

Tables

Table 7-1**Predicted Frequency of Net Upstream Daily Contaminant Flux Over the WY1996 to WY2013 Simulation**

RM Transect	% of Days with Net Flux < 0	
	2,3,7,8-TCDD	Tetra-CB
0	12%	28%
2	34%	34%
8	16%	13%
14.8	8%	3%

Notes:

RM: river mile

TCDD: tetrachlorodibenzo-p-dioxin

tetra-CB: tetrachlorobiphenyl

Run IDs: LPR_TCDD_long_1811-11, LPR_Tetra_long_1811-12

Table 7-2
Model Performance Overview

Chemical	Overview of Model Performance		
	Metric 1 – Graphical Evaluation	Metric 2 – SPAFs	Metric 3 – Invertebrate BSAFs
<i>Calibration performance goal</i>	<i>Good comparability between empirical and predicted results</i>	<i>SPAF of <3 for priority calibration targets; mix of over- and under-predictions</i>	<i>Model-calculated BSAFs close to or within range of literature values</i>
2,3,7,8-TCDD	Performance goals were met (mix of over- and under-predictions, good comparability between model predictions and empirical data).	Performance goals were met, with the exception of SPAFs for two priority targets that were >3 (small forage fish and small American eel); average SPAF of 2.2 for priority targets; range of -1.5 to 4.8.	Performance goal was met (all model-calculated BSAFs within literature range).
Tetra-CB	Performance goals were met (mix of over- and under-predictions, good comparability between model predictions and empirical data).	Performance goals were met; average SPAF of 1.8 for priority targets; range of -2.7 to 2.0.	Performance goal met (all model-calculated BSAFs within literature range).
1,2,3,4,6,7,8-HpCDF	Performance goals met (mix of over- and under-predictions, good comparability between model predictions and empirical data).	Performance goals met; average SPAF of 1.7 for priority targets; range of -2.2 to 2.7.	Performance goal met for all but one BSAF (11 of 12 model-calculated BSAFs within literature range).

Notes:

BSAF: biota sediment accumulation factor

HpCDF: heptachlorodibenzofuran

SPAF: species predictive accuracy factor

TCDD: tetrachlorodibenzo-p-dioxin

Tetra-CB: tetrachlorobiphenyl

Table 7-3
SPAFs for the Calibrated Bioaccumulation Model

Species	SPAFs for 2,3,7,8-TCDD			SPAFs for Tetra-CB			SPAFs for 1,2,3,4,6,7,8-HpCDF		
	RM 0– RM 6	RM 6– RM 14.7	RM 14.7– Dundee Dam	RM 0– RM 6	RM 6– RM 14.7	RM 14.7– Dundee Dam	RM 0– RM 6	RM 6– RM 14.7	RM 14.7– Dundee Dam
Small filter feeding fish	-	1.1	-	-	-1.4	-	-	1.0	-
Small forage fish	1.1	<u>3.4</u>	-7.6	-1.6	<u>-1.1</u>	-1.6	2.3	<u>-1.1</u>	-1.4
Small American eel	-1.6	<u>4.8</u>	1.2	-2.9	<u>1.2</u>	1.0	-2.3	<u>1.5</u>	-1.5
Blue crab	<u>-1.6</u>	<u>2.8</u>	-17.4	<u>-1.4</u>	<u>2.0</u>	1.6	<u>-2.2</u>	<u>1.3</u>	-1.6
Carp	-	<u>-1.5</u>	-6.7	-	<u>-2.7</u>	-1.6	-	<u>-1.3</u>	1.2
Catfish	-5.2	<u>1.4</u>	-47.1	-4.9	<u>-1.2</u>	-1.9	-2.8	<u>2.4</u>	1.2
White perch	<u>-2.1</u>	<u>1.5</u>	-11.1	<u>-3.6</u>	<u>-1.8</u>	-1.4	<u>1.6</u>	<u>2.7</u>	2.8
Large American eel	-1.1	<u>1.6</u>	-	-2.3	<u>1.1</u>	-	-1.7	<u>-1.1</u>	-
Bass	-	<u>-1.3</u>	-5.1	-	<u>-1.8</u>	-3.7	-	<u>1.4</u>	-2.2
Average (all)^a	2.1	2.2	13.7	2.8	1.6	1.8	2.1	1.5	1.7
Average (priority)^a	2.2			1.8			1.7		

Notes:

SPAFs for priority calibration targets are **underlined and shown in bold**.

a. Average SPAFs are calculated using absolute values (i.e., the lowest possible average SPAF is 1.0).

HpCDF: heptachlorodibenzofuran

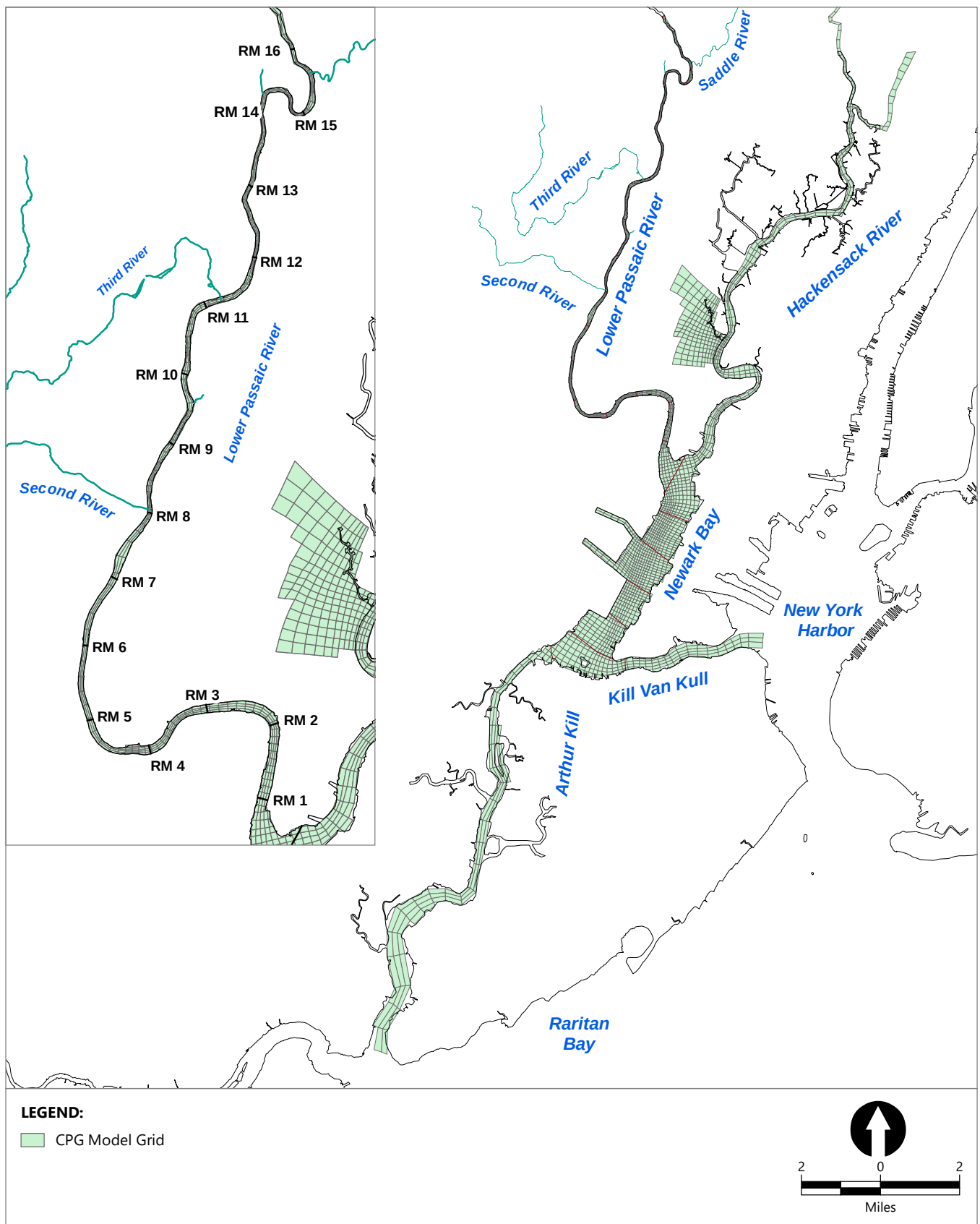
RM: river mile

SPAF: species predictive accuracy factor

TCDD: tetrachlorodibenzo-p-dioxin

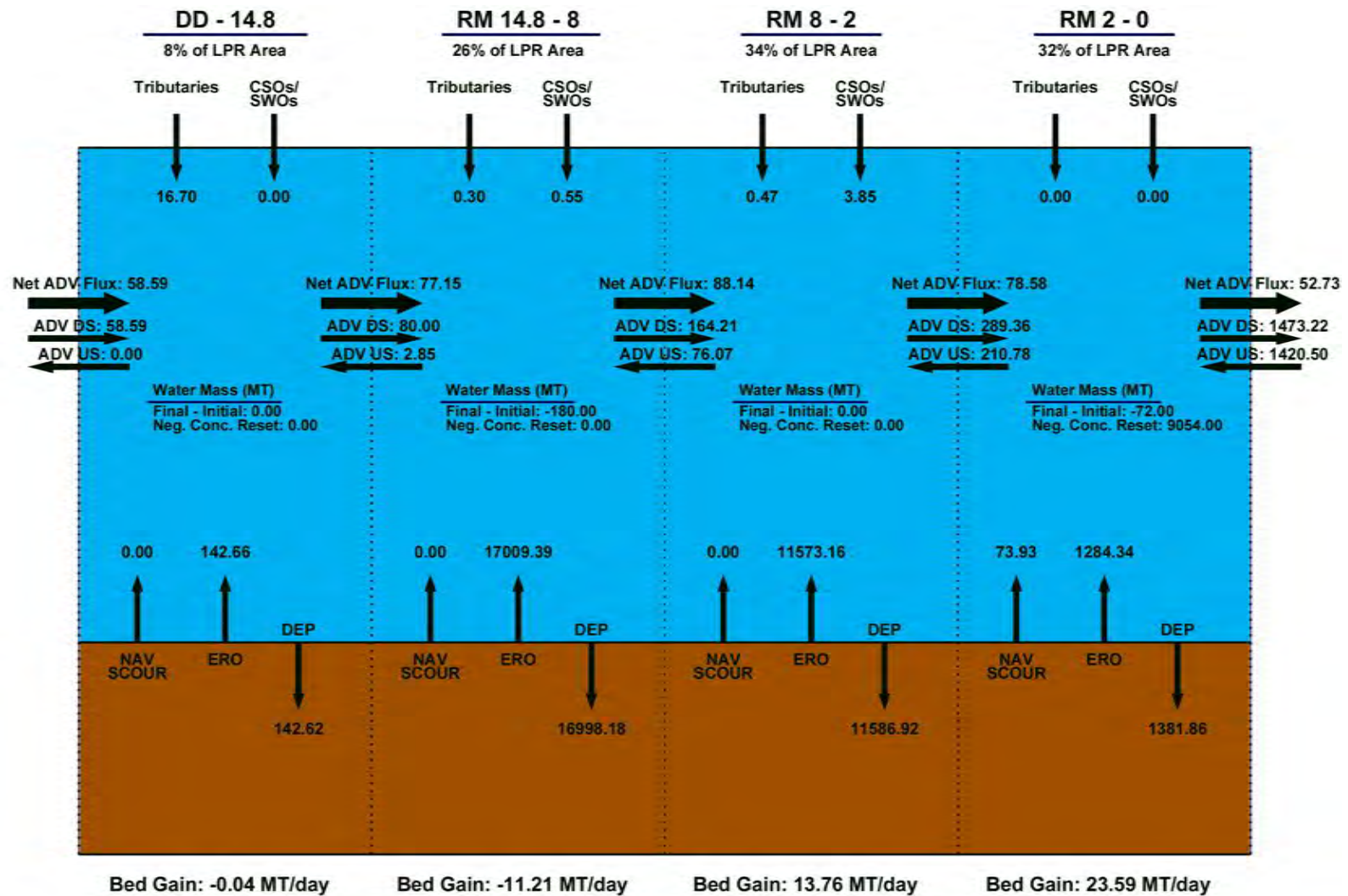
Tetra-CB: tetrachlorobiphenyl

Figures



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Figure 7-1
Truncated Grid Used by the Hydrodynamic, Sediment Transport, Organic Carbon, and
Contaminant Fate and Transport Models

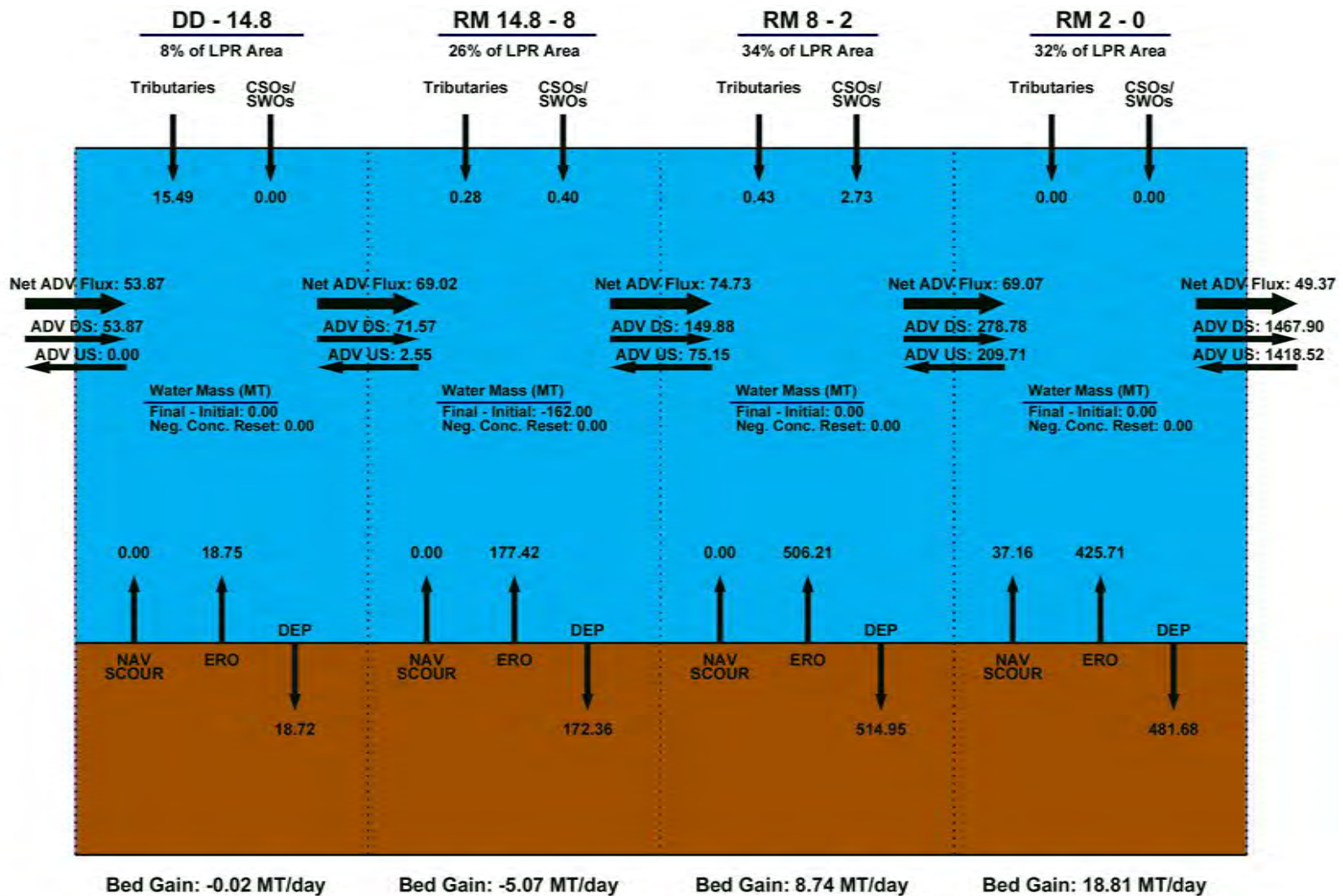


ADV = advection/dispersion; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension); DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall

Mass fluxes are expressed in metric tonnes/year.

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Figure 7-2a
Predicted Mass Balance of Total Solids in the LPR over the WY1996 to WY2013 Period



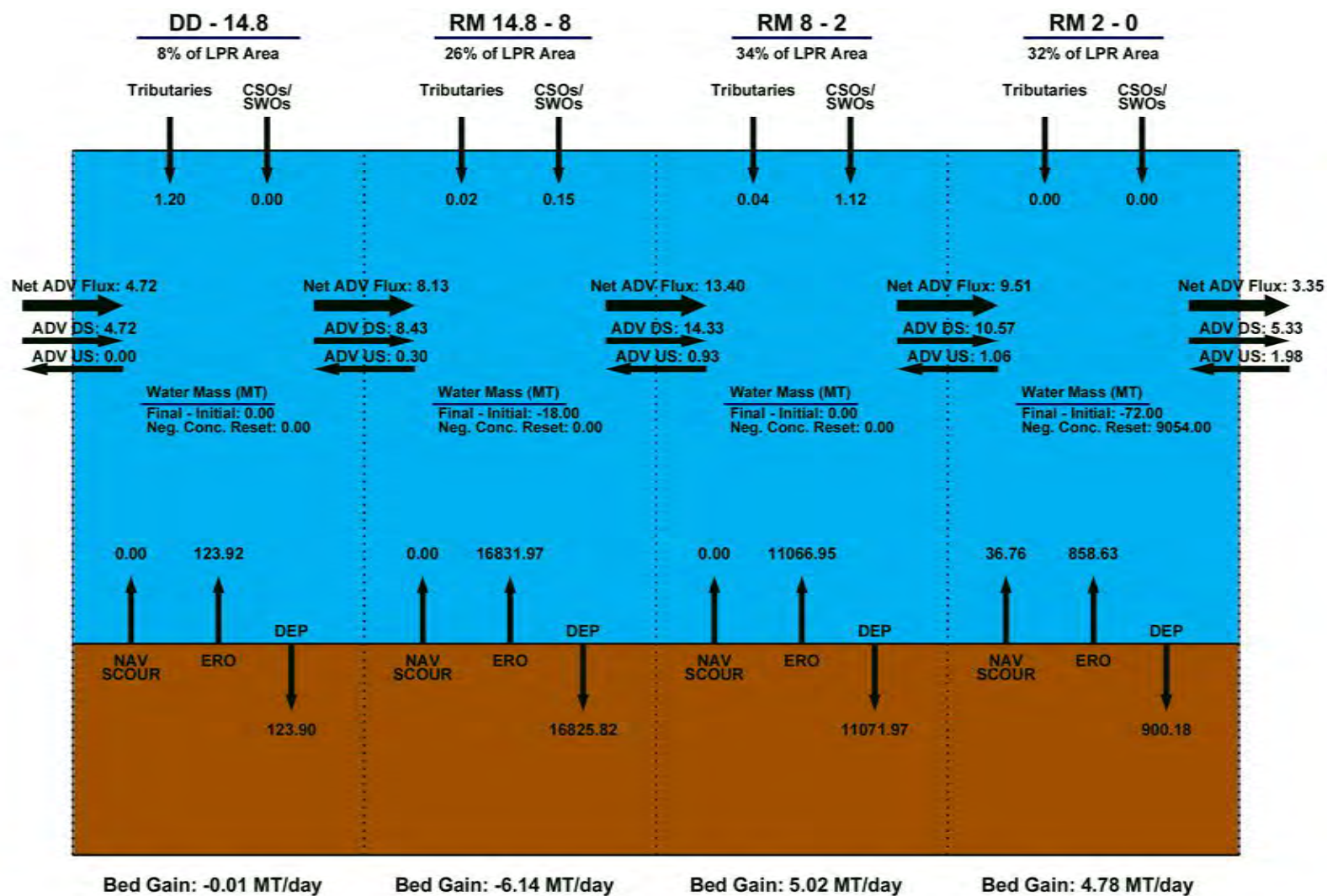
ADV = advection/dispersion; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension); DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall

Mass fluxes are expressed in metric tonnes/year.

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Figure 7-2b
Predicted Mass Balance of Cohesive Solids in the LPR over the WY1996 to WY2013 Period

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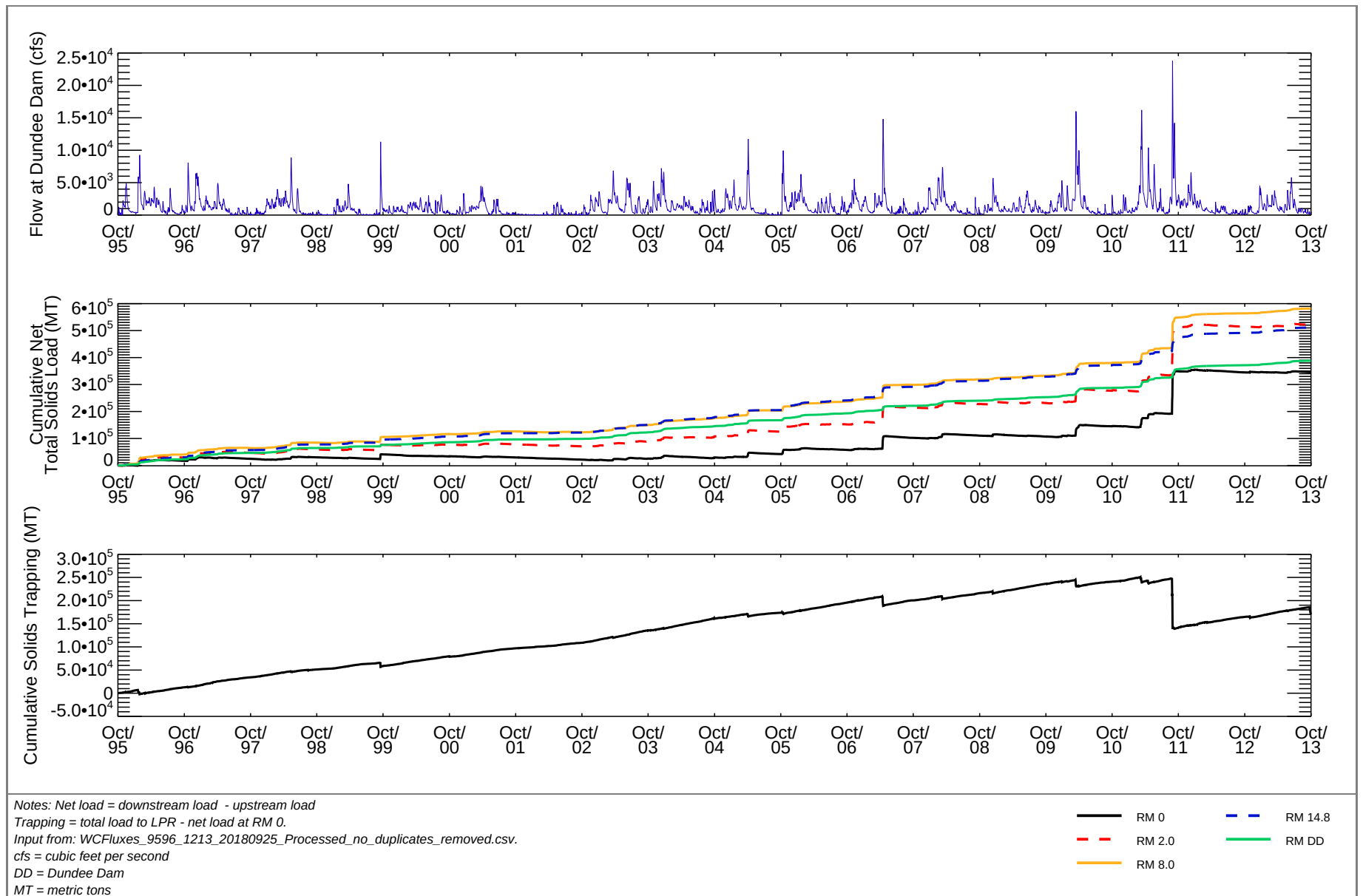
ADV = advection/dispersion; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension); DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall

Mass fluxes are expressed in metric tonnes/year.

