Marjol Site Remediation Update

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View of western Containment (cap) Area, looking southeast from the sedimentation basin—8/19/10

CONSTRUCTION ACTIVITIES COMING TO AN END

Most activities associated with implementation of the Final Remedy at the Marjol Battery Site have been completed. All lead-contaminated material at the Site is consolidated in the Containment (cap) Area (CA) and has been covered by the multiple layers of cap materials, so all surfaces of the Site are clean (average lead levels below 500 mg/kg). Activities at the Site will become limited to those associated with Site inspections and monitoring, establishment of vegetation, and the removal/installation of fencing until 2011 when there will be activities associated with conversion of the sedimentation basin to a stormwater management basin (this can't occur until the Site is vegetated).

SITE APPEARANCE— All trailers (except for a small storage trailer near the stockpile of soil that will be used for converting the sedimentation basin) have been removed, guard service has concluded, and the gate to the Site is now locked when no activities are occurring.

FENCING—A split-rail fence with wire mesh will be installed (fall of 2010) on-site around the CA and along the eastern property line to protect the vegetation on the CA and to prevent motorized vehicle access. Temporary fence panels will be removed from the Site and chain link fencing will be installed in some areas to deter motorized vehicles from accessing the property until vegetation is established. There will no longer be a 6-foot barbed-wire fence around the perimeter of the Site.

POST-CONSTRUCTION INSPECTIONS AND CONTACT INFORMATION— Representatives from Advanced GeoServices will continue to be available on a daily basis and at the Site on a weekly basis through September 2010. Erosion inspections will be conducted on a weekly basis and formal monthly inspections will also take place.

The Marjol Community Relations Office, located at 502 George Street in Throop, will remain open through December 2010. Mail that was previously sent to the Site can now be sent to the Community Relations Office. The telephone number and contact numbers for Lisa Ayers at the Community Relations office remain the same.

Thank You

Gould would like to take this opportunity to thank the Throop community, especially the neighbors living nearest the Site, for their patience during construction of the final remedy. We would also like to thank the Throop Borough representatives who have worked diligently to protect their town and the people living in it through-out this project . It has been a long road for everyone.

2010 ANNUAL BLOOD LEAD SCREENING PROGRAM

The annual blood lead screening was conducted in three parts. Laboratory Corporation of America (Lab Corp.) from Throop conducted the door-to-door screening and the screening in the Throop Borough Civic Center on July 14, 2010. This year, participants were also able to go directly to Lab Corp. in Throop from July 14th through July 31st, 2010 for the blood lead screening.

With implementation of the Final Remedy at the Site coming to an end, 2010 was the last year for Gould to conduct the Annual Blood Lead Screening Program. (Note: Individuals involved in the 1990's litigation will be contacted directly regarding litigation-related blood lead screening.)

1) How was participation in the 2010 screening?

Overall, a total of 46 individuals were tested. Of the 46 tested, 4 were children 12 years of age or younger. See the table below for a summary of participation over the past few years.

Summary of Participation in Annual Blood Lead Screening Program (2005—2010)

Year	No. of Participants	No. (%) Participants Children 12 yrs. and younger
2005	24	3 (13%)
2006	35	4 (11%)
2007	32	2(6%)
2008	35	1 (3%)
2009	57	16 (28%)
2010	46	4 (9%)

2) What was the average blood lead level for those tested this year?

The overall average blood lead level this year was 1.5 µg/dL. The average blood lead level for the children 12 or younger who were tested was 1.3 µg/dL. Of the other individuals tested (age 13 and older), none tested above 3 µg/dL.

For reference, in general, for an adult (or older child), a blood lead level under 25 µg/dL is considered within the Centers for Disease Control and Prevention (CDC) reference range. For a child, a blood lead level under 10 µg/dL is considered within the reference range. Every year since 1997, including this year, there has been no child (aged 12 and under) tested with a result above 5 µg/dL. Since 2000, no child has tested above 4 µg/dL. For the past 9 years, no adult has tested above 10 µg/dL.

