



# Sunland Analytical

11419 Sunrise Gold Circle, #10  
Rancho Cordova, CA 95742  
(916) 852-8557

Date Reported 07/15/2016  
Date Submitted 07/12/2016

To: Ed Efficient  
Super Engineering  
123 Broad St.  
Everywhere, CA 99999

From: Gene Oliphant, Ph.D. \ Randy Horney  
General Manager \ Lab Manager

The reported analysis was requested for the following location:  
Location : JOB #123890 Site ID : SMP 4-C 6'.  
Thank you for your business.

\* For future reference to this analysis please use SUN # 555435-2111261.

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EVALUATION FOR SOIL CORROSION

Soil pH	8.37		
Moisture	23.3 %		
Minimum Resistivity	0.69 ohm-cm (x1000)		
Chloride	166.0 ppm	00.01660 %	
Sulfate	380.5 ppm	00.03805 %	
Redox Potential	(-) 68 mv		

Sulfate Reducing Bacteria Presence - POSITIVE

#### METHODS

pH and Min.Resistivity CA DOT Test #643 Mod.(Sm.Cell)  
Sulfate CA DOT Test #417, Chloride CA DOT Test #422  
Redox Potential ASTM D1498m, Sulfate Reducing Bacteria AWWA C105-72