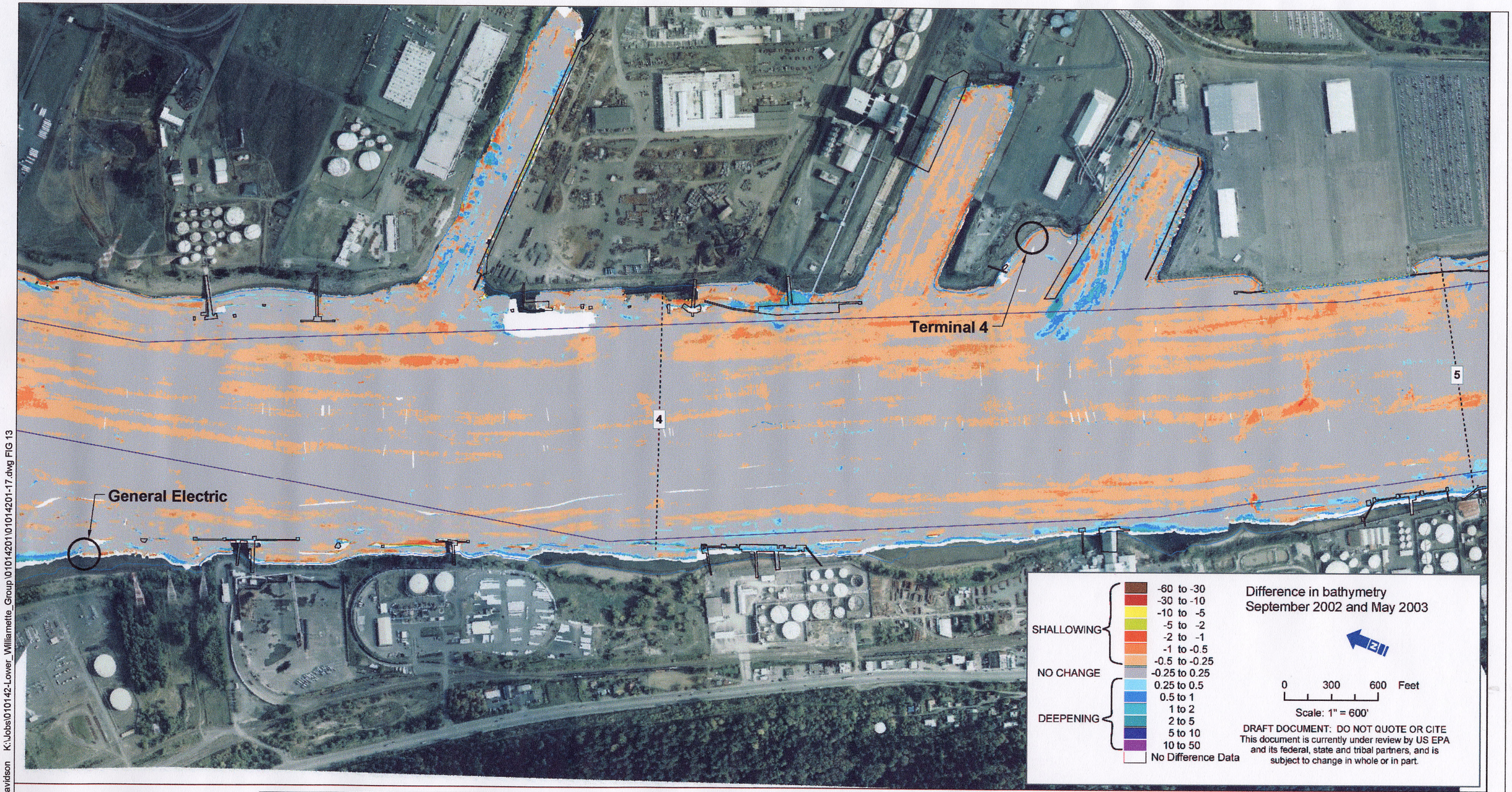


LEGEND:
- Dock & structures 2001
- River miles
- Navigation Channel
- 2001 River Edge
- Bridges

FEATURE SOURCES:
Transportation, Water, Property, Zoning or Boundaries:
Metro RLIS .
Channel: Developed from US Army Corps of Engineers information.

