERMS									
PRIMARY DIVISIONS				SYMBOLS		SECONDARY DIVISIONS			
COARSE GRAINED SOILS MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE	CLEAN GRAVELS (LESS THAN 5% FINES)		GW	Well graded gravels, gravel-sand mixtures, little or no fines.				
				GP	Poorly graded gravels or gravel-sand mixtures, little or no fines.				
		GRAVEL WITH FINES		GM	Silty gravels, gravel-sand-silt mixtures, non-plastic fines.				
				GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines.				
	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE	CLEAN SANDS (LESS THAN 5% FINES)		SW	Well graded sands, gravelly sands, little or no fines.				
				SP	Poorly graded sands or gravelly sands, little or no fines.				
		SANDS WITH FINES		SM	Silty sands, sand-silt mixtures, non-plastic fines.				
				SC	Clayey sands, sand-clay mixtures, plastic fines.				
FINE GRAINED SOILS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS LIQUID LIMIT IS LESS THAN 50%			ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity.				
				CL	Inorganic clays or low to medium plasticity, gravelly clays, sandy clays, lean clays.				
				OL	Organic silts and organic silty clays of low plasticity.				
	SILTS AND CLAYS LIQUID LIMIT IS GREATER THAN 50%			MH	Inorganic sils, micaceous or diatomaceous fine sandy or silty soils, elastic silts.				
				CH	Inorganic clays of high plasticity, fat clays.				
				OH	Organic clays of medium to high plasticity, organic silts.				
				Pt	Peat and other highly organic soils				
HIGHLY ORGANIC SOILS									
GRAIN SIZES									
SILTS AND CLAYS		SAND			GRAVEL		COBBLES	BOULDERS	
		FINE	MEDIUM	COARSE	FINE	COARSE			
		200	40	10	4	¾"	3"	12"	
U.S. STANDARD SERIES SIEVE					CLEAR SQUARE SIEVE OPENINGS				

RELATIVE DENSITY	
SANDS, GRAVELS AND NON-PLASTIC SILTS	BLOWS/FOOT*
VERY LOOSE	0 - 4
LOOSE	4 - 10
MEDIUM DENSE	10 - 30
DENSE	30 - 60
VERY DENSE	OVER 50

CONSISTENCY		
CLAYS AND PLASTIC SILTS	STRENGTH**	BLOWS/FOOT*
VERY SOFT	0 - 1/4	0 - 2
SOFT	1/4 - 1/2	2 - 4
FIRM	1/2 - 1	4 - 8
STIFF	1 - 2	8 - 16
VERY STIFF	2 - 4	16 - 32
HARD	OVER 4	OVER 32

\* NUMBER OF BLOWS OF 140 POUND HAMMER FALLING 30-INCHES TO DRIVE A 2-INCH O.D. (1-3/8-INCH I.D.) SPLIT SPOON (ASTM D-1586).

\*\*UNCONFINED COMPRESSIVE STRENGTH IN TONS/SQ. FT. AS DETERMINED BY LABORATORY TESTING OR APPROXIMATED BY THE STANDARD PENETRATION TEST (ASTM D-1586), POCKET PENETROMETER, TORVANE, OR VISUAL OBSERVATION  
TYPES OF SAMPLES:

X - RING SAMPLE

I - STANDARD PENETRATION TEST

Y - BULK SAMPLE  
A

DRILLING NOTES:

## 1. SAMPLING AND BLOW COUNTS


RING SAMPLER - NUMBER OF BLOWS PER FOOT OF A 140 POUND HAMMER FALLING 30 INCHES.

