



GUAM WATERWORKS AUTHORITY
578 North Marine Corp Drive, Tamuning, GU 96931-4111

March 15, 2013

David Manning
Gershman, Brickner & Bratton, Inc.
Receiver Representative
Guam Department of Public Works
Solid Waste Management Division
542 North Marine Corps Drive,
Tamuning, Guam 96913

Subject: Acceptance of Leachate from the Ordot Dump Closure Project

Hafa Adai Mr. Manning,

I am in receipt of your January 29, 2013 letter as the Receiver Representative for the Guam Solid Waste Authority (GSWA) requesting Guam Waterworks Authority's (GWA's) acceptance of future discharge of the existing leachate from the, now closed, Ordot Dump to the Hagåtña Wastewater Treatment Plant (HWWTP). This project, as we understand it, is a Court Ordered project that requires that the existing Ordot dump be "capped" and the leachate contained within it be disposed of appropriately. GWA staff has met with your representatives and the design consultant to discuss all technical issues relevant to this project. The information, technical data and engineering solutions presented at this time have therefore allowed me to give support of the project and this letter shall serve as GWA's acceptance of leachate into the GWA wastewater collection system.

Acceptance of the leachate is contingent on the following conditions:

1. GSWA shall maintain, at the dump site, the ability to store leachate flows for as much as 12 hours during high rainfall events; and
2. GWA will accept the leachate stream only after leachate collection is initiated and the storage capacity is in place at the GSWA Ordot Dump site, and
3. GWA will accept the leachate only after the sewer conveyance system has been constructed, and inspected by GWA, from the closed landfill, along Dero Road, to the nearest existing GWA sewer manhole by Agueda Johnston Middle School in the village of Ordot; and
4. The conveyance system for the leachate shall include gravity collection and sewer pump station wherever possible that meets GWA standards; and
5. All storm water shall be prevented from contact with the leachate by an impervious cover system and managed by a storm water collection system on the Ordot Dump site; and

6. The leachate discharge flow to the GWA wastewater collection system is no greater than the projected peak daily flows of 50,000 gallons per day (gpd). Discharging of leachate will occur over a 12- to 24-hour period each day which will result in an anticipated peak instantaneous flow rate of approximately 80 gallons per minute (gpm); and
7. The anticipated constituents of the leachate stream are iron, aluminum, trace levels ($\mu\text{g/L}$ or parts per billion range) of certain other metals, dissolved salts, trace ($\mu\text{g/L}$ or fractional $\mu\text{g/L}$) levels of a handful of volatile and semi-volatile organic compounds, as well as Biochemical Oxygen Demand (BOD_5), Ammonia ($\text{NH}_3\text{-N}$), and Total Suspended Solids (TSS); and
8. Peak daily flow mass loadings are no greater than 60 lb BOD_5 /day, 27 lb $\text{NH}_3\text{-N}$ /day, and 39 lb TSS/day; and
9. GWA is provided, on a quarterly basis, a leachate constituent report that describes the levels of each constituent found in the leachate stream; and
10. GWA reserve the right to require additional pretreatment of the leachate prior to accepting it into the GWA collection system should data on the leachate and/or data from the HWWTP reveal the leachate is causing adverse impacts to GWA's ability to properly treat the wastewater discharging out the Hagåtña outfall. GSWA will fund all necessary improvements to mitigate the adverse impacts revealed to be caused by the leachate from the Ordod Dump site.
11. A flow meter shall be provided that records the flow rate of leachate discharging into the GWA collection system; and
12. GSWA will pay leachate disposal rates set by the Guam Public Utilities Commission based on the data from the installed flow meter; and
13. Should there be any required changes to the intent of the project or the design and construction as know by GWA, GSWA shall provide adequate notice to GWA so as to properly assessment impacts to the GWA system, if any.

GWA wishes GBB and GSWA all the best to a successful project completion.

Sincerely,



Martin Roush, P.E.
General Manager

CC: GWA Compliance
GWA wastewater Management
GWA Chief Engineer