April 3, 2008

RSE Recommendations and Progress Toward Implementation
Site Name: Claremont Polychemical (Old Bethpage, NY)
RSE Report: EPA 542-R-02-008n (March 2002)

Recommendation	Status	Progress since the previous Annual Report
Remedy Effectiveness		
6.1.1 Convert depths-to-water to water levels, survey if necessary	Implemented	Water levels through July 2006 collected by USEPA, Town of Oyster Bay (TOB), and Nassau County (NC) have been entered into the regional groundwater data base in support of ongoing groundwater modeling efforts.
6.1.2 Interpret process data and quarterly aquifer data, report results	Implemented	Groundwater monitoring reports and Data Quality Control Reports, including interpretations of process and aquifer data have been prepared through October 2006 and the report through April 2007 is underway.
6.1.3 Develop a groundwater flow model	In progress	The Region has completed the development of a regional groundwater database and flow model covering the Claremont, Fireman's Training Center and the Old Bethpage Landfill sites. A draft report summarizing the results and findings of both the database and model was prepared and presented to TOB, NC, and NYSDEC representatives at a meeting. It was determined that a significant amount of additional groundwater elevation and chemistry information was available from TOB and NC that needed to be input into the model. The last of this information was provided to EPA and was input into the regional data base to support further modeling efforts. Early modeling results showed that additional groundwater monitoring wells were required to improve the accuracy of the plume delineation. Seven additional monitoring wells have been installed. A substantial amount of additional groundwater elevation data was acquired from United States Geological Survey and input into the groundwater model. The groundwater flow model was revised and submitted to USACE and EPA for review and comment. The review and comment process is underway. Once the revised model is finalized it will be used to identify the locations of additional monitoring wells for delineation of the eastern edge of the groundwater plume. The model indicates that all contaminated groundwater from the Claremont site is being captured by the extraction well field. Additional contaminated groundwater associated with a possible up-gradient source has been identified. The model will be used to evaluate the potential for using the Claremont groundwater treatment plant to treat additional groundwater.
Cost Reduction		

6.2.1 Eliminate unused metals removal system	Under consideration	The metals removal system was rinsed with potable water and shut down in November 2005. Chemical usage and analytical costs for 42 non-VOC and VOC analysis have been eliminated due to the shut down of this system. Estimated total savings since shut down are $23,300. The future disposition and use of the metals removal system will be made based on the long term groundwater treatment requirements as discussed in section 6.1.3 above.
6.2.2 Simplify system	Under consideration	Implementation of this recommendation is also contingent upon 6.1.3.
6.2.3 Eliminate unnecessary process monitoring (also included in 6.2.1)	Implemented	Further reductions were implemented in January 2005. This effort resulted in the elimination of 24 samples per year of VOCs, Fe, Mn, and TSS, 12 samples per year for total dissolved solids and pH, and 4 samples per year of total organic carbon. The site sampling plan has been updated to reflect all changes. Estimated cost savings are $4,400 annually.
6.2.4 Attempt to relax pH discharge standard	Implemented	
6.2.5 Investigate eliminating the vapor phase carbon treatment (redundant if 6.2.2 is implemented)	Considered, then declined	
6.2.6 Optimize above-ground treatment facility of the Old Bethpage Landfill Site	Considered, then declined	
Technical Improvement		
6.3.1 Replace faulty influent flow meters	Implemented	
6.3.2 Sample with a PID influent as well as effluent for vapor phase carbon unit	Implemented	Samples of influent and effluent air were collected from the vapor phase carbon unit on three occasions, and the results were used confirmed the results of field PID screening.
6.3.3 Determine the cause of the pressure buildup of the liquid phase carbon units	Implemented	
Progress Toward Cleanup Goals		

6.4.1 Address “hot spot” contamination after analysis of aquifer data	Implemented	With the construction and monitoring of 7 additional wells EPA has refined plume delineation and identified possible up-gradient sources of groundwater contamination. The groundwater flow model was used to assess the direction where that source might have originated, and EPA’s Pre-Remedial Branch was tasked with assessing these potential sources upgradient of Claremont. Field investigations at two suspected sources have been conducted with drilling exploratory wells and sampling completed. Initial results confirm the existence of off-site contaminant sources unrelated to Claremont contamination, which have impacted a portion of the Claremont Site. Further tracking of these off-site sources as part of the Claremont RSE is no longer required since the potential for the source as been Claremont site-related is being discarded. Follow-up actions for this Claremont unrelated off-site contaminant source will be managed separately.