STANDARD PENETRATION TEST - NUMBER OF BLOWS PER FOOT

## 2. NR = NO RECOVERY

LOGGED BY: JPF							METHOD OF EXCAVATION: CASE 580 SUPERM EXTENDA BACKHOE W/24" BUCKET ELEVATION:							DATE OBSERVED: 05/08/06  LOCATION: SEE GEOTECHNICAL MAP																																																																					
DEPTH (FEET)							CLASSIFICATION							BLOWS/FOOT							UNDISTURBED SAMPLE							BULK SAMPLE							MOISTURE CONTENT(%)							INPLACE DRY DENSITY (PCF)							TEST PIT NO. <u>1</u> DESCRIPTION														SOIL TEST																				
5																												V         ^																					<b>OLDER ALLUVIUM</b> SANDY SILT (ML): DARK YELLOWISH BROWN, SANDY IN PART, MOIST, MINOR PINPOINT PORES IN TOP 2-FT														MAXIMUM DENSITY/OPTIMUM MOISTURE (MAX), REMOLDED DIRECT SHEAR (DS), SIEVE ANALYSIS (SA), EXPANSION INDEX (EI), SAND EQUIVALENT (SE), R-VALUE TEST, CORROSIVITY SUITE (COR)																				
10																																										<b>GRANITIC BEDROCK</b> YELLOWISH BROWN, GRANULAR, FRIABLE, DENSE, BECOMING VERY DENSE WITH DEPTH, MODERATE EXCAVATION, BECOMING DIFFICULT AT 9.0-FT.																																									
15																																																								TOTAL DEPTH = 9.5' NO GROUNDWATER																											
20																																																																																			
25																																																																																			
30																																																																																			
35																																																																																			
40																																																																																			
JOB NO: 1037602.00														LOG OF TEST PIT														FIGURE: T-1																																																							

LOGGED BY: JPF							METHOD OF EXCAVATION: CASE 580 SUPERM EXTENDA BACKHOE W/24" BUCKET ELEVATION:							DATE OBSERVED: 05/08/06 LOCATION: SEE GEOTECHNICAL MAP													
DEPTH (FEET) CLASSIFICATION BLOWS/FOOT UNDISTURBED SAMPLE BULK SAMPLE MOISTURE CONTENT(%) INPLACE DRY DENSITY (PCF)							TEST PIT NO. <u>2</u> DESCRIPTION														SOIL TEST						
							<u>OLDER ALLUVIUM</u> SILT (ML): OLIVE BROWN, MOIST, MINOR PINPOINT PORES IN TOP 2-3 FT																				
5							SANDY SILT (ML): DARK BROWN, MOIST, MEDIUM DENSE, SANDY IN PART, MINOR CALCAREOUS VEINLETS																				
10																											
15							<u>GRANITIC BEDROCK</u> YELLOWISH BROWN, GRANULAR, DENSE, FRIABLE, BECOMING VERY DENSE @ 15.0-FT																				
20							TOTAL DEPTH = 15.0' NO GROUNDWATER																				
25																											
30																											
35																											
40																											
JOB NO: 1037602.00							LOG OF TEST PIT														FIGURE: T-2						

LOGGED BY: <u>JPF</u>							METHOD OF EXCAVATION: CASE 580 SUPERM EXTENDA BACKHOE W/24" BUCKET ELEVATION:		DATE OBSERVED: 05/08/06  LOCATION: SEE GEOTECHNICAL MAP	
DEPTH (FEET)	CLASSIFICATION	BLOWS/FOOT	UNDISTURBED SAMPLE	BULK SAMPLE	MOISTURE CONTENT(%)	INPLACE DRY DENSITY (PCF)	TEST PIT NO. <u>3</u> DESCRIPTION		SOIL TEST	
							<u>OLDER ALLUVIUM</u> SILTY SAND (SM): YELLOWISH BROWN, FINE TO MEDIUM GRAINED, MINOR COARSE, DRY, LOOSE, NUMEROUS PINPOINT PORES		MAX, DS, SA, EI, SE, COR  	
5							<u>GRANITIC BEDROCK</u> YELLOWISH BROWN, COARSE GRAINED, FRIABLE TO FRIABLE UNDER PRESSURE, VERY DENSE, BECOMING DIFFICULT EXCAVATION @ 7.0'			
10							TOTAL DEPTH = 7.0' NO GROUNDWATER			
15										
20										
25										
30										
35										
40										
JOB NO: 1037602.00							LOG OF TEST PIT		FIGURE: T-3	

