ENVIRONMENTAL AGRICULTURAL
Analytical Chemists

March 12, 2024

Jordan and Bain Landscape Arch.
459 North Ventura Avenue
Ventura, CA 93001

Description : Pierpont Elementary School
Project : VUSD - Pierpont ES

Lab ID : SP 2403003-001
Customer : 2014146

Sampled On : February 29, 2024
Sampled By : John J. Bain
Received On : March 1, 2024
Depth : N/A

Landscape Soil Analysis

Test Description	Result	Units	Optimum Range	Graphical Results Presentation
Primary Nutrients				Very Low / Moderately Low / Optimum / Moderately High / Very High
Nitrate-Nitrogen	0.138	Lbs/1000ft	1.2 - 3.0	
Phosphorus-P_2O_5	5.47	Lbs/1000ft	5.5 - 7.6	
Potassium-K_2O (Exch)	14	Lbs/1000ft	3.6 - 22	
Potassium-K_2O (Sol)	2.2	Lbs/1000ft	3.7 - 12	4%
Secondary Nutrients				
Calcium (Exch)	96	Lbs/1000ft	93 - 120	
Calcium (Sol)	4.88	Lbs/1000ft	5.0 - 18	22%
Magnesium (Exch)	25.8	Lbs/1000ft	9.4 - 19	
Magnesium (Sol)	1.6	Lbs/1000ft	0.67 - 4.5	12%
Sodium (Exch)	10.6	Lbs/1000ft	0.0 - 8.8	
Sodium (Sol)	15.6	Lbs/1000ft	< 18	62%
Sulfate	11.2	Lbs/1000ft	5.3 - 94	
Micro Nutrients				
Zinc	7.92	Lbs/1000ft	0.11 - 3.7	
Manganese	0.707	Lbs/1000ft	0.22 - 5.6	
Iron	6.27	Lbs/1000ft	0.93 - 6.4	
Copper	0.0918	Lbs/1000ft	0.024 - 3.7	
Boron	0.0490	Lbs/1000ft	0.030 - 0.14	
Chloride	2.44	Lbs/1000ft	0.43 - 15	
CEC	8.36	meq/100g	14 - 35	
% Base Saturation				
CEC - Calcium	62.4	%	60 - 80	
CEC - Magnesium	27.6	%	10 - 20	
CEC - Potassium	3.86	%	1.0 - 6.0	
CEC - Sodium	6.00	%	0.0 - 5.0	
CEC - Hydrogen	< 1.00	%	0.0 - 3.0	
				Strongly Acidic / Moderately Acidic / Near Neutral / Moderately Alkaline / Strongly Alkaline
pH	6.4		6.5 - 7.5	

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Depth : N/A

Landscape Soil Analysis

Test Description	Result	Units	Optimum Range	Graphical Results Presentation
Others				Satisfactory / Possible Problem / Moderate Problem / Increasing Problem
Soil Salinity	0.85	dS/m	0.0 - 2.0	
SAR	5.2		0.0 - 6.0	
Limestone	<0.10	%	0.0 - 0.50	
				0 / 1 / 2 / 3 / 4 / 5 / 6
Lime Requirement	0	Tons/AF	---	
Gypsum Requirement	<0.50	Tons/AF	---	
				Very Low / Moderately Low / Optimum / Moderately High / Very High
Moisture	8.5	%	3.6 - 25	
				Loamy Sand / Sandy Loam / Loam / Silt Loam / Clay Loam / Clay / Organic
Saturation	36.3	%	40 - 50	
				Mineral / Organic
% Organic Matter	2.56	%	---	
Soil Texture				0-20 / 20-40 / 40-60 / 60-80 / 80-100
% Sand	73.8	%	40 - 60	
% Silt	20.0	%	40 - 60	
% Clay	6.2	%	40 - 60	

Good — Problem Indicates physical and/or phenological and amendment requirements.

Note: Color coded bar graphs have been used to provide you with 'AT-A-GLANCE' interpretations.

