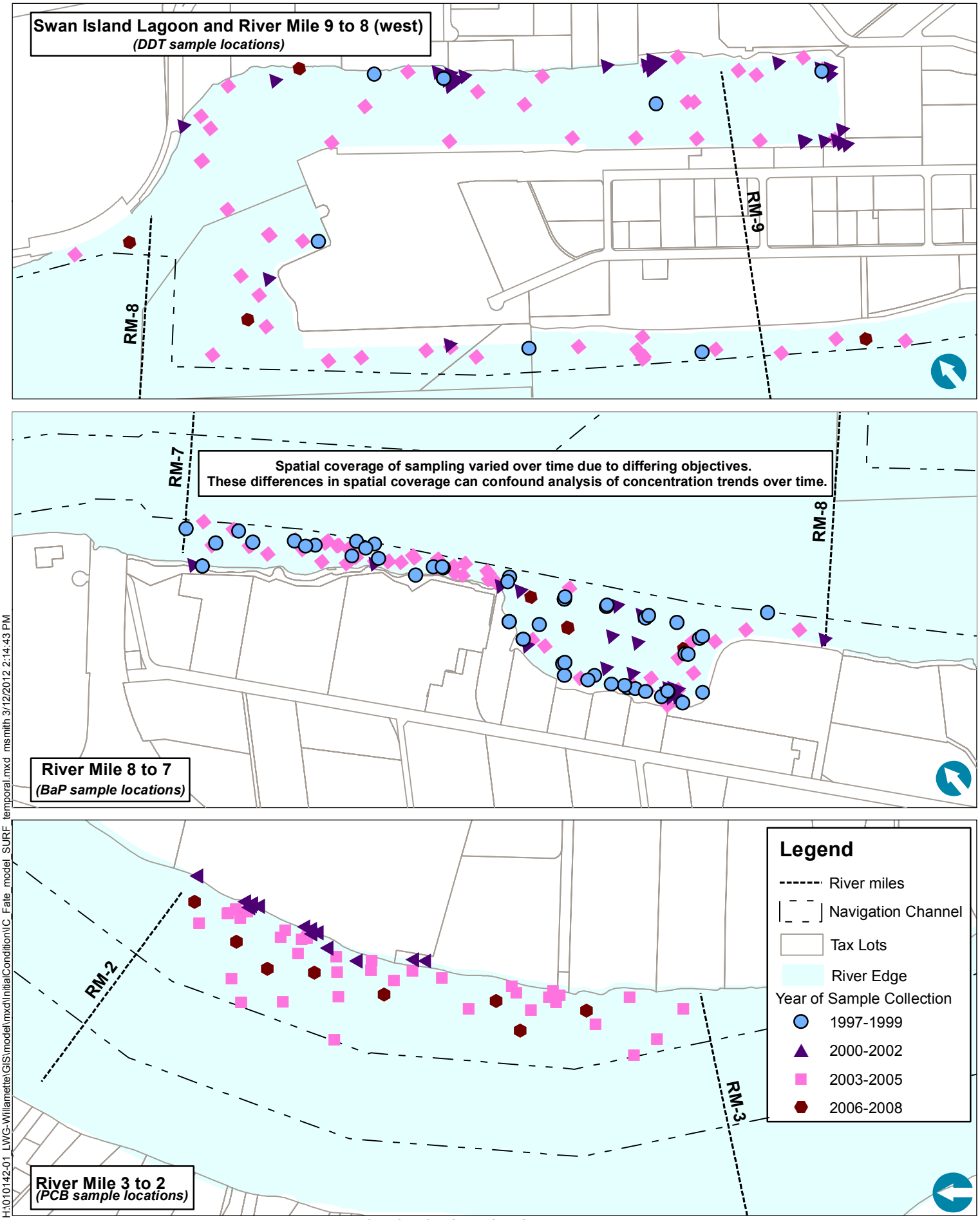

H:\010142-01_LWG-Willamette\GIS\model\mxd\InitialCondition\IC_Fate_model_SURF_temporal.mxd msmith 3/12/2012 2:14:43 PM

