DEPARTMENT OF ECOLOGY

Environmental Assessment Program

Date: February 16, 2007

TO: Marv Colman, Project Manager, Toxics Cleanup Program, SWRO

FROM: Pam Marti, Hydrogeologist, EA Program
Tanya Roberts, Environmental Specialist, EA Program

THROUGH: Will Kendra, Section Manager, EA Program
Darrel Anderson, Unit Supervisor, EA Program

SUBJECT: **ADDENDUM TO QUALITY ASSURANCE PROJECT PLAN AMERICAN PLATING POST-INTERIM ACTION MONITORING**

STUDY TRACKER CODE: 04-062-04
PUBLICATION NO: 04-03-105Add

This addendum is to document that this project is extended another year to provide Ecology's Toxics Cleanup Program with additional post-interim action groundwater monitoring data for dissolved metals (cadmium, chromium, hexavalent chromium, copper, and nickel) and weak acid dissociable (WAD) cyanide.

Because dissolved nickel concentrations exceeded the groundwater cleanup standard of 8.2 ug/L established for this site, Ecology has continued to monitor the groundwater quality. Dissolved nickel concentrations have ranged from 1 to 62 ug/L. Dissolved chromium concentrations, which have been detected in four of the wells, also continue to be elevated with concentrations ranging from 16 to 104 ug/L. Samples for hexavalent chromium have been collected and analyzed since August 2005. Dissolved hexavalent chromium has not been detected in any of the samples.

Well MW-10, which has been part of the monitoring program since February 2004, was damaged during 2006. Samples collected from this well in 2004 and 2005 had dissolved nickel concentrations ranging from 29 to 62 ug/L which exceeded the groundwater cleanup standard of 8.2 ug/L for this site. Well MW-10 should be decommissioned.

Well MW-10 was also sampled for volatile organics due to its location next to Building 1, which housed a degreasing tank. A variety of volatile organics, including vinyl chloride, have been detected in this well at concentrations near the practical quantitation limit of 1 ug/L. Well MW-5, which is downgradient of well MW-10, will be sampled for volatile organics in its place.

Schedule

Monitoring Period Extended an Additional Year

The monitoring program is extended another year to continue to provide TCP with post-interim action analytical data. Project milestones and projected dates of completion are listed below. At the end of the monitoring year, all data will be evaluated and summarized in a technical memorandum.

Milestone	**Date**
QAPP Addendum	March 2007
Groundwater Sampling	April and September 2007
Draft Memo	October 2007
Final Memo	November 2007

All field measurements and analytical result data will be made available in electronic format on Ecology's EIM data management system: www.ecy.wa.gov/eim/index.htm.

Environmental Information System (EIM) Data Set (If Applicable)	
EIM Data Engineer	Tanya Roberts
EIM User Study ID	AMERPLAT
EIM Study Name	American Plating Post-Interim Action Groundwater Monitoring Results
EIM Completion Due	November 2007
Final Report	
Report Author Lead	Pam Marti
Schedule	
Report Supervisor Draft Due	Darrel Anderson: October 2007
Report Client/Peer Draft Due	Marv Coleman: October 2007
Report Final Due (Original)	November 2007

Budget

The estimated laboratory budget for one year of semi-annual sampling is $1,700, which covers the analytical costs for groundwater samples and laboratory quality assurance charges as shown in the following table. Estimates reflect the 50% discount that Ecology programs receive at Manchester Environmental Laboratory.

Estimated Laboratory Cost by Parameter Per Sample Quarter

Parameter	Predicted Number of Samples	Quality Control Samples	Cost Per Sample	Estimate Total Lab Cost
Dissolved Metals	5	2	$150	$1,050
WAD Cyanide	5	2	$54	$374
VOAs	1	1	$150	$300

cc: Bob Warren, Unit Supervisor, TC Program, Southwest Regional Office
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