Legend

- Road
- Railroad
- Active Tailings Impoundment

Contour Elevation (in feet)

- 2000 - 2040
- 2041 - 2100
- 2101 - 2160
- 2161 - 2260
- 2261 - 2310

Note: Contour Interval = 10 feet

N W E S

0 240 480 960 Feet

Aerial Source: Environmental Protection Agency, 2004.

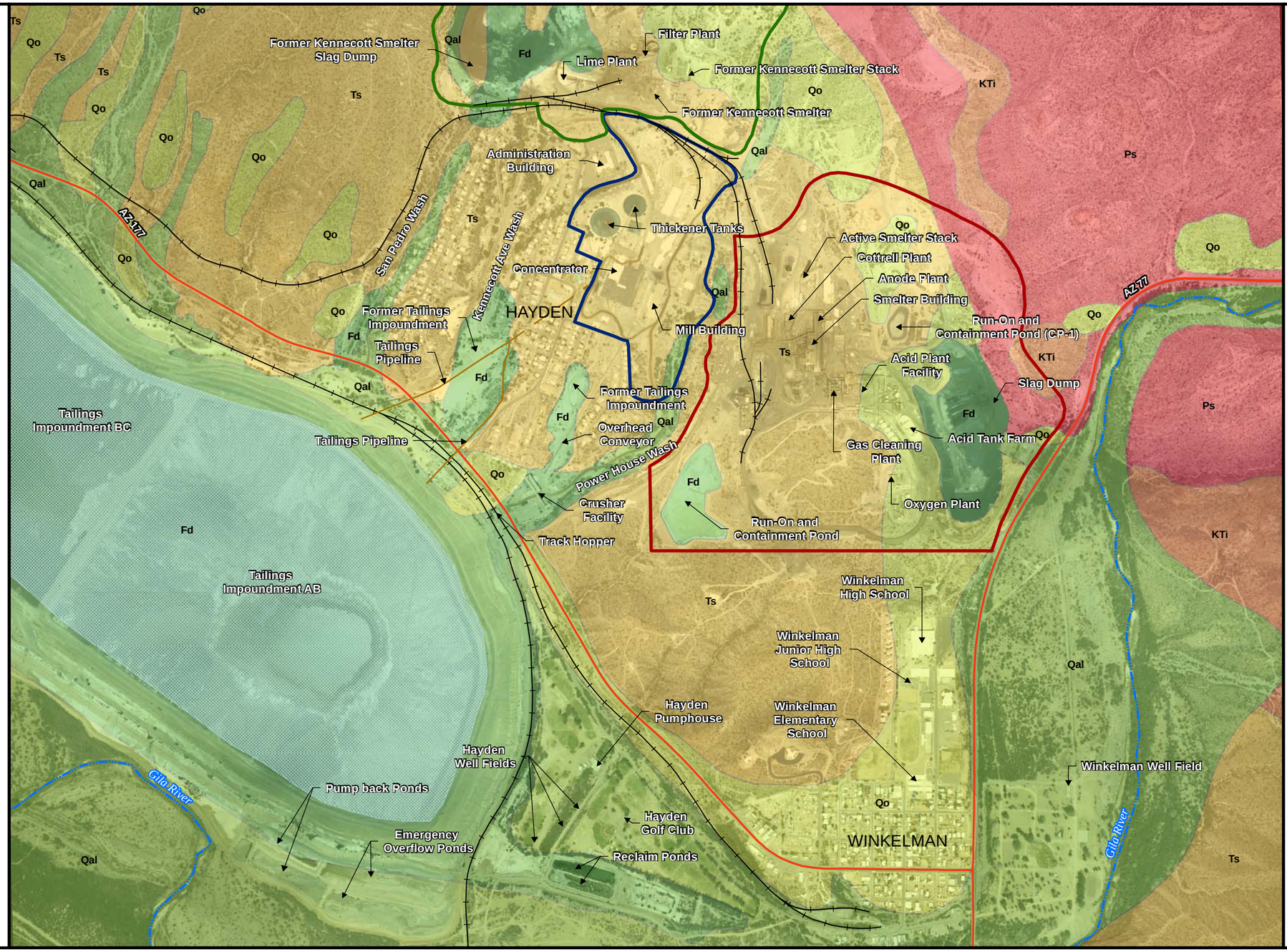
FIGURE 2-1
KEY FEATURES OF STUDY AREA WITH TOPOGRAPHIC CONTOURS

ASARCO, LLC Hayden Plant Site
Hayden, Arizona

DRAFT

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\ASARCO\MAPFILES\03_FINAL\FIG2-1_KEY_FEATURES_OF_STUDY_AREA_CONTOURS_17X22.MXD TJW 6/13/2008 18:18:26