NORTH WOODS LOW AREA MODIFICATION

In response to complaints from near-by residents, a plan was developed to modify the North Woods Low Area (low area behind homes on the west side of Martarano Drive). Approval on the plan was provided by PADEP on August 30, 2010. The modifications will involve the placement of stone and installation of pipes to encourage stormwater to drain from the low area. Construction activities for the North Woods Low Area modifications are expected to take place in the fall of 2010.

STORMWATER MANAGEMENT

On July 19, 2010, a heavy rain event (approximately 0.35 inches in 1 hour) occurred at the Marjol Battery Site (Site). The heavy rain eroded areas of the Site that were not yet stabilized with grass or erosion control materials. Due to the erosion, the stormwater that flowed through the north and south swales and into the basin was turbid and caused the discharge from the basin to exceed the turbidity standard. Flow from the basin was stopped as soon as the exceedance was observed. During the days following this initial turbidity exceedance, Gould diligently worked to enable discharge from the basin to occur within NPDES permit turbidity requirements. Several measures were taken to control the turbidity in the sedimentation basin including, the addition of several hundred pounds of a flocculant (Pond Clear), placement of Floc Logs (used to remove sediment from water), and the placement of geotextile around the skimmer head (as an additional filter). On August 2, 2010, water in the sedimentation basin became clearer, allowing discharge from the sedimentation basin to take place and continue without exceeding the turbidity standard.

Since July 19, 2010, nearly all areas of the Site have been stabilized, which should prevent the kind of turbidity that occurred in the basin on July 19, 2010. Gould will continue to monitor the flow into the basin and the discharge channel throughout the next few storm events to ensure that the basin discharge is below the turbidity standard.

Water samples (analyzed for total and dissolved lead) were collected at the discharge point during the initial July 19, 2010 turbidity exceedance and also during an exceedance on July 21, 2010. The dissolved lead results were all below the laboratory detection limit of 1.0 µg/L. The NPDES permit standard for maximum dissolved lead for the Site is 650 µg/L. There is not an NPDES standard for total lead, but the total lead result will be compared to the turbidity levels and then to the dissolved lead results. The very low total and 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.

USEPA, PADEP, and Throop Borough were kept informed on stormwater management activities during the period from July 19 to August 2, 2010. A formal non-compliance report covering the period from July 19 to August 2, 2010 was submitted to PADEP on August 4, 2010. A copy of the report is available on the Marjol web site at www.marjolcleanup.com..

Log onto our web site at www.marjolcleanup.com for more information regarding the Marjol site. *Provide us with your e-mail address and we will notify you whenever the web site is updated.* A summary of the Final Remedy and a discussion on post-construction items is available on the Marjol web site. A photo gallery and air monitoring data are also provided on the Marjol web site.

AIR MONITORING

Perimeter high-volume air monitoring for lead continues every six days. The levels continue to be well below the National Ambient Air Quality Standard of 0.15 µg/m^3.