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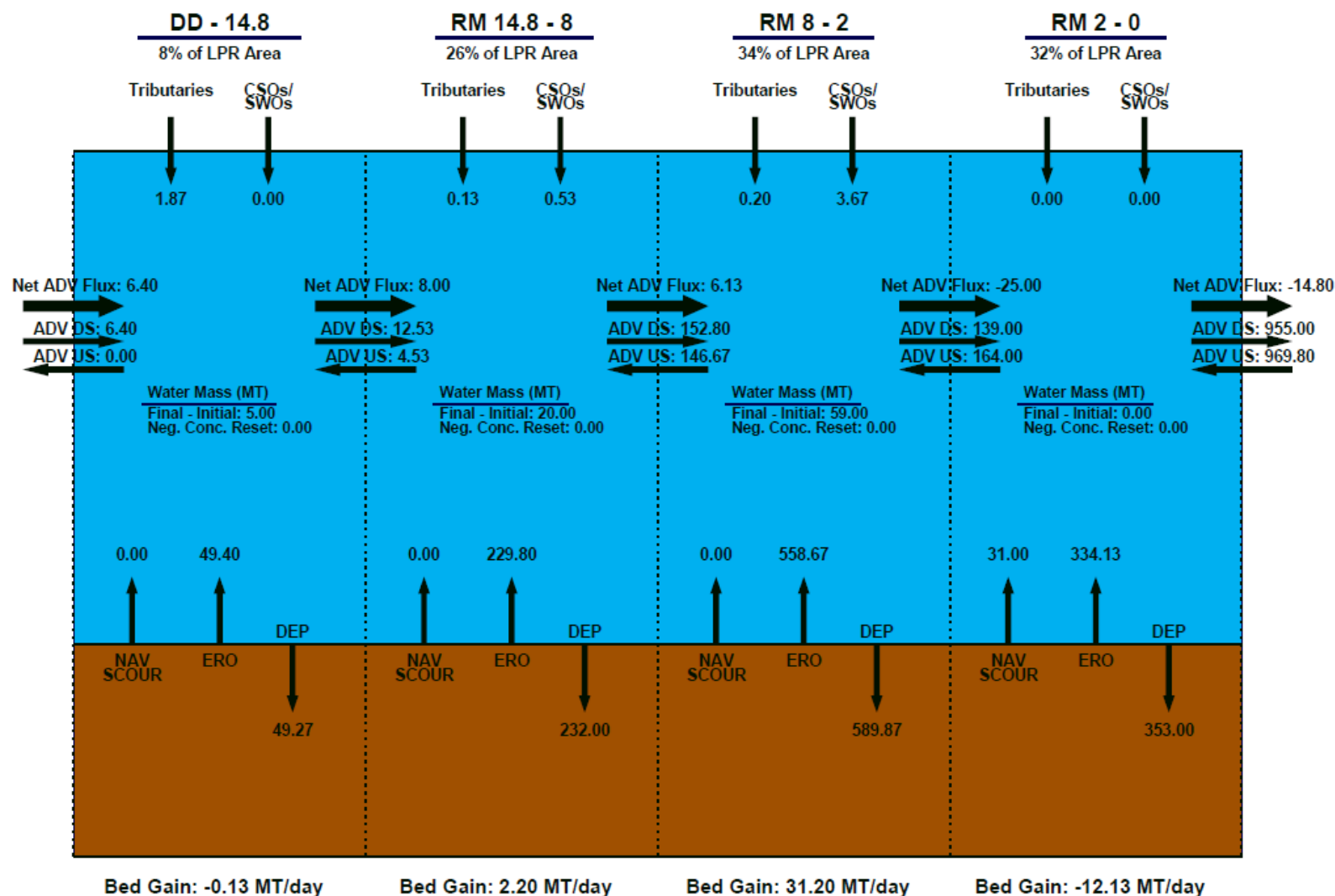
Figure 7-2c
Predicted Mass Balance of Non-Cohesive Solids in the LPR over the WY1996 to WY2013 Period

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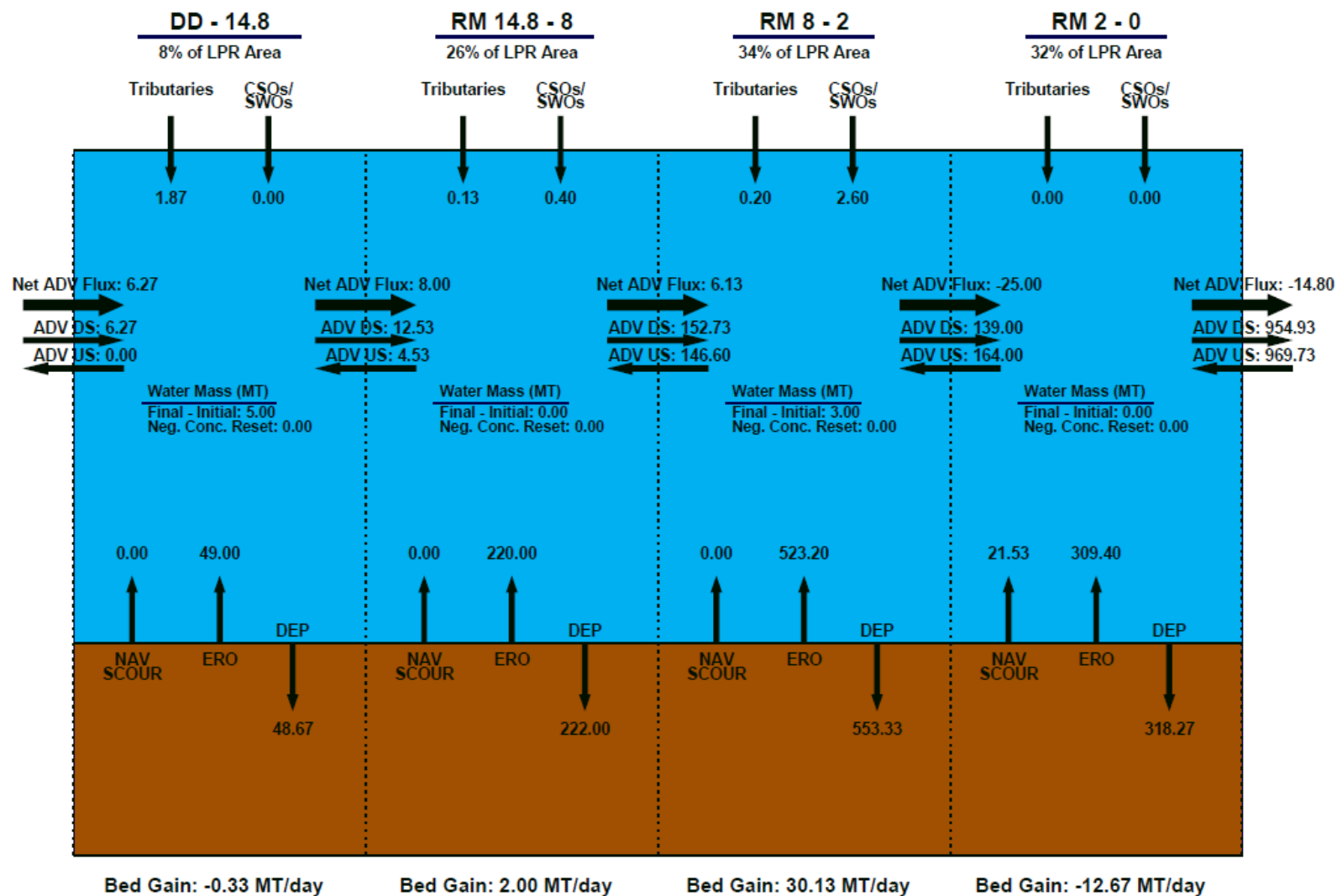
Figure 7-3
Predicted Water Column Total Solids Load for the WY1996 to WY2013 Simulation



ADV = advection/dispersion/Smolarkiewicz correction; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension); DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall
Mass fluxes are expressed in metric tons/day

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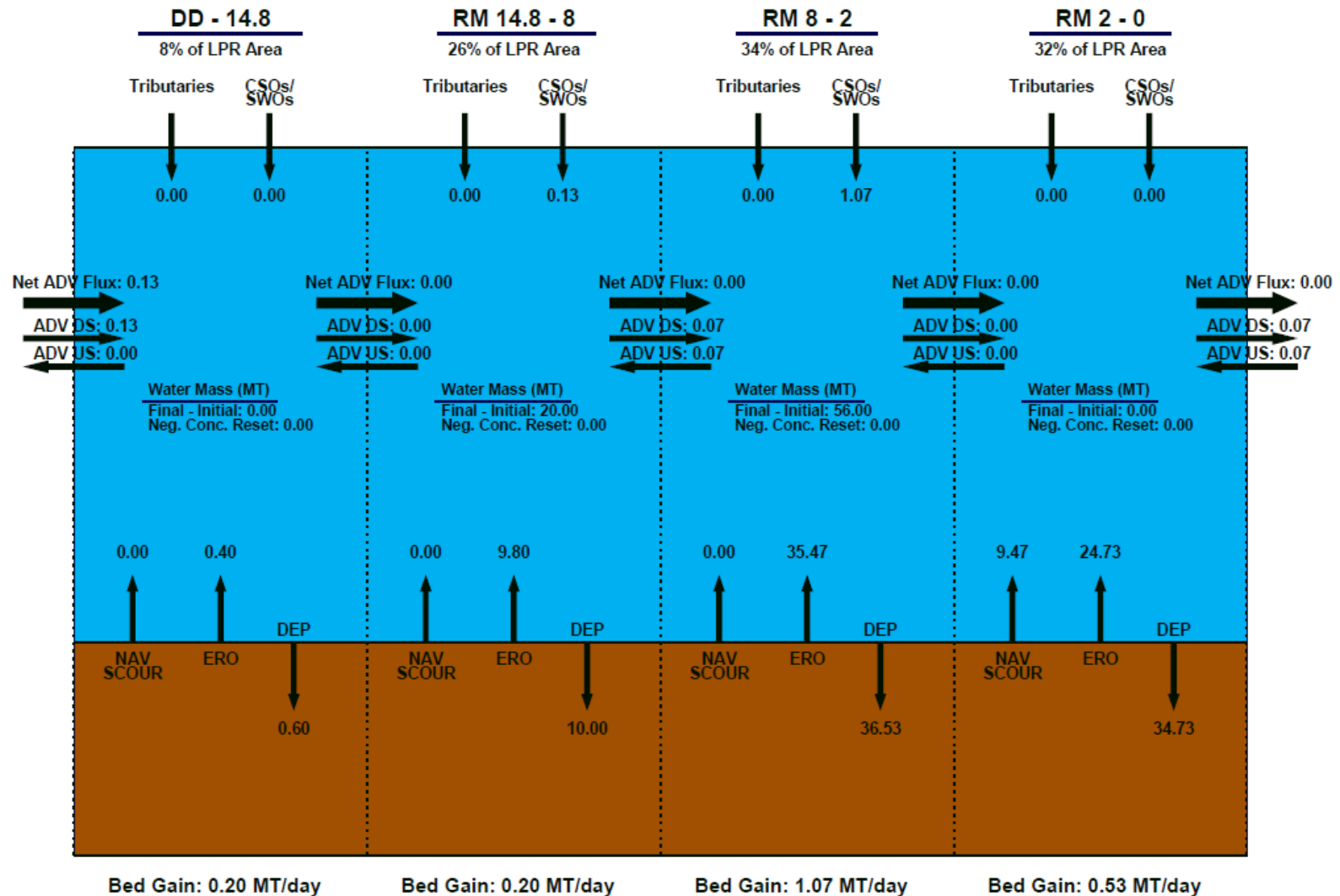
Figure 7-4a
Predicted Mass Balance of Total Solids in the LPR over Low Flow Period: June 15, 2005 to June 29, 2005
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ADV = advection/dispersion/Smolarkiewicz correction; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension); DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall
Mass fluxes are expressed in metric tons/day

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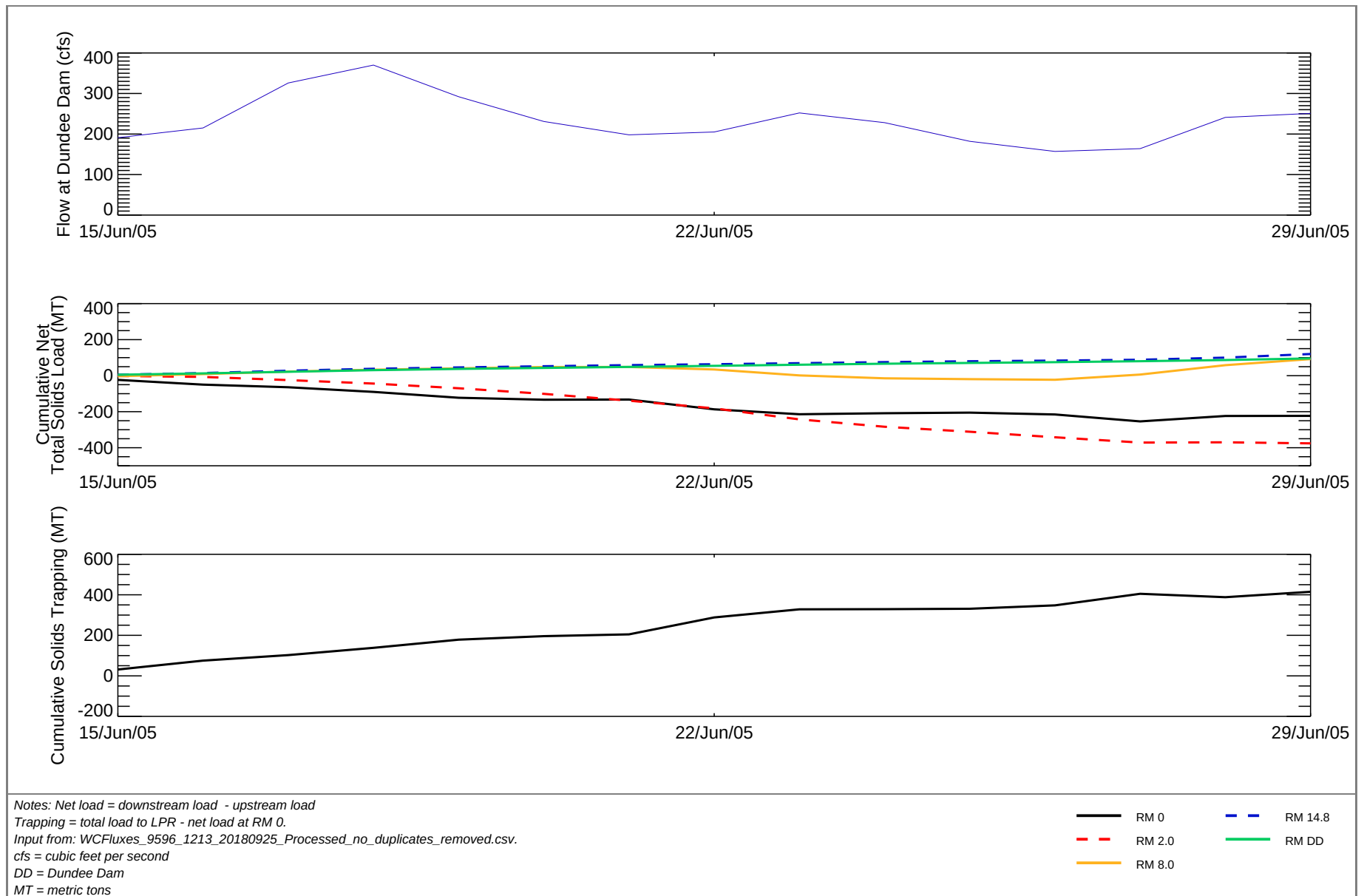
Figure 7-4b
Predicted Mass Balance of Cohesive Solids in the LPR over Low Flow Period: June 15, 2005 to June 29, 2005
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ADV = advection/dispersion/Smolarkiewicz correction; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension); DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall
Mass fluxes are expressed in metric tons/day

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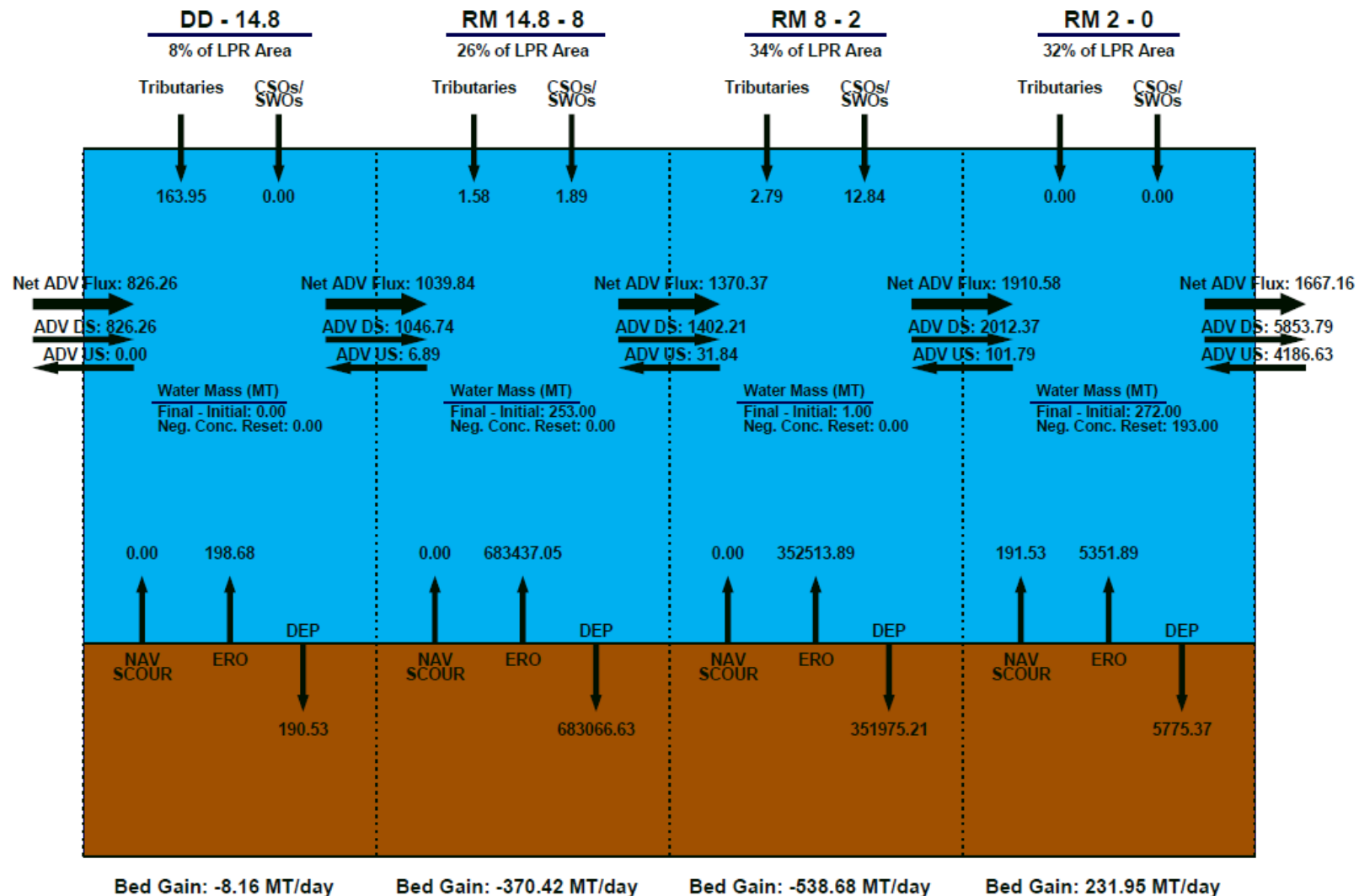
Figure 7-4c
Predicted Mass Balance of Non-Cohesive Solids in the LPR over Low Flow Period: June 15, 2005 to June 29, 2005
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Figure 7-5
Predicted Water Column Total Solids Load During June 15, 2005 to June 29, 2005 (a low-flow period)

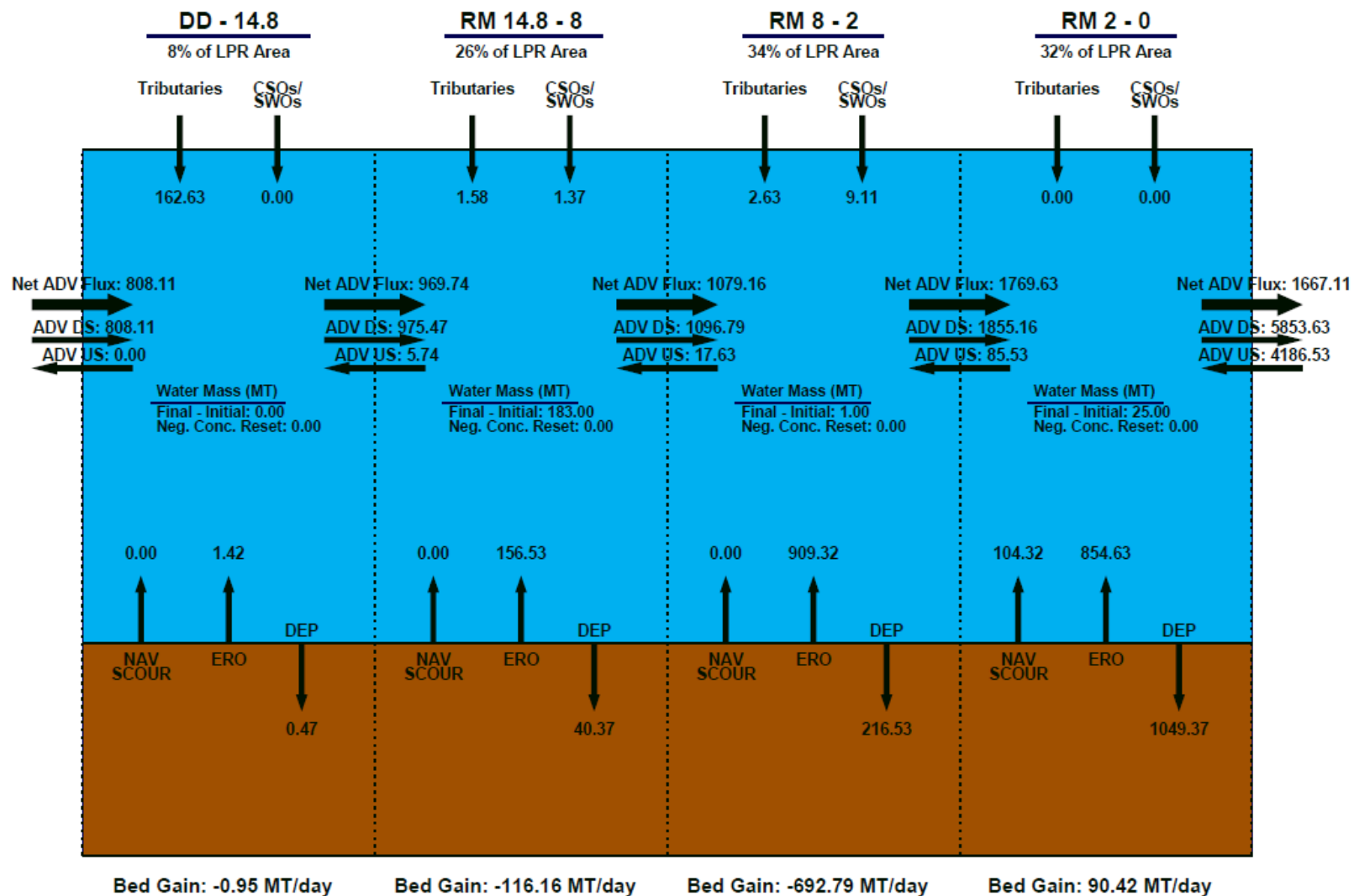
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ADV = advection/dispersion/Smolarkiewicz correction; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension);
 DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall
 Mass fluxes are expressed in metric tons/day

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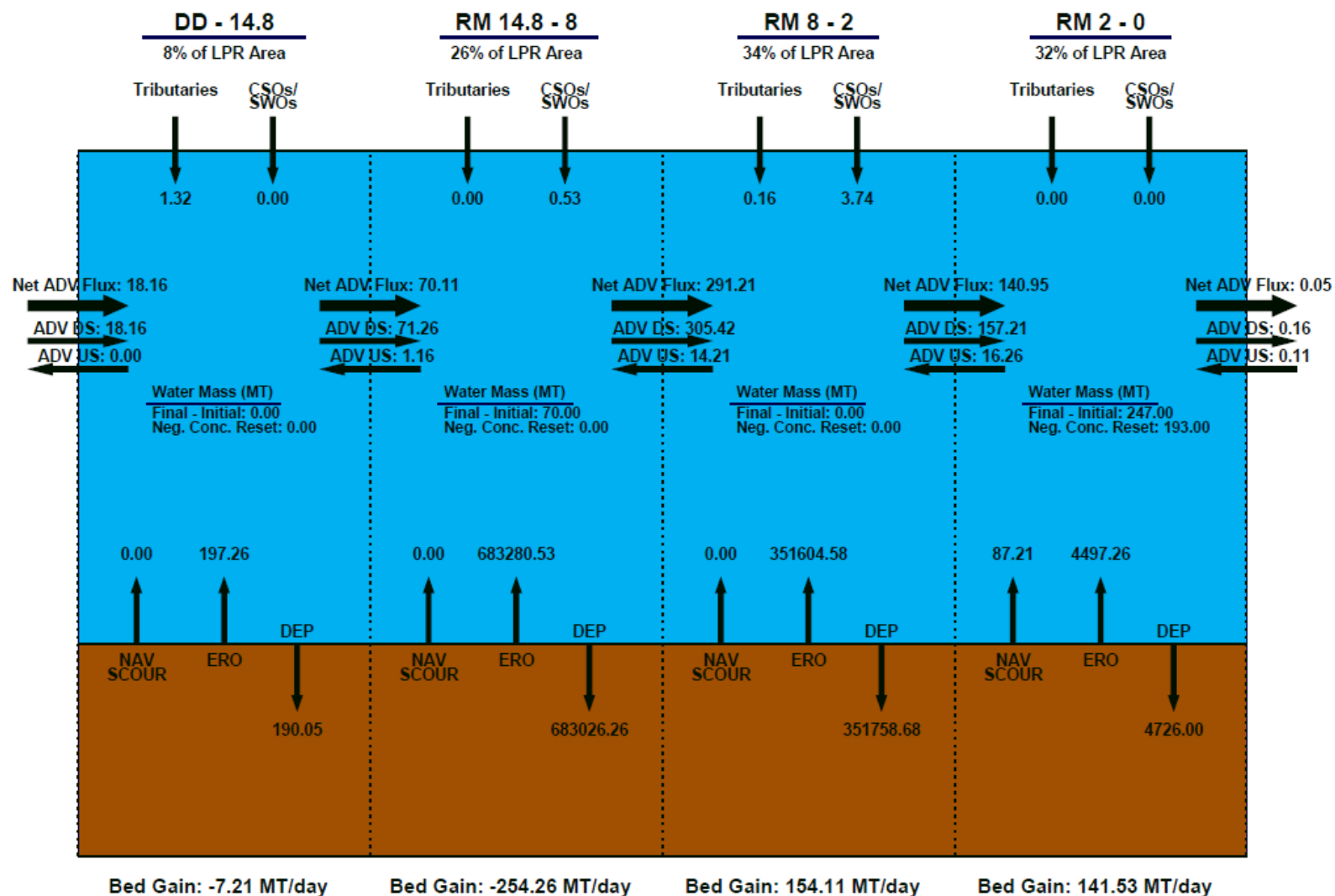
Figure 7-6a
Predicted Mass Balance of Total Solids in the LPR over High Flow Period: March 11, 2010 to March 29, 2010
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ADV = advection/dispersion/Smolarkiewicz correction; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension); DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall
Mass fluxes are expressed in metric tons/day