Note: Soils with gypsum requirements over 10 tons should be appied incrementally at a maximum of 10 tons per acre per year and reanalyzed yearly after each application.
Soil pH & Limestone levels are important to consider when making plant selections. Soil pH levels above 7.0 are not suitable for acid loving plants. Soils containing limestone are not suitable for plants sensitive to Limestone.

Note: The Infiltration Rate is approximately 0.54 inches per hour based on soil texture.

BRW:EHB

Reviewed and Approved By **Ben Waddell**
Digitally signed by Ben Waddell
Title: Director of Ag. Services
Date: 2024-03-12

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Recommendations for VUSD - Pierpont ES

The following report presents the results of analyses conducted on your soil. See page 4 for sample information and analyses results. The following recommendations are based upon the current conditions of the soil. All application recommendations are for each 1,000 square feet of growing area. Please be sure to read the standard application notes presented on page 3.

I. Plant Selection

The analyses of your soil indicate no specific limitations as to plant selection.

II. Preplant Soil Amendments and Fertilizers

A Turf and Groundcover

	Apply per 1000 sq. ft.
1. Soil Amendments	
a Organic (Well-composted)	2.00 cu. yds.
b Limestone	0.00 lbs.
c Soil Sulfur	25.00 lbs.
2. Fertilizers	Apply per 1000 sq. ft.
a Nitrogen (N)	1.40 lbs.
b Phosphorus (P_2O_5)	0.00 lbs.
c Potassium (K_2O)	0.00 lbs.
d Magnesium (Mg)	0.00 lbs.
e Zinc (Zn)	0.00 lbs.
f Manganese (Mn)	0.00 lbs.
g Iron (Fe)	0.00 lbs.
h Copper (Cu)	0.00 lbs.
i Boron (B)	0 lbs.

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Depth :

B Tree and Shrub Backfill Mix

1. Native (site) soil	66%
2. Organic Soil Amendment	33%
3. Commercial Fertilizer (15-15-15)	1 lb./cu. yd.
4. Iron	2 oz./cu. yd.
5. Zinc	1 oz./cu. yd.
6. Manganese	1 oz./cu. yd.

When planting specifications do not call for a separate backfill mix, as specified above, use the same soil amended and prepared for your "turf and groundcover(II. A. 1,2)" on page 1 as your backfill mix for container plants, shrubs and trees.

III. Leaching Requirement

None

IV. Post-Plant Fertilization - lbs./1000 sq. ft. (To be applied 6 - 8 weeks after initial planting).

a	Nitrogen	1/2 lb.
b	Phosphorus	1/2 lb.
c	Potassium	1/2 lb.

The actual post-plant requirements for fertilizers and soil amendments will vary depending upon the specific site conditions. Periodic post-plant analyses can be used to assure proper soil conditions and balanced levels of plant nutrition.

V. Irrigation

Make certain that the irrigation water being applied is penetrating to a depth slightly greater than the root zone of the plants being grown. Water with a frequency needed to maintain moist soil at all times - never wet for long periods and never let the soil dry out.

VI. Mulch (Surface Applied Organic Materials)

Surface mulching is not recommended based on the soil analysis. However, there are many benefits to applying mulches to landscape plantings. The primary benefits are water savings, weed control and improved soil physical,chemical and biological characteristics. Mulches also create a more aesthetically pleasing landscape. Mulches are usually applied to a depth of 3-6 inches and consist of numerous organic materials such as tree bark, wood shavings and shredded green waste materials. Mulches that consist of woody particles and larger particles breakdown more slowly and do not require replenishment nearly as often as other smaller size mulch materials. * Do not apply organic mulches directly to plants, trunks or crown areas. Always keep mulches 3-18 inches away from the crown of the plant or tree (3 inches for small plants - 18 inches for trees).

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Depth :

Application Notes

The application instructions listed below apply only if the material(s) is recommended in this report on page 1. Materials not included in the recommendations are excluded either because the analyses data did not indicate a need or the analysis to determine if a need existed was not requested.

