1.0 Purpose

The purpose of this procedure is to explain the proper steps for testing liquid loads.

2.0 Scope

This procedure applies to all liquid loads shipped from the Manufacturing and Greendale facilities.

3.0 Responsibility

Material Handler: Responsible for hydrometer readings.

QA Lab: Responsible for specific gravity readings.

4.0 Safety Considerations

Wear appropriate PPE for the area you're working in.

Safety is a condition of employment. Employees are not authorized to work in an unsafe manner and are prohibited from harming the environment of the facility or community.

5.0 Materials/Equipment

- 250 ml Sample Bottle
- 250 ml Graduated Cylinder
- Hydrometer
- pH Meter
- % MgSO4 Chart
- 500 ml Beaker
- Balance
- 25 ml Volumetric Flask

6.0 Procedure

Sampling:

1. Obtain a clean 250 ml sample bottle.
2. Using the sampling device, pull a sample from the finished liquid load.
3. Place sample in sample bottle and transfer sample to testing area.

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Hydrometer Reading:

1. Obtain a *Hydrometer and Specific Gravity Worksheet (L13-PR-100-F048)* and record the following data.
2. Place pH probe into sample and record the pH and temperature.
3. Pour sample into a 250 ml graduated cylinder.
4. Place Hydrometer into sample and record the reading.
5. Using the % MgSO4 chart, record the percent the load shipped as.

Specific Gravity Reading:

Follow the *Steps for Liquid Load Testing* procedure *(L12-PR-100-024)*
Record data on the *Hydrometer and Specific Gravity Worksheet (L13-PR-100-F048).*

7.0 Reference Documents

Hydrometer and Specific Gravity Worksheet	*(L13-PR-100-F048)*
Steps for Liquid Load Testing	*(L12-PR-100-024)*
% MgSO4 Chart	*(L12-FM-100-F033)*

8.0 Change Information

New Document

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