

Marjol Site Remediation Update

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Number 96

June 18, 2010

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Comments, contact:

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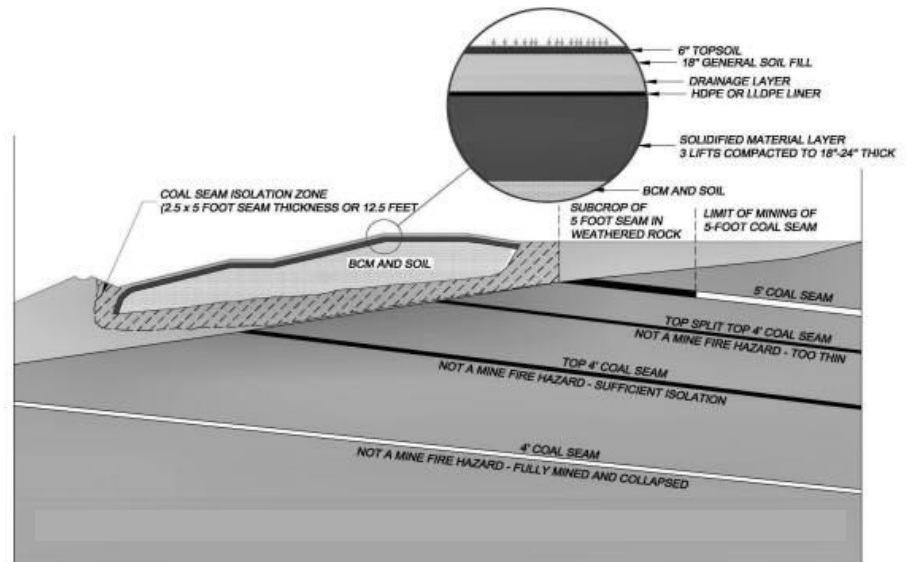
Marjol Web Site:
www.marjolicleanup.com

View of geosynthetics installed on the western part of the
Containment (Cap) Area — 5/11/10



CONSTRUCTION ACTIVITIES

Construction of the Final Remedy at the Marjol Battery Site is nearly completed. All contaminated soils and sediments were inside the Containment (cap) Area (CA) on April 24, 2010. Placement of all three layers of geosynthetic materials over the CA was completed on May 17, 2010. The contractor is currently working to place the final soil layers of the cap over the CA with the final layer (see drawing below) being topsoil so that grass growth can be established on the CA surface. Once the topsoil is placed, the CA will be seeded and an erosion control mat will be placed over the CA surface. It is expected that construction activities will be completed by mid-July 2010.



Note: BCM = Battery Casing Material; HDPE = high density polyethylene; LLDPE= linear low density polyethylene

Log onto our web site at www.marjolicleanup.com for the most recent information regarding the Marjol site. *Provide us with your e-mail address and we will notify you whenever the web site is updated.* Construction schedules and a list of completed activities are regularly updated and posted on the Marjol web site. A photo gallery and air monitoring data are also provided on the Marjol web site.

ANNUAL BLOOD LEAD SCREENING PROGRAM

The annual blood lead screening program will be conducted again in July this year with both in-house testing (for those who live in the immediate vicinity of the Marjol site) and testing at the Throop Borough Civic Center. With construction activities being completed this year, this will be the last year for the Annual Blood Lead Screening Program to be conducted. (Note: Arrangements for blood lead screening required by previous lawsuit settlements will be made separately.)

In-house Testing - July 14th from 6:00 pm to 8:00 pm.

Testing at the Throop Borough Civic Center - July 14th from 6:00 to 8:00 pm.

Testing at Clinical Labs—you may take this newsletter or the In-house testing letter you will receive to the Lab Corp. laboratory located at 901 Keystone Industrial Park in Throop during the hours of 7 am to 5 pm Monday through Friday or 8 am to 12 pm on Saturdays from **July 14th through July 31st, 2010**, to have the blood lead screening done there.

Anyone who is interested is invited to participate in the blood lead screening program. We especially encourage the screening test for children living in Throop who are 12 years of age and under, and anyone who has previously been tested, but no one will be turned away.

OFF-SITE VERIFICATION SAMPLING

This sampling program was designed to confirm that remedial activities did not cause off-site contamination. Five residential properties in the vicinity of the Marjol Site that had previously been remediated during the residential clean-up were sampled. A total of 20 samples were collected from each property during the pre-construction sampling (May 2008), and another 20 samples were collected during post-construction sampling (November 2009). Typically, half of the pre- and post-construction samples were sent to a lab and analyzed, and the other half were archived for future analysis if required. Per the USEPA/PADEP-approved Final (100%) Remedial Design Plan, analytical results from the post-remediation sampling event were compared to the results from the pre-remediation sampling event to see if there was a statistically significant increase of more than 100 mg/kg between the pre-construction and post-construction sample results.

For all five properties, the comparison showed that soil lead concentrations before and after construction were essentially the same. The largest change in mean soil lead concentration was less than 20 mg/kg. EPA concluded that the data sets were statistically identical. Therefore, as per the Final (100%) Design Plan, no additional off-site sampling was required. A report on the Off-Site Verification Sampling was submitted to USEPA and PADEP on February 15, 2010, as part of Quarterly Report #14. A copy of the report may be viewed at the Marjol Community Relations Office at 502 George Street in Throop, PA or at the repository in the Throop Borough Building, located at 436 Sanderson Street in Throop, PA.