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LWG Lower Willamette Group

0 245490 980 Feet

Figure 6.2-16
Portland Harbor RI/FS
Draft Feasibility Study
Example Spatial and Temporal Coverage of Surface Sediment Data

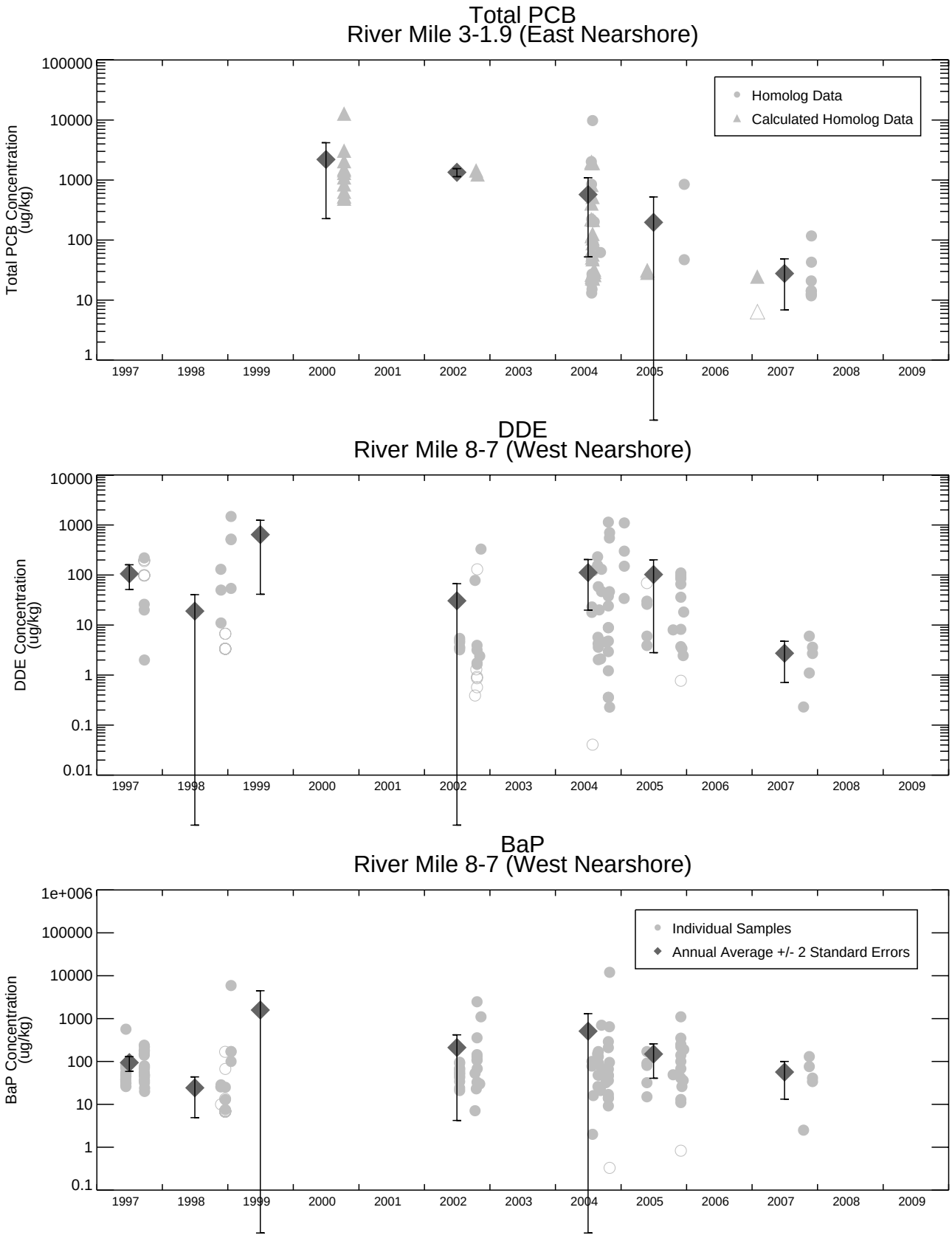

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Figure 6.2-17

Portland Harbor RI/FS

Draft Feasibility Study

Example Time Series of Surface Sediment (Top 1-ft) Data.