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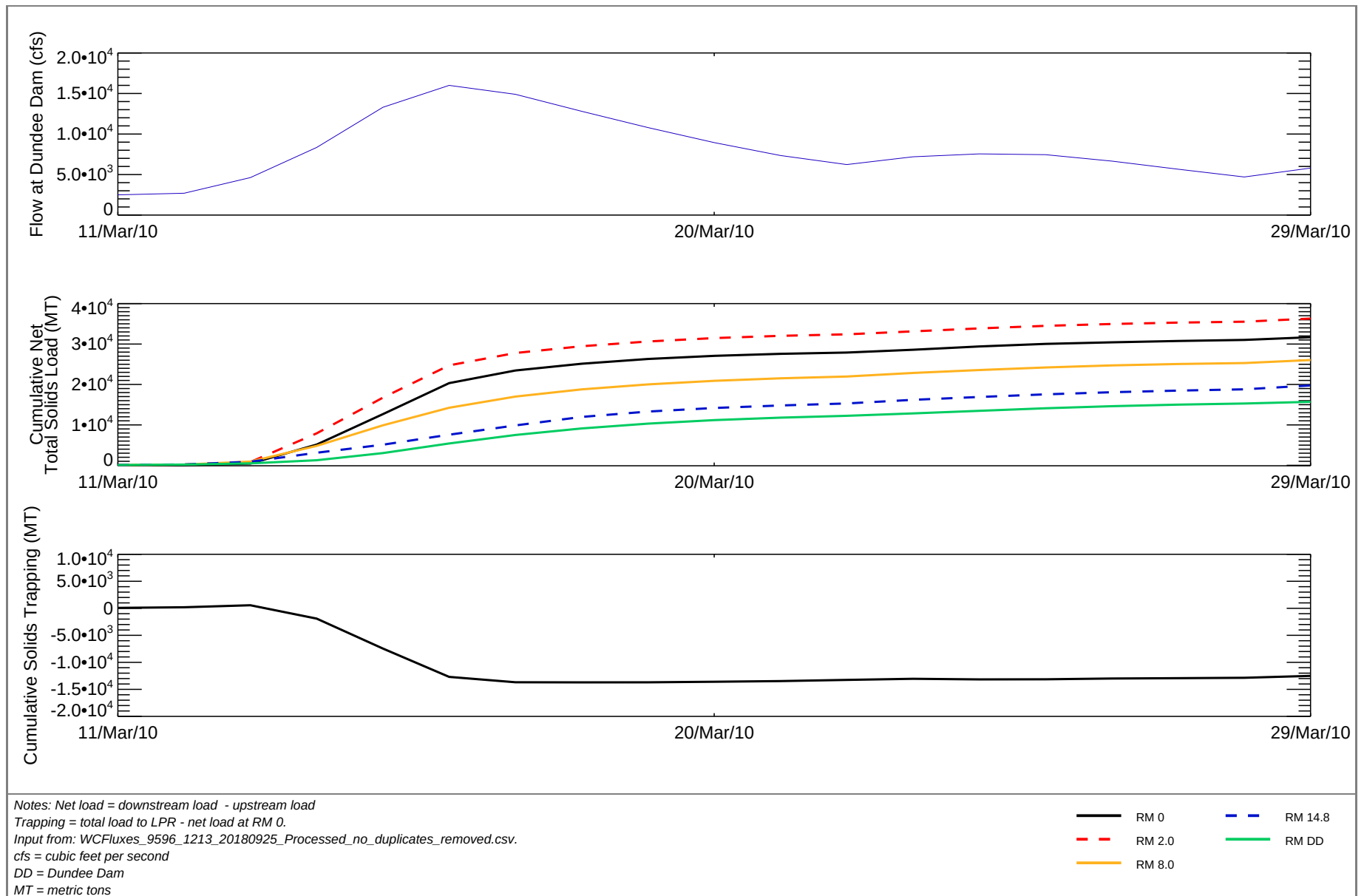
Figure 7-6b
Predicted Mass Balance of Cohesive Solids in the LPR over High Flow Period: March 11, 2010 to March 29, 2010
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ADV = advection/dispersion/Smolarkiewicz correction; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension); DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall
Mass fluxes are expressed in metric tons/day

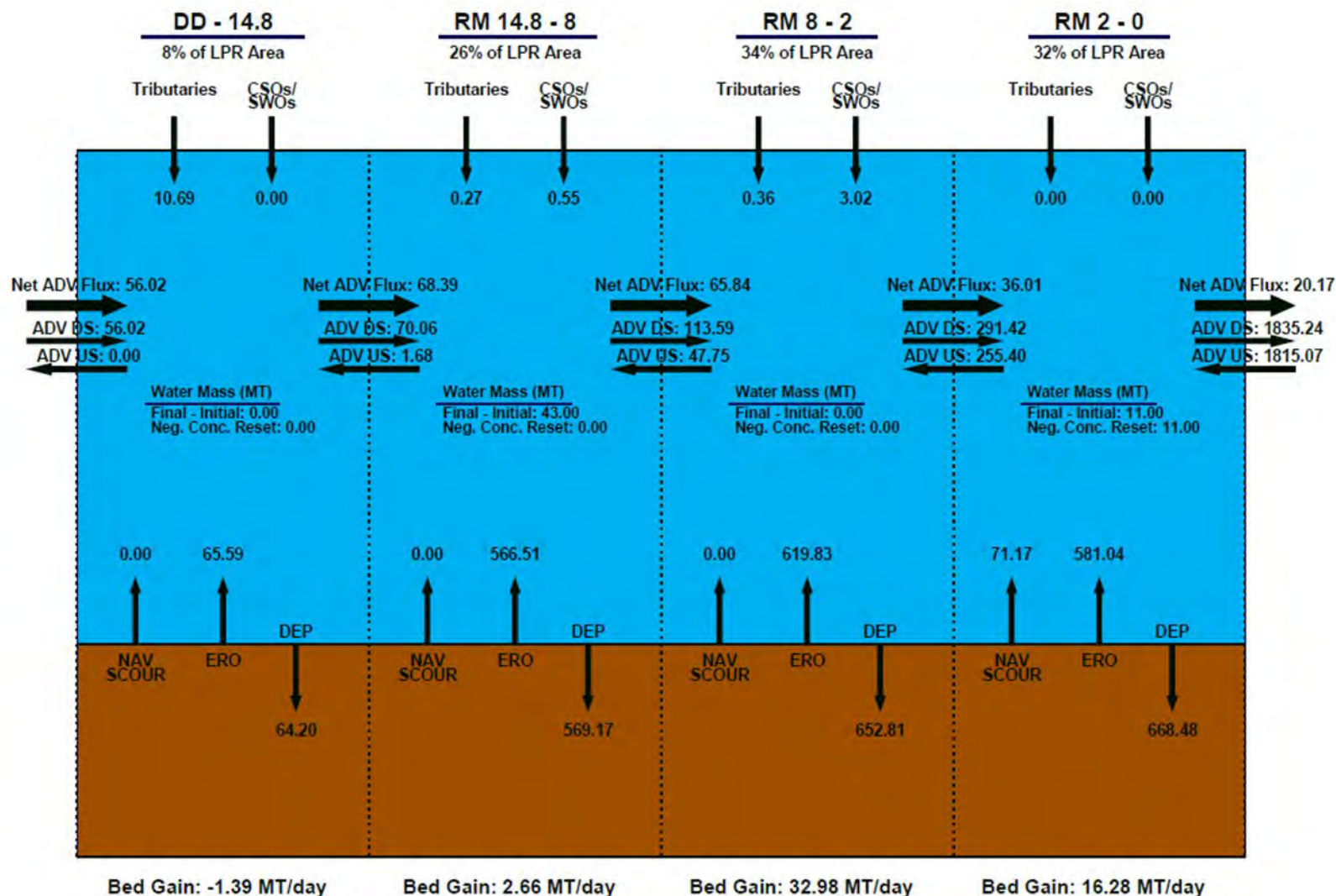
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Figure 7-6c
Predicted Mass Balance of Non-Cohesive Solids in the LPR over High Flow Period: March 11, 2010 to March 29, 2010
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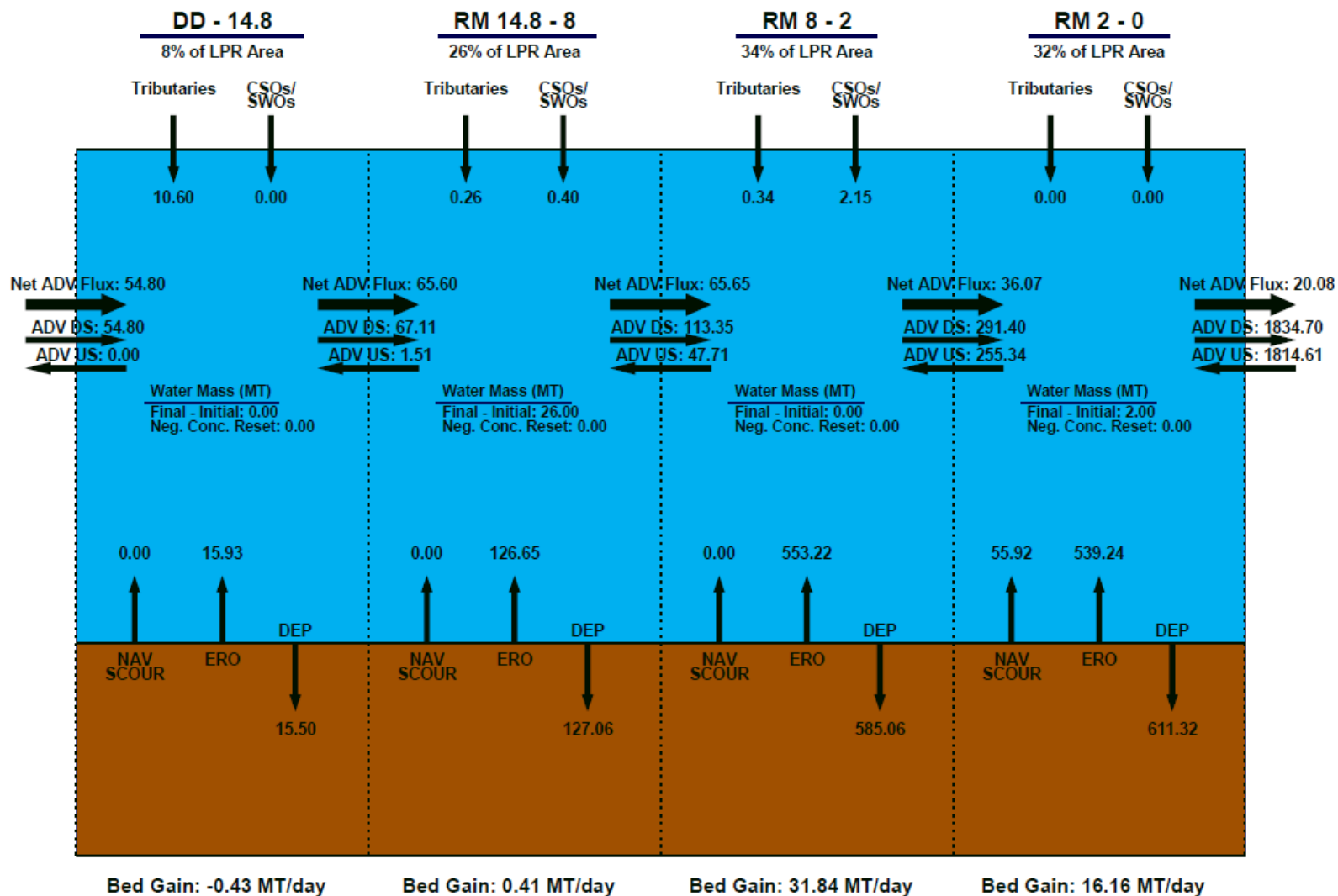
Figure 7-7
Predicted Water Column Total Solids Load During March 11, 2010 to March 29, 2010 (a high-flow period)



ADV = advection/dispersion/Smolarkiewicz correction; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension); DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall
Mass fluxes are expressed in metric tons/day

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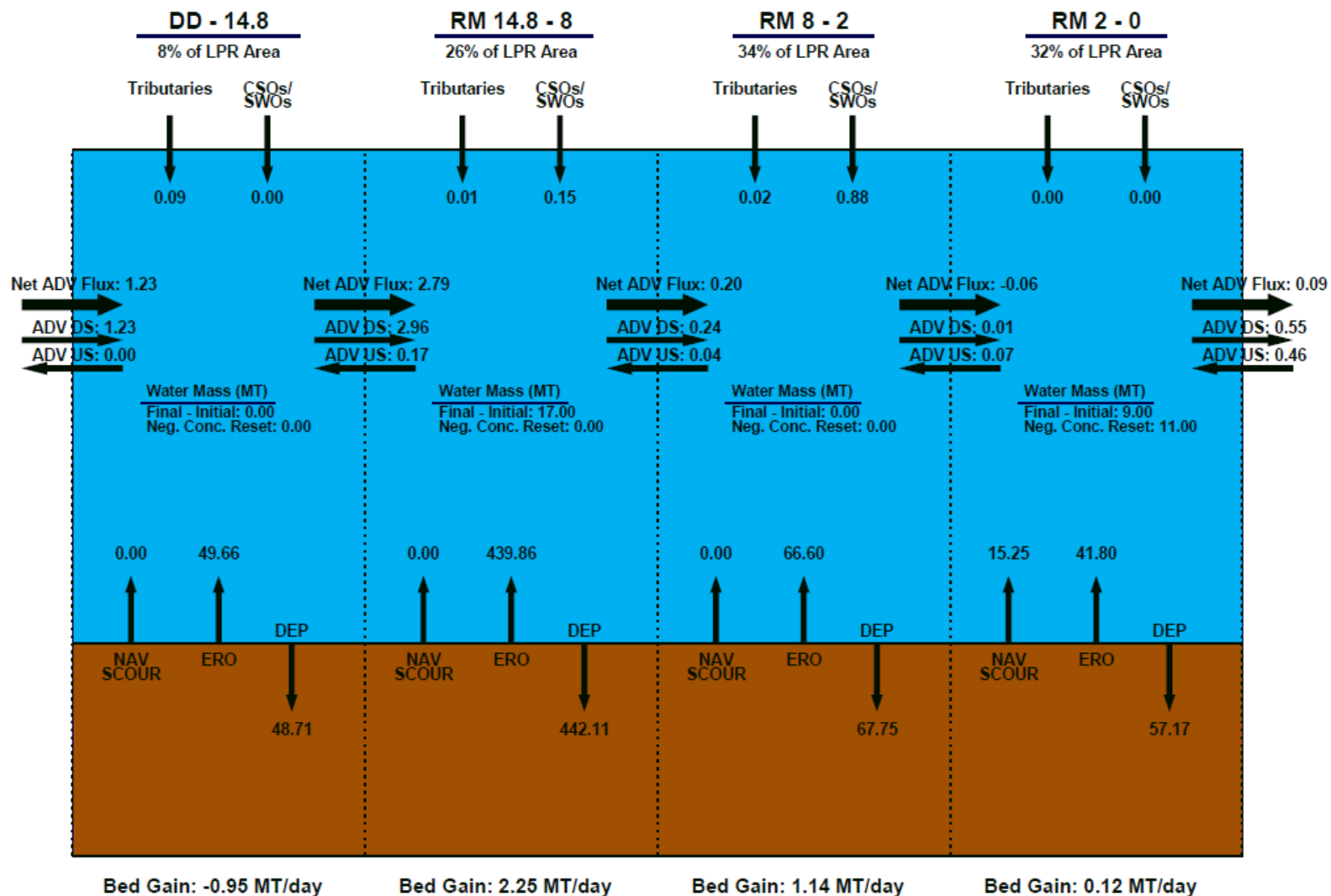
Figure 7-8a
Predicted Mass Balance of Total Solids in the LPR over Moderate Flow Period: October 1, 2009 to March 10, 2010
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ADV = advection/dispersion/Smolarkiewicz correction; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension); DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall
Mass fluxes are expressed in metric tons/day

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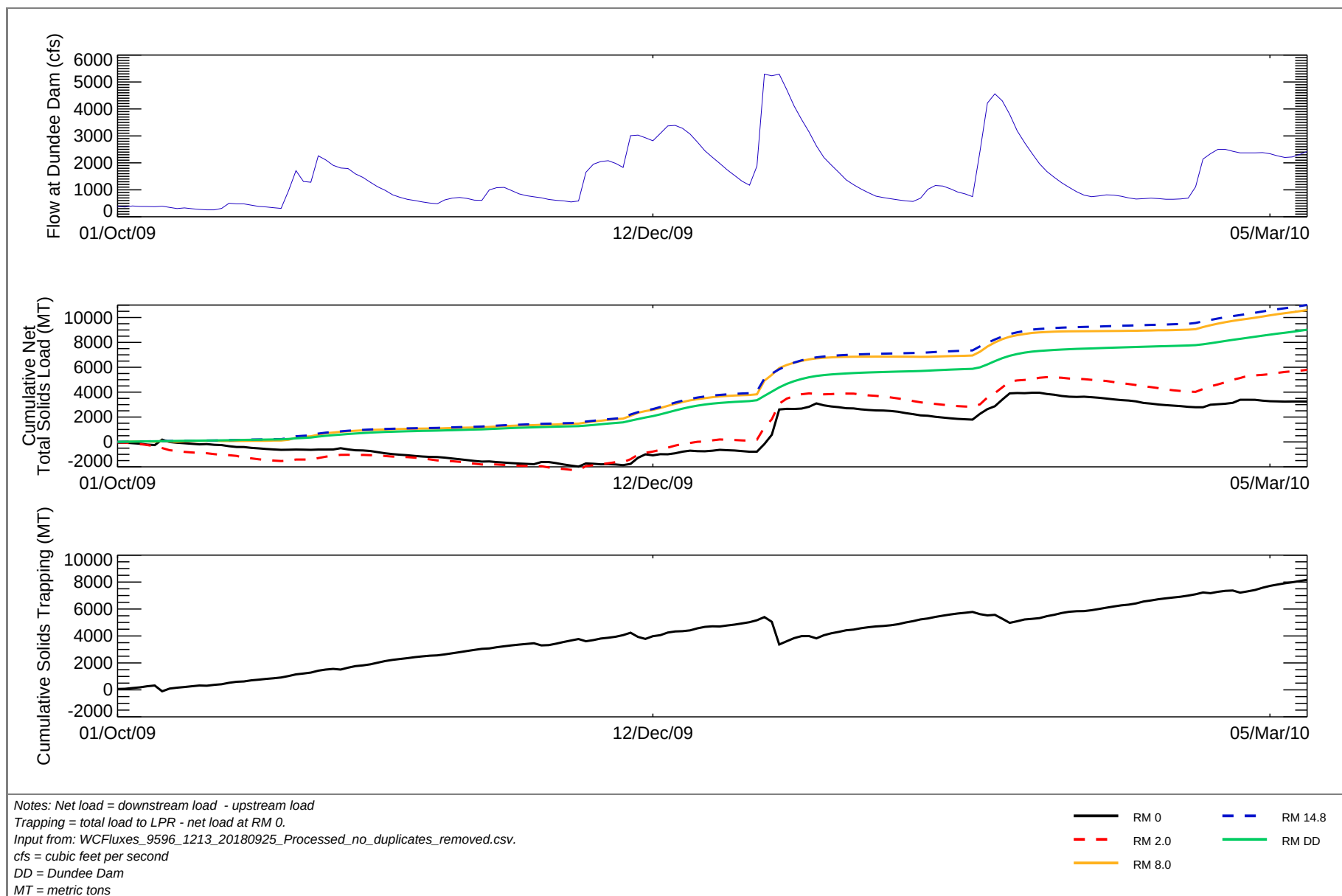
Figure 7-8b
Predicted Mass Balance of Cohesive Solids in the LPR over Moderate Flow Period: October 1, 2009 to March 10, 2010
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ADV = advection/dispersion/Smolarkiewicz correction; DS = downstream (seaward or down-estuary); US = upstream (landward or up-estuary); ERO = erosion (resuspension); DEP = deposition; NAV SCOUR = navigation scour; CSO = combined sewer overflow; SWO = stormwater outfall
Mass fluxes are expressed in metric tons/day

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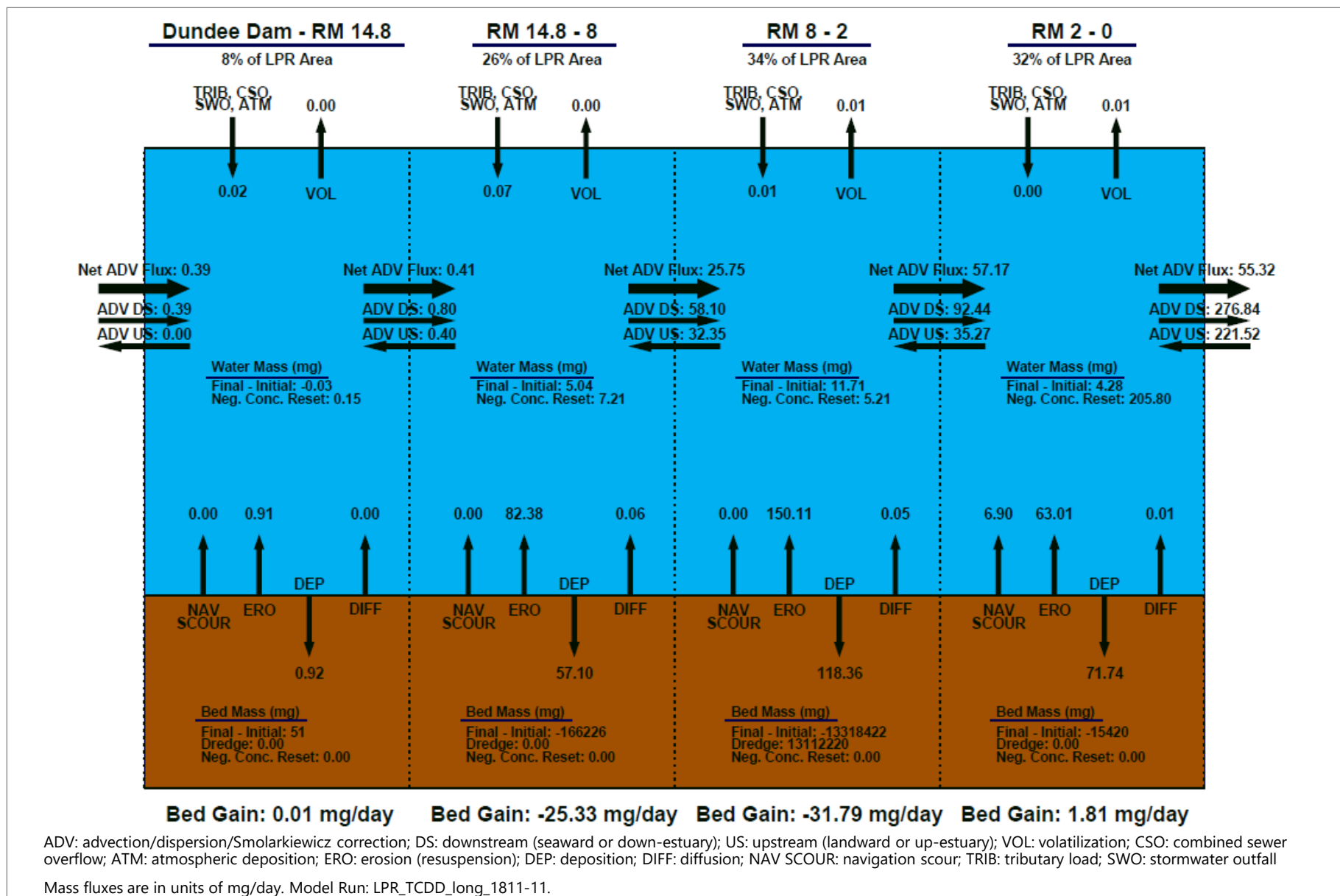
Figure 7-8c
Predicted Mass Balance of Non-Cohesive Solids in the LPR over Moderate Flow Period: October 1, 2009 to March 10, 2010
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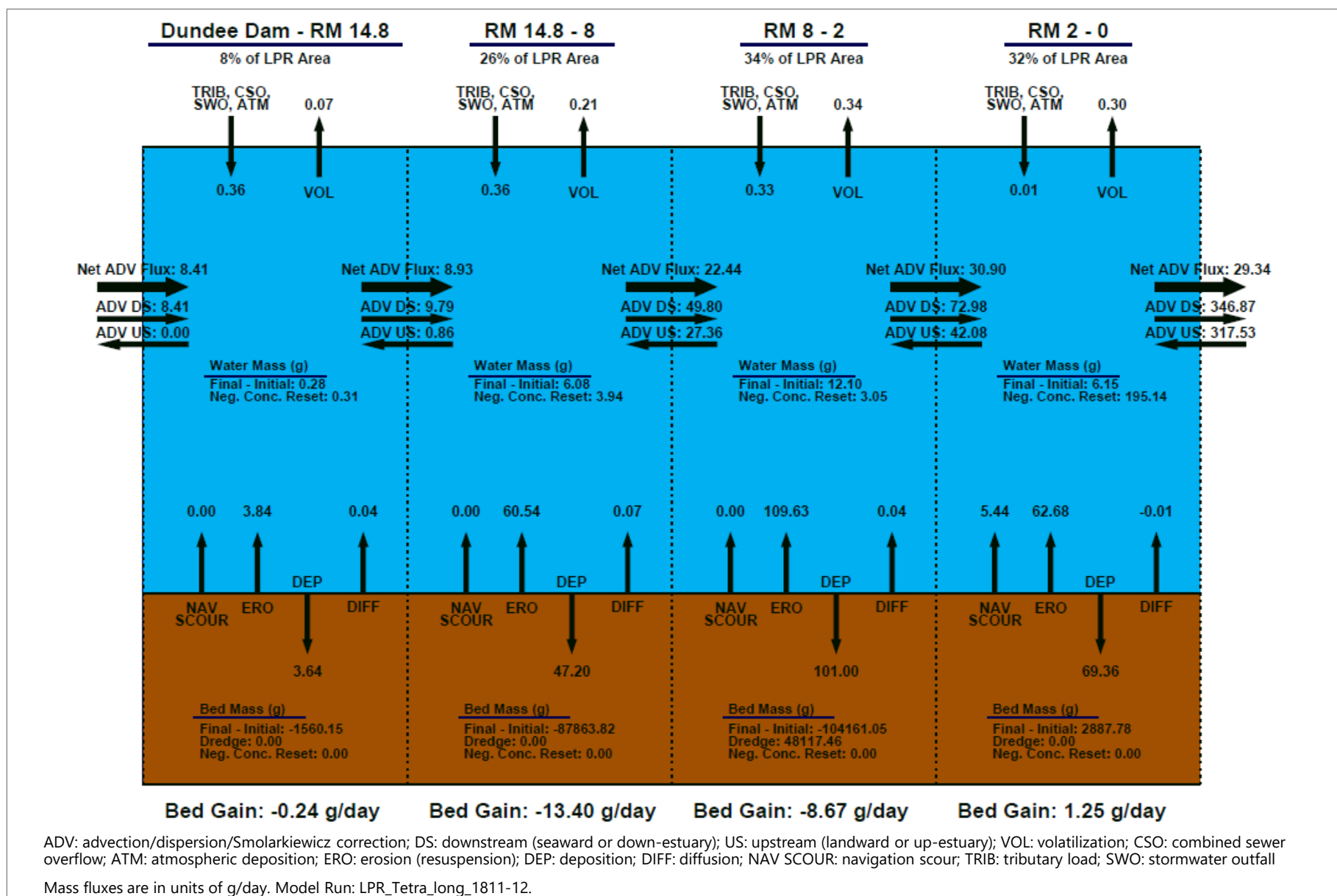
Figure 7-9
Predicted Water Column Total Solids Load During October 1, 2009 to March 10, 2010 (a moderate-flow period)