Organic Materials

Nitrolized redwood compost is preferred but other organic soil amendment mixes may be substituted depending upon the site requirements. Organic soil amendments should thoroughly be composted and certified free of weeds and pathogens. Particle size should be less than 1/2 inch in diameter and relatively uniform. Organic materials should be spread uniformly over the surface soils and should be incorporated to a depth of four to six inches.

Limestone, Dolomite & Sulfur

These materials should be broadcast uniformly over the surface soils and then incorporated to a depth of four to six inches.

Gypsum

This material should be broadcast uniformly over surface soils for water penetration. For best results do not incorporate.

Preplant Phosphorus, Zinc, Manganese, Iron & Copper

These materials should be broadcast uniformly over the surface soils and then incorporated to a depth of four to six inches. Post-plant applications can be surface applied for water penetration.

Nitrogen, Potassium & Magnesium

These materials are water soluble and can be applied uniformly over the soil surface, or they can be incorporated with other recommended materials. Magnesium sources for plant nutrition include Epsom salts (Magnesium Sulfate), and the double salt of Potassium-Magnesium Sulfate (Sulfate of Potash-magnesia).

ENVIRONMENTAL FGL AGRICULTURAL
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CHAIN OF CUSTODY
AND ANALYSIS REQUEST DOCUMENT

*** SHADED AREAS REQUIRED ***

CLIENT DETAILS — SECTION I

Client: Jordan & Bain Landscape Architects, Inc.
☐ New Customer Customer Number: 2-14146
Address: 459 N. Ventura Ave.
Ventura, CA 93001
Contact Person: Paul Jordan
Office Phone: (805) 642-3641
Cell Phone:
E-Mail: paul@jordan-gilbert.com

(2014146)
Jordan and Bain Landscape Arch.
SP 2403003
srp 03/01/2024 16:05:35
SP 2403003

SAMPLING — SECTION II

Sampler Name: John Bain
Sampler Phone Number: (805) 642-3641
Date of Sampling: 02/29/2024
Time: 13:30 Mileage:

OFFICE USE ONLY

ORIGINAL

Lab Number: 2403003
Lab Location: ☐ SP ☐ STK ☐ VI ☐ CH ☐ CC
Irrigation Suitability Subject to Rush Surcharge: ☐
QA/QC Report Required: ☐

SAMPLE INFORMATION — SECTION III

PROJECT/RANCH NAME: VUSD - Pierpont ES

Sample #	Location/Description	Crop	Growth Stage	Sample Depth
1	Pierpont Elementary School Landscape			

SAMPLING INFO / ANALYSES REQUESTED

Recommendations: Yes (Y) No (N) Preplant (PP)	Soil Texture: Light (L) Medium (M) Heavy (H)	Irrigation: Solid Set Sprinklers(SSS) Dragline Sprinklers(DLS) Furrow(F) Fanjet(FJ) Flood(FL) Drip(DP) Fogger(FO)	Plant Condition: Very Good (VG) Good (G) Fairly Good (FG) Fair (F) Poor (P)	**PLANT TISSUE ANALYSES** Comprehensive Leaf	Comprehensive Petiole	Leaf/ Petiole Combination	Other (List):	**SOIL ANALYSES** Comprehensive Soil Suitability	Organic Amendment/Compost	% Organic Matter	Particle Size: ( ) Hydrometer/Sand, Silt, Clay ( ) Sieve	Other (List):	**PATHOLOGY** Phytopthora: ( ) Avocado ( ) Citrus	Nematode: ( ) Citrus ( ) Parasitic	Plant- Disease Assay-Subcontracted	Botryosphaeria- Crop:	**OTHER ANALYSES** Irrigation Suitability: Rush ( ) 3 Day ( ) 5 Day	Whole Fruit/ Vegetable Analysis	Multi-Residue Pesticide Screen-Subcontracted	Subcontracted To:	Subcontract Analysis:	Other (List):
PP											X	WELO									

REMARKS — SECTION IV

CUSTODY — SECTION V

Relinquished by and subject to the terms and conditions on the reverse of this document:

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