Open symbols represent non-detect data plotted at the detection limit.

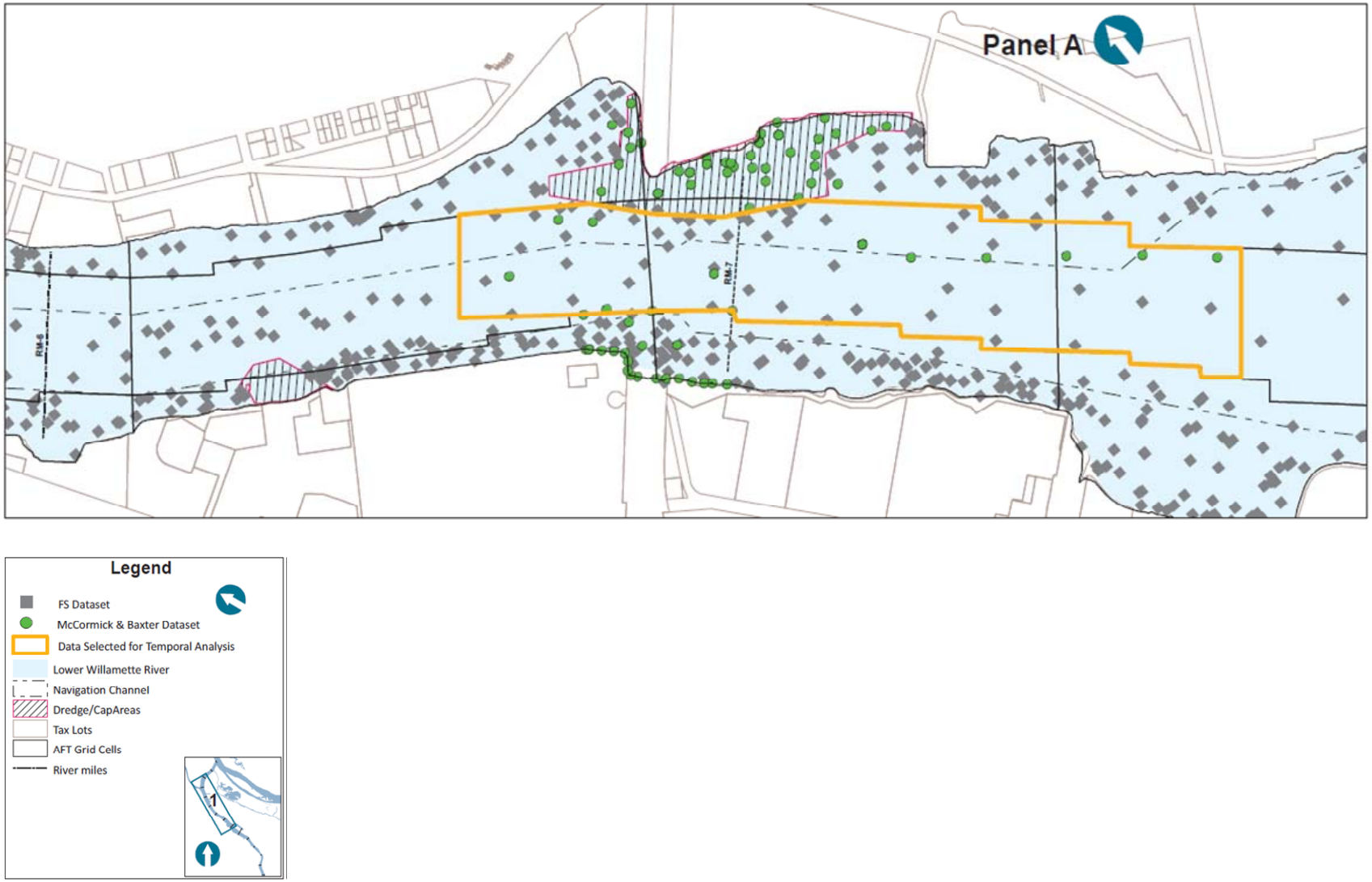

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Figure 6.2-18
Portland Harbor RI/FS
Draft Feasibility Study Report
McCormick & Baxter Data Set Included in Temporal Analysis

