

Region 3 GPRA 2008 Baseline RCRA Corrective Action Facility

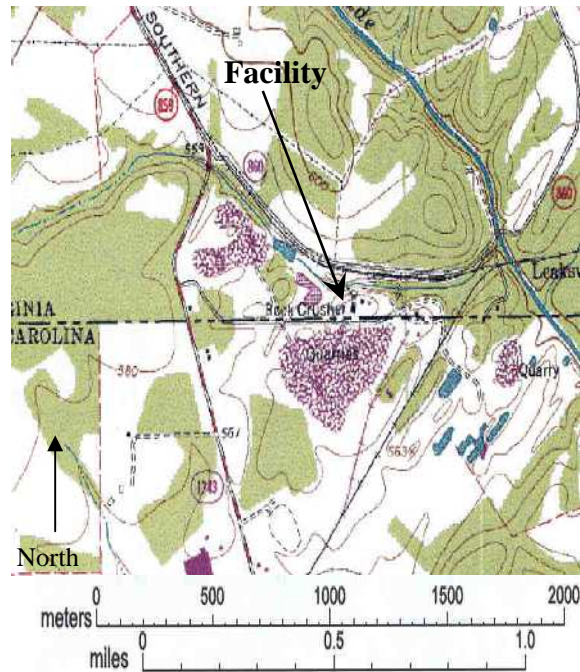
GIANT RESOURCE RECOVERY, INC. (FORMERLY SOLITE CORPORATION- VIRGINIA SOLITE DIVISION AND VIRGINIA SOLITE – CASCADE)

Route 1, Box 101
Cascade, VA 24069
Congressional District 5
EPA ID #: VAD046970521
Last Updated: 07/07/2008

Main Plant Area



Site Location Map



USGS 7.5 Minute Northeast Eden, VA Quad Sheet

Current RCRA CA Activities

RCRA Corrective Action (CA) activities at the Giant Resource Recovery, Inc. facility are being conducted under the direction of the Virginia Department of Environmental Quality (DEQ). The

CA investigations and any necessary clean up activities are being implemented in accordance with the conditions and requirements of facility's Hazardous Waste Management Permit (Permit).

On December 19, 2003, the facility was issued a Hazardous Waste Management for Combustion of Hazardous Waste, Corrective Action, and Waste Minimization for the facility's industrial kilns. The above Permit includes site-wide CA requirements of the Hazardous and Solid Waste Amendments (HSWA) of the Resource Conservation and Recovery Act (RCRA) of 1984.

In January 2005, Solite Corporation notified the DEQ that the Solite Corporation – Virginia Solite facility would be closed. In July 2006, Solite Corporation received the DEQ's approval of the "clean closure" certification and the Closure Report for the final closure of the Kilns 1, 2, 3, and 4. This closure does not impact the execution of the site-wide corrective action and the facility is undergoing the process of CA to evaluate and assess any past releases of hazardous waste and/or hazardous constituents to the environment.

The initial RCRA CA activities at this facility focused on the Corrective Action Program specified in the Hazardous Waste Management Permit (Permit for Combustion of Hazardous Waste, Corrective Action, and Waste Minimization) for the facility's kilns. The above Permit includes *Site-Wide Correction Action* (Part IV) which requires the facility to conduct a RCRA Facility Investigation (RFI).

A preliminary soil sampling campaign, an Environmental Indicator for Human Health Exposure Study, was conducted in August 2004. The sampling program concentrated on soil-human exposures.

Inorganics at elevated concentrations in both the surface and subsurface soils were identified as being the primary constituents of concern (COCs). The presence of both organics and inorganics in subsurface soils lead to the conclusion that ground water and surface water are most likely impacted by facility operations.

Effective January 10, 2006, the Giant Resource Recovery, Inc. (GRR), Cascade, Virginia, facility Permit, under EPA ID No. VAD077942266, was modified to reflect a change in operator and owner of the facility and Permit responsibility from Giant Resource Recovery – Arvonnia, Inc. to the Solite Corporation – Virginia Solite Division, Cascade facility and Permit, under EPA ID No. VAD046970521 (new operator), which is owned by the Solite Corporation (new owner).

Concurrent with the above permit modification, effective January 10, 2006, the Solite Corporation – Virginia Solite Division, Cascade facility and Permit, under EPA ID No. VAD046970521, was modified to incorporate the land, the facilities, and the closure and corrective action responsibilities, as applicable, of the GRR, Cascade facility and Permit under EPA ID No. VAD077942266.

The above GRR Cascade facility and the Solite Corporation - Virginia Solite Division, Cascade facility are contiguous RCRA permitted facilities under common ownership and control under Solite Holding, Inc. The GRR Cascade facility Hazardous Waste Management Permit expired on January 29, 2006. Therefore, this above transfer of ownership and control of the GRR facility will enable the CA for the above two contiguous Solite Holding, Inc. Cascade facilities to take place under the Solite Corporation - Virginia Solite Division, Cascade facility Permit under EPA ID No. VAD046970521.