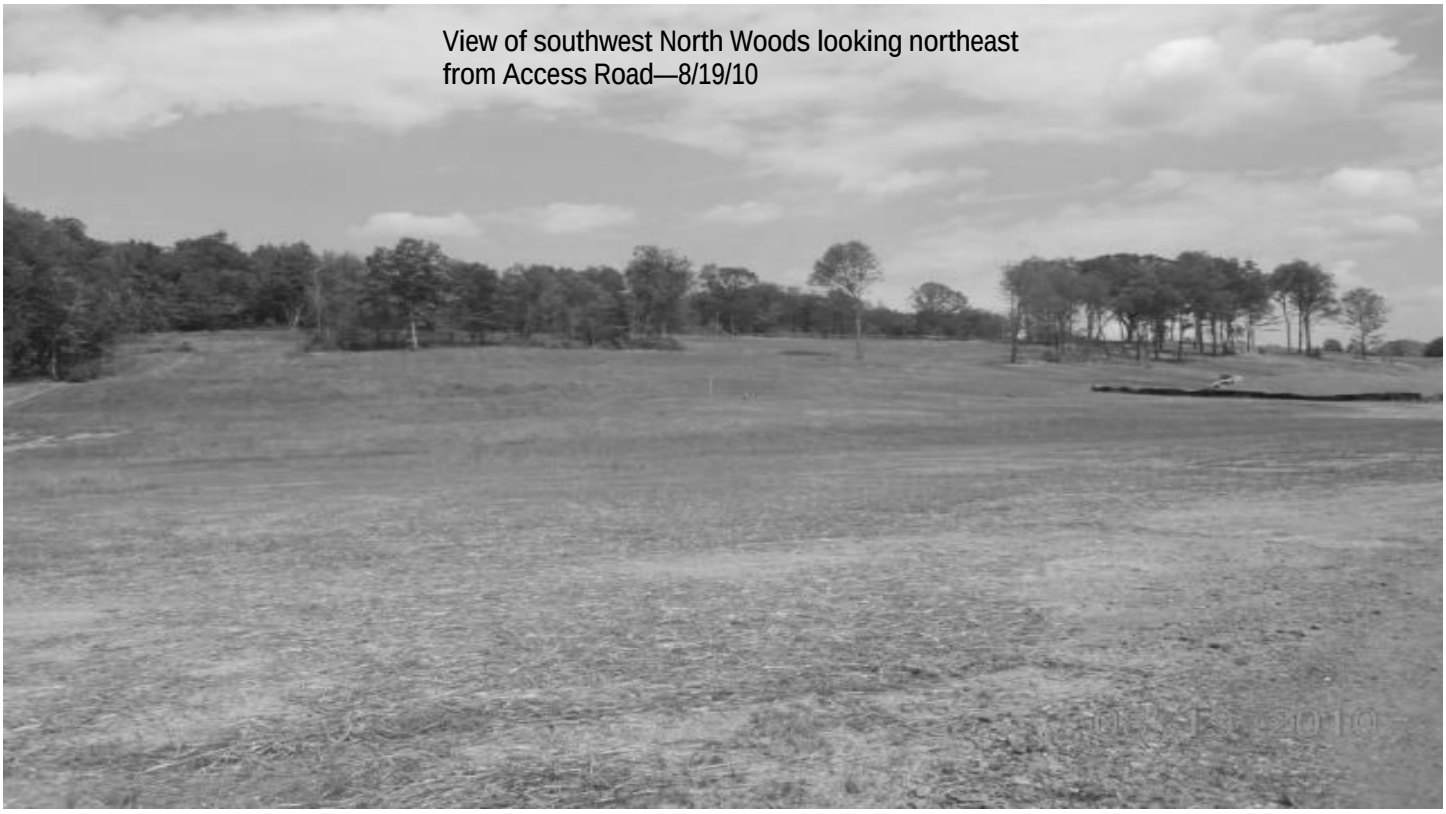
As noted previously, although not required in the USEPA/PADEP-approved 100% Design Plan, Gould has decided to continue perimeter air monitoring for the monitors that are located on-site (4 monitors) and the monitor at the Mid-Valley Secondary Center through September of 2010.

POST-CONSTRUCTION MAINTENANCE AND MONITORING

Plans for post-construction monitoring and other activities are continuing. 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 Post –Construction Monitoring Activities

Monitoring Activity	Frequency
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) and for the monitor at the Mid-Valley Secondary Center through September of 2010.
Site Inspections	Monthly for 2010, quarterly for 2011, and semi-annually after that through at least 2014. Weekly erosion inspections will take place while the NPDES Permit for the Site is in place.
Grass Mowing	Twice per growing season through at least 2014



View of southwest North Woods looking northeast from Access Road—8/19/10

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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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