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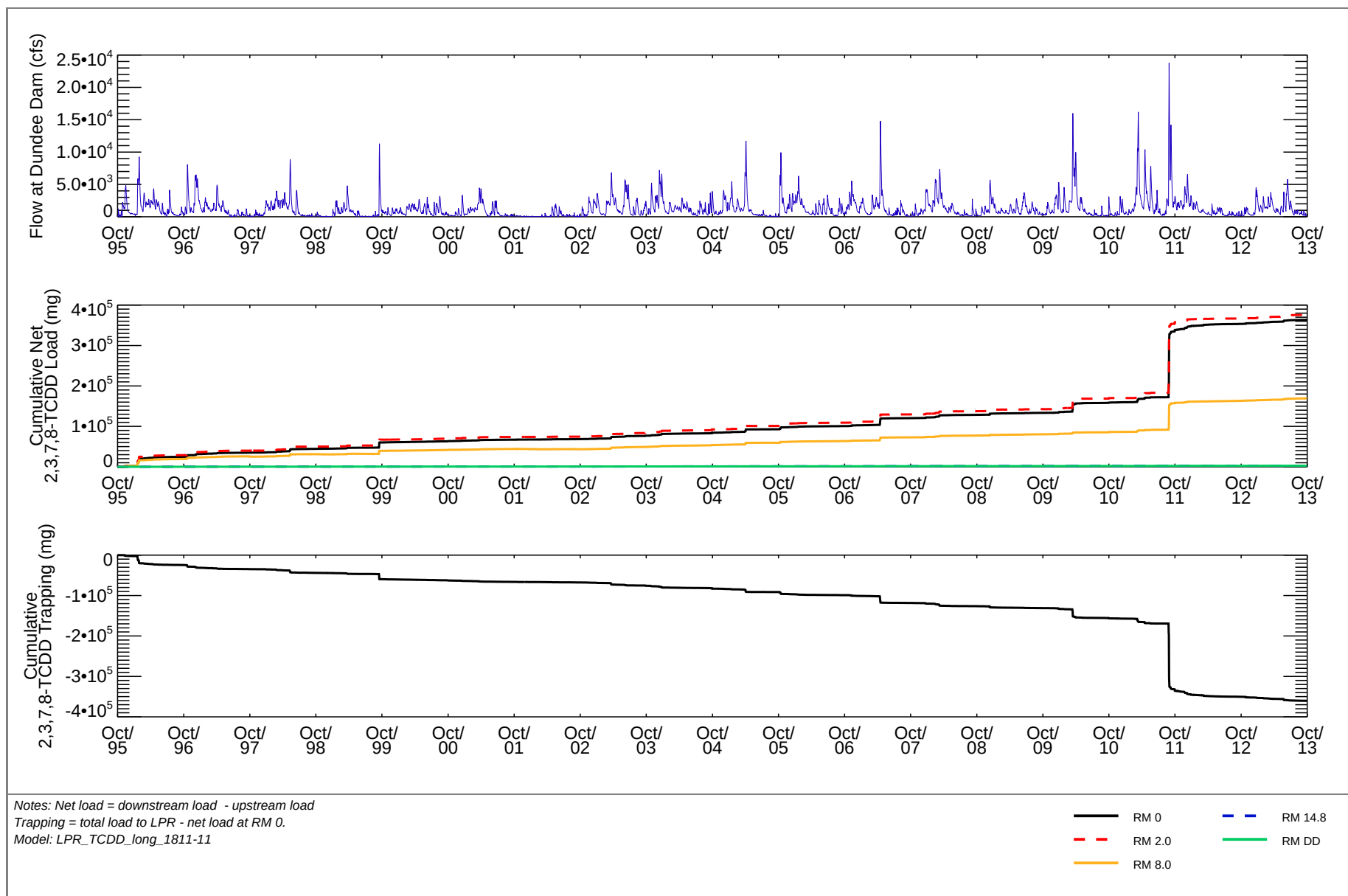
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Figure 7-10a
Predicted Mass Balance of 2,3,7,8 TCDD in the LPR over the WY1996 to WY2013 Period



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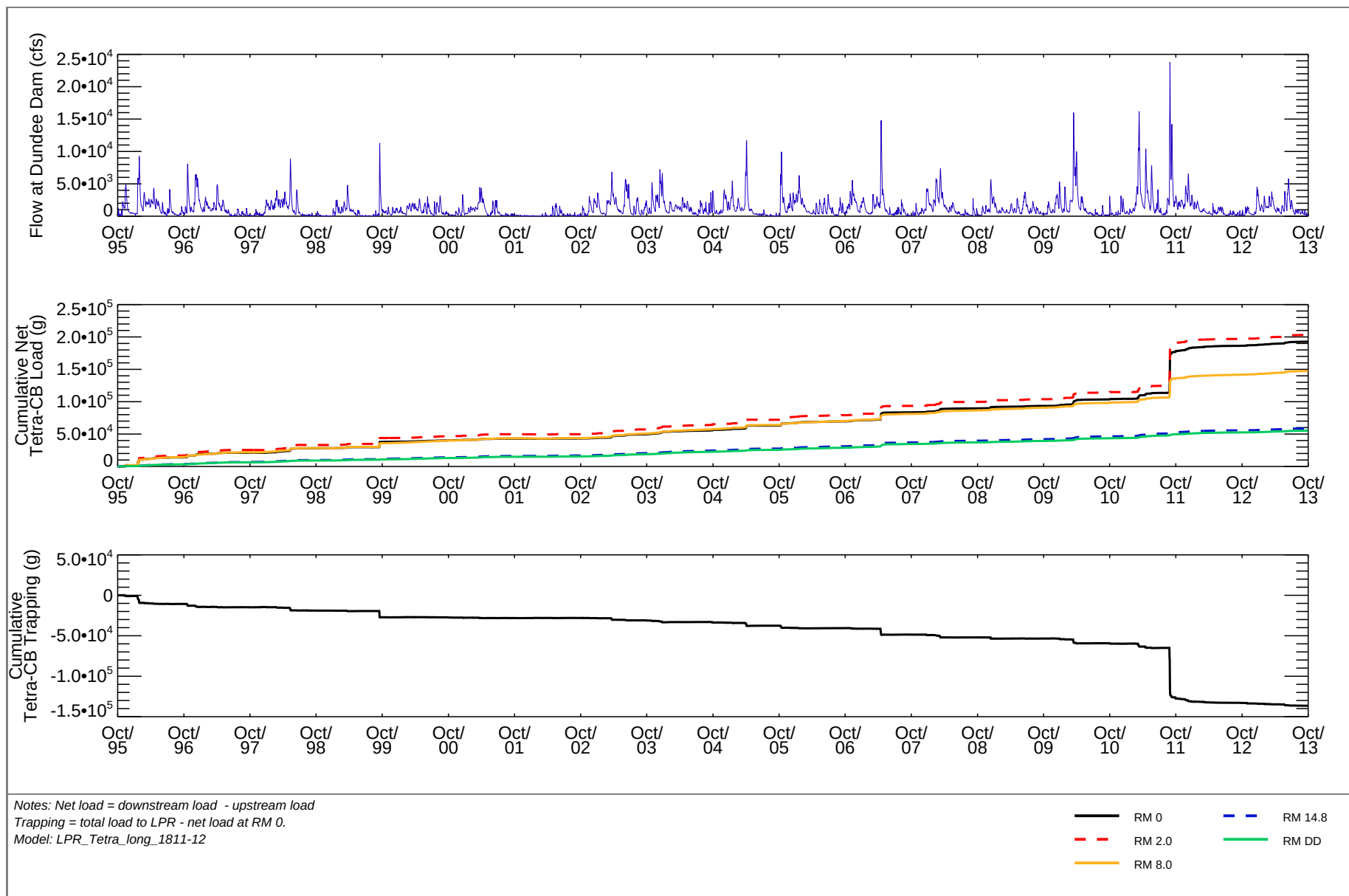
Figure 7-10b
Predicted Mass Balance of Tetra-PCB in the LPR over the WY1996 to WY2013 Period



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Figure 7-11a
Predicted Water Column 2,3,7,8-TCDD Load for the WY1996 to WY2013 Simulation

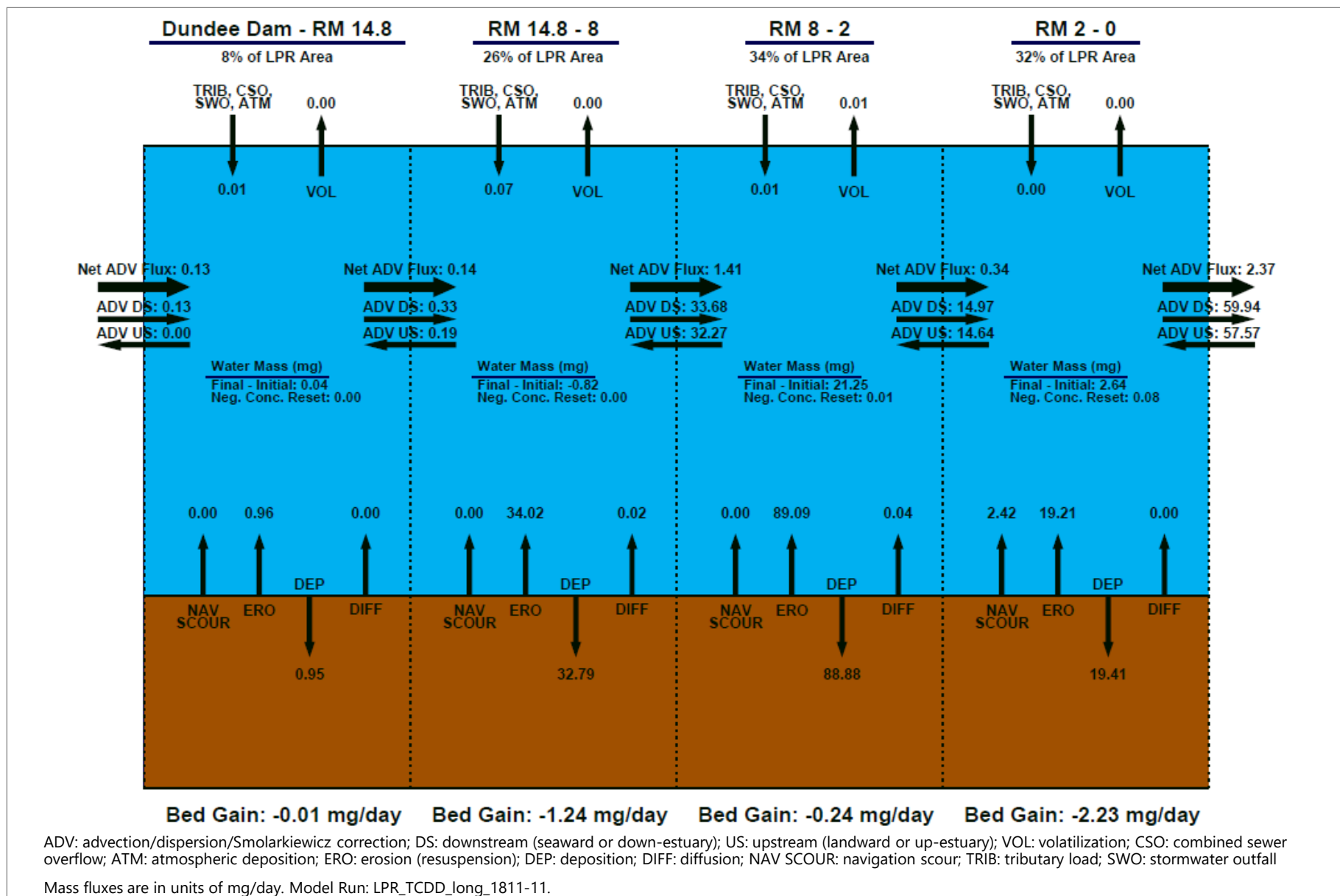
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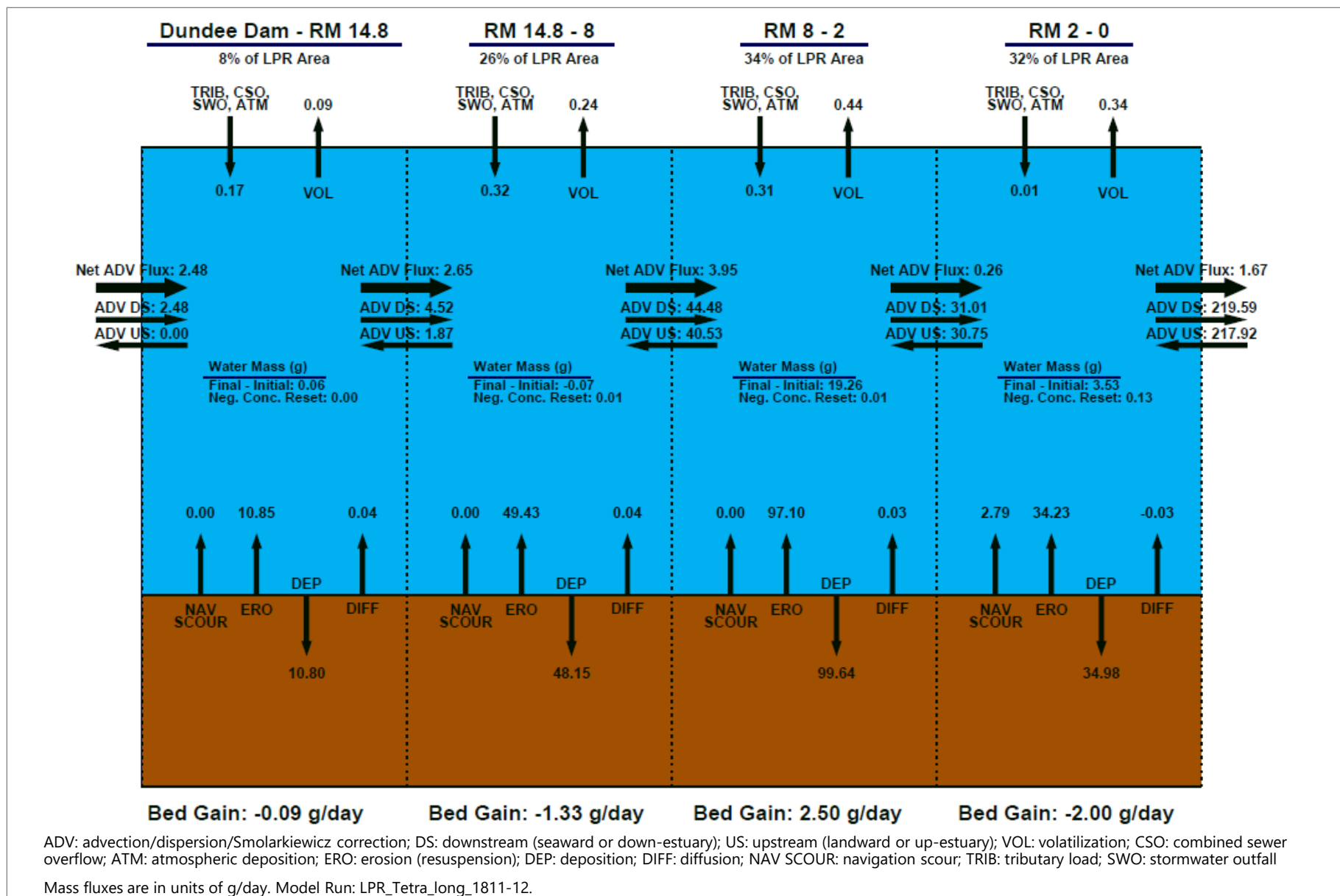
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Predicted Water Column Tetra-CB Load for the WY1996 to WY2013 Simulation

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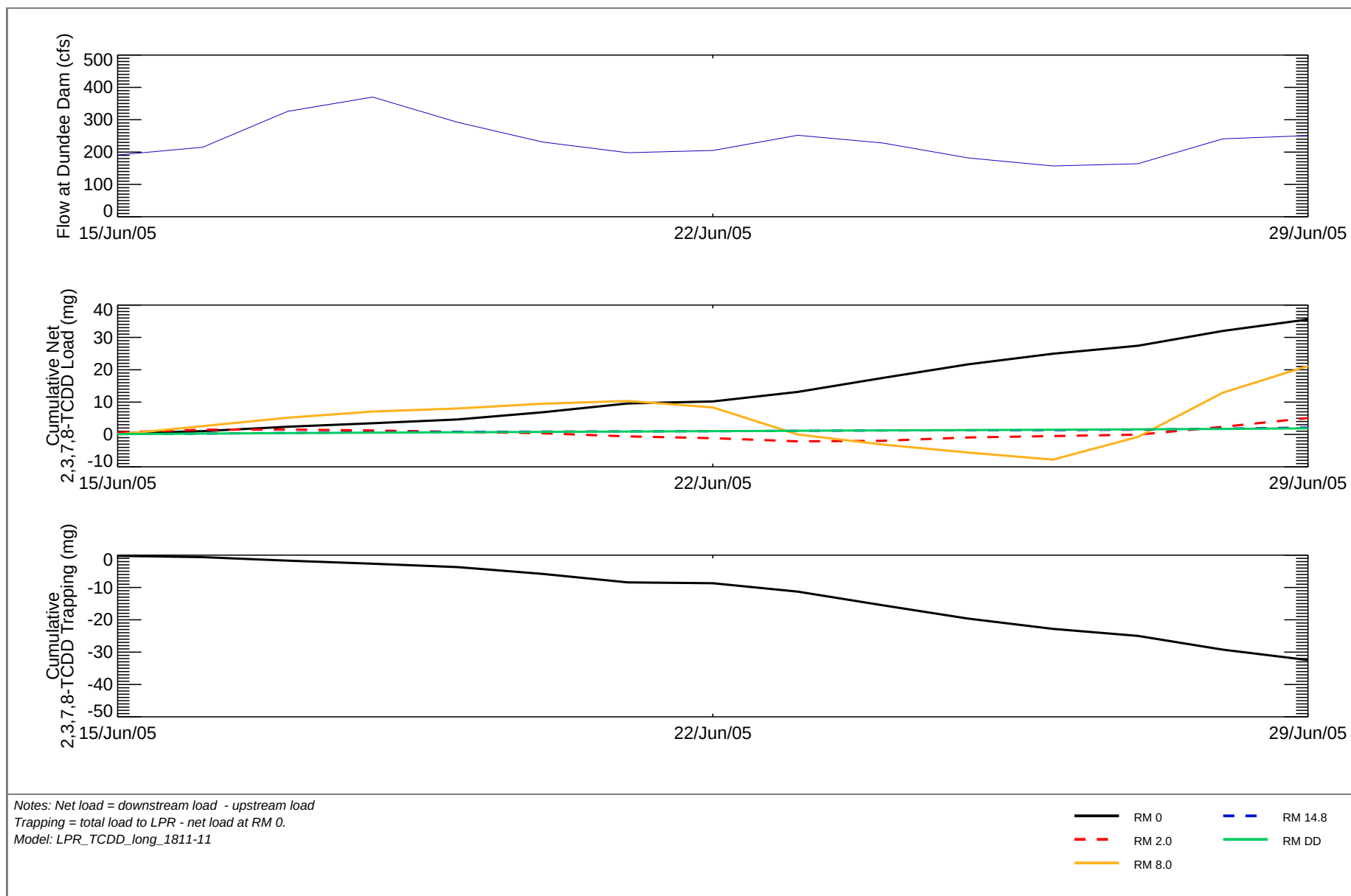
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Figure 7-12a
Predicted Mass Balance of 2,3,7,8 TCDD in the LPR over Low Flow Period: June 15, 2005 to June 29, 2005



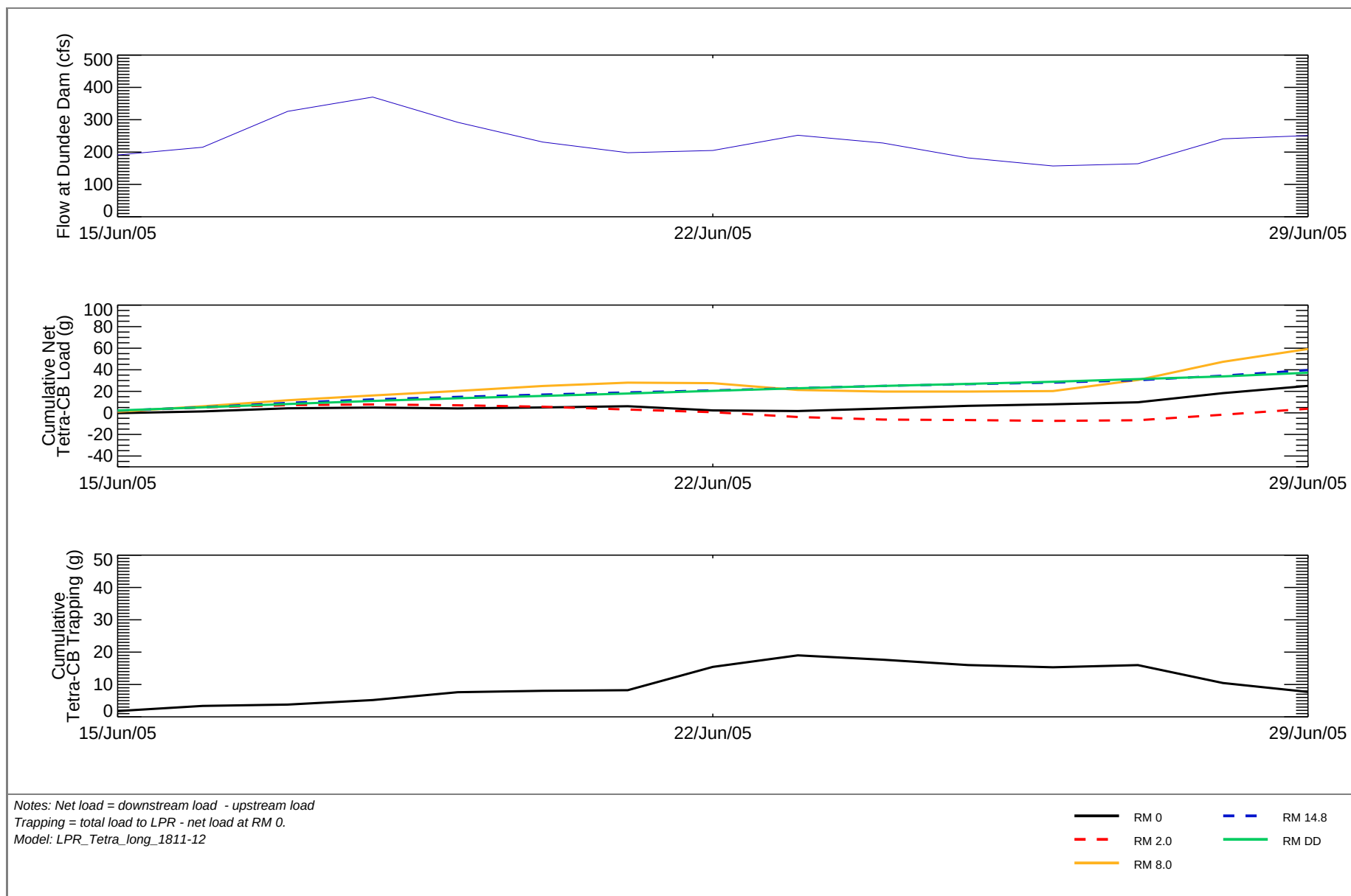
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Figure 7-12b
Predicted Mass Balance of Tetra-PCB in the LPR over Low Flow Period: June 15, 2005 to June 29, 2005