Effective March 15, 2007, the name Solite Corporation – Virginia Solite Division was changed to Giant Resource Recovery, Inc. The owner and operator of the Solite Corporation – Virginia Solite Division, Cascade facility was unchanged by this action.

It should be noted that on March 9, 2005, GRR submitted its notification to the DEQ of GRR's intent to close the GRR Cascade facility under EPA ID No. VAD077942266; GRR initiated closure by July 29, 2005. In July 2006, Solite Corporation received the DEQ's approval of the "clean closure" certification and the Closure Report for the final closure of the tank storage and treatment facilities under the GRR, Cascade facility under the Permit, under EPA ID No. VAD077942266.

In May 2006, Solite Corporation submitted the Phase I RCRA Facility Investigation (RFI) Work Plan, Revision 2, to address the CA requirements of the Solite Corporation – Virginia Solite Division, Cascade facility and Permit, under EPA ID No. VAD046970521, and the GRR, Cascade facility and Permit under EPA ID No. VAD077942266.

The submitted RFI Work Plan included risk assessment information of CA investigation activities completed to date. The above submitted RFI Work Plan has been reviewed by the DEQ.

In August 2006, copies of monitoring well location maps were submitted by Solite Corporation to enable further review of the RFI Work Plan and to facilitate the completion of the Groundwater EI determination.

Comments on the RFI Work Plan were provided to the facility by DEQ correspondence, dated November 1, 2006, and a conference call was held with the facility representatives on November 17, 2006. GRR provided a response to the DEQ by correspondence, dated December 22, 2006.

The DEQ provided a response to the above GRR submittal by correspondence, dated January 30, 2007.

GRR responded to the DEQ's correspondence, dated January 30, 2007, by GRR letter and accompanying submittal by Groundwater and Environmental Services (GES), dated March 9, 2007, concerning the requested additional information pertaining to the Phase I RFI Work Plan - Revision 2, dated May 23, 2006.

On June 28, 2008, the DEQ sent correspondence to GRR, which provided the following: 1) the technical review comments of the Phase I RFI Work Plan/Report – Revision 2, dated May 23, 2006, as amended December 2006, and March 2007, and 2) the conditional approval of the Phase I RFI Work Plan/Report, dated May 23, 2006, based upon the supplemental information provided in the GRR and GES submittals, dated December 2006, and March 9, 2007.

The above conditional approval, dated June 28, 2008, comes with the stipulation that the items described in the DEQ's accompanying Technical Review Memorandums of the RFI Work Plan/Report must be addressed to the DEQ's satisfaction in the forthcoming Phase II RFI Work Plan submittal. It should be noted that the Phase I RFI Work Plan, Revision 2, as amended, was also considered a Phase I RFI Report due to the scope and nature of the submitted document.

The GRR facility is to submit the Phase II RFI Work Plan to the DEQ and the EPA Region III within 90 days after receipt of the DEQ's approval of the Phase I RFI Work Plan/Report.

Site Description

The Giant Resource Recovery, Inc., facility in Cascade, Virginia (formerly Solite Corporation - Virginia Solite Division facility), is a 459-acre site. A Hazardous Waste Management Permit (Permit for Combustion of Hazardous Waste, Corrective Action, and Waste Minimization) was issued by DEQ on December 19, 2003.

The above Cascade facility burned hazardous waste derived fuel in large rotary kilns to produce lightweight aggregate for the construction industry. The facility has burned hazardous waste derived fuels since the 1970s and operated under Interim Status until the above Permit was issued in 2003.

Hazardous waste was transported, stored, processed, and blended by the contiguous Giant Resource Recovery, Inc. (GRR) (formerly Oldover, Inc) facility, which comprises a 3-acre tract of land within the 459-acre Virginia Solite facility (now also named Giant Resource Recovery Inc.). The hazardous waste derived fuel was transferred by pipeline from the GRR facility to the lightweight aggregate kilns operated by Virginia Solite. The GRR Cascade facility was managed under a Hazardous Waste Management Permit for the storage and treatment of hazardous wastes. The permit became effective in January 1996, and expired in January 2006.

Effective January 10, 2006, the Solite Corporation – Virginia Solite Division, Cascade facility and Permit, under EPA ID No. VAD046970521, was modified to incorporate the land, the facilities, and the closure and corrective action responsibilities, as applicable, of the GRR, Cascade facility and Permit under EPA ID No. VAD077942266.

The Solite Corporation – Virginia Solite Division, Cascade facility also possessed a VPDES Permit No. VA0089974 for storm water discharge.

As previously noted, the above Cascade facility has ceased industrial operations, has undergone RCRA “clean-closure” and final closure; however, the facility is subject to CA under the facility’s Permit under EPA ID No. VAD046970521, and the CA requirements of the GRR, Cascade facility and Permit under EPA ID No. VAD077942266.