Area having long-term data exhibits statistically significant decline in surface sediment PAH concentrations over time

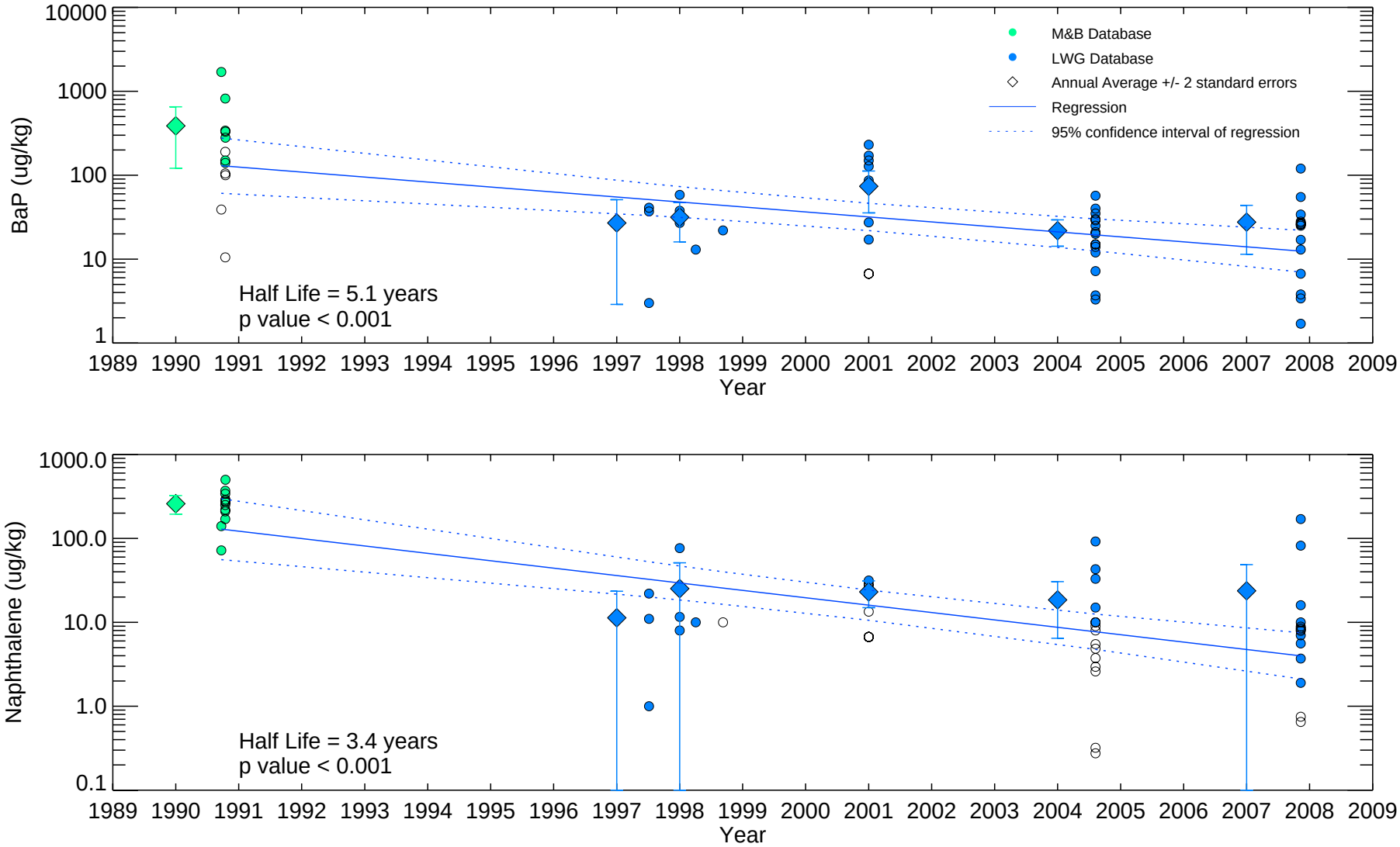

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Figure 6.2-19

