

Aerial Photograph Taken May 23, 2002.

- Legend**
- Areas
 - COPR Extent (CH2M HILL, 2009)
 - County/City Boundary
 - Railroad Centerline

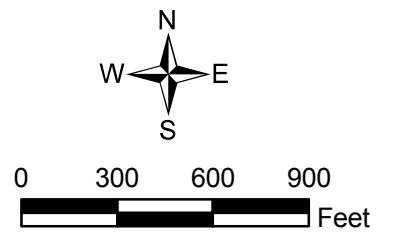
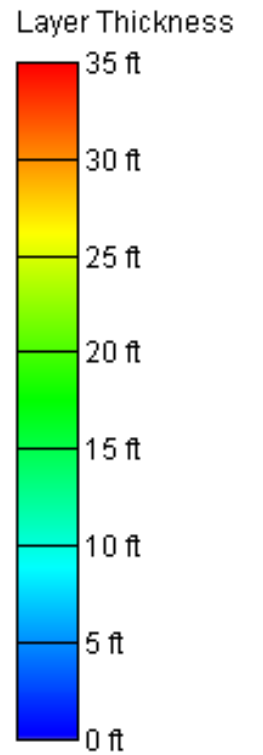
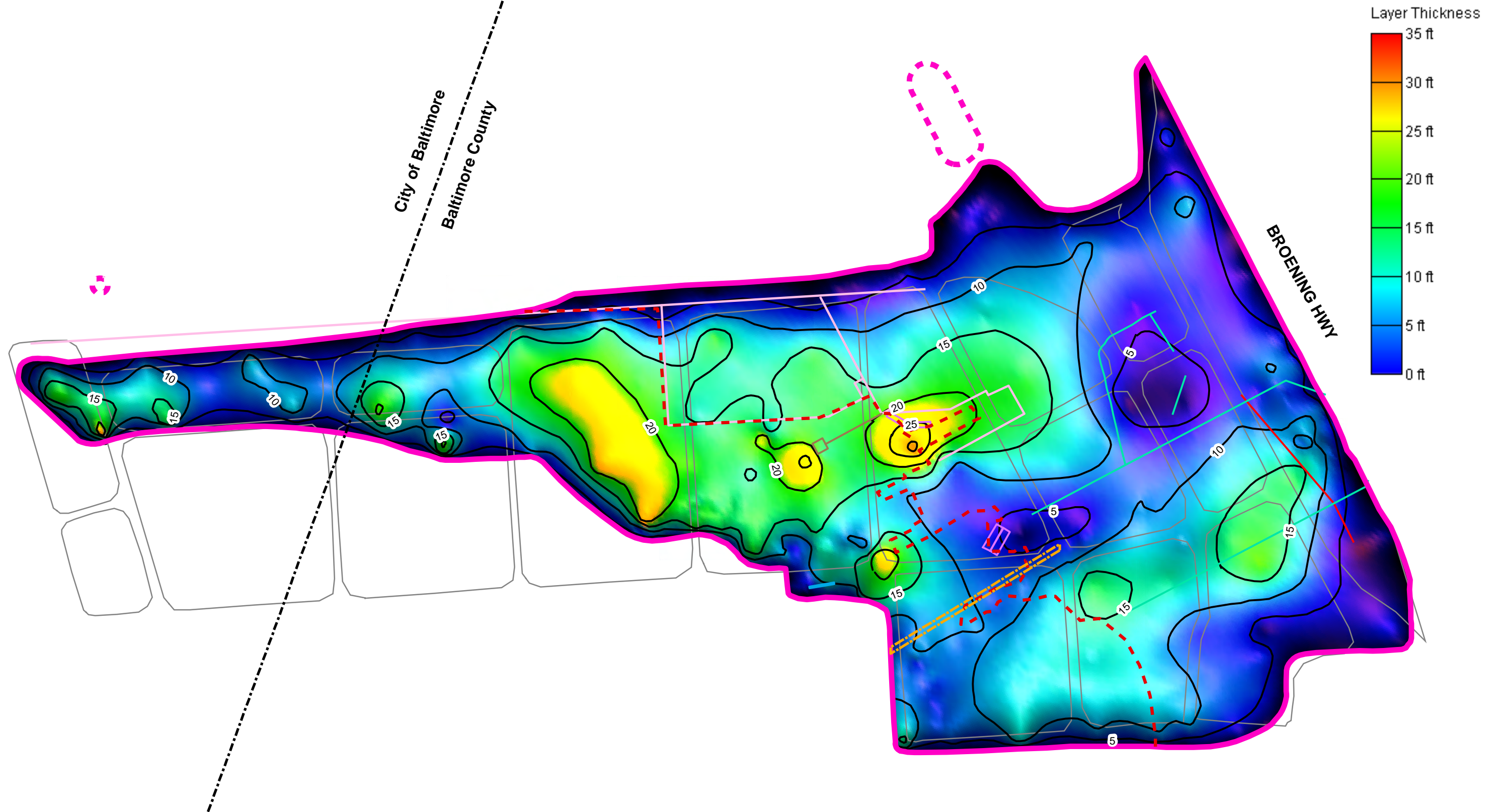