RCRA CA Milestones

To date, the following Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) milestones have been completed at this facility:

- December 23, 1997, NCAPS Report and CA Prioritization.
- March 24, 1999, RFI Imposition.
- May 16, 2003, EI Determination Support Package.
- December 19, 2003, Hazardous Waste Management Permit issued with CA requirements.
- May 2006, Solite Corporation submitted the Phase I RFI Work Plan, Revision 2.
- July 26, 2006, achieved clean closure of Kilns 1, 2, 3, and 4 under the Solite Corporation – Virginia Solite Division, Cascade facility and Permit, under EPA ID No. VAD046970521, and the GRR, Cascade facility (storage and treatment tank system) under the Permit under EPA ID No. VAD077942266.

On June 28, 2008, the DEQ sent correspondence to GRR, which provided the following: 1) the technical review comments of the Phase I RFI Work Plan/Report – Revision 2, dated May 23, 2006, as amended December 2006, and March 2007, and 2) the conditional approval of the Phase I RFI Work Plan/Report, dated May 23, 2006, based upon the supplemental information provided in the GRR and GES submittals, dated December 2006, and March 9, 2007.

Additional details concerning these milestones and the supporting documentation can be obtained by reviewing the files at the DEQ’s Central Office or by contacting the DEQ project manager identified in this Fact Sheet.

Environmental Indicator Status

Under the Government Performance and Results Act (GPRA), the Environmental Protection Agency (EPA) set national goals to address high priority RCRA CA facilities by the year 2008. EPA evaluates two key Environmental Indicators (EIs) for each facility: *Current Human Exposures Under Control* and *Migration of Contaminated Groundwater Under Control*. This facility is one of EPA Region 3’s high priority facilities and falls under the GPRA initiative.

Virginia's current evaluation of Environmental Indicators for this facility is as follows:

- *Human Exposures Controlled Determination:* The DEQ has made the EI determination of "yes, that current human exposures are under control." The above determination is based upon the DEQ's Current Human Health Environmental Indicator (HHEI) Determination Report, CA725, dated September 2004. This above HHEI determination is considered current, effective July 7, 2008.
- *Release to Groundwater Controlled Determination:* **IN:** Additional information is needed to determine if potential groundwater releases are controlled. To date the Release to Groundwater Controlled Determination has not been made, but is scheduled to be completed by September 30, 2008.

The site is a fenced, secured industrial site; the only potential exposure will be to plant workers and construction people. Due to market conditions, the Cascade facility has closed. The only exposure would be the few personnel shutting down the facility. Hence, the *Human Exposures Controlled Determination* is concluded to be YES. The YES Determination is based upon the Cascade facility being out of operation. If the facility resumes operations, then the exposure significance will have to be re-evaluated.

The RFI will generate supplemental data that will be evaluated with regards to the above HHEI Determination and will facilitate the completion of the *Release to Groundwater Controlled Determination*. In August 2006, copies of monitoring well location maps were submitted to facilitate the completion of the Groundwater EI determination. The RFI will generate supplemental data that will also be evaluated with regards to potential risks to human health and the environment.

Contaminants

The Environmental Indicator for Human Health Exposure Study identified inorganics as the primary contaminants of concern. The above study included a limited sampling program.

The forthcoming RFI sampling program will address the full spectrum of organics and inorganics in all environmental media and will be designed to complement and supplement the findings of the Environmental Indicator for Human Health Exposure Study.

Institutional Controls

The current Permit for Hazardous Waste Management for Treatment and Storage of Hazardous Waste was issued by the DEQ and became effective on January 19, 2004, and shall remain in

effect until January 19, 2014. The Permit contains site-wide CA requirements under the VHWMR and RCRA.

Community Involvement

Citizens' questions and concerns may be directed to the contact below. Also, the Administrative Record which contains all documents and information regarding the RCRA CA program for this facility are available for public review at the following location(s):

Virginia Department of Environmental Quality
629 East Main Street
Richmond, Virginia 23219
Phone: (804) 698-4194
Contact: Mr. Russell McAvoy, Jr., P.E.

The DEQ also maintains a facility mailing list that is used to inform the public of substantial issues and permit administrative actions regarding the facility.

Government Contacts

The Commonwealth of Virginia DEQ is the lead CA authority for this project. Please contact the DEQ project manager listed below for details on this project or the contents of this fact sheet.

DEQ Project Manager

Russell McAvoy, Jr., P.E.
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EPA Project Manager

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For more information about EPA's corrective action program, including Environmental Indicators, please visit EPA's site at: www.epa.gov/reg3wcmd/correctiveaction.htm

Facility Contact

Mr. Stephen P. Holt
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Fact Sheet Update

The previous fact sheet was updated January 2008. The next fact sheet update is scheduled for January 2009. Previous fact sheets may be obtained through the listed DEQ contact.