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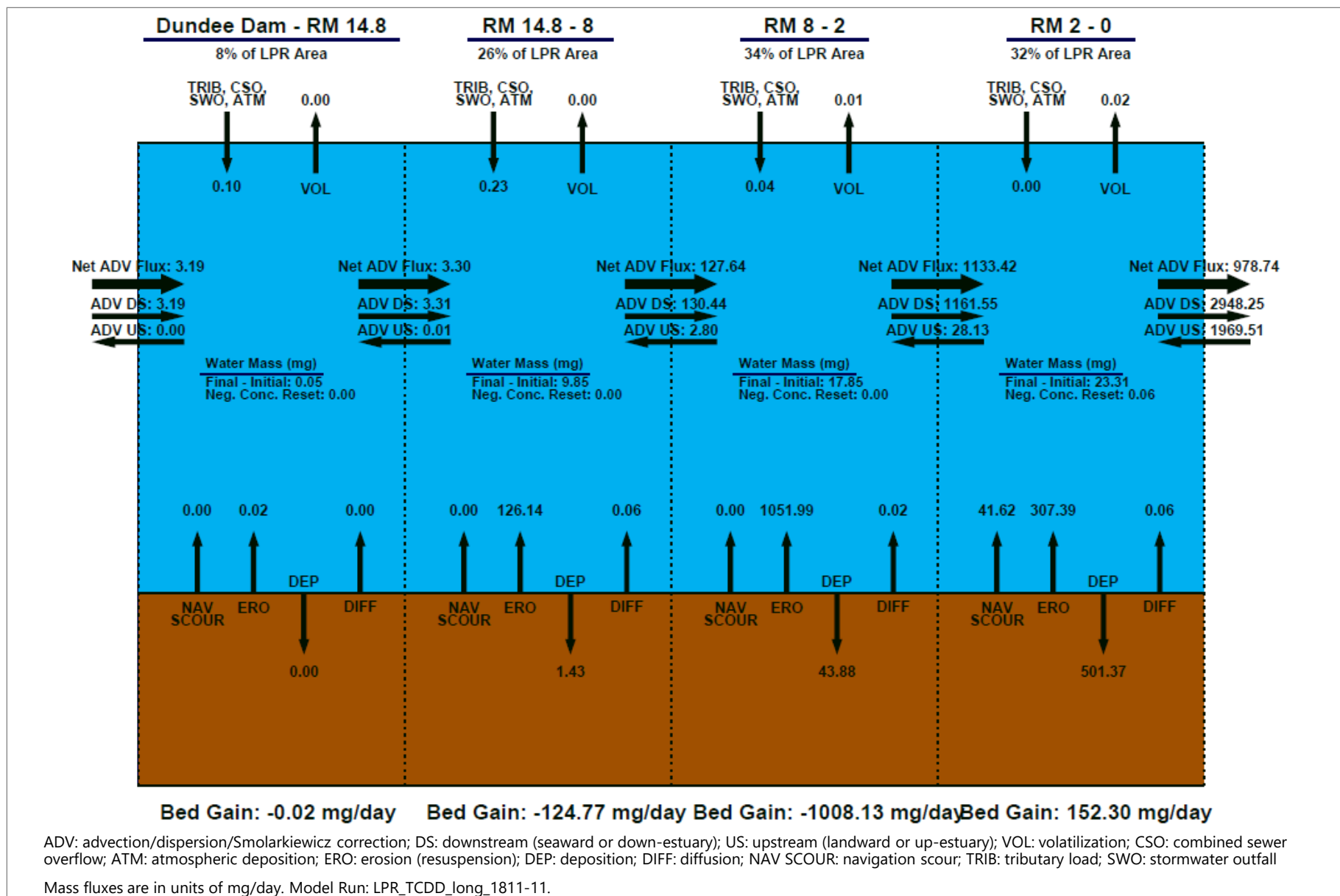
Figure 7-13a
Predicted Water Column 2,3,7,8-TCDD Load During June 15, 2005 to June 29, 2005 (a low-flow period)



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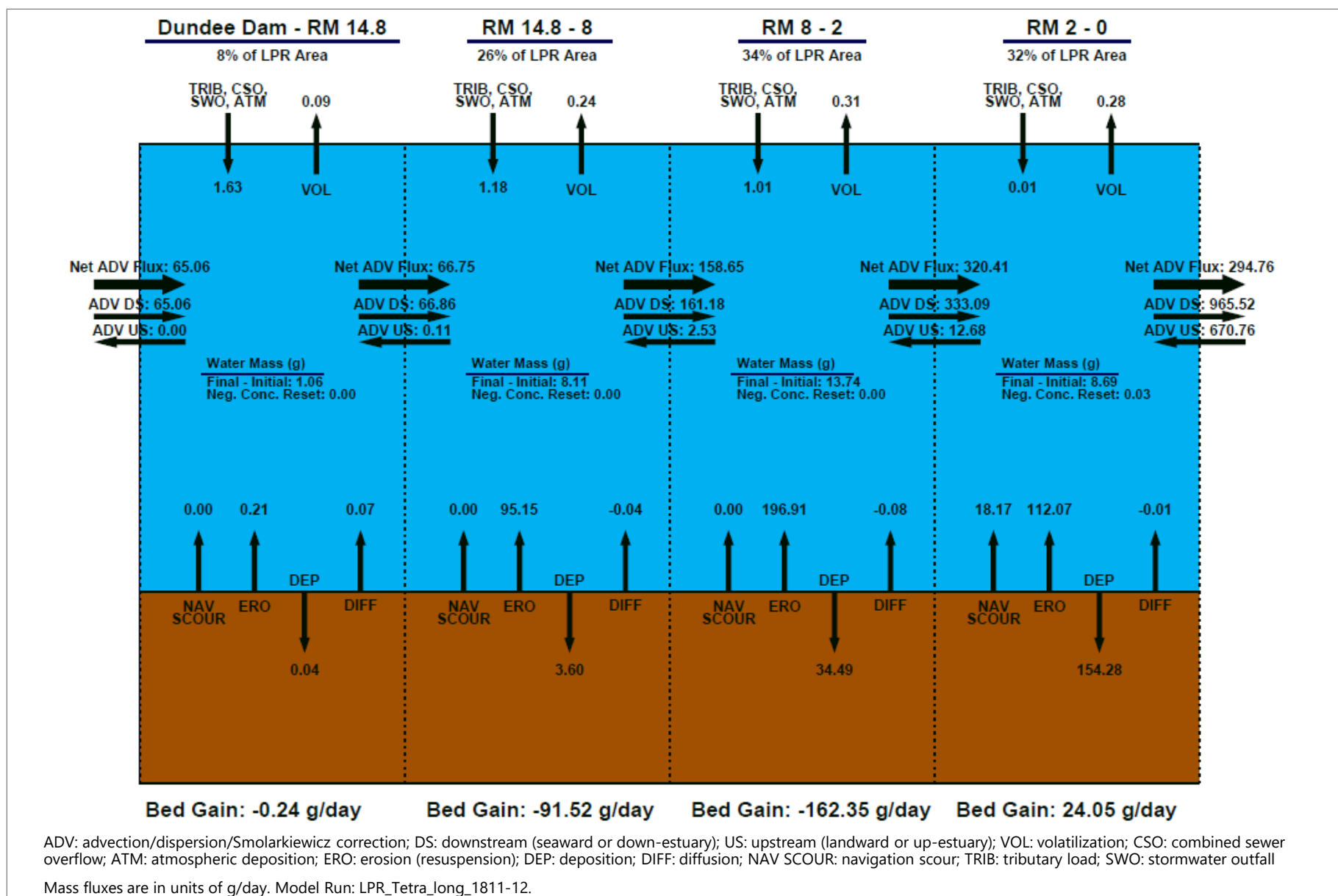
Figure 7-13b
Predicted Water Column Tetra-CB Load During June 15, 2005 to June 29, 2005 (a low-flow period)

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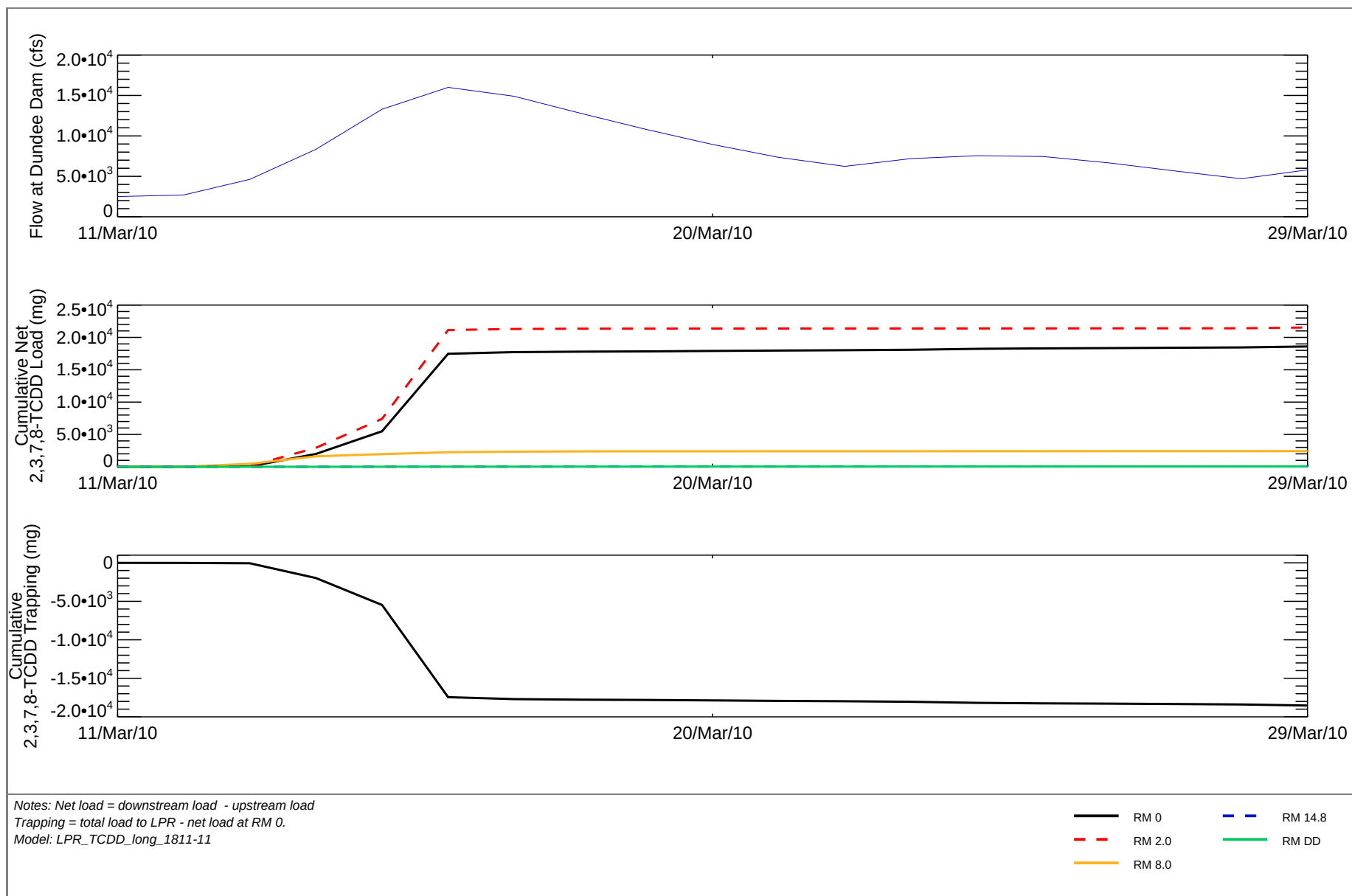
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Figure 7-14a
Predicted Mass Balance of 2,3,7,8 TCDD in the LPR over High Flow Period: March 11, 2010 to March 29, 2010



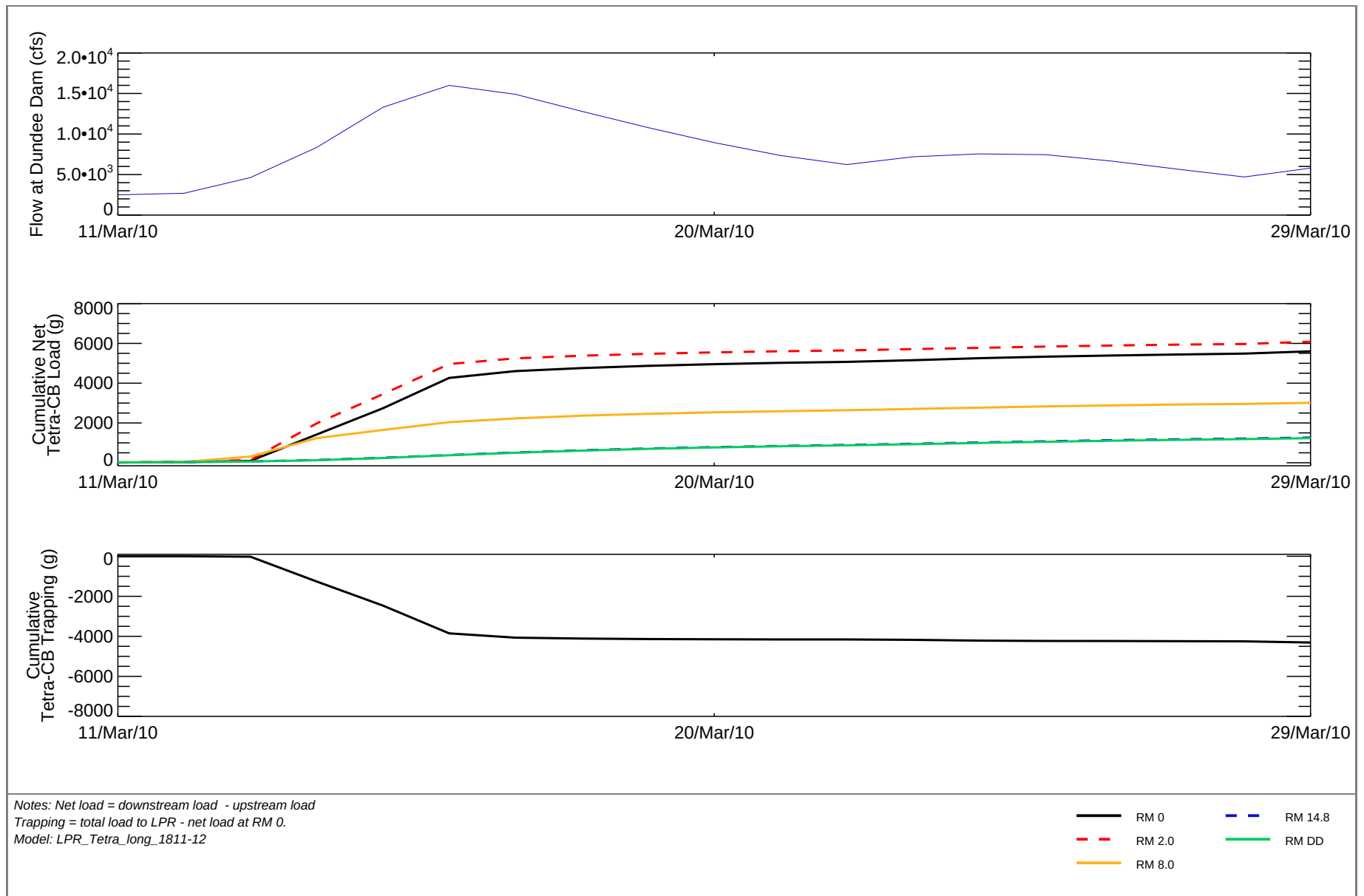
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Figure 7-14b
Predicted Mass Balance of Tetra-PCB in the LPR over High Flow Period: March 11, 2010 to March 29, 2010



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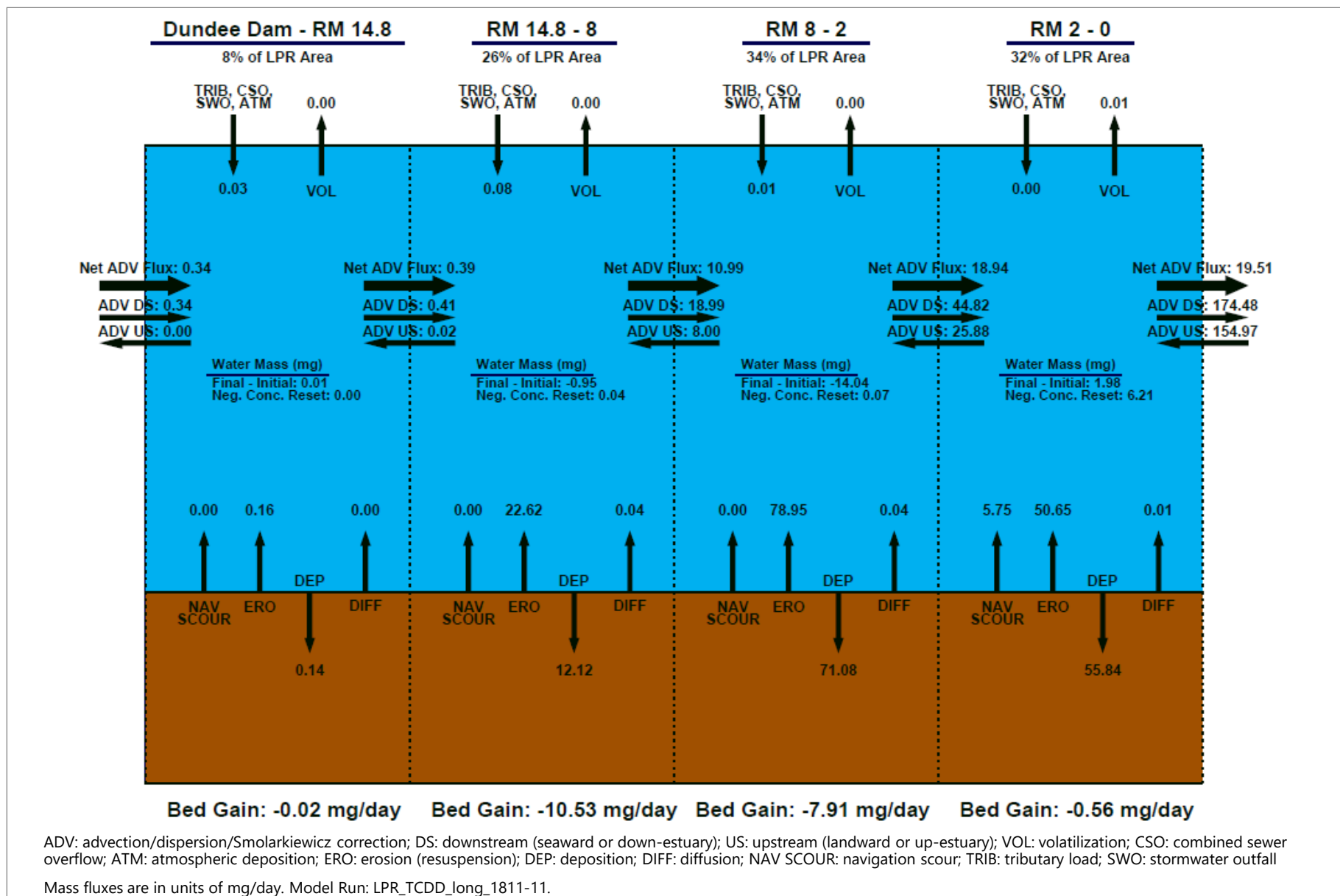
Figure 7-15a
Predicted Water Column 2,3,7,8-TCDD Load During March 11, 2010 to March 29, 2010 (a high-flow period)



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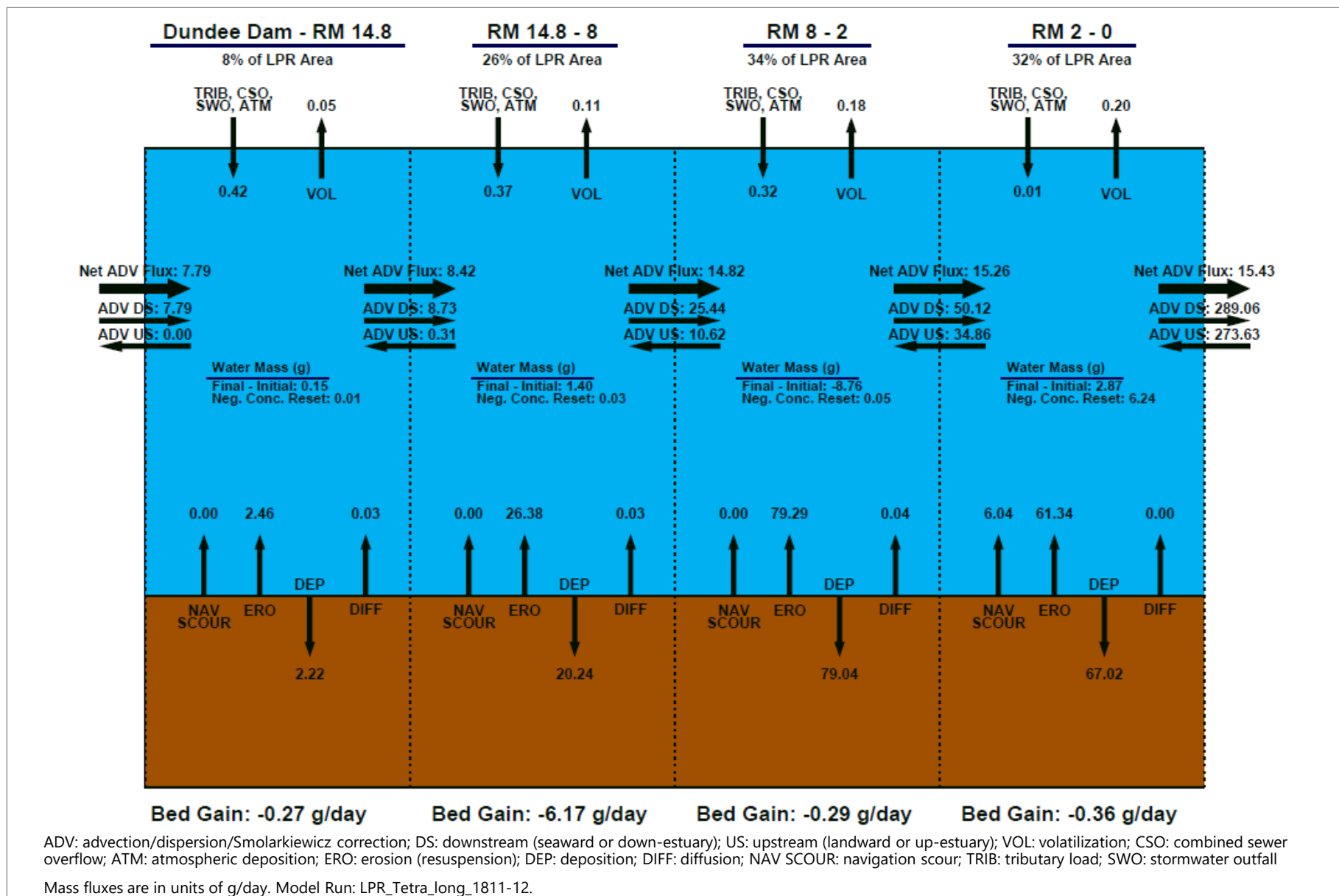
Figure 7-15b
Predicted Water Column Tetra-CB Load During March 11, 2010 to March 29, 2010 (a high-flow period)