Figure 2-1
 Site Vicinity Map
 Chromium Transport Study
 Dundalk Marine Terminal
 Baltimore, Maryland



- Legend**
- 15th Street COPR Removal
 - COPR Extent (CH2M Hill, 2009)
 - Areas
 - Extent of shoreline and bulkhead from early aerial photography
 - County/City Boundary
 - Approximate COPR Extent

Created By: BHH 04/03/09
 Checked By: CJH 04/03/09
 Approved By: BML 05/19/09

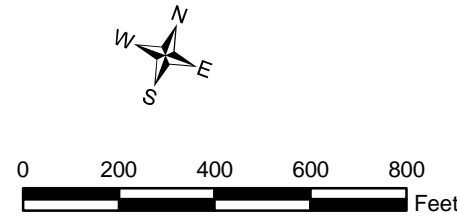
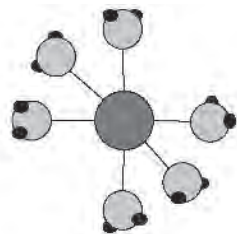
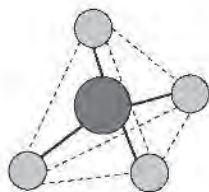


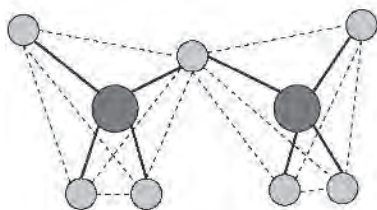
Figure 2-3
 COPR Isopach Map
 COPR Investigation Report
 Dundalk Marine Terminal
 Baltimore, Maryland



(a) $\text{Cr}(\text{H}_2\text{O})_6^{3+}$

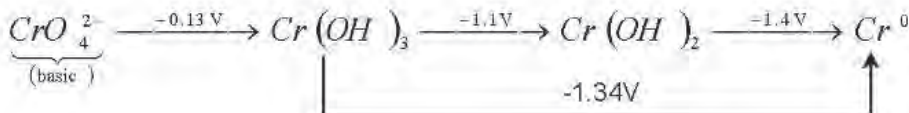
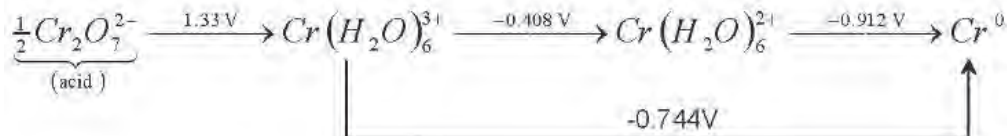


