

January 2011 Update

**Lowry Landfill Superfund Site**

Arapahoe County, Colorado  
(Five-Year Review Date: 2/7/2007)

**H**ighlights since the 2007 Five-Year Review Report

- Stormwater Monitoring Plan updated November 2007; Agency review and approval nearing completion
- Plume intercept wells with extraction and treatment underway

**Issues & Recommendations Update**

<b>Issues</b>	<b>Recommendations Follow-up Actions</b>	<b>Follow-up Actions (Status/Due Date)</b>	<b>Status of Follow-up Actions Jan. 2011</b>	<b>Responsible Party</b>
1) Surface water monitoring has been performed since 1996 in accordance with the "Final Interim Compliance Monitoring Plan" (February 1996). The interim compliance monitoring program for surface water was intended to provide a technical basis for development of a long-term surface water monitoring program to be implemented during and following remedial action at the site. However, the current program has been in place since 1996 and has not been reconsidered or developed into a long-term compliance monitoring program for surface water.	Develop long-term compliance monitoring plan for surface water.	COMPLETE 9/30/2007	11/1/2007  Updated Stormwater Monitoring Plan submitted November 2007; review approval by Agency near completion.	Work Settling Defendants (WSDs)

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<p>2) Recent groundwater sampling results indicate that monitoring well MW05-WD, designated as representative of background groundwater quality for inorganic contaminants, may have been impacted by the site. The groundwater performance standards for inorganics were established based on background concentrations. It may be inappropriate to include groundwater quality data from well MW05-WD in the population of data used to calculate statistics on background levels of inorganics in groundwater in the vicinity of the site. Groundwater quality data collected from an alternate monitoring well in the vicinity of MW05-WD may be more appropriate. This does not affect protectiveness since there is no current or reasonably anticipated future exposure via the drinking water pathway.</p>	<p>Evaluate the need to replace MW05-WD as a background well and if necessary, recalculate background concentrations for inorganics in shallow groundwater using data from samples collected from the replacement well as part of the background population.</p>	<p>12/17/2012</p>	<p>Technical discussion ongoing – continuing.</p>	<p>WSDs</p>

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<p>3) The chemicals 1,4 dioxane and nitrate have been detected at levels above performance standards in wells north of the site outside the effective groundwater hydraulic control area of the NBBW. The GWMP, enforceable under the Consent Decree, contains provisions for investigating the extent of the groundwater impacts and for implementing response actions to limit contaminant migration and lower the concentrations of contaminants in groundwater. In accordance with the GWMP, a groundwater investigation has been implemented north of the site and is ongoing. The investigation found 1,4-dioxane above performance standards in shallow groundwater and above State standards in surface water in Murphy Creek 2½ miles downstream of the site.</p>	<p>There is no current or reasonably anticipated future exposure to the impacted surface water or ground-water via the drinking water or vapor intrusion to indoor air pathways and the potential incidental exposures to surface water by nearby residents or recreational users such as golfers are not considered to be a public health threat. Response actions to limit migration and lower the concentrations of contaminants in groundwater are required by the GWMP and are ongoing as part of the implementation of the selected remedy.</p>	<p>GWMP On-going  2/7/2012</p>	<p>Plume intercept wells, with extraction and treatment underway. – continuing as Operation &amp; Maintenance.</p>	<p>WSDs</p>