Legend

- Road
- Railroad
- River
- Tailings Pipeline - Above Ground
- Tailings Pipeline - Underground
- Active Tailings Impoundment
- ASARCO Hayden Smelter Boundary
- ASARCO Concentrator Boundary
- Former Kennecott Smelter Boundary

Geology Formation

- Fd - Fill Material
- Qal - Quaternary Alluvium
- Qo - Older Quaternary Deposits
- Ts - Tertiary Sediments and Airfall Deposits
- KTi - Cretzceous/Tertiary Intrusive and Volcanic
- Ps - Paleozoic Sediments and Metasediments

N W E S

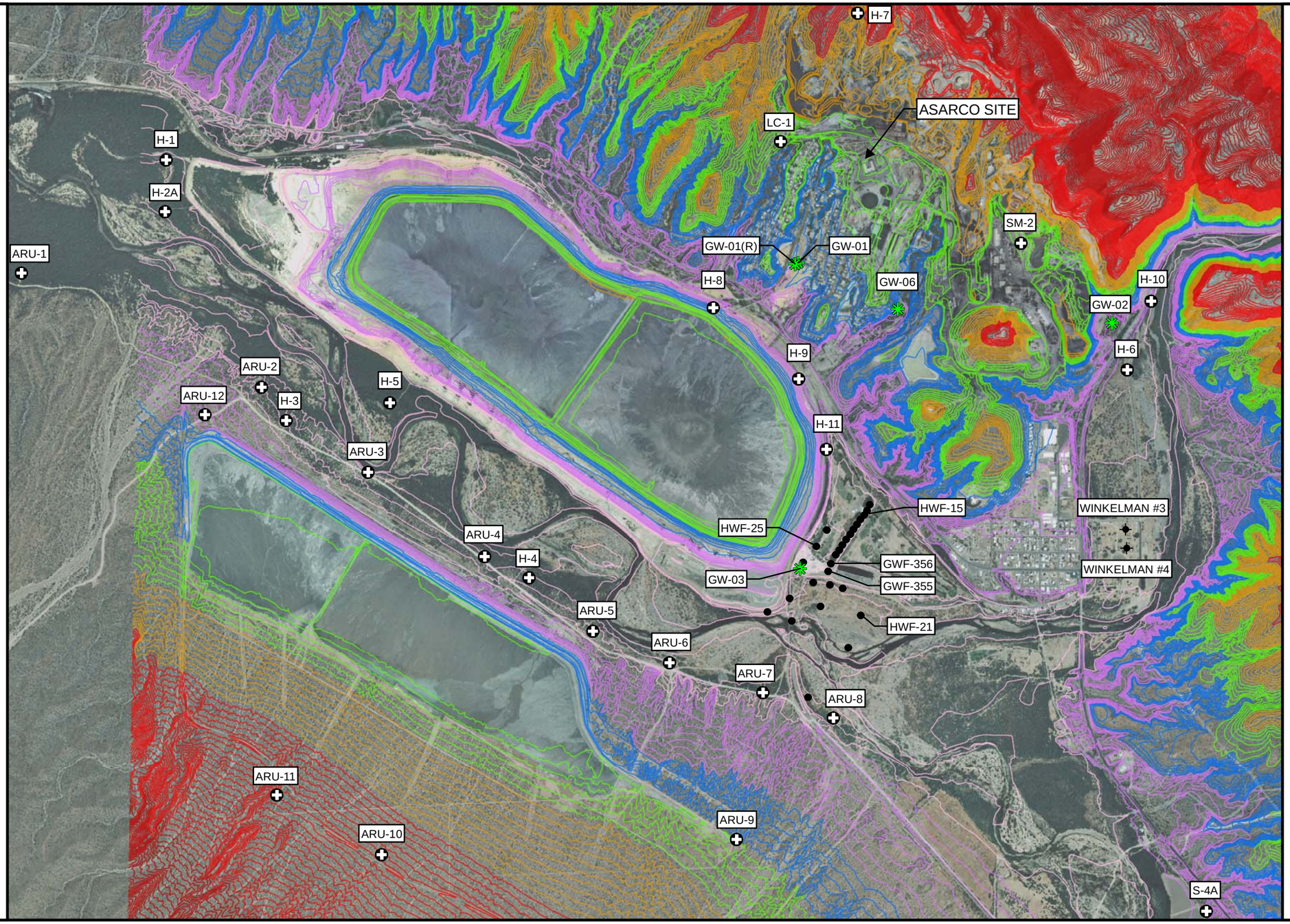
0 600 1,200 2,400 Feet

Aerial Source: Environmental Protection Agency, 2004.

FIGURE 2-2
GEOLOGIC MAP
ASARCO, LLC Hayden Plant Site
Hayden, Arizona
DRAFT

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\ASARCO\MAPFILES\03_FINAL\FIG2-2_GEOLOGIC_MAP.MXD TJW 6/13/2008 16:41:37



Legend

- Installed Well for RI Investigation
- Monitor Well
- Hayden Production Well
- Winkelman Production Well

Contour Elevation (in feet)

- 1910 - 1970
- 1971 - 2040
- 2041 - 2100
- 2101 - 2160
- 2161 - 2260
- 2261 - 2500
- 2501 - 3000

