From: Kazi, Ali
To: Laisure, Debra;
cc: Cunningham, Randall; Baggett, David; Ferraro, Chris; Lubozynski, Tom;
Subject: FW: Dewatering Discharge Plan - Leachate Storage Facility Relocation - JED Solid Waste Management Facility
Date: Friday, August 24, 2012 10:16:55 AM
Attachments: Storage Calculations.pdf
Dewatering Disccharge Plan JED ERP49-0199752-007-EM.PDF

Dear Debra: I have done a preliminary review of the stage/storage calculation and Exhibit B in the second attachment. Based on the consultant calculations, I am convinced that given the observations made at the time of stage storage calculations all the evacuated water will remain in the Borrow Area A. I am also assuming that the pump Area P1 and P2 does not have any soil and or ground water contamination. Do they have any test data?

I also notice that the discharge point from dry retention area north of the road will discharge across the road into the large Borrow Area A. The Spillway in Borrow area A is reasonable far from the "drop inlet" discharge point from north dry retention area. This will provide a good dilution and retention.

I do not have any concerns if the area from where the ground water is pumped has no soil or ground water contamination.

Thank you,

Ali Kazi P.E.
Manager
Industrial Wastewater Program
3319 Maguire Blvd. Suite 232
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New Phone # 407-897-4149
ali.kazi @dep.state.fl.us

From: Laisure, Debra
Sent: Friday, August 24, 2012 9:23 AM
To: Kazi, Ali; Cunningham, Randall; Baggett, David
Subject: FW: Dewatering Discharge Plan - Leachate Storage Facility Relocation - JED Solid Waste Management Facility

FYI –

Mike Kaiser with WSI provided the following in response to some emailed questions I had about their dewatering plan for construction/relocation of their leachate storage facility. Based on this information, he has provided reasonable assurance that there will be no offsite discharge of dewatering effluent and that the system can handle the dewatering effluent without loss of required stormwater quality and attenuation volume.

DB – Thanks very much for doing the file review on this.

Deb

Debra Laisure, P.E.
Engineering Support Manager
Submerged Lands and Environmental Resource Program (SLERP)

DEP - Central District
407-897-2952
Debra.Laisure@dep.state.fl.us

From: Michael Kaiser [mailto:mkaiser@wasteservicesinc.com]
Sent: Friday, August 24, 2012 8:50 AM
To: Laisure, Debra
Cc: bo.conerly@kimley-horn.com; Keith Lunsford
Subject: RE: Dewatering Discharge Plan - Leachate Storage Facility Relocation - JED Solid Waste Management Facility

Debra:

Attached are supporting calculations for the application to the SFWMD. I probably should have passed this along with the permit. Below are comments from my engineering consultant that prepared the application. I will have our site operations check on the current water elevations in the ponds.

1) The estimated seasonal high water level (SHWL) for the borrow area presented in the application for a General Water Use Permit for dewatering activities is 78 ft NGVD. This is consistent with the estimated SHWL presented in the JED Omni Waste Landfill Leachate Storage Facility ERP Modification application (ERP49-0199752-007-EM).

2) Per the Permit Drawings for Oak Hammock Disposal, the connection between the stormwater pond (dry pond) on the north side of Omni Way and the stormwater pond (Borrow Area A) on the south side of Omni Way is a drop inlet and pipe (2 x 36" HDPE's) structure with a drop inlet invert of 81.0' and a pipe invert of 78.0'.

3) The stormwater pond on the north side of Omni way is a dry retention basin with a ground elevation of 80.0' and a TOB elevation of 85.0'.

4) It is anticipated that water will move into Borrow Area A through the pipe connection. As part of the GWUP application, a conservative storage analysis for the two pond system was conducted by considering only the available storage within Borrow Area A for storage of dewatering discharge, even though available storage within the pond on the north side of Omni Way will also be available for storage of dewatering discharge. As shown on the attached *Storage Calculations* PDF (as presented in the GWUP application), the anticipated design high water level in Borrow Area A with both the 100year, 72 hour storm inflow volume and the total estimated dewatering discharge volume (87 MG) is 84.2 ft NGVD. It should also be noted that the storage calculations assume that the entire dewatering discharge volume is held within Borrow Area A with no allowance for percolation or evaporation over the pumping duration.

5) The initial stage in Borrow Area A as shown in the permitted Stormwater Design Calculations associated with the JED Solid Waste Management Facility Lateral Expansion – Major Solid Waste Permit Modification from 2011 (prepared by Geosyntec Consultants) is 79.0 ft NGVD. The TOB elevation is 88.0 ft and the overflow elevation is 86.5 ft.

6) As mentioned in response to comment no. 4 above, the anticipated water elevation in Borrow Area A is a maximum of 84.2 ft with no consideration to available storage in the dry retention pond located north of Omni Way or percolation/evaporation over the pumping duration.

As mentioned in response to question no. 5, the overflow elevation associated with Borrow Area A is 86.5 ft.

Mike Kaiser

WSI

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mkaiser@wasteservicesinc.com

From: Laisure, Debra [mailto:Debra.Laisure@dep.state.fl.us]
Sent: Thursday, August 23, 2012 11:18 AM
To: Michael Kaiser
Cc: Kazi, Ali; Cunningham, Randall; Goshleski, Erica; Prather, Lisa
Subject: RE: Dewatering Discharge Plan - Leachate Storage Facility Relocation - JED Solid Waste Management Facility

Mike –

Thanks for sending this. I have read through the information and have some questions to follow up with:

1. Limiting condition 22 of the GWUP states that the groundwater cannot be lowered below 62 ft NGVD. What is the estimated groundwater elevation now?
2. As shown in the plan, the dewatering effluent will be discharged to a wet pond that has a connection to Borrow Area "A". Please provide the invert elevation of the pipe that connects this pond to Borrow Area "A".
3. What is the estimated current water elevation in this pond and what is the top of bank elevation?
4. What is the anticipated water elevation in this pond resulting from the dewatering? Is it anticipated that the dewatering will cause water to move into Borrow Area "A"?
5. What is the estimated current water elevation in Borrow Area "A"? What is the top of bank elevation for this area?
6. What is the anticipated water elevation in Borrow Area "A" resulting from the dewatering?
7. Does Borrow Area "A" have a discharge control structure? If so, what is the elevation of the discharge control?

I will share this information with our Industrial Wastewater program (they have a generic permit for discharge of produced groundwater). The work, as proposed, doesn't appear to me to require the IW generic permit because limiting condition 17 of your GWUP requires that the dewatering effluent will be retained onsite.

Please call me if you have questions.

Deb

Debra Laisure, P.E.
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Please take a few minutes to share your comments on the service you received from the department by clicking on this link DEP Customer Survey.

From: Michael Kaiser [mailto:mkaiser@wasteservicesinc.com]
Sent: Tuesday, August 21, 2012 3:56 PM
To: Laisure, Debra
Subject: Dewatering Discharge Plan - Leachate Storage Facility Relocation - JED Solid Waste Management Facility

Debra:

Please find attached the discharge plan for dewatering under ERP Permit No. ERP49-0199752-007-EM. Let me know if you would like me to mail an original copy of the document.

Thanks,

Mike Kaiser

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