Topsoil Testing Report

Project	Name **West Point Junior Seminary**		Property Number: not given
	Site Street Address, City, State/Province West Point		
Person Submitting Test	Name **Katrina Black** **AGEC** **kblack@agecinc.com**	Date Requested **19 Dec 2023**	Phone **801 685 9190**
	Address, City, State/Province **600 West Sandy Parkway, Sandy, UT 84094**		Cel **801 839 6414**
Soil Testing Laboratory	Name **QA Consulting and Testing, LLC**	Date Submitted **05 Jan 2024**	Phone 801 372 7177
	Address, City, State/Province **645 South 240 East Salem, UT 84653** **vonisaman@comcast.net**		Cel 801 372 7177

General

1. Owner will pay for pre-bid testing and one (1) final topsoil test.

Landscape Architect Instructions

1. Landscape Architect shall determine by investigation quality and quantity of topsoil on site before landscape design. Add physical and fertility recommendations from laboratory recommendations to relevant Church specifications.

Contractor Instructions

1. Test installed topsoil. Installed topsoil shall comply with Project Specifications.
2. If installed topsoil does not comply, Contractor will enhance and test at no cost to Owner until installed topsoil complies with Project Specifications.

Testing Instructions

1. Collect at least two (2) samples of on-site topsoil and each anticipated topsoil source. If site soil profile or borrow pit are not uniform, additional samples shall be taken. Uniform Herriman #1 samples may also be used if properly acquired and documented.
2. Submit required soil samples to soil testing laboratory along with all required (for this report and laboratory) information.

Soil Testing Laboratory Instructions

1. This report must be completely filled out and provide soil interpretation and amendment, fertilizer, and soil conditioner recommendations for use by Landscape Architect. These recommendations should consider lawn areas, tree and shrub areas, and native plant areas.
2. Provide appropriate times for fertilizing.
3. Return completed Topsoil Testing Report to person submitting the test.

SOIL SAMPLE LOG

Soil Sample No.	Description of location where sample was taken	History of use of the soil
North of B-3	4" to 8"	Not given

Existing Conditions Test Report

("Acceptable Levels" refers to the allowable soil specifications prior to being amended)

SOIL TEST DATA

Sample No.	pH(1)	EC(1) dS/m	SAR(1)	% Sand	% Silt	% Clay	Text(2) Class	%(3) OM	NO3-N(4) ppm	P(5) ppm	K(5) ppm	Fe(5) ppm
North of B-3	7.3	1.6	1.6	56	23	21	Sandy Clay Loam	2.0	52	21	56	8
Acceptable Level(s)	5.5 - 8.0	<3.0	<6.0	15-60	10-60	5-30	(2)	>1.0	>20	>11	>130	>10

Rocks and Materials

Sample No.	Percent (%) > 2.0 mm	Rocks Present ≥ 1.5 inch (38 mm) Indicate as present or not present	Toxic minerals & chemicals, noxious weeds, weed seeds, objectionable/construction materials
North of B-3	0.8	Not Present	None observed
Acceptable Level	≤ 2.0 percent	< 1.5 inch (38 mm)	

Landscape Area Description
Lawn Areas: Receive 5 inches (125 mm) topsoil plus recommended amendments and fertilizers.

Shrub/Tree Areas: Unless otherwise indicated, plant pits are to be backfilled with three (3) parts native soil and one part compost or other recommended amendments. Additionally, contractor will add recommended fertilizer.

Native Grass/Shrub/Tree Areas: Planting to receive minimum recommended amendments and fertilizers for establishment.

INFILTRATION RATE	
Documented Infiltration rate of test sample(s) based on texture at 90 percent relative density (To nearest 1/10th of an inch)	
Sample No.	Rate
North of B-3	2.1 Inches/Hour

Interpretation Summary of Test Results:

West Point Junior Seminary

North of B-3 does **not** meet Acceptable Levels for Potassium and Iron.

Soil Amendments, Fertilizer and Soil Conditioner – Recommendations:

Lawn Areas: Amendments: Apply an organic material (compost, etc.) at 5.0 cu yds/1000 sq ft for every 5" of topsoil depth. Incorporate well. See the Compost Quality Guidelines for Landscaping, attached. Or, apply a similar product at label rate following manufacturer's recommendation for soil preparation and turf maintenance. No additional organic material is recommended for organic matter content ≥5%. Fertilizer: Apply a Potassium and Iron fertilizer at label rate. Incorporate well. Conditioner: None.

Shrub/Tree Areas: Amendments: See **Landscape Area Description** above. Fertilizer: Apply a Potassium and Iron fertilizer at label rate. Incorporate well. Conditioner: None.

Native Grass/Shrub/Tree Areas: Amendments: None. Conditioners: None. Fertilizer: Apply a Potassium and Iron fertilizer at label rate. Incorporate well.

Scarify the subsoil at least 6" before applying topsoil.

Long Term (5 Year) Fertilizer and Soil Conditioner – Recommendations:

Lawn Areas: Amendments: None. Conditioner: None. Fertilizer: Continue with above recommendation.

Shrub/Tree Areas: Amendments: None. Conditioner: None. Fertilizer: As a top dress, continue with above recommendation.

Native Grass/Shrub/Tree Areas: Amendments: None. Conditioner: None. Fertilizer: Top dress every other year with 1/2 label rate of a Nitrogen fertilizer, or per nurseryman's recommendation.

Continued next page

COMPOST QUALITY GUIDELINES FOR LANDSCAPING*

Category	pH**	Soluble Salts** dS/m or mmho/cm	Sodium Adsorption Ratio** (SAR)	Carbon:Nitrogen Ratio*** (C:N)	% Moisture****	≥98% Coarse Material Passing (dry wt basis)
Ideal	6 to 8	≤5	<10	≤20:1	25 to 35	3/8" (9.5 mm)
Acceptable	5-6, 8-9	≤10	≤20	21:1 to 30:1	<25, >35	3/4" (19 mm)
Suspect	<5, >9	>10	>20	<10:1, >30:1	<20, >50	<98% 3/4"

for composts with biosolid feedstocks, biosolids must meet EPA 503 Class A standards

*Von Isaman MPS, President of QA Consulting and Testing LLC, Dr. Rich Koenig, USU Cooperative Extension Soils Specialist, and Dr. Teresa Cerny, USU Cooperative Extension Horticulturalist, 3 March 2003.
** 1:5 Compost:Water Slurry on Coarse Material passing 3/8" (9.5 mm)
*** on Coarse Material passing 3/8" (9.5 mm)
**** on total sample

Acceptable level Soluble Salts and/or SAR composts then do not exceed 5 cu yds/1000 sq ft for every 5 inches of soil depth.

End.

AGECWestPointJrSeminaryLdsRpt24.105