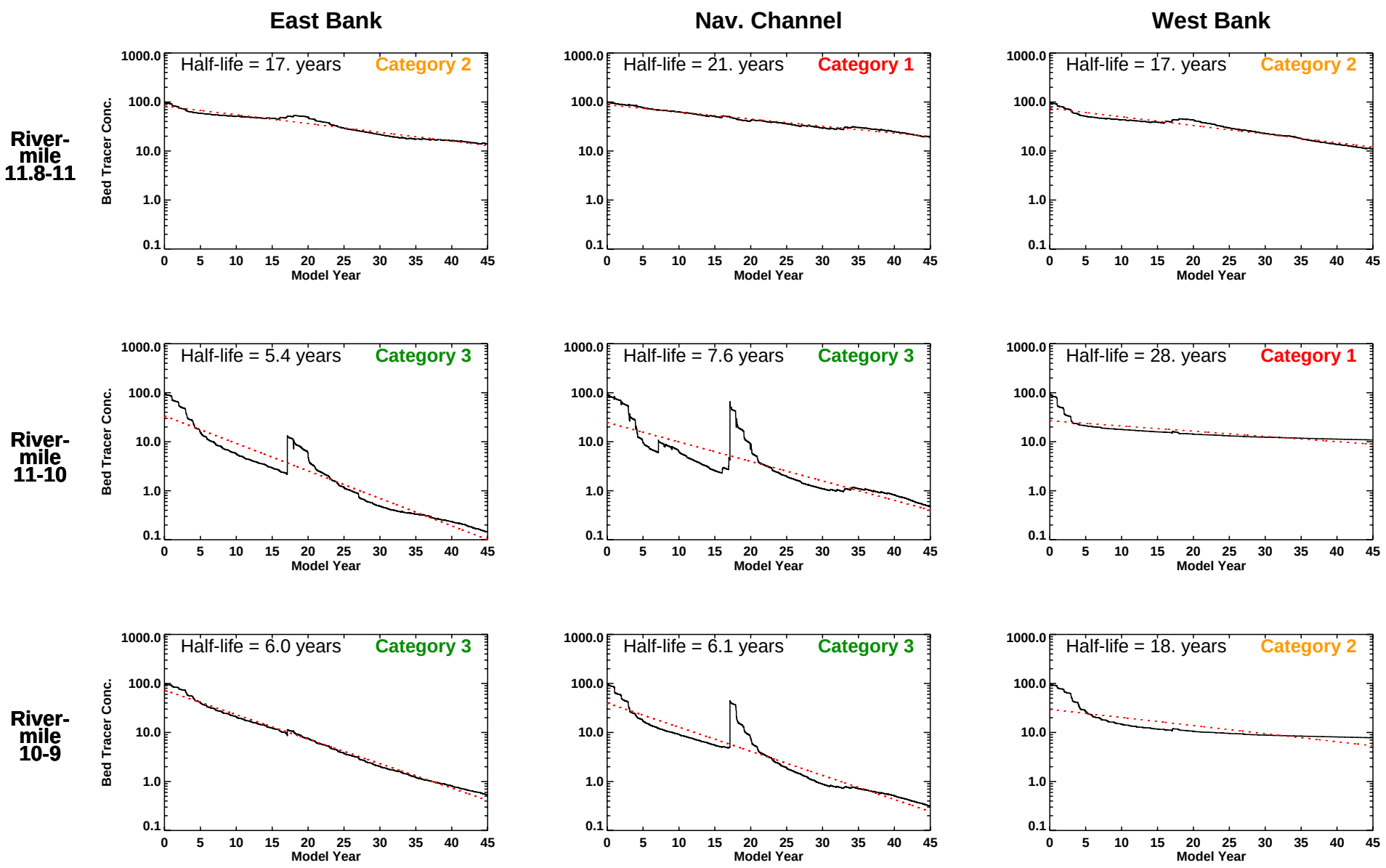
Portland Harbor RI/FS

Draft Feasibility Study

Evaluation of Long-term Surface Sediment Temporal Trends in the River Mile 7 Area

Non-detect samples set to 1/2 detection limit and plotted with open symbols.