Note: Contour Interval = 10 feet

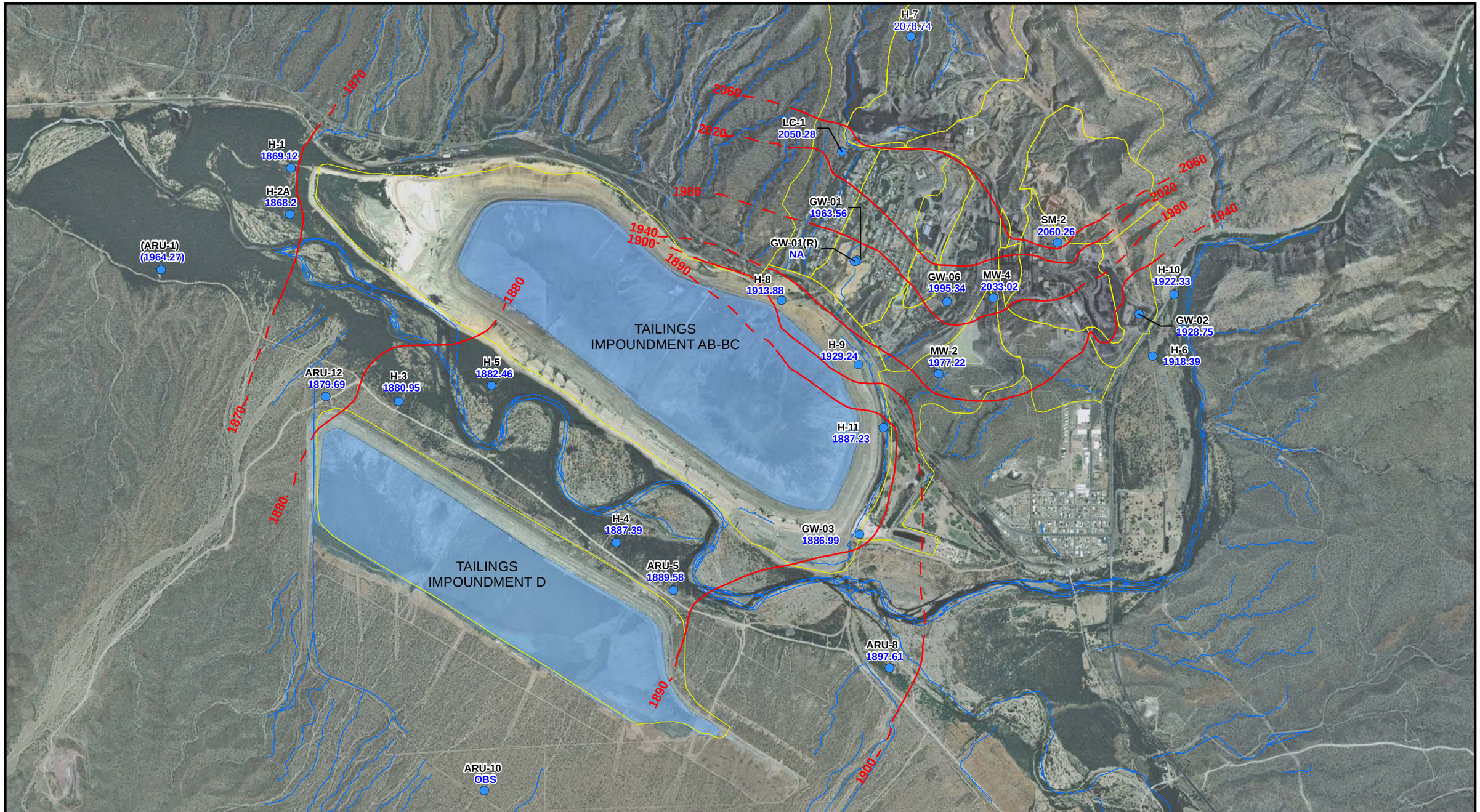
N W E S

0 1,000 2,000 4,000 Feet

Aerial Source: ESRI I3 Imagery Prime World 2D dataset, April 26, 1992; October 12, 1992; June 17, 2005.

FIGURE 2-3
MONITORING WELL AND PRODUCTION WELL LOCATIONS
ASARCO, LLC Hayden Plant Site
Hayden, Arizona
DRAFT
CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\ASARCO\MAPFILES\03_FINAL\FIG2-3_MONITORING_&_PRODUCTION_WELL_LOCATIONS.MXD TJW 6/13/2008 18:13:22



Legend

- H-7 — Groundwater Well ID
- 2078.74 — Groundwater elevation in feet above mean sea level (MSL)
- Groundwater Well Location
- Groundwater elevation contour in feet above MSL, dashed where inferred
- Drainage Area Boundary
- Stream
- Tailings Impoundment

Notes:

[1] NA = Not Analyzed (no measurements collected)
[2] OBS = Obstruction to well resulting in no elevation data
[3] (ARU-1) = Excluded from contouring
[4] Contour interval is 40 Ft in the upland area and 10 Ft in Gila Alluvium.
[5] Aerial Source: ESRI I3 Imagery Prime World 2D dataset, April 26, 1992; October 12, 1992; June 17, 2005.

