

## APPENDIX 5D

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### Report of Organics

May 1, 2018

Project No. 151064-51A

**SHERMAN & GARBANI, LLC**  
**SHERMAN & HAUN LP**  
31103 Rancho Viejo Road  
Suite 535  
San Juan Capistrano, CA 92675

**Subject: Report of Organics, Proposed Millcreek Promenade and Rancho Bonito Town Home Community and Shopping Center, Assessor's Parcel Numbers 360-350-011, 360-350-017, and 360-350-006, Parcel Numbers 1, 2 and 3 of Parcel Map Number 13523, Located South of Garbani Road and on the West Side of Haun Road, City of Menifee, Riverside County, California**

*Reference: Earth Strata Geotechnical Services, 2016, Preliminary Geotechnical Interpretive Report, Proposed Rancho Bonito Town Home Community and Shopping Center, Assessor's Parcel Number 360-350-006, Lot Number 1 of Parcel Map Number 13523, Located on the South Side of Garbani Road Between Sherman Road and Haun Road, City of Menifee, Riverside County, California, Dated February 4.*

*Earth Strata Geotechnical Services, 2016, Preliminary Geotechnical Interpretive Report, Proposed Millcreek Promenade, Assessor's Parcel Numbers 360-360-011 and 360-350-017, Parcels 2 and 3 of Parcel Map Number 13523, Located Southwest of Garbani Road and on the West Side of Haun Road, City of Menifee, Riverside County, California, Dated May 4.*

### **Introduction**

Earth Strata Geotechnical Services, Inc., has prepared this report for the above referenced project for the City of Menifee. A representative of Earth Strata Geotechnical Services inspected the above-mentioned site for the possible disposal of organic waste. In addition, field samples were obtained to perform laboratory testing to determine the organic content of onsite soils and additional samples were obtained and tested for metals. These additional samples will be presented in a separate report. Through review of aerial photographs, onsite observation, and laboratory testing, no waste disposal was observed to have taken place.

### **Field Exploration**

Ten (10) representative soil samples were obtained to perform laboratory testing to determine the extent of onsite organics.

The approximate sampling locations are shown on Plate 1.

## Laboratory Testing

The relative organic matter percent was determined for the obtained samples of earth materials. The test was performed and logged in general accordance with the Standard Test Methods for Moisture, Ash, and Organic Matter of Peat and Other Organic Soils based upon ASTM D 2974. An evaluation of the test data is reflected throughout the Conclusions and Recommendations section of this report. A brief description of laboratory test criteria and summaries of test data are presented in Appendix A.

## CONCLUSIONS AND RECOMMENDATIONS

### General

From geotechnical and engineering geologic points of view, the subject property is considered suitable for the proposed development. All tested areas showed a representative organic content value less than three percent. At this relative percent, organic materials will be inadequate to influence the proposed development. In addition, rough grade operations will further disperse any collections of organic material.

The opportunity to be of service is appreciated. Should you have any questions or require further clarification, please notify this office at your earliest convenience.

Respectfully submitted,

EARTH STRATA GEOTECHNICAL SERVICES, INC.



Stephen M. Poole, PE, GE  
Principal Engineer



SMP/jmr/mw

Attachments: Appendix A - Laboratory Procedures and Test Results  
Plate 1 - Sample Location Map

Distribution: (2) Addressee

**APPENDIX A**  
**LABORATORY PROCEDURES AND TEST RESULTS**

## APPENDIX A

### Laboratory Procedures and Test Results

Laboratory testing provided quantitative and qualitative data involving the relevant engineering properties of the representative earth materials selected for testing. The representative samples were tested in general accordance with American Society for Testing and Materials (ASTM) procedures and/or California Test Methods (CTM).

**Soil Classification:** Earth materials encountered during exploration were classified and logged in general accordance with the Standard Practice for Description and Identification of Soils (Visual-Manual Procedure) of ASTM D 2488. Upon completion of laboratory testing, exploratory logs and sample descriptions were reconciled to reflect laboratory test results with regard to ASTM D 2487.

**Organic Content:** Select samples were tested using the guidelines of ASTM D 2974. The test results are presented in the table below.