LOGGED BY: JPF							METHOD OF EXCAVATION: CASE 580 SUPERM EXTENDA BACKHOE W/24" BUCKET ELEVATION:		DATE OBSERVED: 05/08/06  LOCATION: SEE GEOTECHNICAL MAP	
DEPTH (FEET)	CLASSIFICATION	BLOWS/FOOT	UNDISTURBED SAMPLE	BULK SAMPLE	MOISTURE CONTENT(%)	IN PLACE DRY DENSITY (PCF)	TEST PIT NO. <u>4</u> DESCRIPTION			SOIL TEST
							<u>OLDER ALLUVIUM</u> SANDY SILT (ML): OLIVE BROWN, DRY, SNADY IN PART, OCCASIONAL ANGULAR ROCK FRAGMENTS TO 4" IN DIAMETER, NUMEROUS PINPOINT PORES			
5							<u>GRANITIC BEDROCK</u> YELLOWISH BROWN, COARSE GRAINED, DENSE, FRIABLE, BECOMING DENSER WITH DEPTH			
10							TOTAL DEPTH = 7.0' NO GROUNDWATER			
15										
20										
25										
30										
35										
40										
JOB NO: 1037602.00							LOG OF TEST PIT			FIGURE: T-4

LOGGED BY: JPF							METHOD OF EXCAVATION: CASE 580 SUPERM EXTENDA BACKHOE W/24" BUCKET ELEVATION:		DATE OBSERVED: 05/08/06  LOCATION: SEE GEOTECHNICAL MAP	
DEPTH (FEET)	CLASSIFICATION	BLOWS/FOOT	UNDISTURBED SAMPLE	BULK SAMPLE	MOISTURE CONTENT(%)	INPLACE DRY DENSITY (PCF)	TEST PIT NO. <u>5</u> DESCRIPTION			SOIL TEST
							<b>OLDER ALLUVIUM</b>  SILT (ML): DARK BROWN, LOOSE AND DRY IN TOP 1-2 FT, NUMEROUS PINPOINT PORES AND FINE ROOTS  SILT (ML): DARK BROWN, SLIGHTLY MOIST, DENSE, DIFFICULT EXCAVATION, ABUNDANT CALCAREOUS VEINLETS   <b>TOTAL DEPTH = 5.0'</b> <b>NO GROUNDWATER</b>			
5										
10										
15										
20										
25										
30										
35										
40										
JOB NO: 1037602.00							LOG OF TEST PIT			FIGURE: T-5

# **APPENDIX B**

## **INFILTRATION TEST RESULTS**



Location: 19744

Site: P1

Time interval between readings: 1 minute

Ksat Method: Glover Solution

Steady Flow Rate Condition

Steady Flow Rate achieved when Water Consumption Rate changes less than +/- 5 % for 3 consecutive readings

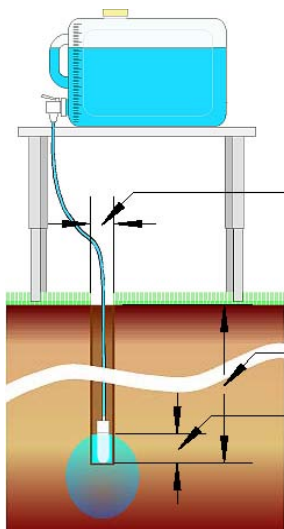
Steady Flow Rate: 130.475 ml/min

Temp. Adj. FR: 130.706 ml/min

Percolation Rate: 0.385 min/cm

**Ksat:** 0.29 Inches / hour

Notes:



3.1 inches Hole Diameter

68 ° F Water Temperature

35.8 inches Hole Depth

26 inches Water Height in Hole

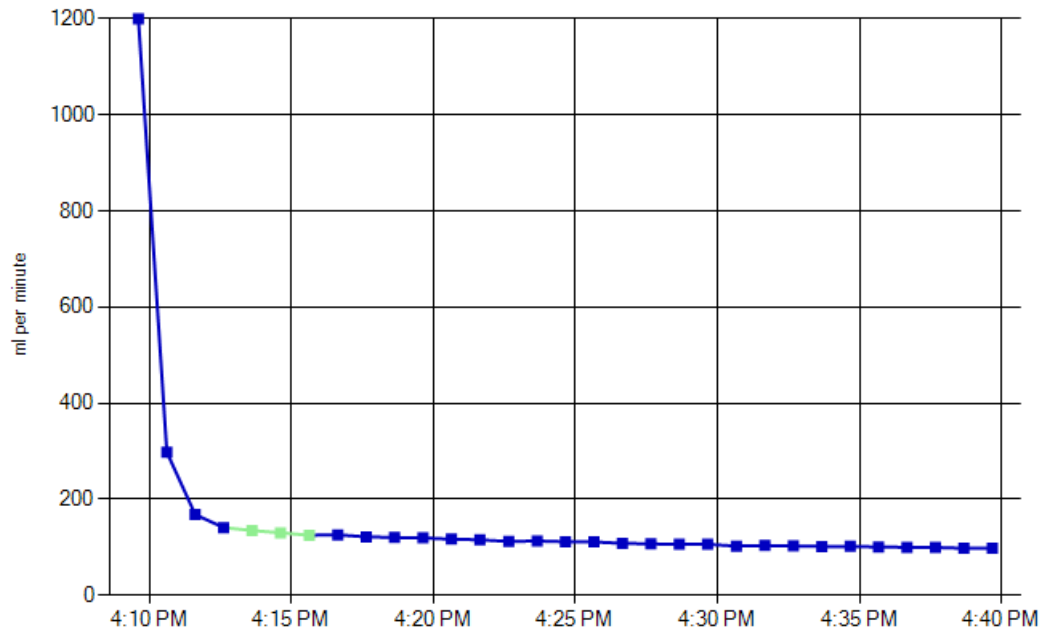
Water Table Depth

Site GPS Position

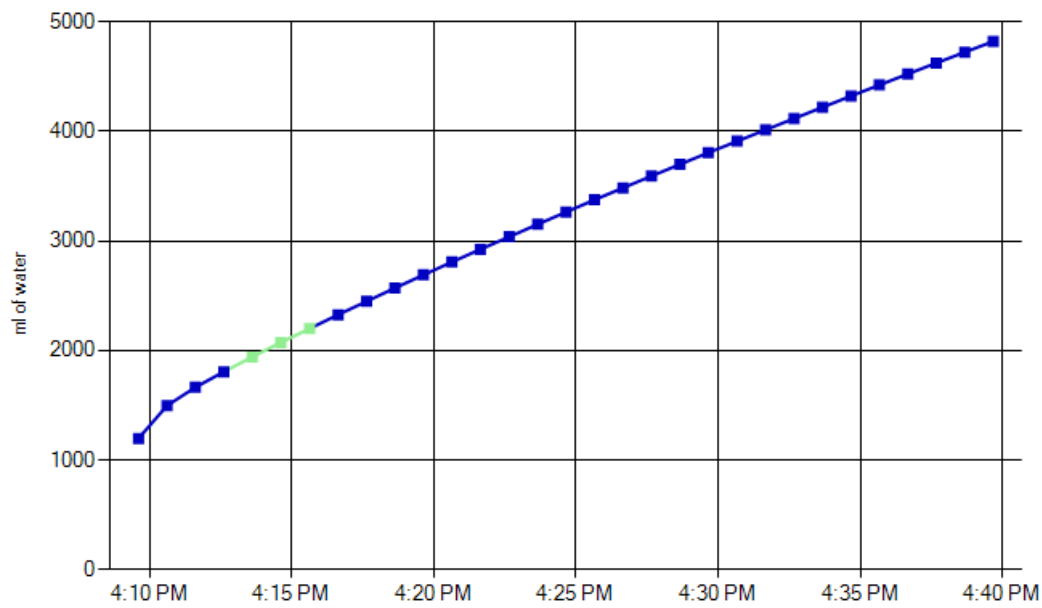
	Degrees	Minutes	Seconds	
Longitude:	0	0	0	East
Latitude:	0	0	0	North

Soil Texture-Structure Category:

Water Consumption Rate



Total Water Consumed



<u>Time</u>	<u>Reservoir Water Level</u>	<u>Elapsed Time Interval</u>	<u>Interval Water Consumed</u>	<u>Total Water Consumed</u>	<u>Water Consumption Rate</u>	<u>Ignore Reading</u>
4:08:37 PM	8543.2 ml					
4:09:37 PM	7343.8 ml	1 minute	1199.4 ml	1199.4 ml	1199.400 ml/min	
4:10:37 PM	7045.4 ml	1 minute	298.4 ml	1497.8 ml	298.400 ml/min	
4:11:37 PM	6877.0 ml	1 minute	168.4 ml	1666.2 ml	168.400 ml/min	
4:12:37 PM	6735.6 ml	1 minute	141.4 ml	1807.6 ml	141.400 ml/min	
4:13:37 PM	6600.2 ml	1 minute	135.4 ml	1943.0 ml	135.400 ml/min	
4:14:37 PM	6469.6 ml	1 minute	130.6 ml	2073.6 ml	130.600 ml/min	
4:15:38 PM	6342.0 ml	1 minute	127.6 ml	2201.2 ml	125.508 ml/min	
4:16:38 PM	6215.6 ml	1 minute	126.4 ml	2327.6 ml	126.400 ml/min	
4:17:38 PM	6093.4 ml	1 minute	122.2 ml	2449.8 ml	122.200 ml/min	
4:18:38 PM	5972.4 ml	1 minute	121.0 ml	2570.8 ml	121.000 ml/min	
4:19:38 PM	5852.6 ml	1 minute	119.8 ml	2690.6 ml	119.800 ml/min	
4:20:38 PM	5735.2 ml	1 minute	117.4 ml	2808.0 ml	117.400 ml/min	
4:21:38 PM	5619.2 ml	1 minute	116.0 ml	2924.0 ml	116.000 ml/min	
4:22:39 PM	5504.8 ml	1 minute	114.4 ml	3038.4 ml	112.525 ml/min	
4:23:39 PM	5391.2 ml	1 minute	113.6 ml	3152.0 ml	113.600 ml/min	
4:24:39 PM	5279.2 ml	1 minute	112.0 ml	3264.0 ml	112.000 ml/min	
4:25:39 PM	5167.6 ml	1 minute	111.6 ml	3375.6 ml	111.600 ml/min	
4:26:39 PM	5058.8 ml	1 minute	108.8 ml	3484.4 ml	108.800 ml/min	
4:27:39 PM	4951.2 ml	1 minute	107.6 ml	3592.0 ml	107.600 ml/min	
4:28:39 PM	4844.4 ml	1 minute	106.8 ml	3698.8 ml	106.800 ml/min	
4:29:39 PM	4737.8 ml	1 minute	106.6 ml	3805.4 ml	106.600 ml/min	
4:30:40 PM	4633.2 ml	1 minute	104.6 ml	3910.0 ml	102.885 ml/min	
4:31:40 PM	4529.0 ml	1 minute	104.2 ml	4014.2 ml	104.200 ml/min	
4:32:40 PM	4425.8 ml	1 minute	103.2 ml	4117.4 ml	103.200 ml/min	
4:33:40 PM	4323.6 ml	1 minute	102.2 ml	4219.6 ml	102.200 ml/min	
4:34:40 PM	4221.2 ml	1 minute	102.4 ml	4322.0 ml	102.400 ml/min	
4:35:40 PM	4120.2 ml	1 minute	101.0 ml	4423.0 ml	101.000 ml/min	
4:36:40 PM	4019.8 ml	1 minute	100.4 ml	4523.4 ml	100.400 ml/min	
4:37:40 PM	3919.6 ml	1 minute	100.2 ml	4623.6 ml	100.200 ml/min	
4:38:40 PM	3821.2 ml	1 minute	98.4 ml	4722.0 ml	98.400 ml/min	
4:39:40 PM	3723.0 ml	1 minute	98.2 ml	4820.2 ml	98.200 ml/min	



Location: 19744

Site: P2

Time interval between readings: 1 minute

Ksat Method: Glover Solution

Steady Flow Rate Condition

Steady Flow Rate achieved when Water Consumption Rate changes less than +/- 5 % for 3 consecutive readings