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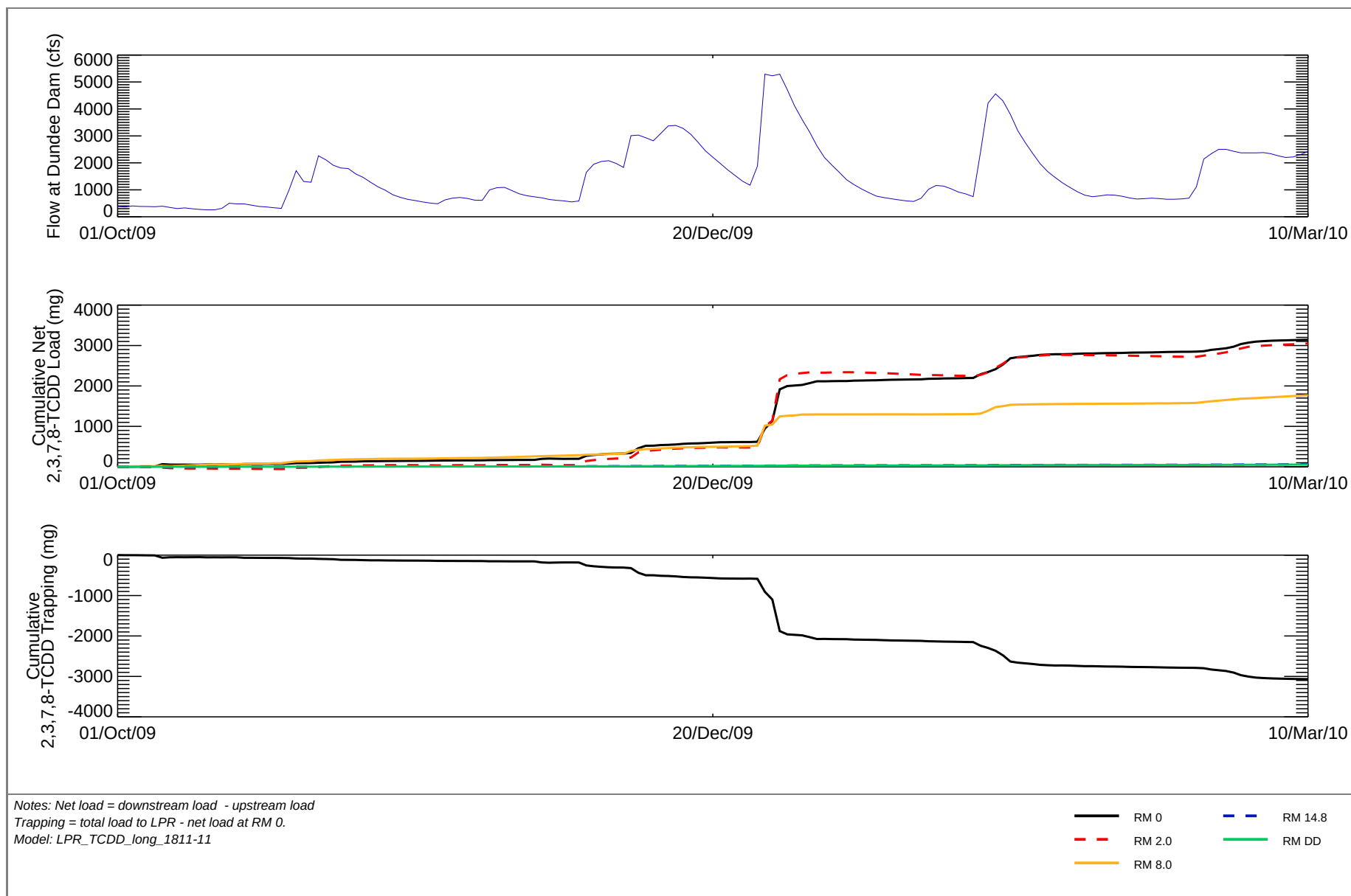
Figure 7-16a
Predicted Mass Balance of 2,3,7,8 TCDD in the LPR over Moderate Flow Period: October 1, 2009 to March 10, 2010



Filepath: \\Boston1\jobs\Passaic_CPG\DOCUMENTS\2019\RI_Report\source\v5\s7\code\Figure 7-16a_b.pptx

Figure 7-16b
Predicted Mass Balance of Tetra-PCB in the LPR over Moderate Flow Period: October 1, 2009 to March 10, 2010

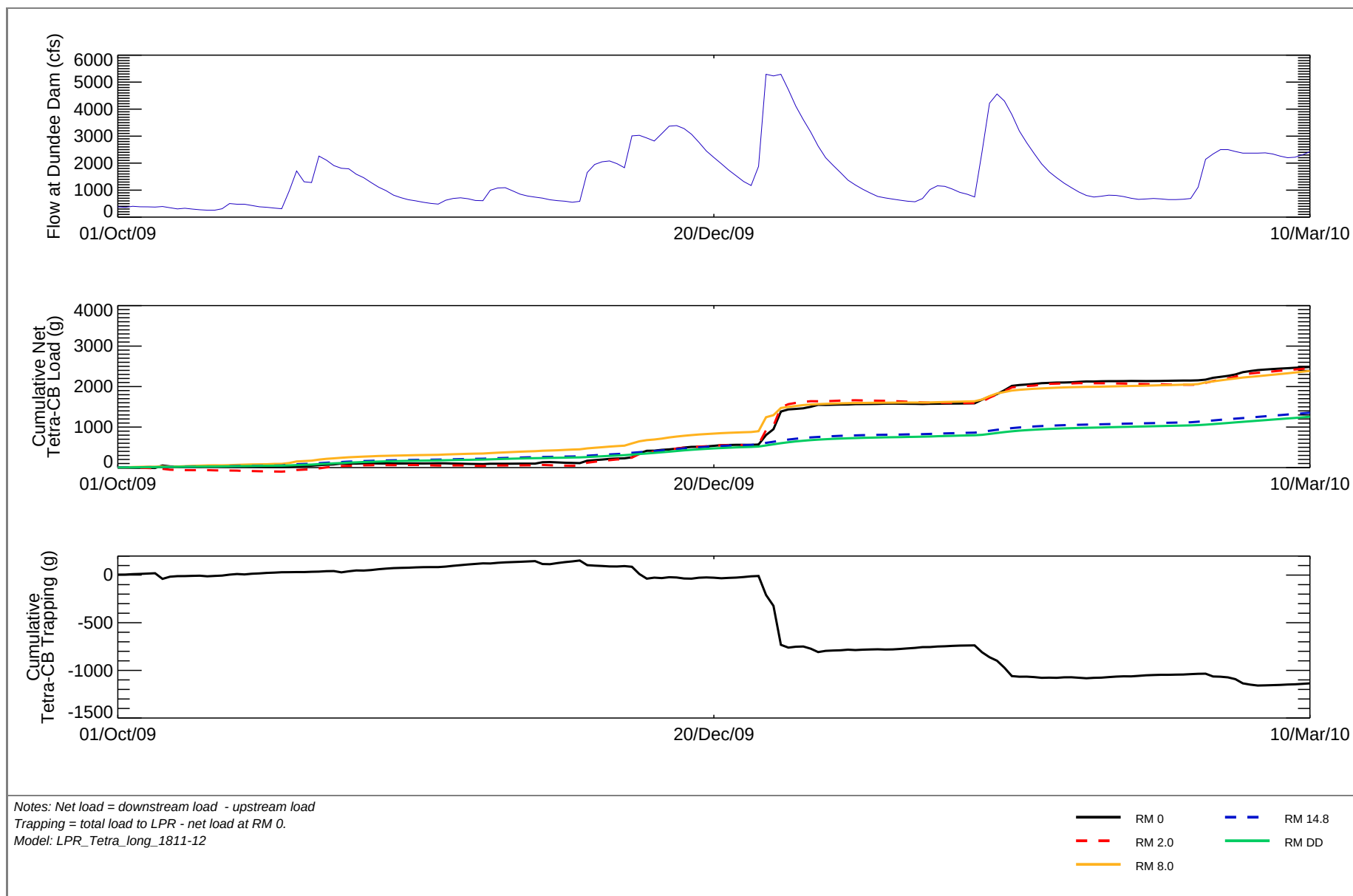
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Figure 7-17a
Predicted Water Column 2,3,7,8-TCDD Load During October 1, 2009 to March 10, 2010 (a moderate-flow period)

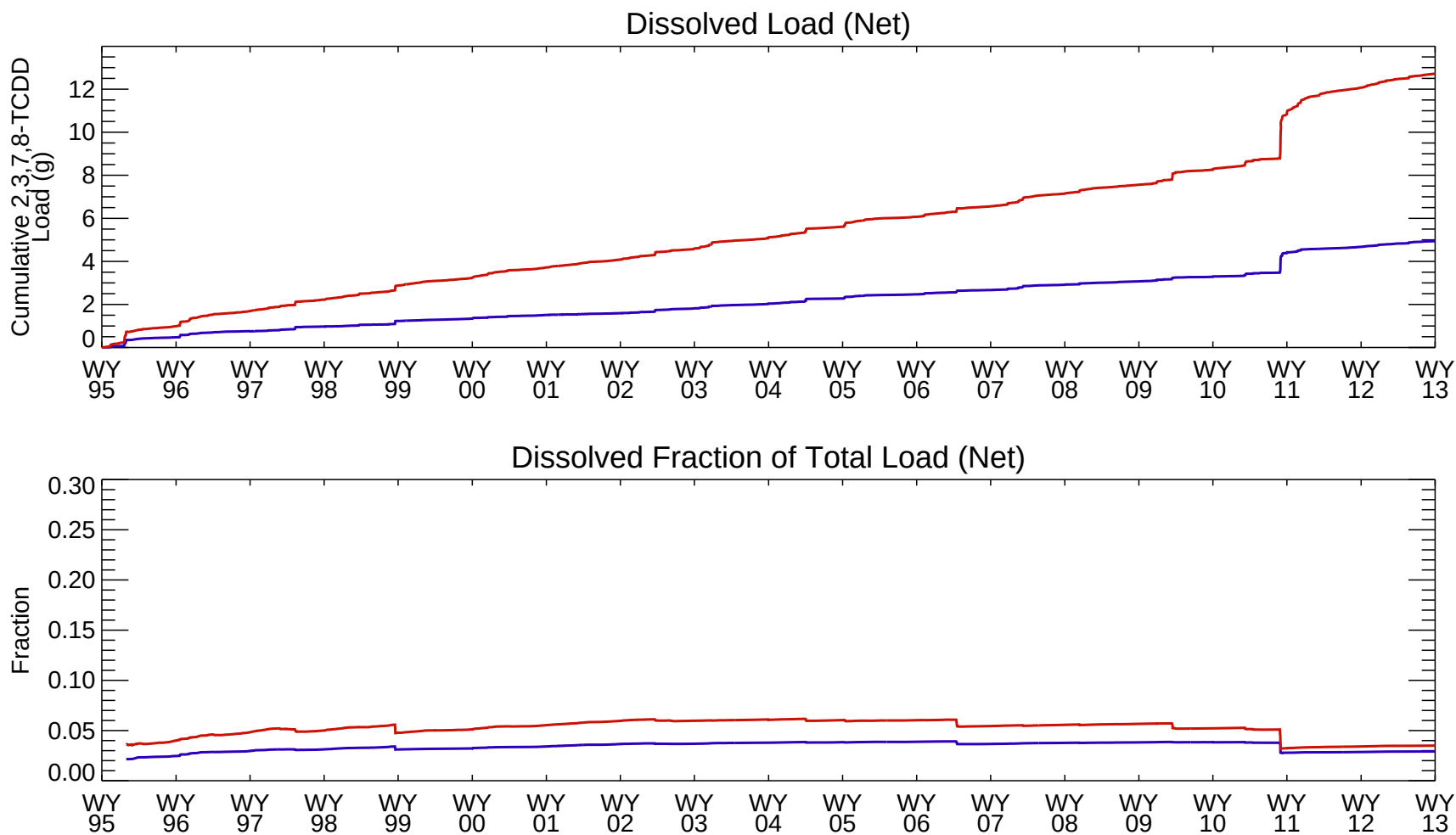
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Figure 7-17b
Predicted Water Column Tetra-CB Load During October 1, 2009 to March 10, 2010 (a moderate-flow period)

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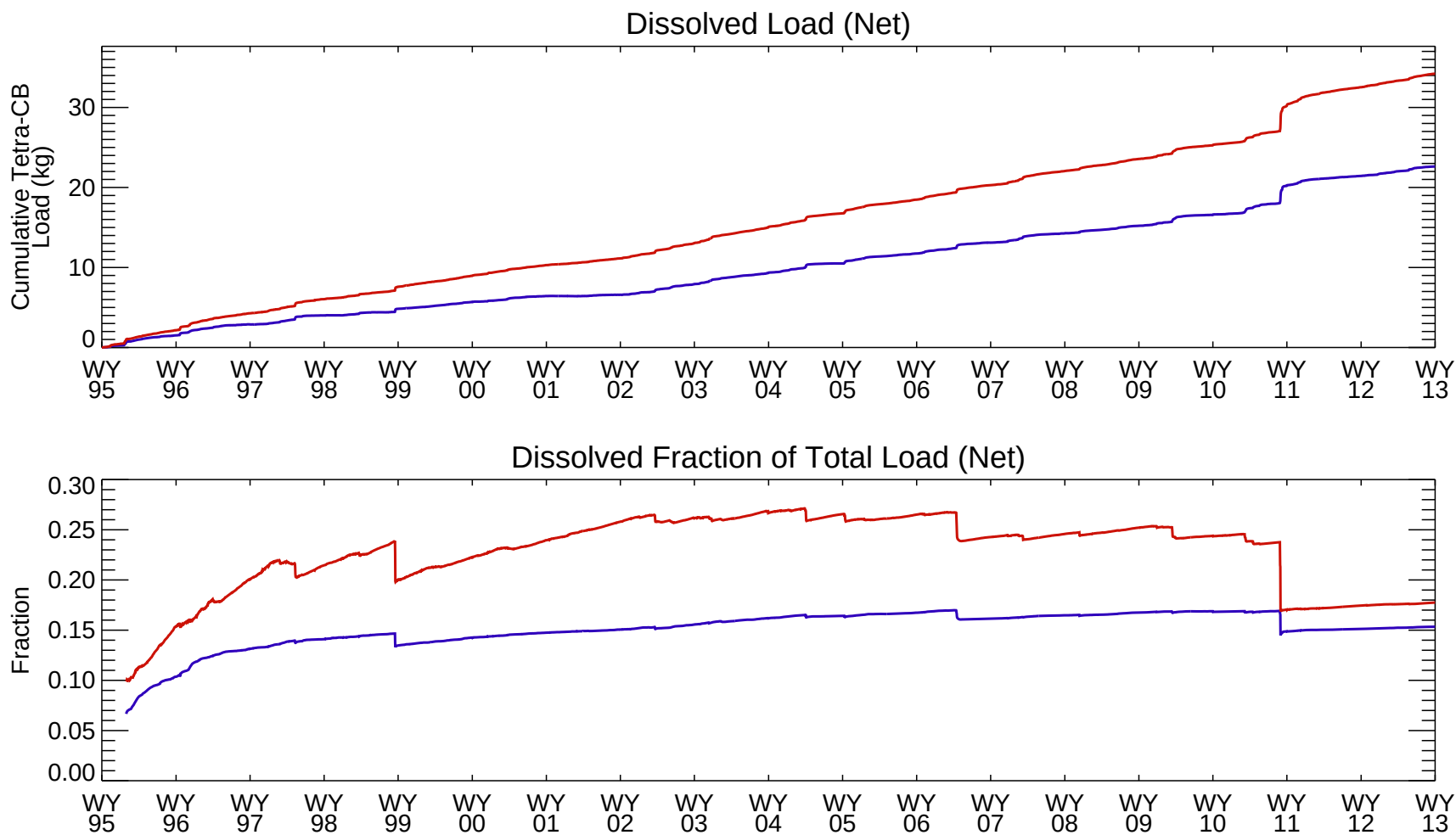
Notes: Load calculated as sum of downstream load less the sum of upstream load. Fraction load calculated as daily cumulative dissolved mass divided by daily cumulative total mass.
Model runs: LPR_TCDD_long_1811-11

Publish Date: 06/12/2019 11:09 | User: EP/WK
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— Flux at RM8
— Flux at RM0

Figure 7-18a
Cumulative Water Column 2,3,7,8-TCDD Dissolved Load Passed RM 8 and RM 0

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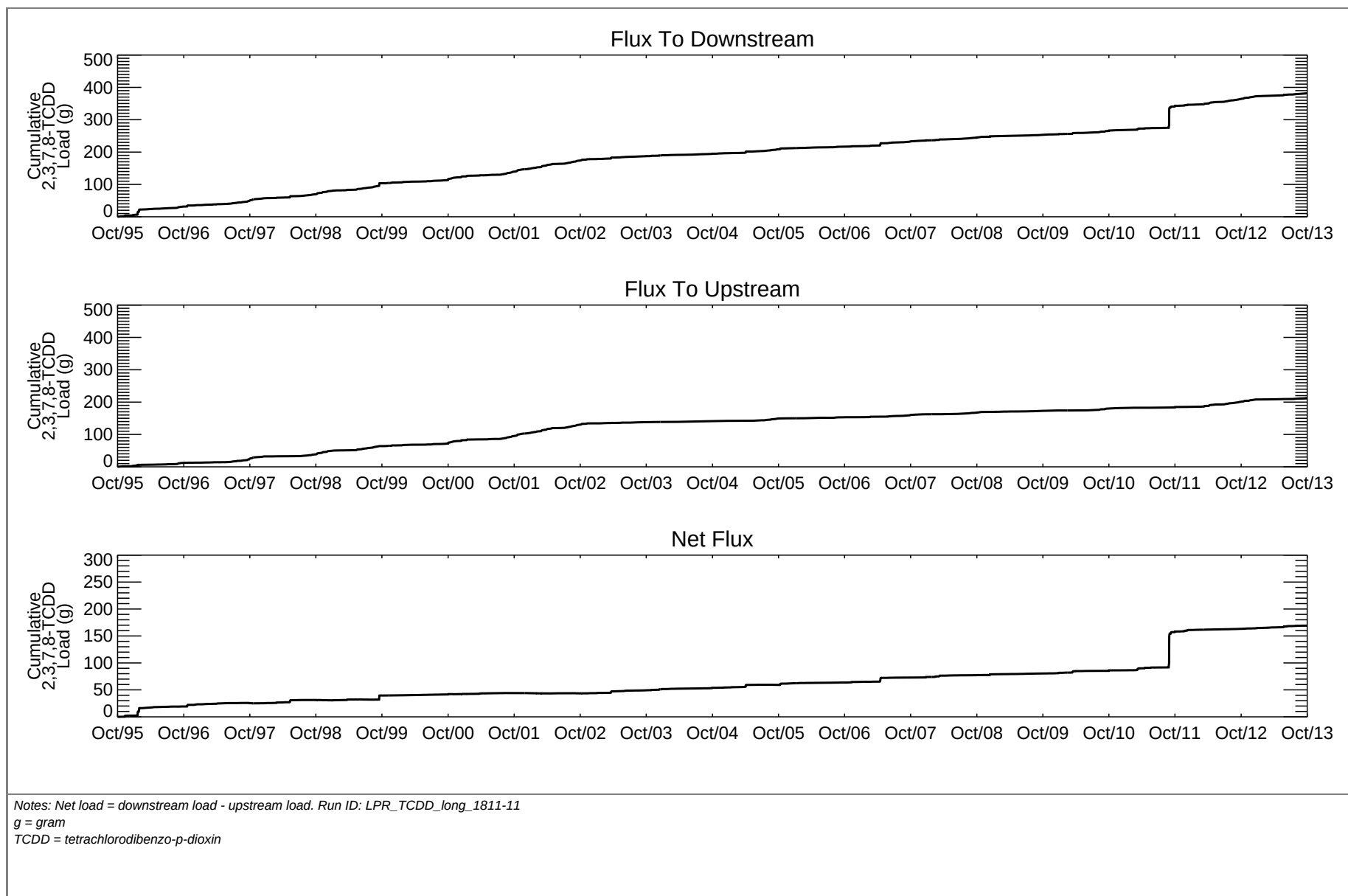
Notes: Load calculated as sum of downstream load less the sum of upstream load. Fraction load calculated as daily cumulative dissolved mass divided by daily cumulative total mass.
Model runs: LPR_Tetra_long_1811-12

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— Flux at RM8
— Flux at RM0

Figure 7-18b
Cumulative Water Column Tetra-CB Dissolved Load Passed RM 8 and RM 0

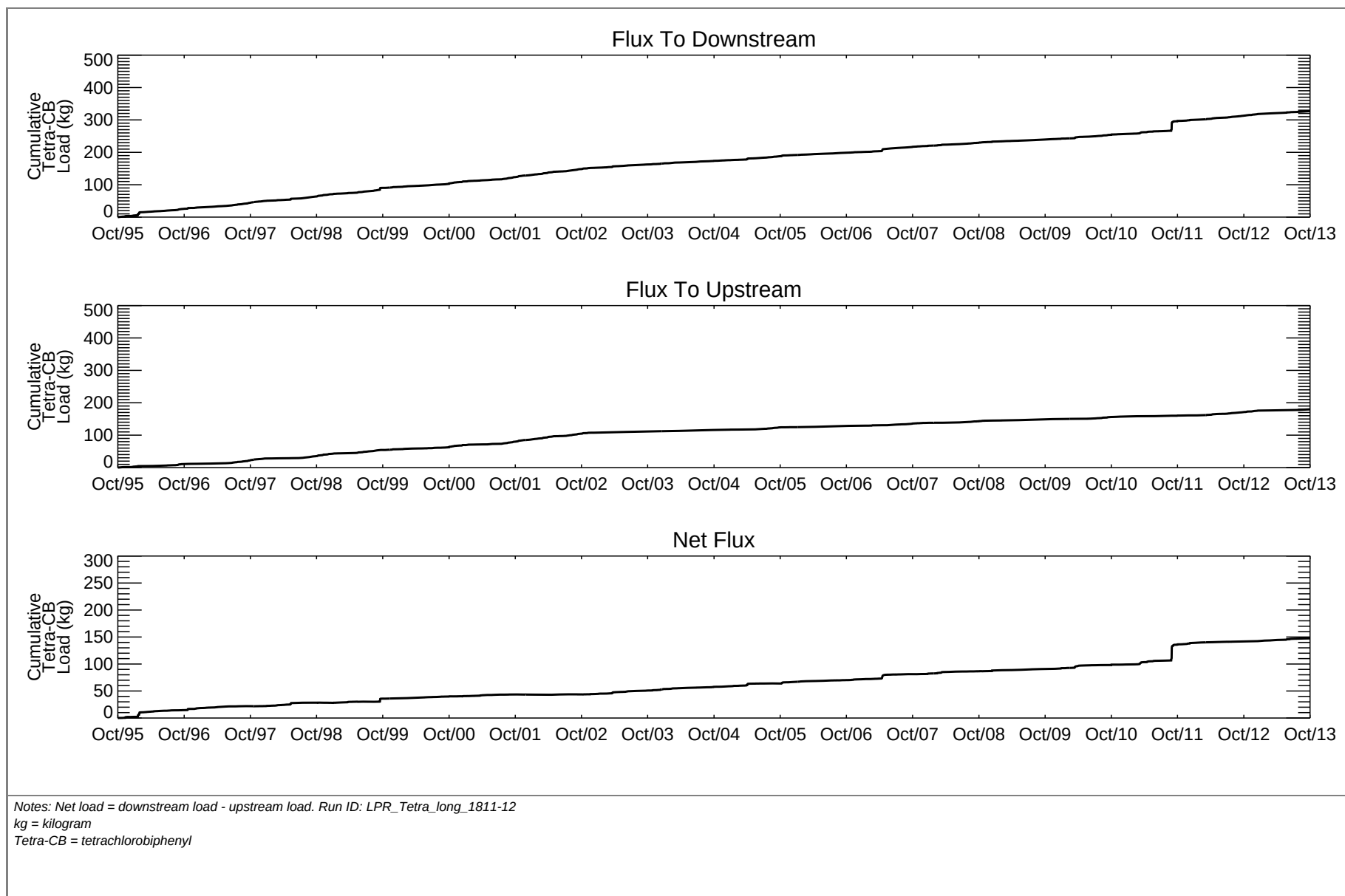
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Publish Date: 06/12/2019 11:15 | User: zw
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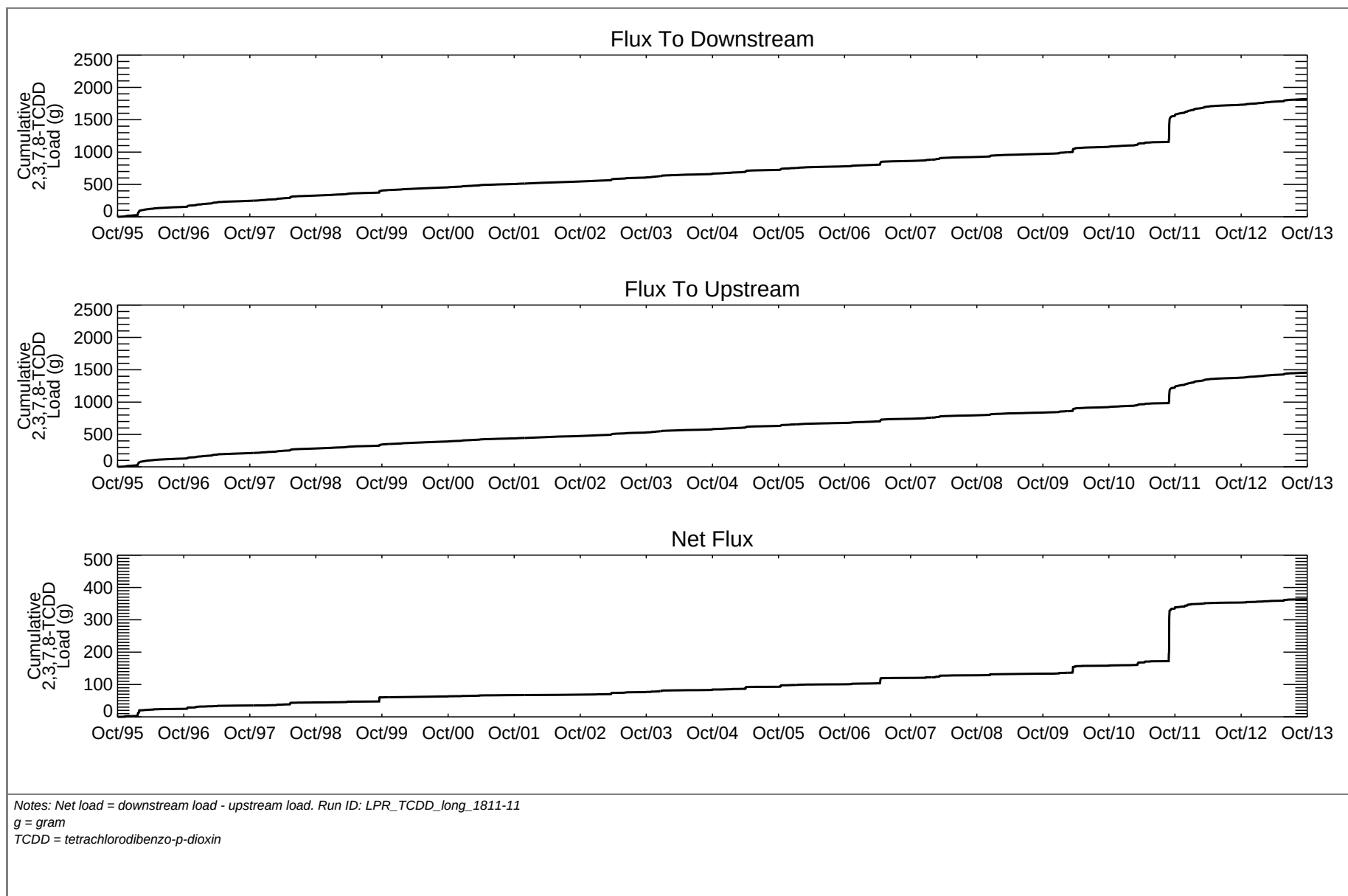
Figure 7-19a
Upstream, Downstream, and Net 2,3,7,8-TCDD Load at RM 8