N W E S

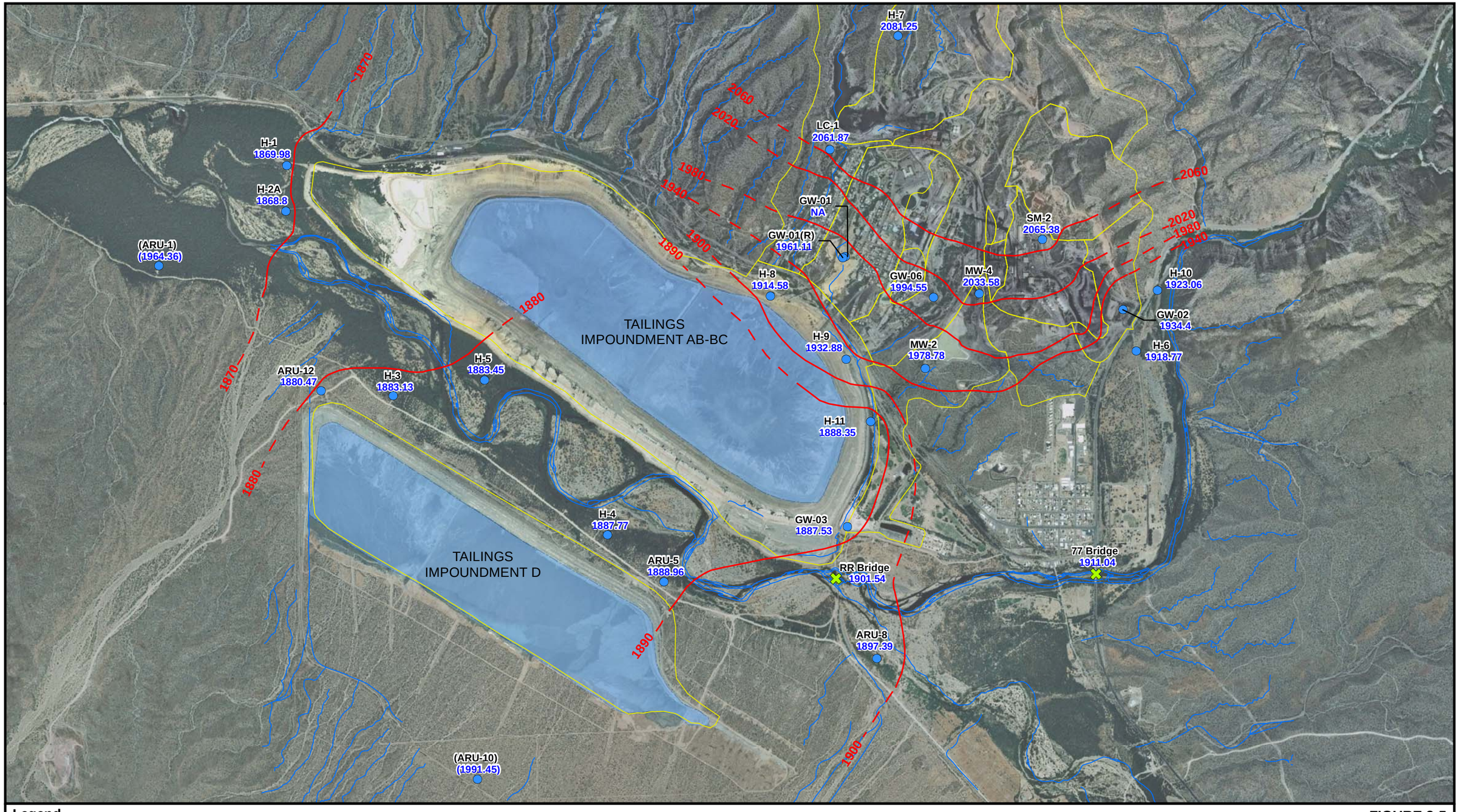
0 1,000 2,000 4,000 Feet

FIGURE 2-4
GROUNDWATER ELEVATION CONTOUR MAP
FEBRUARY 2006
ASARCO, LLC Hayden Plant Site
Hayden, Arizona
The data on this figure are derived from table 4-28.

DRAFT

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\ASARCO\MAPFILES\03_FINAL\FIG2-4_GW_ELEVATION_CONTOURS_FEBRUARY2006.MXD TJW 7/24/2008 18:13:45



Legend

- H-7 / 2081.25 — Groundwater Well ID; Groundwater elevation in feet above mean sea level (MSL)
- Groundwater Well Location
- RR Bridge / 1901.54 — Surface Water Sample ID; Surface Water elevation in feet above mean sea level (MSL)
- Surface Water Sample Location
- Groundwater elevation contour in feet above MSL, dashed where inferred
- Drainage Area Boundary
- Stream
- Tailings Impoundment

Notes:

1. NA = Not Analyzed (no measurements collected)
2. (ARU-1) = Excluded from contouring
3. (ARU-10) = Excluded from contouring
4. Contour interval is 40 Ft in the upland area and 10 Ft in Gila Alluvium.
5. Aerial Source: ESRI I3 Imagery Prime World 2D dataset, April 26, 1992; October 12, 1992; June 17, 2005.

N W E S

0 1,000 2,000 4,000 Feet

FIGURE 2-5
GROUNDWATER ELEVATION CONTOUR MAP
OCTOBER 2006
ASARCO, LLC Hayden Plant Site
Hayden, Arizona
The data on this figure are derived from table 4-28.

DRAFT

CH2MHILL

\\MADISON\GROUPS\EMS\GIS_LIBRARY\ASARCO\MAPFILES\03_FINAL\FIG2-5_GW_ELEVATION_CONTOURS_OCTOBER2006.MXD TJW 7/24/2008 18:15:55