Steady Flow Rate: 136.000 ml/min

Temp. Adj. FR: 136.132 ml/min

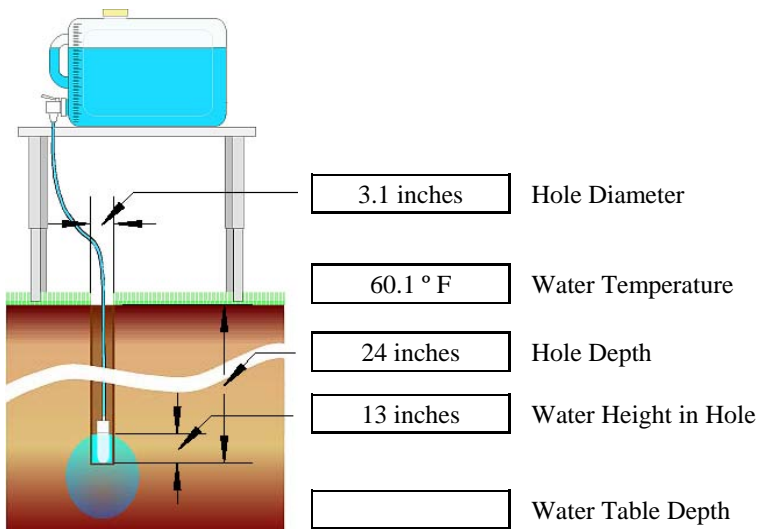
Percolation Rate: 0.369 min/cm

**Ksat:** 0.9 Inches / hour

Notes:

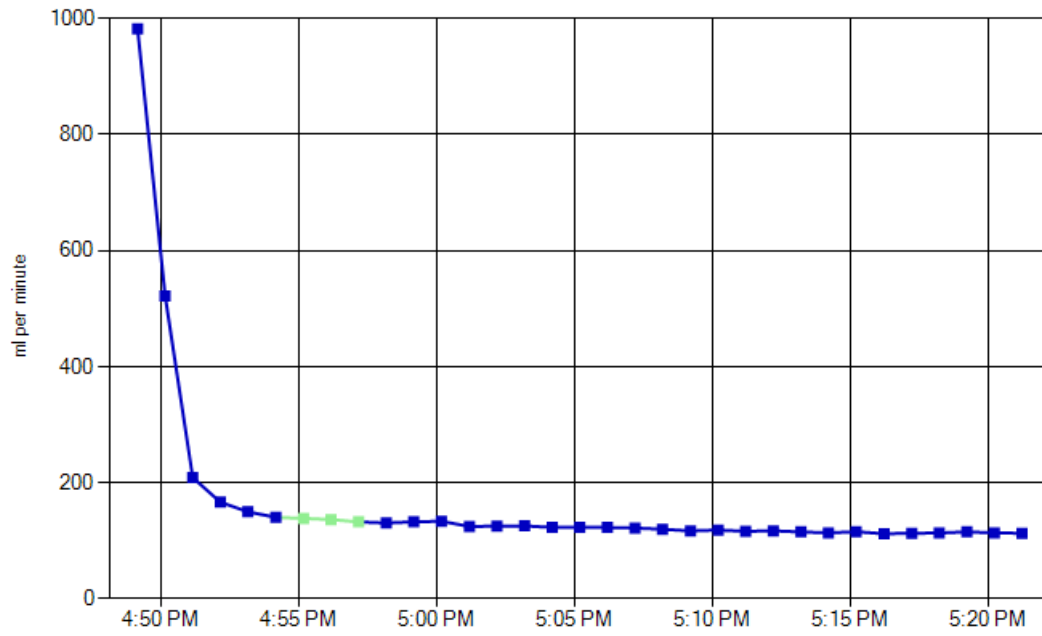
Site GPS Position

	Degrees	Minutes	Seconds	
Longitude:	0	0	0	East
Latitude:	0	0	0	North

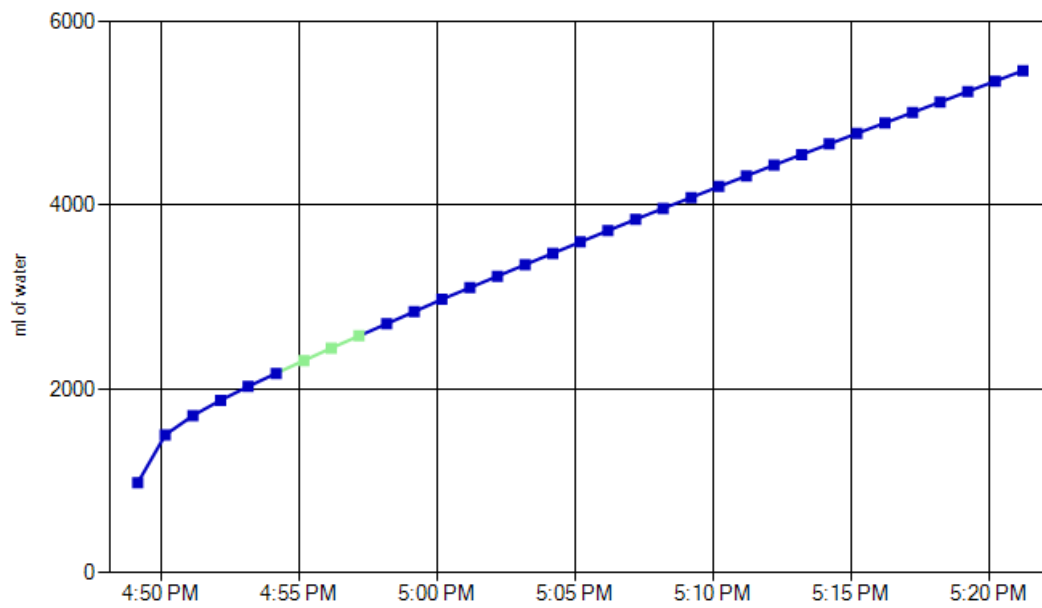


Soil Texture-Structure Category:

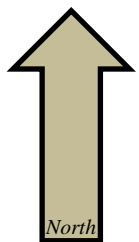
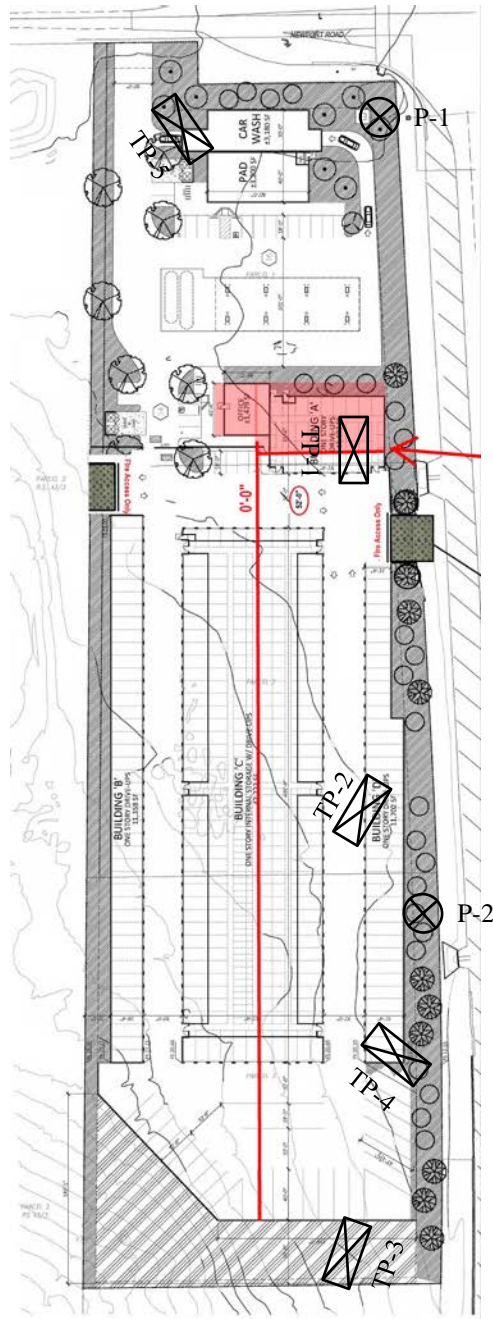
Water Consumption Rate