SAMPLE NUMBER	MATERIAL DESCRIPTION	% ORGANIC
S-1	Silty SAND	1.7
S-2	Silty SAND	1.6
S-3	Silty SAND	1.2
S-4	Silty SAND	1.4
S-5	Silty SAND	1.5
S-6	Silty SAND	2.0
S-7	Silty SAND	2.4
S-8	Silty SAND	1.5
S-9	Silty SAND	2.8
S-10	Silty SAND	2.0

Average Percent Organics = 1.8%

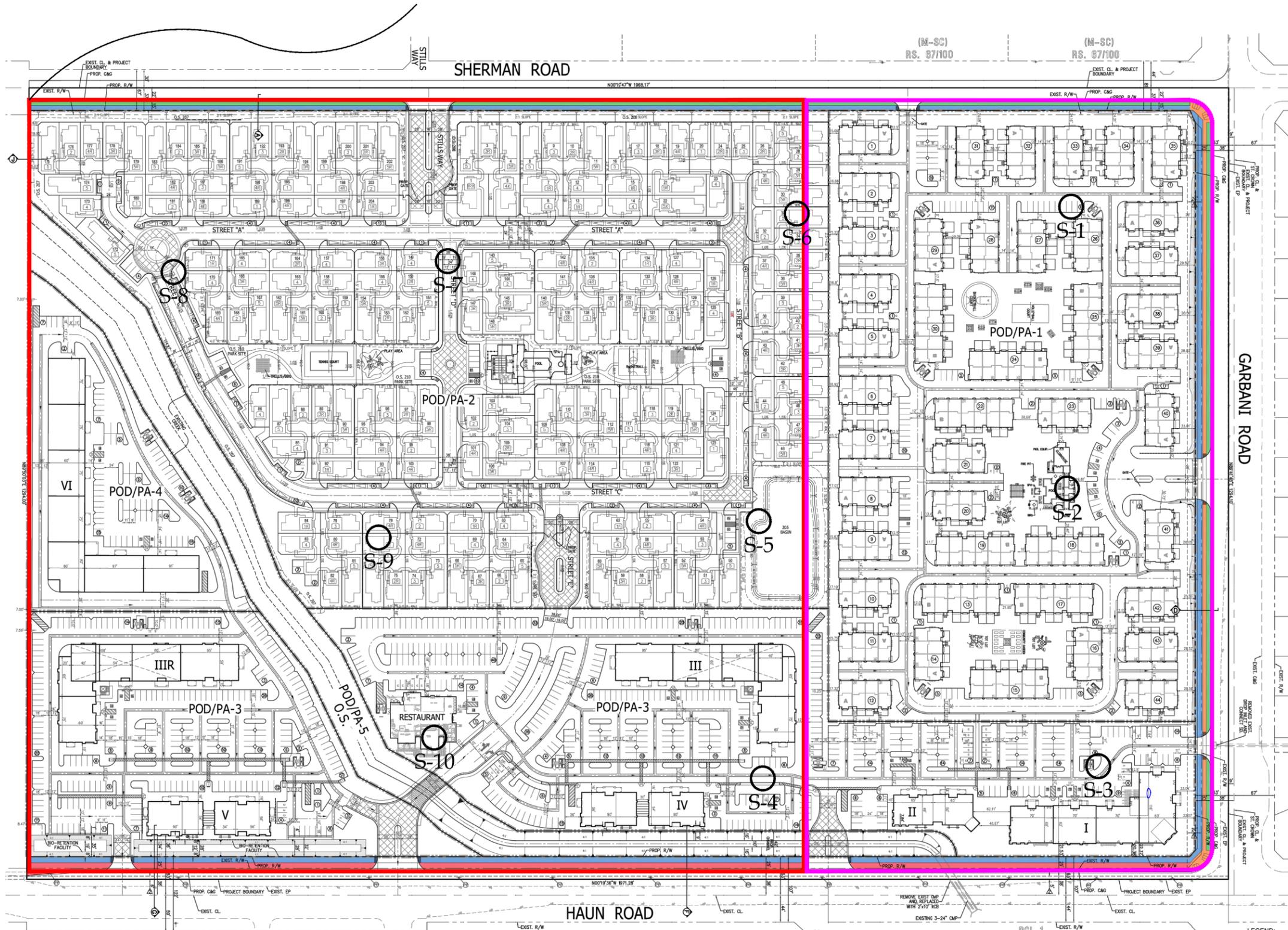
**LEGEND**

Locations are Approximate

**Symbols**

 - Limits of Report

 - Sample Location



**GEOTECHNICAL MAP**

LOCATED SOUTHWEST OF GARBANI ROAD AND ON WEST SIDE OF HAUN ROAD  
 CITY OF MENIFEE, RIVERSIDE COUNTY, CALIFORNIA  
 APN - 360-350-006, 360-350-011, AND 360-350-017

PROJECT	PROPOSED MILLCREEK PROMENADE		
CLIENT	SHERMAN & HAUN, LLC		
PROJECT NO.	151064-51A AND 151015-51A		
DATE	MAY 2018		
SCALE	1:180		
DWG XREFS			
REVISION			
DRAWN BY	JDG	PLATE	1 OF 1

Earth Strata Geotechnical Services, Inc.  
 Geotechnical, Environmental and Materials Testing Consultants