

***INFILTROMETER TESTING FOR THE SAN JUAN
RIOS DISTRICT LOCATED AT PASEO ADELANTO &
RIVER STREET, SAN JUAN CAPISTRANO,
CALIFORNIA.***

Project No. 16-3371

Dated: July 8, 2016

Prepared For:

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Subject: *Infiltrometer Testing for the San Juan Rios District Located at Paseo Adelanto & River Street, San Juan Capistrano, California.*

1.0 INTRODUCTION

Pursuant to your request, Inland Engineering Technologies, Inc. (IET) is providing this report presenting the infiltrometer testing for the San Juan Rios District located at Paseo Adelanto & River Street, San Juan Capistrano, California. The purpose of our infiltrometer testing was to determine the infiltration rates and physical characteristics of the subsurface soils existing within the subject site. It is our understanding that a storm water infiltration system is preliminarily proposed at the site.

2.0 INFILTRATION TESTING

On June 30, 2016 infiltrometer testing was initiated at the site to evaluate the infiltration rate in general accordance with ASTM D 3385-03 – Standard Test Method for infiltration rate of soils in field using Double-Ring Infiltrometer. Infiltration testing elevation was approximately 5 feet below ground surface. The infiltration testing was initiated by filling both inner and outer rings with water to approximately 6 inches and allowed to drain. Before recording each set of reading, both outer and inner rings were filled again with water to approximately 6 inches. Initial and final water levels were recorded every 15 minutes for the first hour and every 30 minutes thereafter. The infiltration test data recorded in the field are presented in Table 1 below.

TABLE 1 - INFILTRATION TEST RESULTS

Reading	Time		Δ Time (min)	Fall, Inner Ring (inch)	Fall, Outer Ring (inch)	Infiltration Rate (in./hour)
	Start	End				
1	Start	7:45 AM	15	0.5	0.5	2.0
	End	8:00 AM				
2	Start	8:00 AM	15	0.25	0.25	1.0
	End	8:15 AM				
3	Start	8:15 AM	15	0.25	0.25	1.0
	End	8:30 AM				
4	Start	8:30 AM	15	0.25	0.25	1.0
	End	8:45 AM				
5	Start	8:45 AM	30	0.5	0.5	1.0
	End	9:15 AM				
6	Start	9:15 AM	30	0.5	0.5	1.0
	End	9:45 AM				
7	Start	9:45 AM	30	0.25	0.25	0.5
	End	10:15 AM				
8	Start	10:15 AM	30	0.25	0.25	0.5
	End	10:45 AM				
9	Start	10:45 AM	60	0.5	0.5	0.5
	End	11:45 AM				
10	Start	11:45 PM	60	0.5	0.5	0.5
	End	12:45 PM				

3.0 FINDINGS

The earth materials encountered in the infiltration test hole consisted of dense, moist, silty sand with gravel. Groundwater was encountered at 10 feet below the ground surface in our previously drilled borings from IET. Based on the data presented in this report, it is the judgment of IET that the onsite soils indicated a design infiltration rate of 0.50-inch-per-hour. This infiltration rate is a representative of the existing soils below ground surface.

4.0 LIMITATIONS

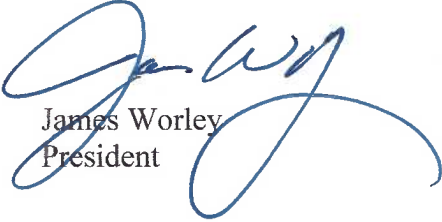
This report is based upon the published documents, and field observations to which we applied various methods of analysis and interpretation. The materials encountered on the project site are believed representative of the project area, and the findings contained herein are presented on that basis. However, soil materials can vary in characteristics between points of exploration, both laterally and vertically, and those variations could affect the findings and performance of the storm water infiltration system. Furthermore, the performance of onsite storm water infiltration systems is such that deterioration occurs over time even when properly used and maintained.

Our services were performed using the degree of care and skill ordinarily exercised, under similar circumstances, by engineers and geologists practicing in this or other localities. The contents of this report are professional opinions and as such, are not to be considered a guarantee or warranty.

The opportunity to be of service is appreciated. Should you have any questions regarding the content of this report, or should you require additional information, please do not hesitate to contact this office at your earliest convenience.

Respectfully submitted,

INLAND ENGINEERING TECHNOLOGIES, INC.


James Worley
President


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Geotechnical Engineer



YP/JW

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