



SOILS & AGGREGATE TECHNOLOGY DIVISION (SATD) UPDATES

PRESENTER(S)

AMANUEL WELDERUFAEL – ASSISTANT DIVISION CHIEF LAB OPERATIONS

VLADIMIR TANCHEV – ASSISTANT DIVISION CHIEF FIELD OPERATIONS

(APRIL 04, 2023)

OVERVIEW:

- SATD Personnel Update
- Furnished Landscaping Soil – NMP expiration
- Graded Aggregate Base – JMF Expiration
- Fill soil MMS process
- Radiation Dosimeter Badge Requirements
- Hazmat & Nuclear Safety Refresher Training and Radiation Badges

SATD PERSONNEL UPDATE

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FURNISHED LANDS CAPING SOIL – NMP EXPIRATION

- One NMP for all Top Soil-
Expiring **March 31st** and **September 30th**
- One NMP for all BSM Soils -
Expiring **March 31st** and **September 30th**
- New NMP will be generated -
on **April 1st** and **October 1st**.
- Re-Source with **New NMP**.

CATEGORY 700 LANDSCAPING

NUTRIENT MANAGEMENT PLAN FOR BIORETENTION SOIL MIX (BSM)

EXPIRATION 3-31-2023

DESCRIPTION. Nutrient Management Plan for Bioretention Soil Mix (BSM) replaces fertilizer application rates of MDOT SHA Standard Specifications for Cat. 700 - Landscaping. This Nutrient Management Plan (NMP) is applicable for the approved bioretention soil mix sources of supply identified in this Specification until the Expiration date.

NMP FOR BIORETENTION SOIL MIX (BSM) TABLE OF FERTILIZER APPLICATION RATES

Bioretention Soil Mix (BSM) Source of Supply	NMP Fertilizer Application Rate Pounds per Acre				MDOT SHA NOTE
	Apply All Fertilizers Shown For Source of Supply				
	20-16-12 UF, MAP, SOP	38-0-0 UF	11-52-0 MAP	0-0-50 SOP	
AAA Materials, Leonardtown		103		87	B56BSM17161 10-24-22
AggTrans, Hanover	196			40	B1BBSM15424 9-30-22
Beuchert Excavating, Newburg	196			127	B5617155 10-24-22

GRADED AGGREGATE BASE – JMF EXPIRATION

- All Certified Plants are on SHA Website
- Four JMF Expiry Dates
 - January 31st
 - April 30th
 - July 31st
 - October 31st
- Make sure updated JMF is submitted.



Larry Hogan
Governor
Boyd K. Rutherford
Lt. Governor
James F. Ports, Jr.
Secretary
Tim Smith, P.E.
Administrator

GAB Maximum Dry Density Determination

Contract No. _____

Producer: Martin Marietta

Location: Pinesburg, MD

Mix Design No. GA-01-1-22

Mix Design Expiration Date: 01/31/2024

Compaction Method: AASHTO T-180-D Oversize Correction

Test Results: Job Mix Formula = 142.0 pcf 4.5% OMC

Results based on Job Mix Letter dated: 11/11/2021

JMF	% Passing	Tolerance
2"	100	-2%
1 1/2"	95	+/- 5%
3/4"	88	+/- 8%

FILL SOIL MMS PROCESS

- Source Submission for Fill Soils will not be approved until testing is completed (two to three weeks)
- 27B will be attached to the source submission in the MMS
- SATD will continue to email 27B's to Project Engineers
- Contractors should not proceed before approval of Source Submission, otherwise, it will be totally on contractor's risk.

RADIATION DOSIMETER BADGE REQUIREMENTS

- Request for a dosimeter badge to be sent every year between January 1st and March 15th to

NGTC@mdot.maryland.gov

- Documents required:
 1. Request Form
 2. Acknowledgement Form
 3. Annual Radiation Safety certificate – completed between January 1st and March 15th
 4. HAZMAT certificate valid at least until next year
 5. Copy of MARTCP card with current Soils and Aggregate Compaction Technician certificate

HAZMAT/ NUCLEAR SAFETY TRAININGS

- Nuclear Safety Refresher Training - Annually
- Hazmat Training – Once every Three years
- Field Safety and Operation instructions - Annually
- Nuclear Dosimeter Badges – Distributed Quarterly
- Questions?

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Questions?