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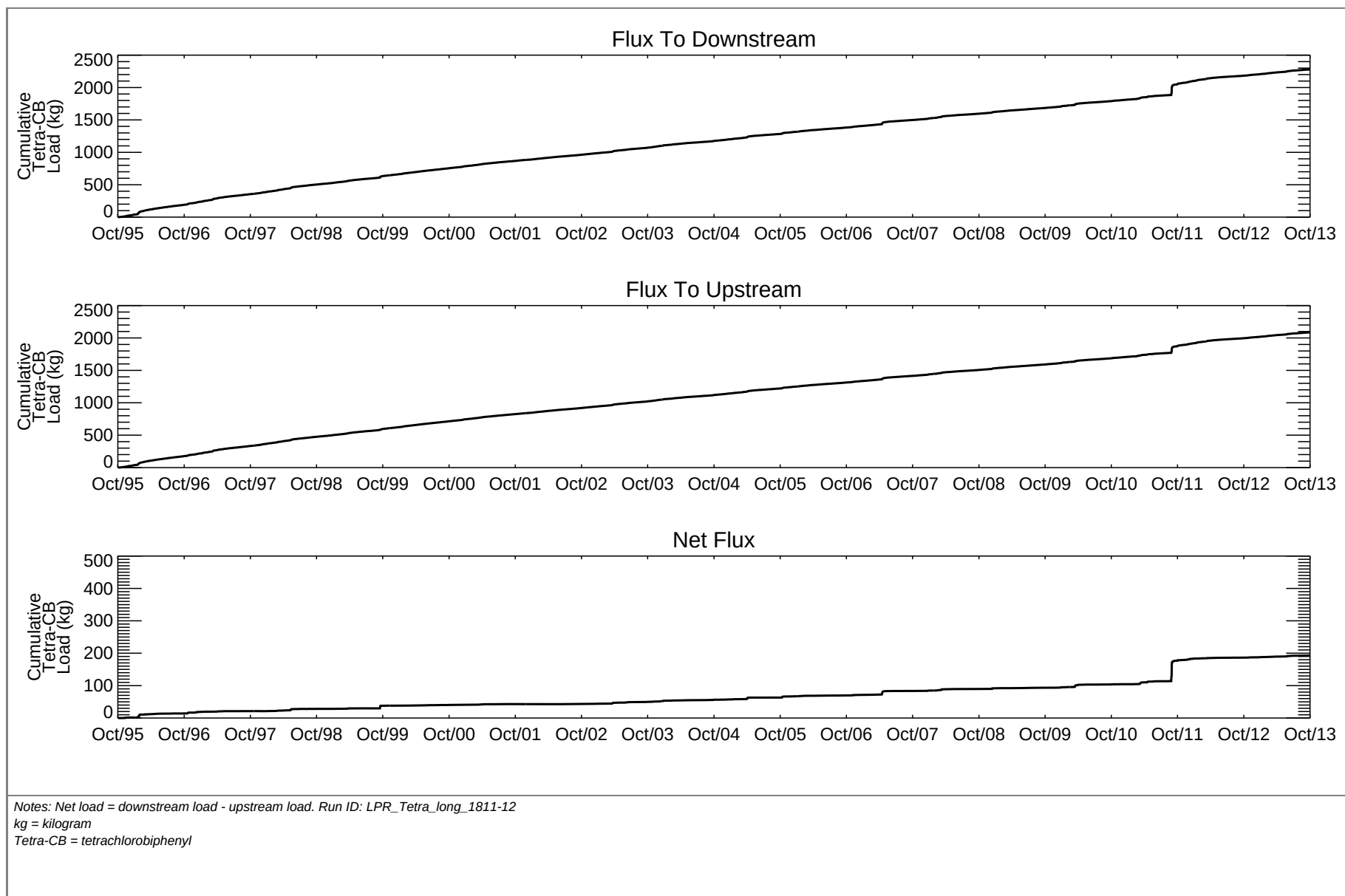
Figure 7-19b
Upstream, Downstream, and Net Tetra-CB Load at RM 8
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Publish Date: 06/12/2019 11:25 | User: zw
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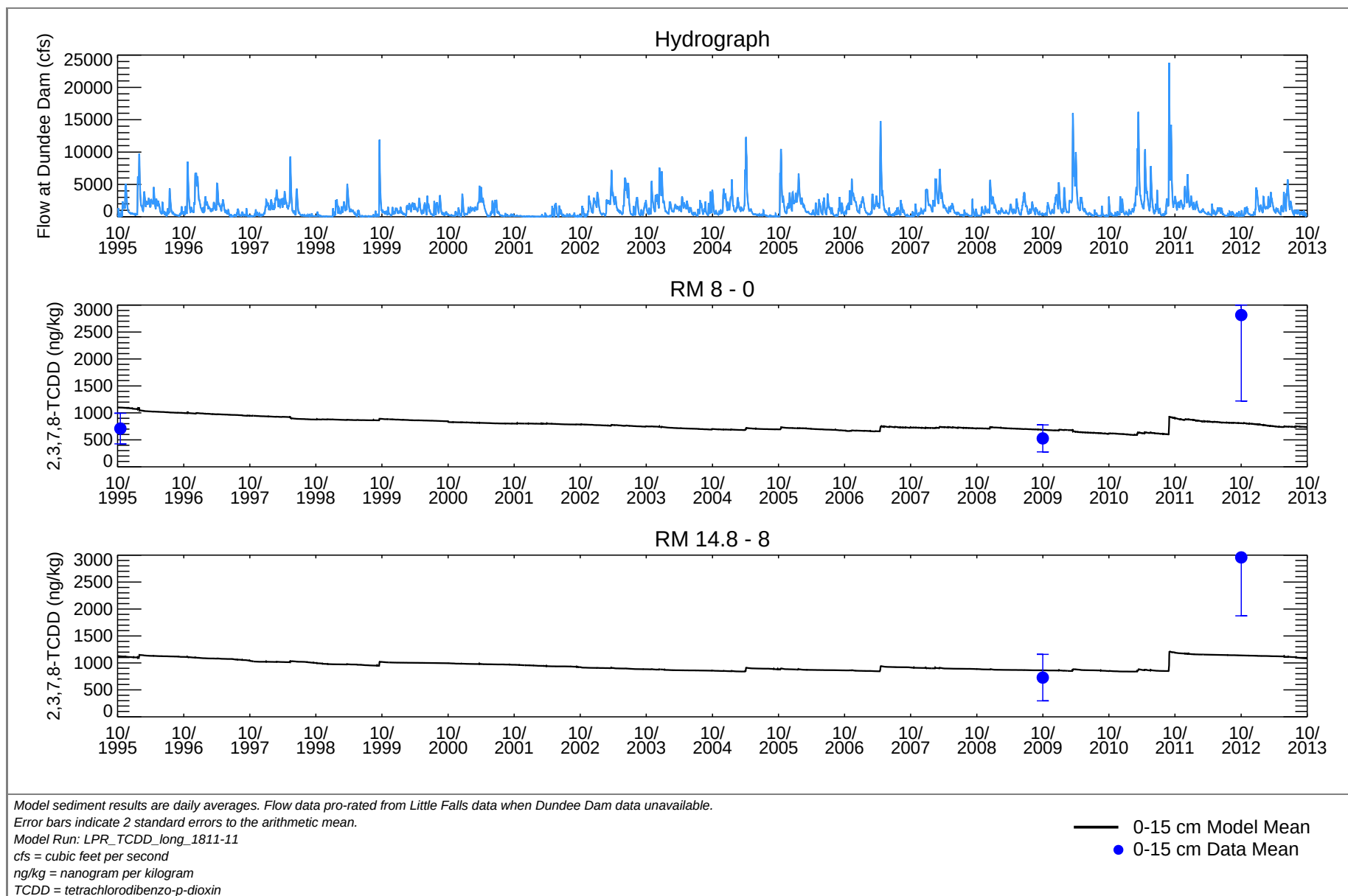
Figure 7-20a
Upstream, Downstream, and Net 2,3,7,8-TCDD Load at RM 0

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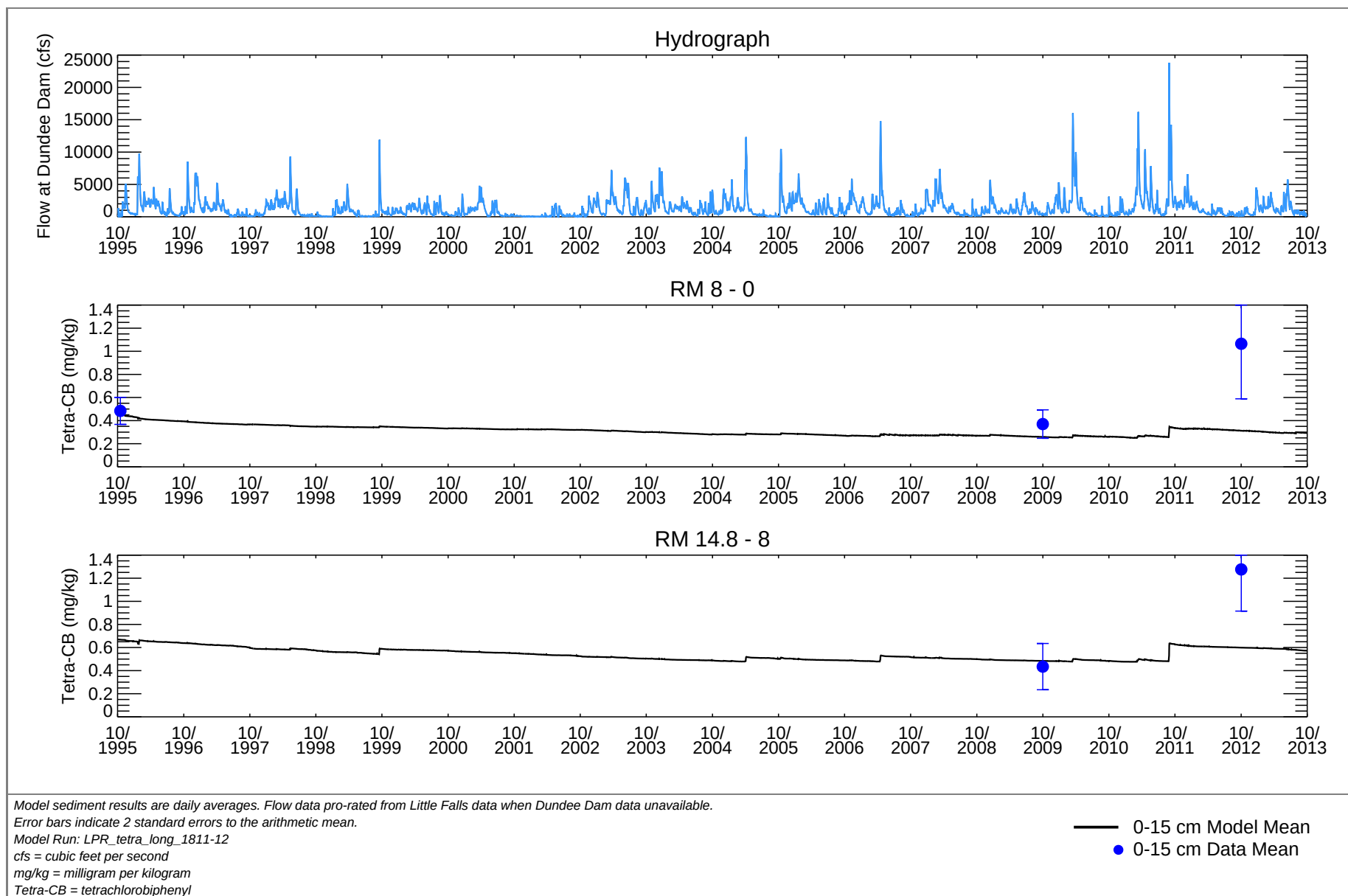
Figure 7-20b
Upstream, Downstream, and Net Tetra-CB Load at RM 0
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Publish Date: 06/12/2019 11:34 | User: sm/zw
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Figure 21a
Predicted Mean Surface Sediment 2,3,7,8-TCDD Concentrations During WY1996 to WY2013

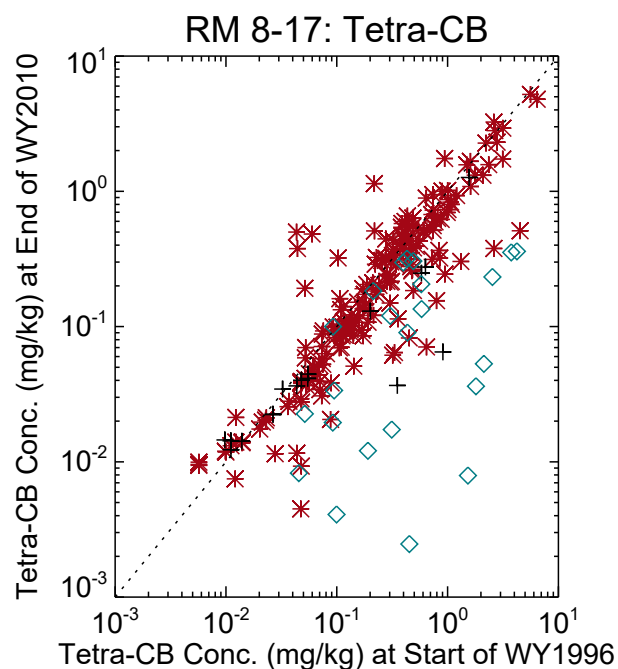
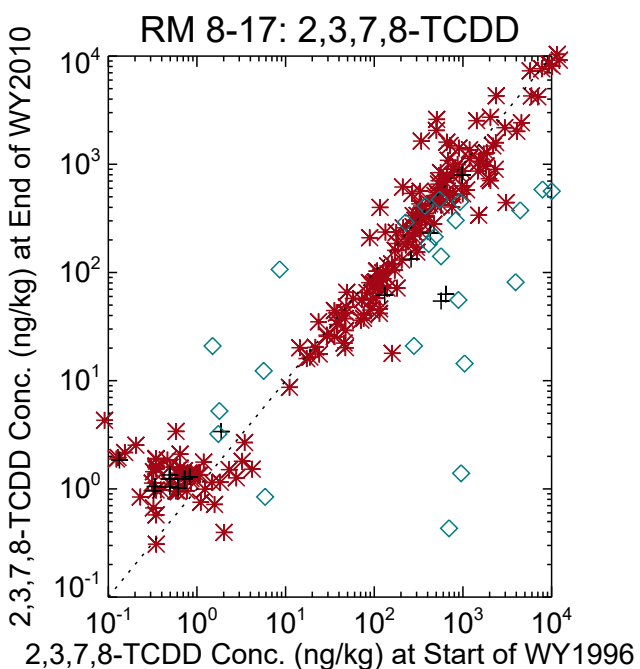
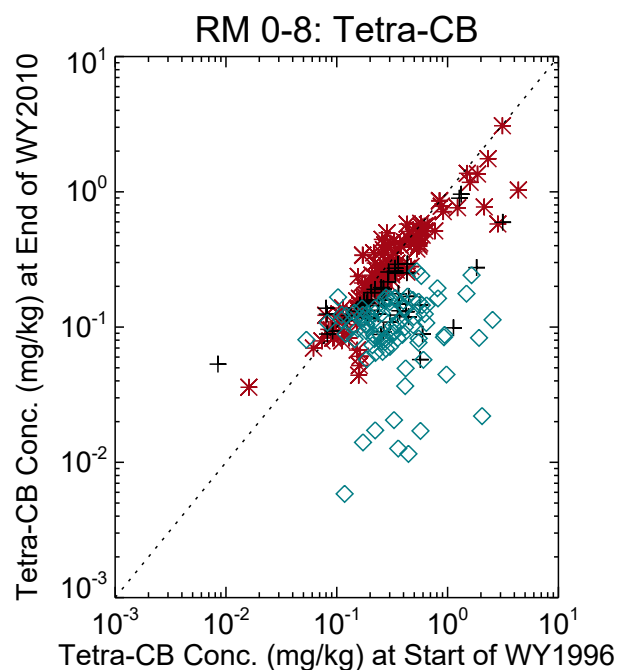
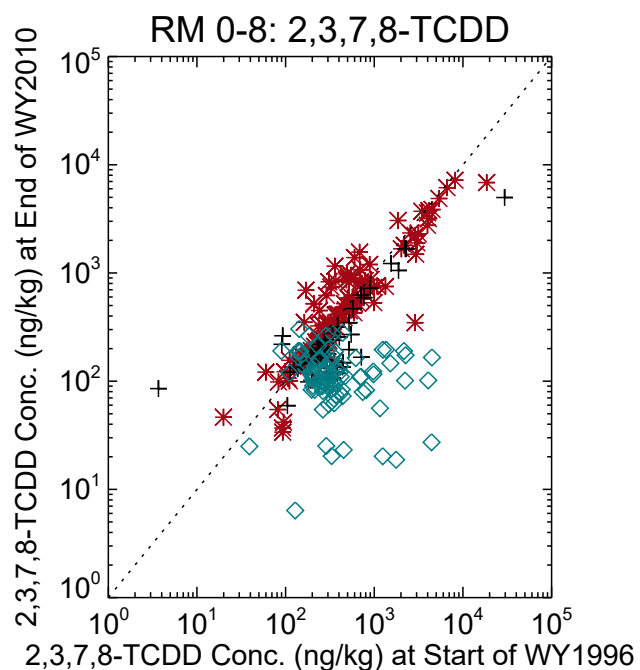
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Figure 21b
Predicted Mean Surface Sediment Tetra-CB Concentrations During WY1996 to WY2013

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Dashed line indicates 1 to 1 comparison. Run IDs: LPR_TCDD_long_1811-11, LPR_Tetra_long_1811-12.

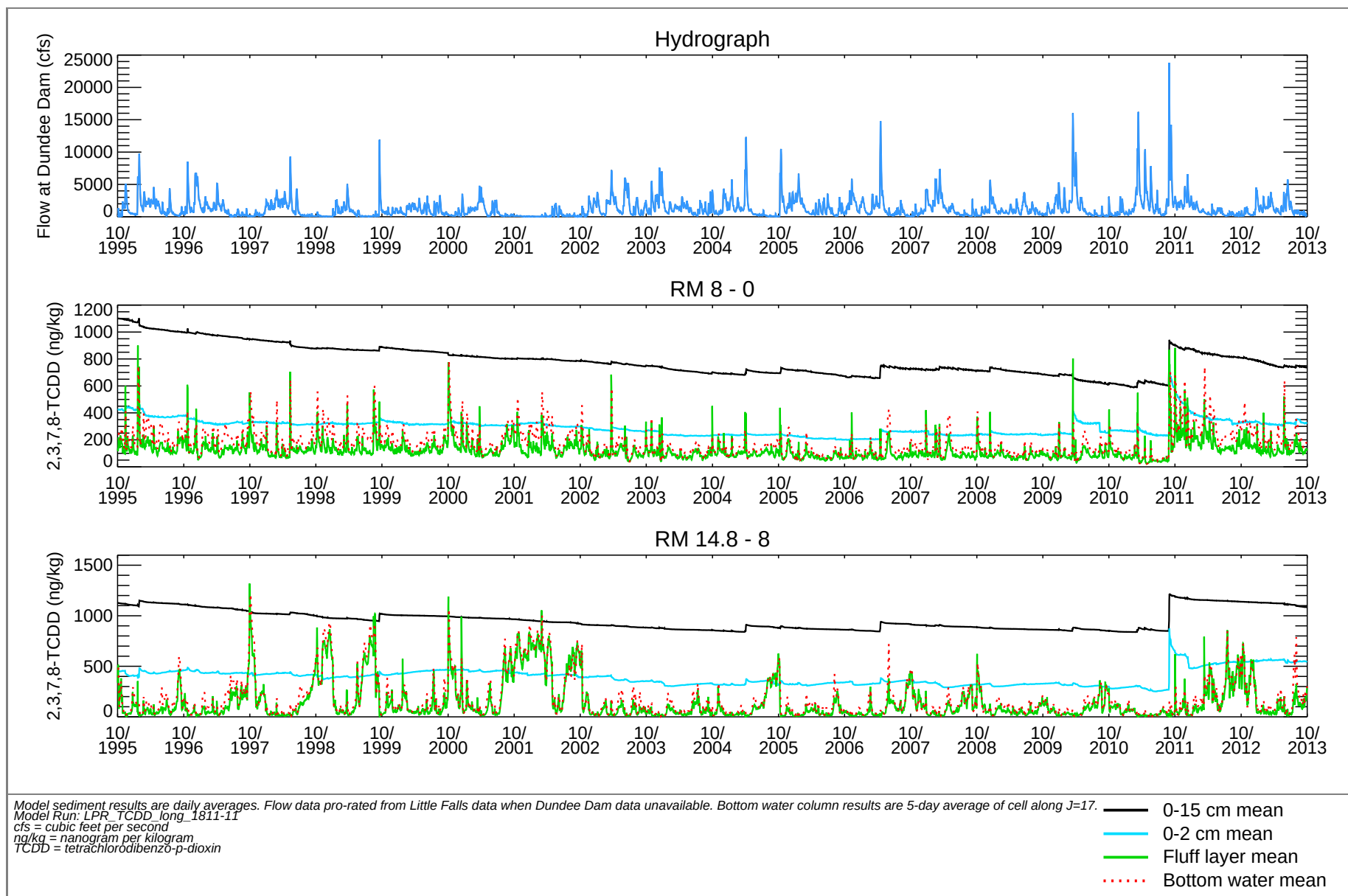
* Erosional/Non-Depositional + Depositional <= 1cm/yr ◇ Depositional > 1cm/yr

Publish Date: 06/18/2019 11:35 | User: zw

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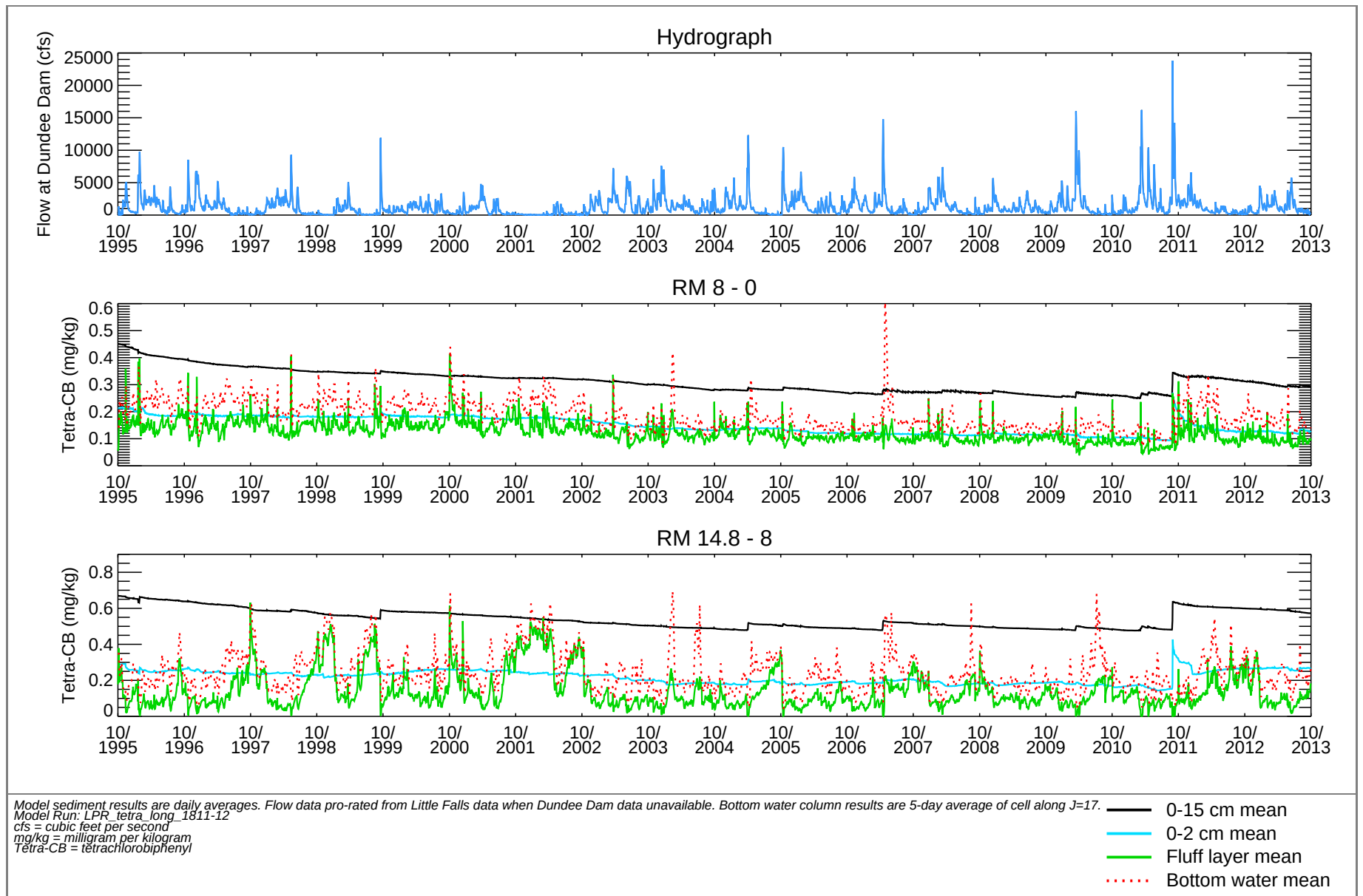
Figure 7-22
Initial vs. Final Surface Sediment (0-15 cm) Concentrations for WY1996 to WY2010