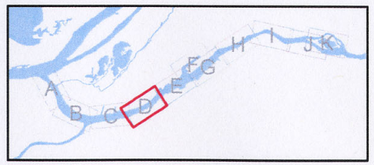
MULTIBEAM BATHYMETRIC SURVEY:
David Evans and Associates, Inc.
Date of Survey: May 2003.
Horizontal Datum: North American Datum of 1983 – 91 adj. (NAD83/91).
State Plane Coordinate System (SPCS). Oregon North Zone, International Feet.
Vertical Datum: North American Vertical Datum of 1988 (NAVD88).

NOTES:
The September 2002 survey occured in July and Sept. 2002.
The May 2003 survey occured in May 2003.
Horizontal Datum: North American Datum of 1983 – 91 adj. (NAD83/91).
State Plane Coordinate System (SPCS). Oregon North Zone, International Feet.
Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
The sun-illuminated image was generated from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data in Caris HIPS software.
Horizontal positions were acquired with an Applanix POS/MV combined inertial Differential Global Positioning System (DGPS) and inertial navigation system augmented by a Trimble MS 750 dual-frequency RTK receiver.
Depths were acquired with a Reson Seabat 8101 multibeam bathymetric sonar integrated with an Applanix POS/MV positioning and motion reference system.

Mar 05, 2004 11:28am cdavidson K:\Jobs\010142-Lower_Willamette_Group\01014201\01014201-17.dwg FIG 13

ANCHOR ENVIRONMENTAL, L.L.C.

Figure 13
Bathymetric Changes Determined from Surveys Performed in September 2002 and May 2003 - River Miles 3 to 5
Lower Willamette River



LEGEND:
- Dock & structures 2001
- River miles
- Navigation Channel
- 2001 River Edge
- Bridges

FEATURE SOURCES:
Transportation, Water, Property, Zoning or Boundaries:
Metro RLIS .
Channel: Developed from US Army Corps of Engineers information.

MULTIBEAM BATHYMETRIC SURVEY:
David Evans and Associates, Inc.
Date of Survey: May 2003.
Horizontal Datum: North American Datum of 1983 – 91 adj. (NAD83/91),
State Plane Coordinate System (SPCS), Oregon North Zone, International Feet.
Vertical Datum: North American Vertical Datum of 1988 (NAVD88).

NOTES:
The September 2002 survey occured in July and Sept. 2002.
The May 2003 survey occured in May 2003.
Horizontal Datum: North American Datum of 1983 – 91 adj. (NAD83/91),
State Plane Coordinate System (SPCS), Oregon North Zone, International Feet.
Vertical Datum: North American Vertical Datum of 1988 (NAVD88).
The sun-illuminated image was generated from a Digital Terrain Model (DTM) based on a three-foot grid of multibeam data in Caris HIPS software.
Horizontal positions were acquired with an Applanix POS/MV combined inertial Differential Global Positioning System (DGPS) and inertial navigation system augmented by a Trimble MS 750 dual-frequency RTK receiver.
Depths were acquired with a Reson Seabat 8101 multibeam bathymetric sonar integrated with an Applanix POS/MV positioning and motion reference system.

Mar 05, 2004 10:29am cdavidson K:\Jobs\010142-Lower_Willamette_Group\01014201\01014201-18.dwg FIG 14

ANCHOR ENVIRONMENTAL, L.L.C.

Figure 14
Bathymetric Changes Determined from Surveys Performed in September 2002 and May 2003 - River Miles 5 to 7
Lower Willamette River