



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

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Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

(804) 698-4000
1-800-592-5482

June XX, 2015

[Facility Contact Information]

Dear [Facility Contact]:

This letter shares information regarding the Virginia Department of Environmental Quality's (Department) efforts to compile accurate and up to date groundwater use data at particular landfills regulated under 9 VAC 20-81-10 *et. seq.* and at properties surrounding those landfills. This information is critical to accurately assess all potential local influences on groundwater flow, locate off site groundwater users with respect to known landfill groundwater releases, identify potential sites where use of less stringent cancer risk (i.e., 10^{-5}) ACL values as site-specific groundwater protection standards may be appropriate, and to allow accurate risk management decisions during corrective action and post-closure care. Thus, this information is not only critical to the facility in examining groundwater but serves as important information in the Department's decision-making process regarding groundwater monitoring and corrective action at landfills.

This survey covers both potable and non-potable groundwater use at landfills currently exceeding groundwater protection standards (GPS) and those properties surrounding the landfill. The Department is requesting the attached survey be filled out by the owner/operator or their assigned representative and returned to your DEQ Regional Office no later than December 1st, 2015. This timeframe will allow you to gather the information requested if it is not immediately available from local government sources. Based on the Department's review of the information you submit, the Regional Office may contact you for further discussion or to arrange a site visit.

The Department understands that this information may have previously been included or provided in previous groundwater monitoring reports or other submittals. To the extent possible, Department staff will identify that previous information in preparing this survey information for

the facility. However, the Department does request a complete enclosed survey for the facility as this ensures that the necessary information is located in one document, in a consistent format, and easily ascertainable for the facility and the Department.

If you any questions on completing this survey, please contact [regional contact information] or Mr. Geoff Christe, the solid waste program groundwater coordinator at (804) 698-4283 or geoff.christe@deq.virginia.gov.

Sincerely,

Justin Williams
Office of Waste Permitting and Compliance Director

Encl:
2015 Groundwater Use Survey Form

Virginia DEQ
2015 Groundwater Use Survey at SWLFs with GPS exceedances

Facility Name:

Permit #:

Survey Objective

The Virginia Department of Environmental Quality (DEQ) is compiling records on water use (i.e., drinking water, process-water, irrigation/landscaping, etc.) at landfills in the Commonwealth and their surrounding properties including how this water is obtained (i.e., on site well supplied or municipal water line). This information is important for risk management decision making (RMDM) as well as maintaining an accurate understanding of potential hydrologic influences on how groundwater moves within the local aquifer system. Groundwater pumping may influence local flow patterns or accelerate the speed at which constituents migrate in the aquifer and these localized factors may be difficult to detect through routine groundwater monitoring at wells installed along the waste management unit boundary.

At this time, the Department is asking for this information only for landfills that have documented an impact to the underlying aquifer (i.e., groundwater protection standards have been exceeded on site) as these sites are either moving toward, or have implemented some form of groundwater corrective action.

To gather this information in a uniform manner across the Commonwealth, please complete and sign the following survey form and return attention to your DEQ Regional Office Land Protection Manager by December 1st, 2015. The Department may contact you for follow-up information or an onsite meeting after reviewing the information submitted.

A. Current Groundwater Use

Is municipal water provided to the landfill? [yes] [no]

If yes, how is the water used onsite:

Is groundwater used on site for any purpose? [yes] [no].

If yes, complete below:

- Attach site map showing location(s) of supply well(s).
 - Attach specifics on well construction (i.e., install date, total depth, completion specs, yield, etc.).
 - Attach permitting information from the Virginia Department of Health (if available).
 - Describe use(s) or purpose of the well(s):
-
- Has the well water ever been tested for VDH water quality parameters? **[yes] [no]**
 - Has the well water ever been tested for VSWMR solid waste constituents? **[yes] [no]**
-
- If yes to testing question(s), please list the date of the most recent sampling [_____].

For those landfills that utilize groundwater on site for any purpose, please identify how the water is disposed of post-use:

[POTW] [leachate collection system] [septic field] [dry wells] [other, etc.]

Based on GIS information, billing records, public works/utilities records, etc., is municipal water currently provided or available to properties adjacent to the landfill property?

[yes] [no]

Based on personal contact, survey, or permitting information, are groundwater wells used on properties adjacent to the landfill for any purpose?

[yes] [no].

If yes, complete below:

- Attach a property map identifying the adjacent properties using groundwater wells
- Provide the address information for each of these properties in the table in **Section B** below
- Describe the use of the offsite well(s) at each property, based on available information, as: potable use, non-potable use, or unknown, in **Section B** below
- To the best of your knowledge, have any of these wells been tested for VDH water quality parameters? **[yes] [no] [unknown]**
- To the best of your knowledge, have any of these off site wells been tested for VSWMR solid waste constituents? **[yes] [no] [unknown]**

In cases where properties adjacent to the landfill property are undeveloped, is there any local government prohibition or ordinance in place that would restrict future use of the groundwater for any purpose?

[yes] [no]

If yes, describe below or attach a copy of the local restriction:

B. Offsite Groundwater Use (complete as needed)

Property Address	# of wells in use	Type of Use

C. Certification Statement

I, the below signed, certify that I have personally examined and am familiar with the information submitted in the survey and all attached documents/information. Based on my inquiry of those individuals immediately responsible for obtaining or providing the information, I believe the submitted information is accurate and complete at the time of submittal.

The information sources used for this survey included (check those that apply):

- Local government GIS resources
 - Public Utility billing records
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-
- Property parcel information from local Tax assessment office
 - Virginia Department of Health well installation records
 - Contact with Landfill Owner/Operator
 - Contact with local land owners
 - Other (describe): _____

Name:

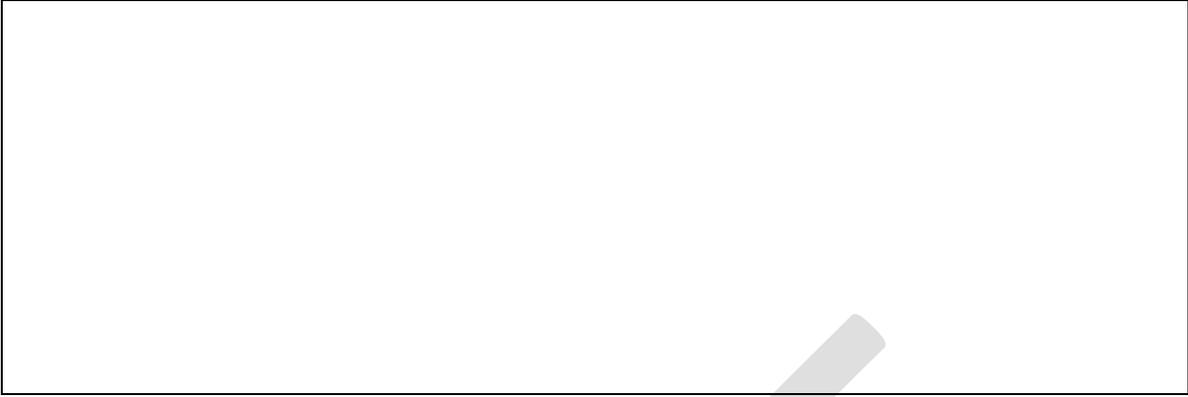
Signature:

Date:

D. Attachments

Please attach any additional information related to this survey here.

DRAFT



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