MJR - B:\Projects\Lower_Willamette_Group\Lower_Willamette_Group_(010142-01)\Analysis\Sediment\LWG_Sediment_Temp_MB_figure6_2_19.pro Mon Mar 12 13:24:47 2012



Model
Half-life fit

Category 1: Half-life > 20 years
Category 2: Half-life 10 - 20 years
Category 3: Half-life < 10 years

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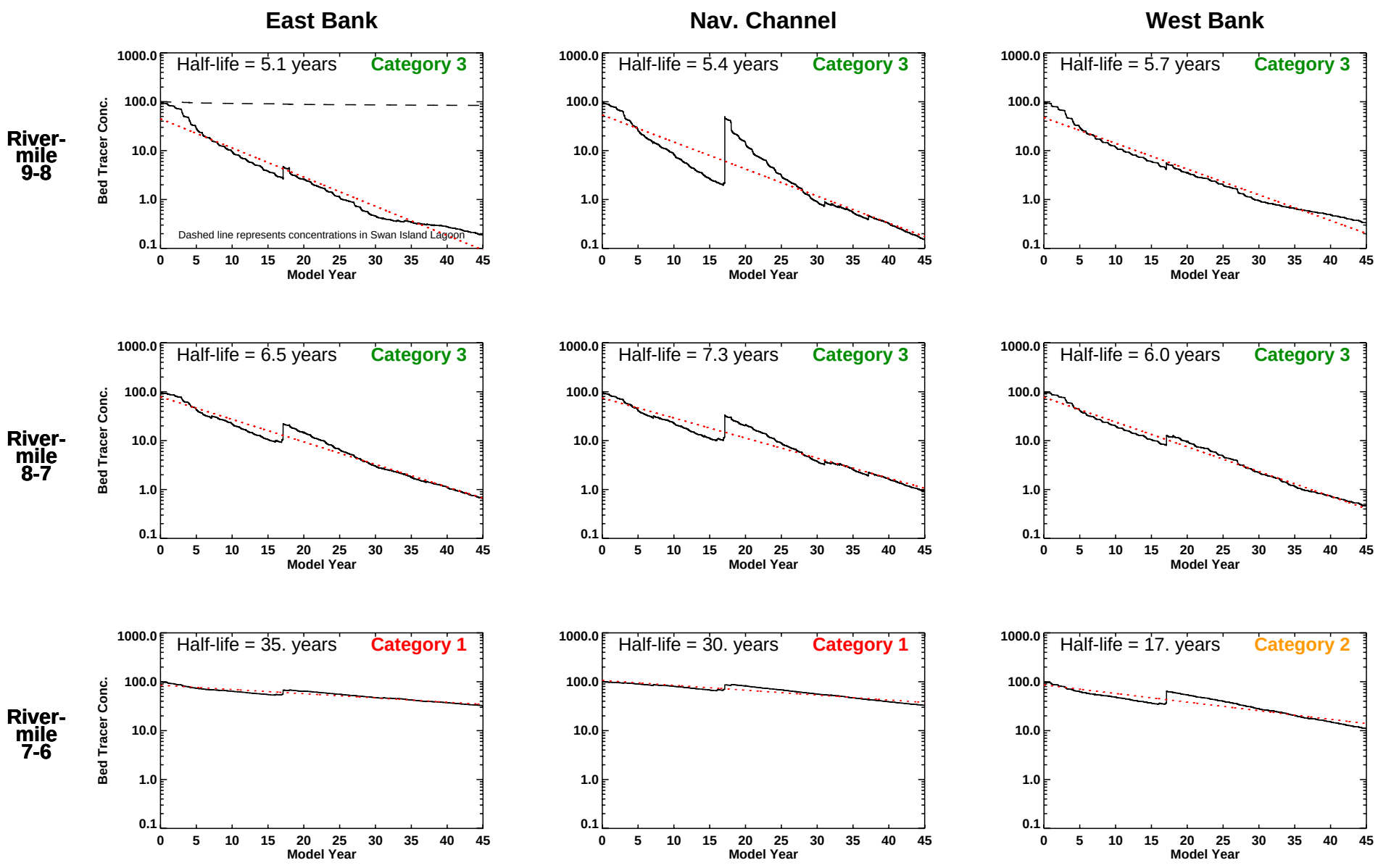
Figure 6.2-20a
Portland Harbor RI/FS
Draft Feasibility Study
Average Surface Sediment (Top 1-ft) Tracer Concentrations by River Mile.
Half-life calculated from model results spanning all years