(b) CrO_4^{2-}

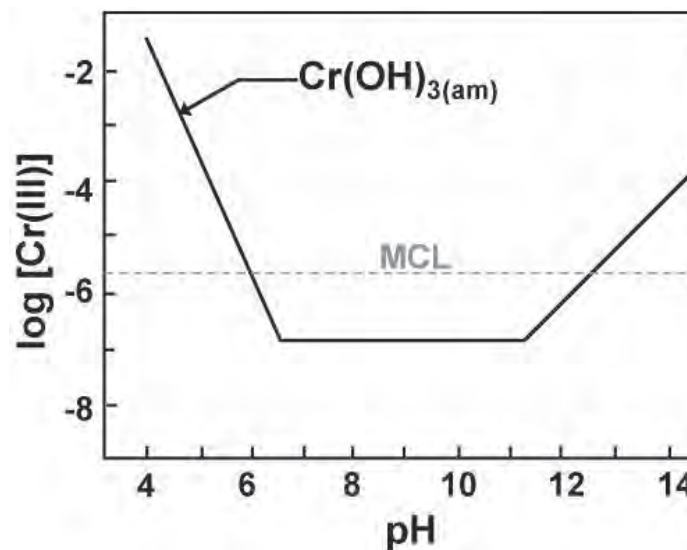


(c) $\text{Cr}_2\text{O}_7^{2-}$

(a) Common forms of Chromium

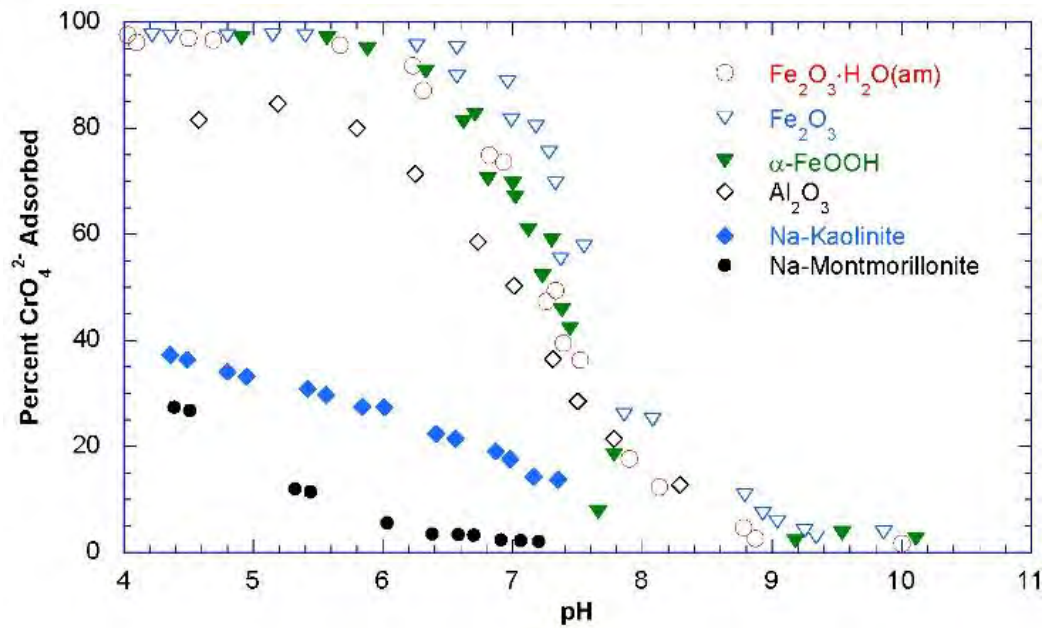
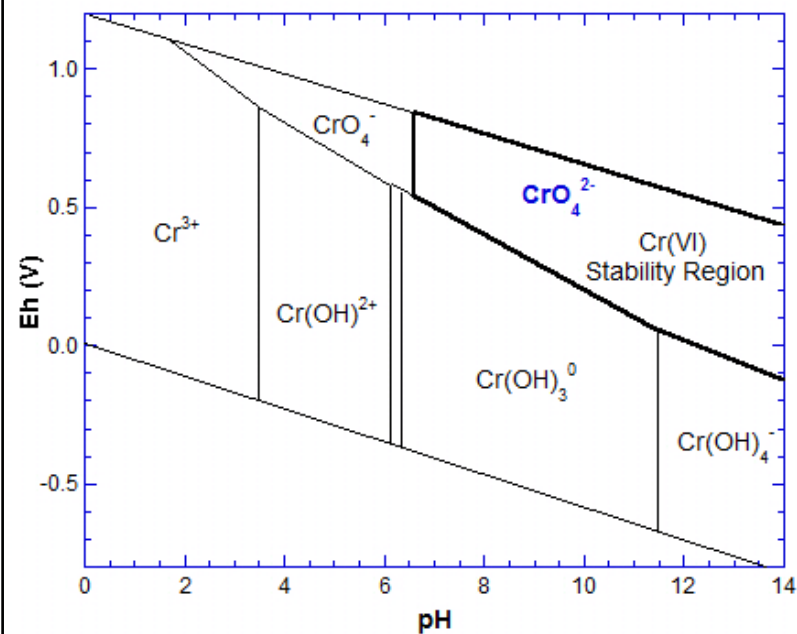
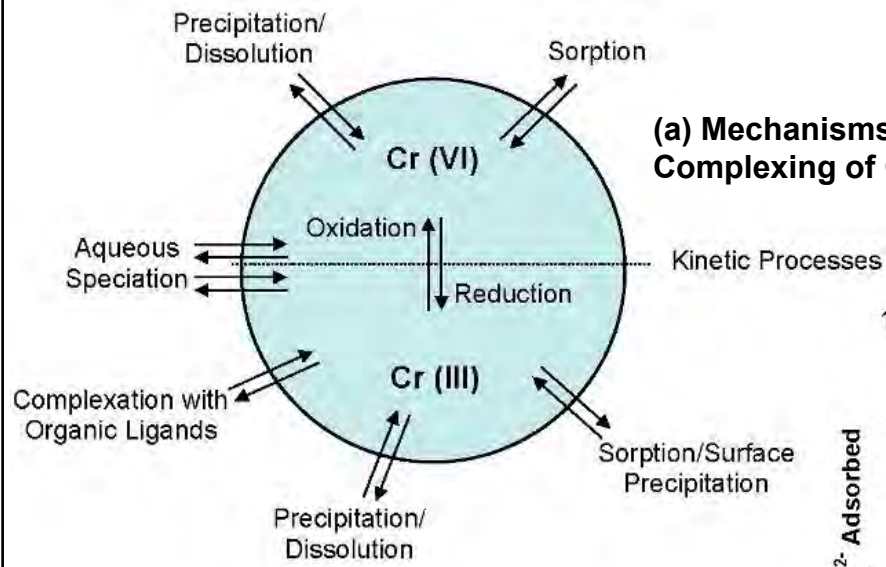


(b) Latimer Diagram for Chromium



(c) Equilibria of $\text{Cr}(\text{OH})_3$ with pH

Figure 2-4
Chemistry of Chromium
Chromium Transport Study
Dundalk Marine Terminal, Baltimore, Maryland



(b) Eh-pH Diagram for Chromium Species

(c) Chromate Adsorption to a Variety of Mineral Types (Rai et al., 1989) and Iron Hydroxide-Dominated, Kaolinitic, and Montmorillonitic Soils (Zachara et al., 1989)

Figure 2-5
Chromium Stability in the Environment
Chromium Transport Study
Dundalk Marine Terminal, Baltimore, Maryland