From: FSettepani@Geosyntec.com
Sent: Thursday, June 17, 2010 7:44 AM
To: Frey, Jesse <JFrey@wm.com>
Cc: Von Pein, Rick <rvonpein@wm.com>; Whelan, Joseph <JWhelan1@wm.com>; Lottig, Justin <JLottig@wm.com>; HSharma@Geosyntec.com
Subject: Waimanalo: Conflict between WGSL June 2010 permit and Technical Specs, Cells E5 through E8

Good morning Jesse.

The maximum size of 1-inch for the drainage gravel in the *Revised Engineering Report* dated 20 November 2009 was included as a general engineering guideline. Any increase in maximum particle size requirement will be conservative since it would result in a higher hydraulic conductivity of the leachate collection and removal system (LCRS) layer.

In view of the above, when preparing the final technical specifications for the project we looked at the fact that with a maximum size of 1.5 inches used for previous portions of the project (i.e., the E-cells), the Contractor had successfully met the permeability requirement which is important to maintain a head of less than 12 inches in the LCRS. Therefore, in preparing the construction specifications dated January 2010, we specified the following gradation which is also consistent with the previously-specified materials for the E-cells.

U.S. Sieve Size	Percent Passing
1.5-inch	100
3/4-inch	70 – 90
No. 4	40 – 50
No. 10	0 – 10
No. 200	0 – 5

Please let us know if there are other questions.

Thank you.

Fabrizio.

From: Frey, Jesse [mailto:JFrey@wm.com]
Sent: Wednesday, June 16, 2010 12:40 PM
To: Hari Sharma; Fabrizio Settepani
Cc: Von Pein, Rick; Whelan, Joseph; Lottig, Justin
Subject: FW: Conflict between WGSL June 2010 permit and Technical Specs, Cells E5 through E8

Hari and Fabrizio,

Please read the email below from me to HDOH and their response. As you can see, there is a conflict between the specs and the recently issued expansion permit that needs to get resolved. We would like to have direction on this before our construction meeting tomorrow morning.

Thank you,

Jesse Frey
Engineer
Waste Management of Hawaii
92-460 Farrington Hwy.
Kapolei, HI 96707
Ph: 808-250-0574
Fax: 808-668-1366

From: Miyashiro, Thomas [mailto:thomas.miyashiro@doh.hawaii.gov]
Sent: Wednesday, June 16, 2010 8:20 AM
To: Frey, Jesse
Cc: Ichinotsubo, Lene K; Fujimoto, Janice K
Subject: RE: Conflict between WGSL June 2010 permit and Technical Specs, Cells E5 through E8

Hi Jesse: The permit was based on requirements specified in the Revised Engineering Report dated 20 November 2009, in Section 5, page 12, where it calls for 1-inch max for the drainage gravel. The latest specs, dated Jan. 2010, call for 1.5-inch minus, as you stated. So there is a conflict between these docs. The permit is intended to reflect technical requirements specified by the Design Engineer, so we would normally defer to the Design Engineer on technical requirements under his purview. In this case, both documents were prepared by the design engineering firm, so they need to clarify which requirement applies in this particular application. We will then issue an email to acknowledge the change in the permit condition.

Thanks.
Tom

-----Original Message-----
From: Frey, Jesse [mailto:JFrey@wm.com]
Sent: Tuesday, June 15, 2010 9:54 AM
To: Miyashiro, Thomas; Ichinotsubo, Lene K
Cc: Whelan, Joseph; Von Pein, Rick; Lottig, Justin
Subject: Conflict between WGSL June 2010 permit and Technical Specs, Cells E5 through E8
Importance: High

Tom and Lene,

From the June 7, 2010 DOH SW permit, Page 17, Part II, Special Conditions, Section B, Item 2 indicates that expansion cells E5 through E8 are to be constructed in accordance with Geosyntec Consultants, Inc. construction drawings, Cells E5 through E8, Revision 3. Although not directly referenced, it is assumed that the Technical Specifications dated January 2010 are also approved by this permit. The Technical Specifications for Cells E5 through E8 by Geosyntec, Section 2227, Part 2, 2.01 (G) provide drainage gravel specification that allow 1.5-inch maximum particle size.

However, page 17 of the permit, Part II, Special Conditions, Section B, Item 2 (d) requires that the drainage layer have a maximum particle size of 1-inch.

The maximum particle size requirements as outlined in the technical specifications and the June

7, 2010 permit are conflicting. Please provide clarification and direction as far as what requirement(s) to follow as soon as possible. Our Contractor is currently manufacturing the gravel to meet the 1.5-inch maximum specification per the technical specifications.

Feel free to call me to discuss.

Thank you,

Jesse Frey

Engineer

Waste Management of Hawaii

92-460 Farrington Hwy.

Kapolei, HI 96707

Ph: 808-250-0574

Fax: 808-668-1366

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