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Brian Bruton,
Facility Manager,
KWD Recycling Ltd,
Aghacurreen,
Killarney,
Co. Kerry

5th July, 2017

RE: Contaminated Firewater storage/Calculation of Retention Volume available at MRF Facility in Aghacurreen, Killarney, Co. Kerry.

Dear Brian,

Please note that I attended on site to assess and measure the Existing onsite storage/retention volume available on the 5th July, 2017.

I note from my site inspection that there are several other, (albeit smaller), storage options available within the site, including onsite bunds and drainage systems. However for the purposes of this report I have concentrated on three separate, clearly distinguishable and readily available retention locations.

1. Internal retention volume available in MRF main delivery & sorting hall.

Is calculated at 35m x 70m (Plan dimensions) x 0.101m (average depth of available storage due to floor gradients/sump effect) = **247.45 cubic meters.**

This retention volume could be increased by a further 66.15 cubic meters by raising the threshold level of the door at the Main delivery area by 27mm so as to bring it to the same level as the next lowest door

2. Retention Volume available in bunded area serving Glass Reed Bed.

Is calculated at 13m x 9m (Plan dimensions) x 2.0m (Effective storage depth available) x 0.5 (% Void ratio) = **117 cubic meters.**

3. Retention Volume available in bunded area serving the horizontal flow Reed Bed.

Is calculated at 32m x 34m (Plan dimensions) x 0.5m (Effective storage depth available) = **544 cubic meters.**

Therefore the **Total Retention Volume** currently available based on these three locations amounts to **908.45 cubic meters**.

Should you have any queries please do not hesitate to contact me,

I remain,

Yours Sincerely,

A handwritten signature in black ink, appearing to read "Donal Moynihan B.E., C. Eng., M. I.E.I.", written over a horizontal line.

Donal Moynihan B.E., C. Eng., M. I.E.I.
CHARTERED ENGINEER

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