STORMWATER MANAGEMENT

During the winter months there were three occasions when discharge from the sedimentation basin showed turbidity readings (a measure of the amount of particles in the water) above the project specifications. Water samples were collected from the discharge point on each of these occasions and were sent to the laboratory for analysis. The dissolved lead results (highest was 4.4 ug/L) were all significantly below the NPDES permit standard for maximum dissolved lead for the Site which is 650 ug/L. The very low dissolved lead results provide reassurance that even though the turbidity levels were above the performance standard, there was NOT a release of lead from the site that would affect the creek or the river.

From April 1, 2010 to June 15, 2010, water from the basin was not discharged. The water from the basin was pumped to locations on-site in order to allow for the level of water in the basin to be controlled, so that work activities in and around the basin could be conducted. On June 16, 2010, in response to heavy rains received, the skimmer was turned to allow water to discharge from the basin through the outlet structure as designed. Turbidity readings collected on June 16th and 17th during basin discharge were all well below the Performance Standard of 250 NTUs. Water from the basin continues to be pumped to locations on-site and will be periodically discharged as necessary. Once construction activities in and around the basin are completed, pumping from the basin will be stopped and the basin will be allowed to function as it is designed with water releasing on its own through the skimmer in the basin outlet structure. In the future, once vegetative growth is established, the sedimentation basin will be re-constructed to allow for the discharge of water to occur naturally on its own without the use of a skimmer.

REMOVAL OF FILL FROM THROOP BOROUGH 48-ACRE PROPERTY — COMPLETION OF FRANKO STREET EXTENSION

Removal of fill material from the Throop Borough 48-acre property to be used on the Marjol Site was completed in November of 2009. The use of this fill material was beneficial for the project in that it enabled backfilling more quickly and kept many, many trucks off of the Borough Streets. As part of the agreement between Gould and Throop Borough to use the fill material, Gould agreed to construct a roadway to Borough standards along the haul road that Gould had used to import the fill material to the Site. Work on this roadway (Franko Street Extension) will be completed in June 2010. Gould has also agreed to provide Throop Borough with an easement for this roadway which leads directly to Throop Borough's 48-acre property.

STAINED SOILS INVESTIGATION

During excavations in the vicinity of the former office and maintenance building at the site, soils with a strong petroleum odor were encountered. These materials were excavated, sampled and determined to be acceptable to be placed in the Containment Area. On June 26, 2009, Gould submitted a report to USEPA and PADEP that showed that the contaminant was old diesel fuel and presented information on the material that could not be removed and remained in the ground; the levels remaining in the ground are below the state's cleanup levels. A meeting was held with USEPA, PADEP and Cocciardi & Associates (Throop Borough's Compliance Liaison) to discuss the report on November 3, 2009. Additional information was provided by Gould to respond to agency comments on the report and the report was revised and submitted to USEPA and PADEP on January 15, 2010. On June 3, 2010, USEPA sent a letter to Gould stating that "based on the information provided in the revised report, in conjunction with the field observations of the EPA/PADEP field representatives, EPA/PADEP are satisfied that the area was adequately characterized and remediated." Therefore, there will be no additional investigation of the stained soils area.

AIR MONITORING

Since all of the excavated contaminated fill material at the Site has been placed in the CA and the CA has been covered with layers of geosynthetics and clean fill material, real-time dust monitoring with the Dust Traks and PAM air lead sampling has been discontinued in accordance with the USEPA/PADEP-approved Sampling and Analysis plan. Perimeter high volume air monitoring continues every six days. The levels continue to be well below the National Ambient Air Quality Standard of 0.15 $\mu\text{g}/\text{m}^3$. Even though there are no longer lead-contaminated soils at the surface of the Site, the "no visible dust" rule for site activities still applies.

POST-CONSTRUCTION MONITORING

Plans for post-construction monitoring and other activities are underway. The USEPA/PADEP-approved 100% Design Plan includes required elements such as quarterly river monitoring, annual groundwater sampling, and the frequency of inspections. Gould will keep the community informed of additional details for the post-construction period as they are developed. See the table below for a list of some of the maintenance and monitoring activities required in the Design Plan.

Summary of Remaining Construction & Remediation Activities and Post –Construction Monitoring Activities

Activity	Status
Excavation, Confirmatory Sampling, and Backfilling	Completed
Solidification of the Bottom Layer of the Cap (3 lifts approximately 9-inches each)	Completed
Installation of the Liner and Drainage Layers of the Cap	Completed
Placement of Cap Cover Soil	2/3 Completed
Placement of Topsoil, Seed, and Erosion Control Material on the Cap Area	Not started
Contractor Demobilization	Not started
Maintenance and Monitoring Once Remedy is Completed Sediment Monitoring - Quarterly for 1 year (through the 4th Quarter 2010) Groundwater Monitoring -Annually for at least 5 years Perimeter Air Monitoring - Design Plan calls for air monitoring to cease at the end of construction, but Gould has decided to continue perimeter air monitoring for the monitors that are located on-site (4 monitors) through the 3rd Quarter of 2010. Site Inspections —Monthly for 2010, quarterly for 2011, and semi-annually after that through at least 2014. Grass Mowing —Twice per growing season through at least 2014.	Not started

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Repository Location

Marjol Battery Site Repository

The repository is located at the Throop Borough Municipal Building, 436 Sanderson Street, Throop, PA and is open Monday through Friday 9 am to 4 pm.

Do you want to be added to our lists?

If you would like to be added to the Marjol Battery site newsletter mailing list or the website changes list, please contact Lisa Ayers via e-mail, telephone, or fax or you can submit your address information on our web site at <http://www.marjolcleanup.com>.

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