DR - H:\010142-01_LWG-Willamette\model\Analysis\FS_Report\MNR_eval\plot_chem_bed_temp_EMW_bat_proj_45_SIL.pro Mon Mar 12 15:16:59 2012



Model
Half-life fit

Category 1: Half-life > 20 years
Category 2: Half-life 10 - 20 years
Category 3: Half-life < 10 years

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Figure 6.2-20b
Portland Harbor RI/FS
Draft Feasibility Study
Average Surface Sediment (Top 1-ft) Tracer Concentrations by River Mile.
Half-life calculated from model results spanning all years

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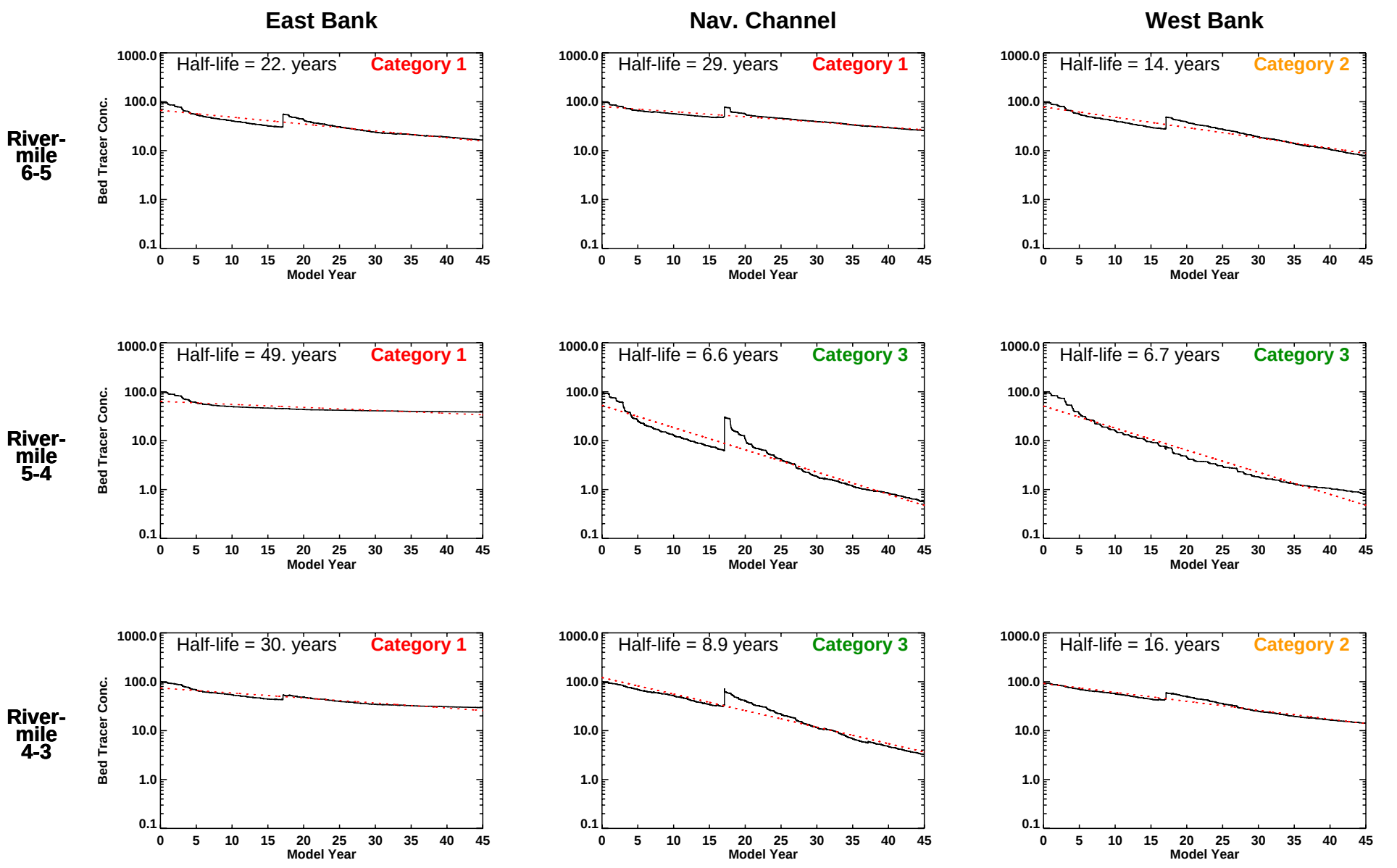