Total Water Consumed



<u>Time</u>	<u>Reservoir Water Level</u>	<u>Elapsed Time Interval</u>	<u>Interval Water Consumed</u>	<u>Total Water Consumed</u>	<u>Water Consumption Rate</u>	<u>Ignore Reading</u>
4:48:10 PM	8448.6 ml					
4:49:10 PM	7466.2 ml	1 minute	982.4 ml	982.4 ml	982.400 ml/min	
4:50:10 PM	6944.2 ml	1 minute	522.0 ml	1504.4 ml	522.000 ml/min	
4:51:10 PM	6735.2 ml	1 minute	209.0 ml	1713.4 ml	209.000 ml/min	
4:52:10 PM	6568.4 ml	1 minute	166.8 ml	1880.2 ml	166.800 ml/min	
4:53:10 PM	6418.4 ml	1 minute	150.0 ml	2030.2 ml	150.000 ml/min	
4:54:11 PM	6275.6 ml	1 minute	142.8 ml	2173.0 ml	140.459 ml/min	
4:55:11 PM	6136.8 ml	1 minute	138.8 ml	2311.8 ml	138.800 ml/min	
4:56:11 PM	6000.2 ml	1 minute	136.6 ml	2448.4 ml	136.600 ml/min	
4:57:11 PM	5867.6 ml	1 minute	132.6 ml	2581.0 ml	132.600 ml/min	
4:58:11 PM	5736.8 ml	1 minute	130.8 ml	2711.8 ml	130.800 ml/min	
4:59:11 PM	5604.0 ml	1 minute	132.8 ml	2844.6 ml	132.800 ml/min	
5:00:11 PM	5470.2 ml	1 minute	133.8 ml	2978.4 ml	133.800 ml/min	
5:01:12 PM	5343.4 ml	1 minute	126.8 ml	3105.2 ml	124.721 ml/min	
5:02:12 PM	5218.0 ml	1 minute	125.4 ml	3230.6 ml	125.400 ml/min	
5:03:12 PM	5092.2 ml	1 minute	125.8 ml	3356.4 ml	125.800 ml/min	
5:04:12 PM	4969.0 ml	1 minute	123.2 ml	3479.6 ml	123.200 ml/min	
5:05:12 PM	4845.6 ml	1 minute	123.4 ml	3603.0 ml	123.400 ml/min	
5:06:12 PM	4722.6 ml	1 minute	123.0 ml	3726.0 ml	123.000 ml/min	
5:07:12 PM	4600.4 ml	1 minute	122.2 ml	3848.2 ml	122.200 ml/min	
5:08:12 PM	4480.4 ml	1 minute	120.0 ml	3968.2 ml	120.000 ml/min	
5:09:13 PM	4361.4 ml	1 minute	119.0 ml	4087.2 ml	117.049 ml/min	
5:10:13 PM	4242.8 ml	1 minute	118.6 ml	4205.8 ml	118.600 ml/min	
5:11:13 PM	4126.4 ml	1 minute	116.4 ml	4322.2 ml	116.400 ml/min	
5:12:13 PM	4009.2 ml	1 minute	117.2 ml	4439.4 ml	117.200 ml/min	
5:13:13 PM	3893.8 ml	1 minute	115.4 ml	4554.8 ml	115.400 ml/min	
5:14:13 PM	3780.0 ml	1 minute	113.8 ml	4668.6 ml	113.800 ml/min	
5:15:13 PM	3664.2 ml	1 minute	115.8 ml	4784.4 ml	115.800 ml/min	
5:16:14 PM	3550.0 ml	1 minute	114.2 ml	4898.6 ml	112.328 ml/min	
5:17:14 PM	3436.8 ml	1 minute	113.2 ml	5011.8 ml	113.200 ml/min	
5:18:14 PM	3323.4 ml	1 minute	113.4 ml	5125.2 ml	113.400 ml/min	
5:19:14 PM	3207.8 ml	1 minute	115.6 ml	5240.8 ml	115.600 ml/min	
5:20:14 PM	3094.2 ml	1 minute	113.6 ml	5354.4 ml	113.600 ml/min	
5:21:14 PM	2981.0 ml	1 minute	113.2 ml	5467.6 ml	113.200 ml/min	



#### Symbols



P-2



TP-5

- LEGEND**  
Locations are Approximate
- Infiltration Test
  - Exploratory Test Pit (THE Soils, 2006)



## Proposed Diamond Valley Storage INFILTRATION LOCATION MAP

1" = 150'

2019

19744-10A

PLATE 1