

From: [Vera Poe](#)
To: [Joel Klumpp](#); [James Weddell](#)
Subject: FW: Backwash Procedure During Verification Testing
Date: Thursday, September 12, 2013 9:41:31 AM
Attachments: [sharp copier bmiwf com 20130912 084124.pdf](#)
[sharp copier bmiwf com 20130912 083759.pdf](#)

fyi

From: Kerry D. Maroney [mailto:kdm@bmiwf.com]
Sent: Thursday, September 12, 2013 7:27 AM
To: Vera Poe; Linda Brookins
Cc: Russell Schreiber; Daniel Nix; Mark Southard
Subject: Backwash Procedure During Verification Testing

Vera: As per our phone conversation on Tuesday of this week, please see the attached sketch regarding our proposed backwash supply. This is the procedure we had all discussed during our conference calls. This is in reference to TCEQ Letter of Approval Pg. 9, Item 12 g. (Attached).

The intent is to isolate the 2010 Treatment Plant/Transfer Pumps from the 10 MG storage tank (By Air Gap). We would fill the 10 MG tank prior to starting the Verification Testing and then utilize the tank water for backwash only. Based on the capacity of the 10 mg tank we would not need to refill during the testing period.

Detailed Information on 10 MG Tank:

- Full Elev. 1072
- Floor Elev. 1032
- Capacity 250,000 Gallons per Vertical Ft.

Detailed Information on 2010 Filters:

- Filter Surface Area - 360 SF per Filter
- Max. Filter Water Level – 1035
- Top Filter BW Trough – 1030.80
- Top of Filter Structure – 1039.50
- Backwash Flow Rate / Duration – 4500 GPM For 20 Minutes (Max)
- Total Estimated Vol. Backwash Water Needed During Verification Testing – 1,800,000 Gallons

2010 Clearwell Information:

- Clearwell Weir Elev. – 1025.75
- Clearwell Floor – 1014.95
- Min. Clearwell Level (50%) – 1020.50
- Capacity of Clearwell – Approx. 18,000 Gals. per Vertical Ft.

For your consideration.

Call with questions or comments.

Kerry D. Maroney, P.E.