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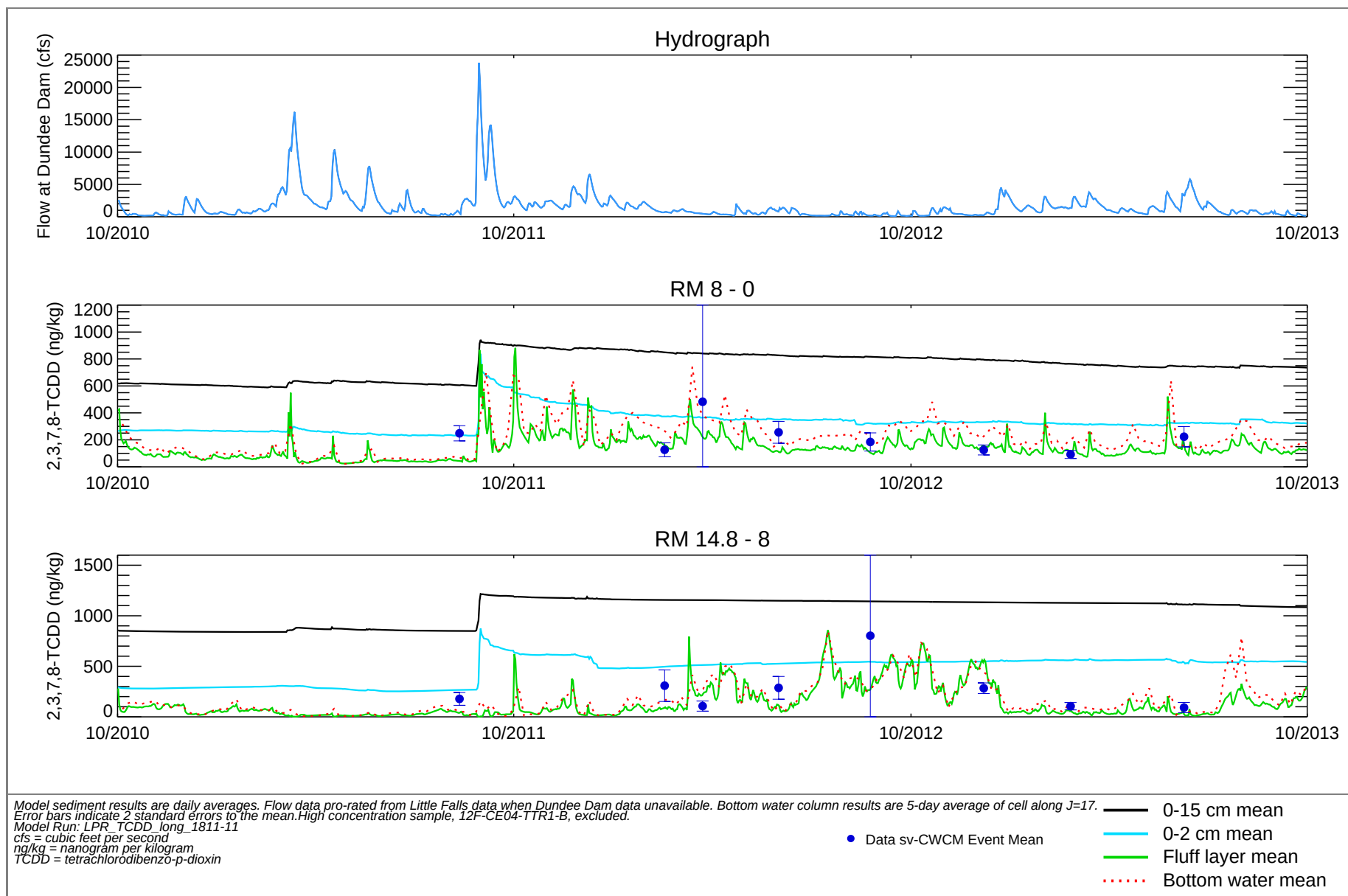
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Figure 7-23a
Predicted Bottom Water Column, Fluff Layer, and Surface Sediment 2,3,7,8-TCDD Concentrations During WY1996 to WY2013



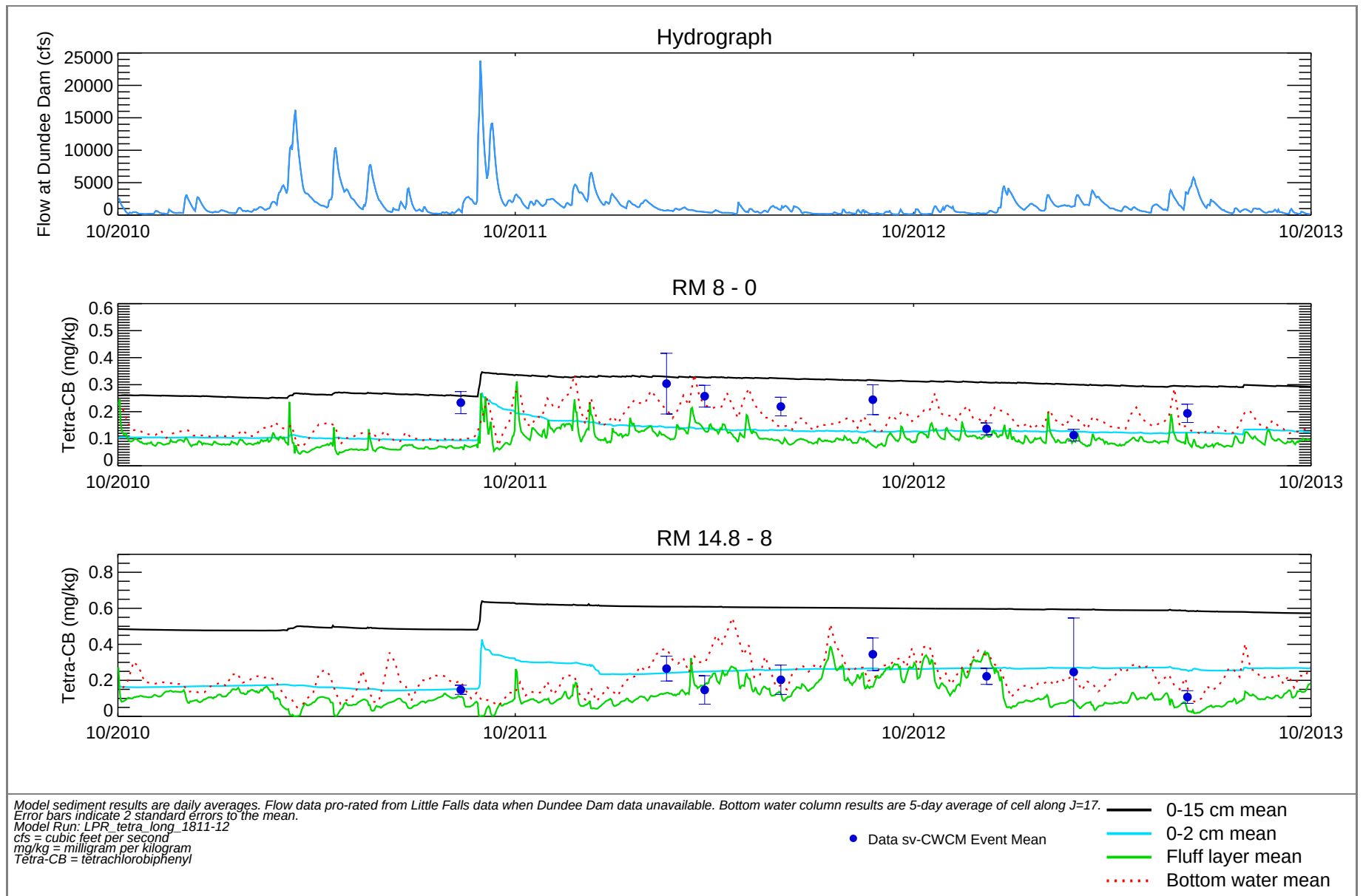
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Figure 7-23b
Predicted Bottom Water Column, Fluff Layer, and Surface Sediment Tetra-CB Concentrations During WY1996 to WY2013



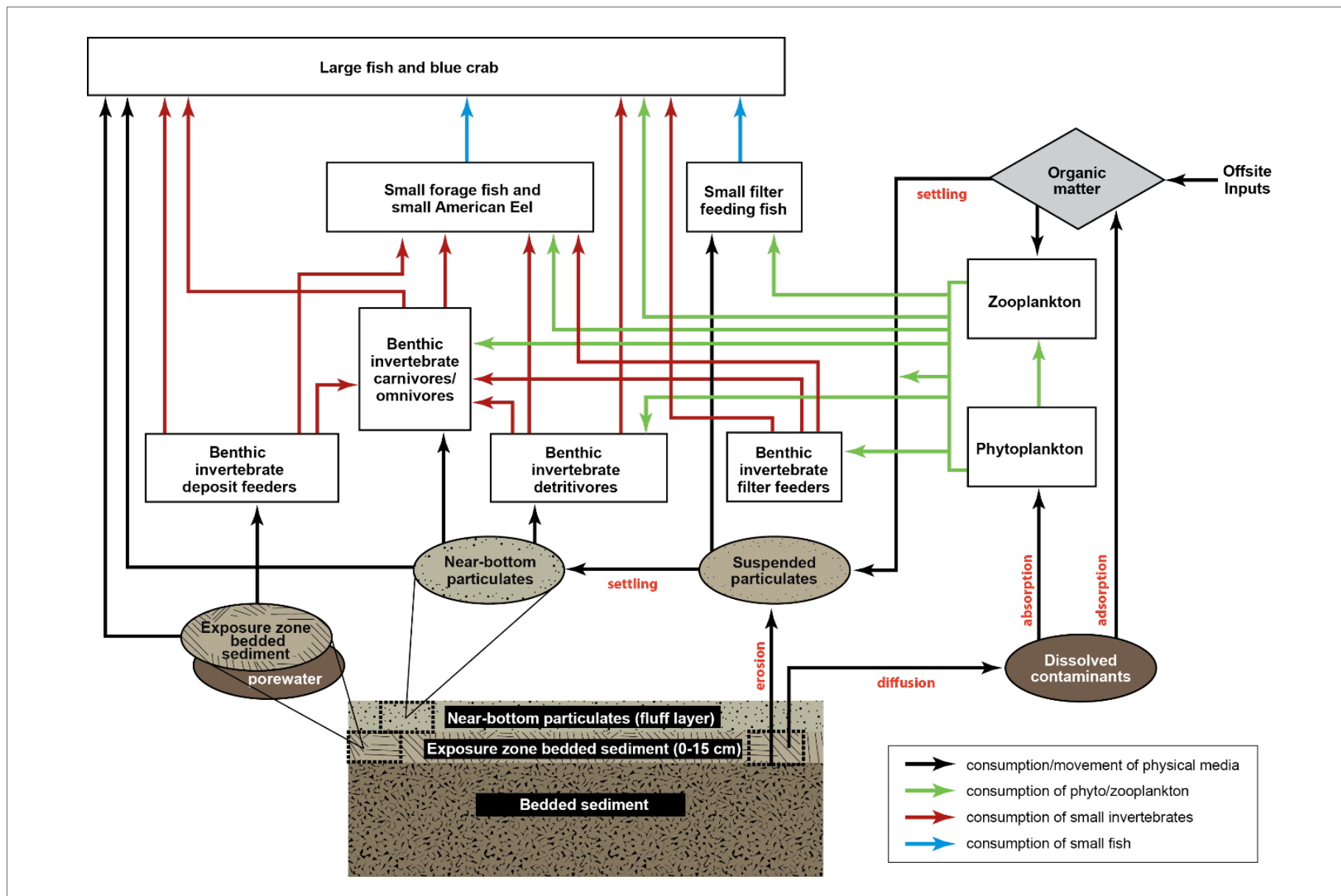
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Figure 7-24a
Predicted Bottom Water Column, Fluff Layer, and Surface Sediment 2,3,7,8-TCDD Concentrations During WY2011 to WY2013



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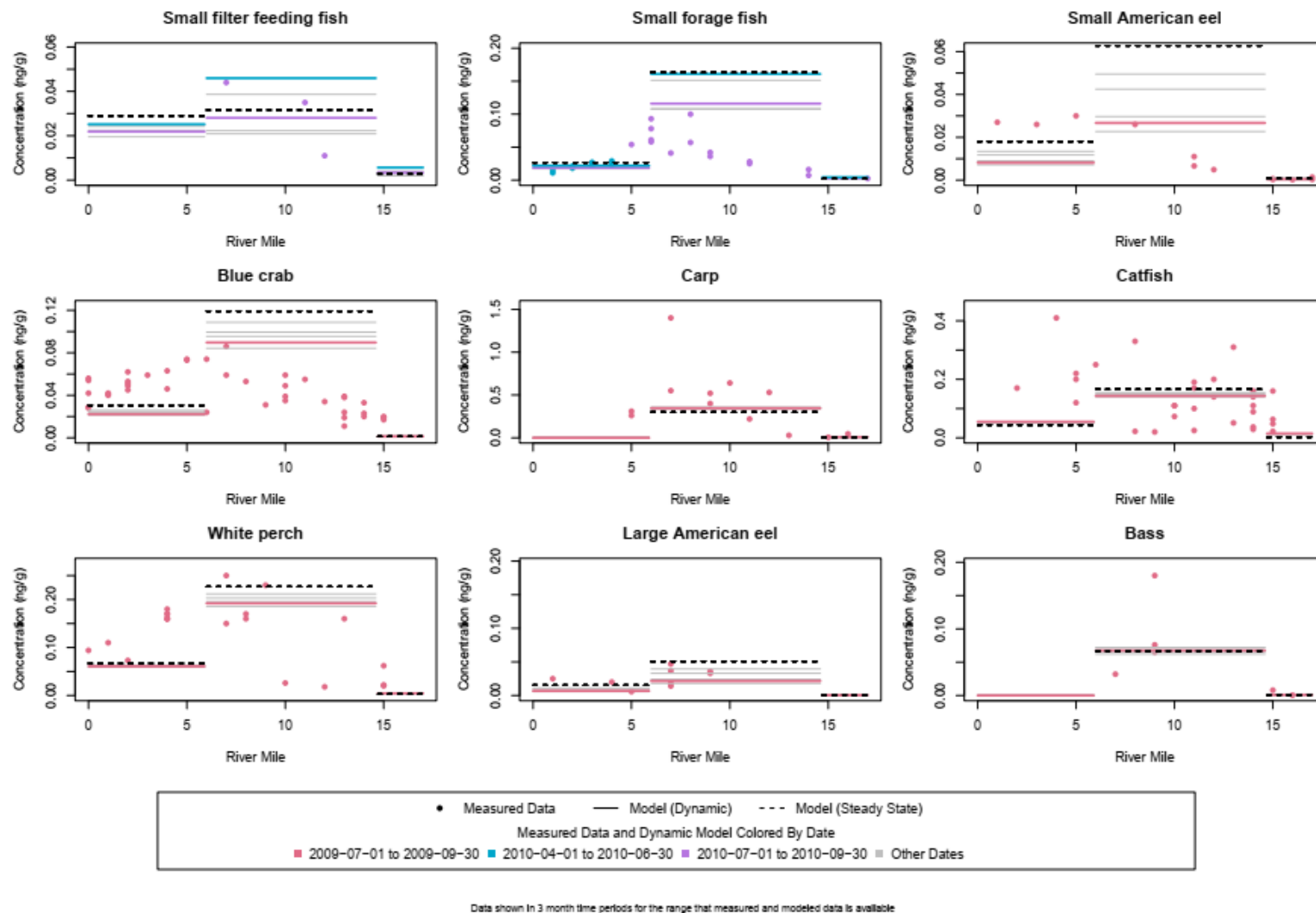
Figure 7-24b
Predicted Bottom Water Column, Fluff Layer, and Surface Sediment Tetra-CB Concentrations During WY2011 to WY2013



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Figure 7-25
LPRSA Trophic Structure

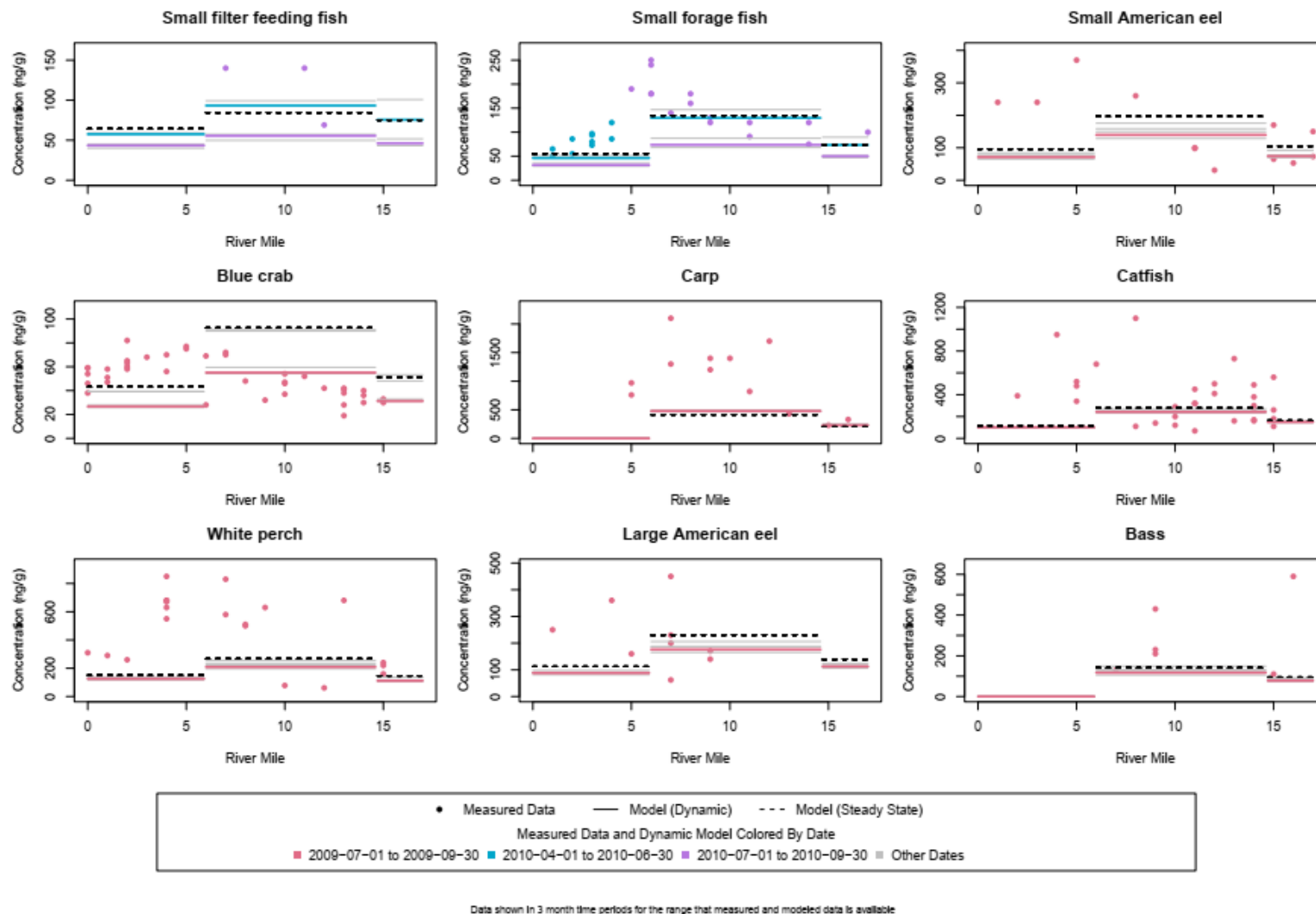
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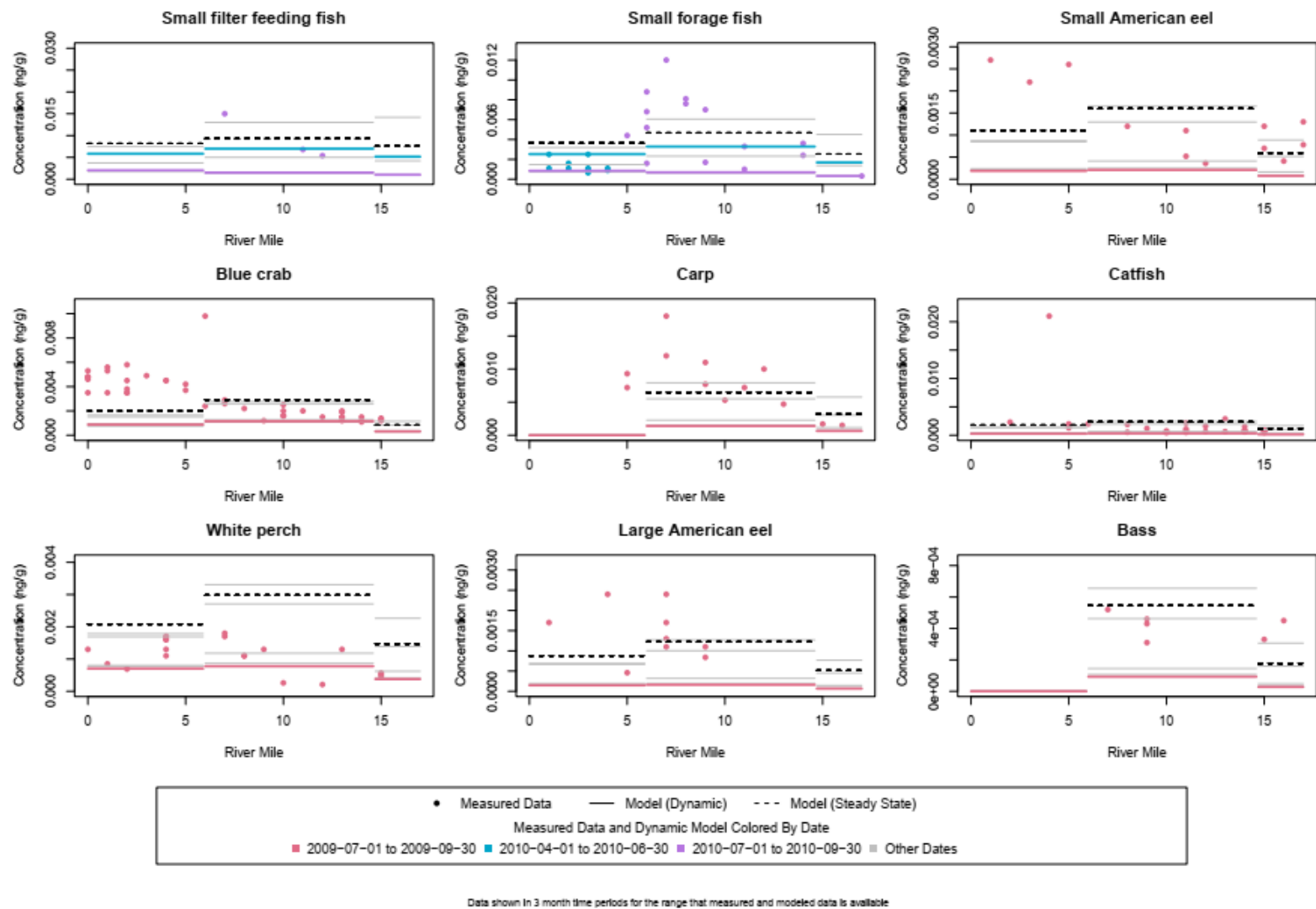
Figure 7-26
Calibrated Bioaccumulation Model Performance for 2,3,7,8-TCDD

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Figure 7-27
Calibrated Bioaccumulation Model Performance for Tetra-CB
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Figure 7-28
Calibrated Bioaccumulation Model Performance for 1,2,3,4,6,7,8-HpCDF

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