Category 1: Half-life > 20 years
Category 2: Half-life 10 - 20 years
Category 3: Half-life < 10 years

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Figure 6.2-20c

Portland Harbor RI/FS

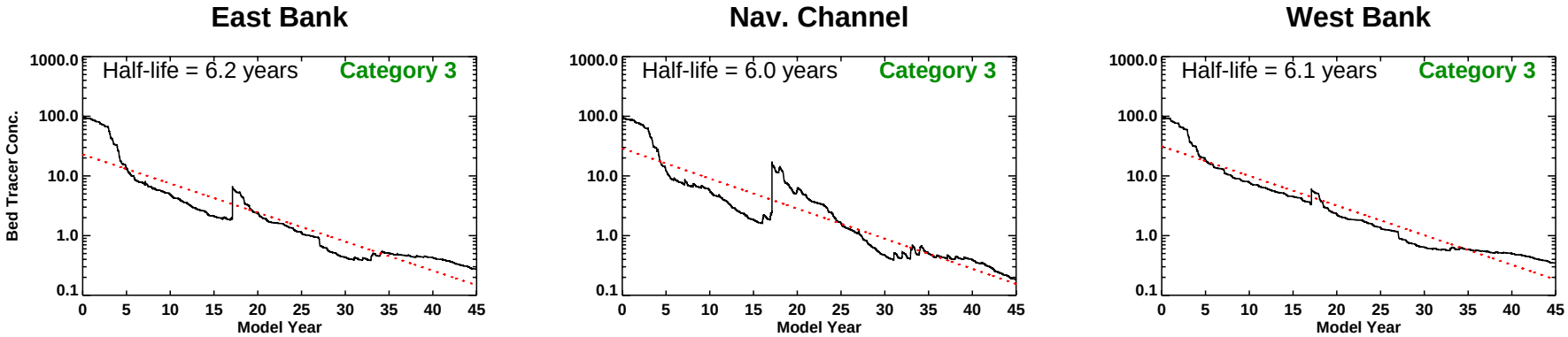
Draft Feasibility Study

Average Surface Sediment (Top 1-ft) Tracer Concentrations by River Mile.

Half-life calculated from model results spanning all years

DR - H:\010142-01_LWG-Willamette\model\Analysis\FS_Report\MNR_eval\plot_chem_bed_temp_EMW_bat_proj_45_SIL.pro Mon Mar 12 15:17:00 2012

River-mile 3-1.9



Model
Half-life fit

Category 1: Half-life > 20 years
Category 2: Half-life 10 - 20 years
Category 3: Half-life < 10 years

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Figure 6.2-20d
Portland Harbor RI/FS
Draft Feasibility Study
Average Surface Sediment (Top 1-ft) Tracer Concentrations by River Mile.
Half-life calculated from model results spanning all years

DR - H:\010142-01_LWG-Willamette\model\Analysis\FS_Report\MNR_eval\plot_chem_bed_temp_EMW_bat_proj_45_SIL.pro Mon Mar 12 15:17:01 2012