

How to Read the CFD Reference/Attainment Curve Graphs: Following the adopted CBP Reference Curve below (Fig. 1-E), Figures 2E-7E are graphs expressing time (vertical axis) and volume (horizontal axis) from 0-100% (the entire area of the graph). Where the Model Monthly Attainment Curve is below the Reference Curve, as in Figure 3-E, there is depicted a "non-allowable" exceedance of 0% (*i.e.*, the criterion is attained). Where the Attainment Curve is above the Reference Curve, there is depicted a certain percentage of "non-allowable" criteria exceedance. This percentage is calculated both for time (vertically) and volume (horizontally) as that area between the two curves taken as a fraction of the total time-volume expressed by the entire area of the graph (100% of time and volume). So, for example, in Figure 4-E, the area between the Reference Curve and the higher line of the Attainment Curve equals 5% of the entire time and space depicted, and is therefore considered to represent a criteria exceedance of 5%.

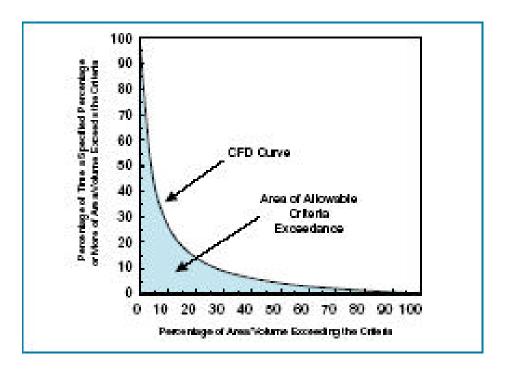


Figure E-1: CBP DO Criteria Reference Curve for Defining Criteria Attainment in the Migratory Fish Spawning and Nursery Use and Open Water Designated Use Habitats

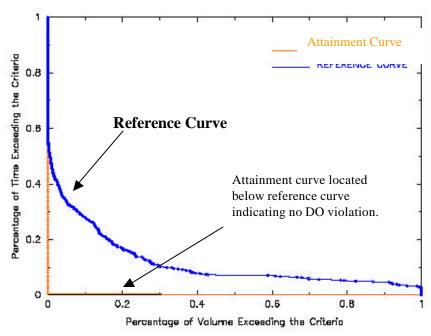


Figure E-2: Baseline Scenario DO Criteria Attainment Assessment for the Migratory Fish Spawning and Nursery Designated Use for the February 1st to May 31st period in the Upper Chester River

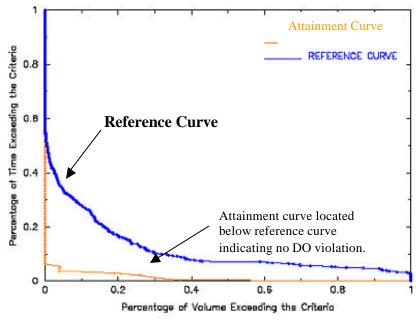


Figure E-3: Baseline Scenario DO Criteria Attainment Assessment for the Migratory Fish Spawning and Nursery Designated Use for the February 1st to May 31st period in the Middle Chester River

Upper and Middle Chester River TMDL for Nutrients Document version: January 27, 2006

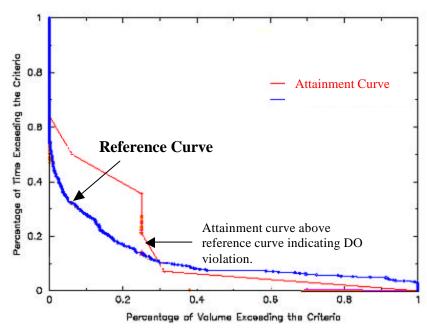


Figure E-4: Baseline Scenario DO Criteria Attainment Assessment for the Open Water Designated Use for June 1st to January 31st period in the Upper Chester River

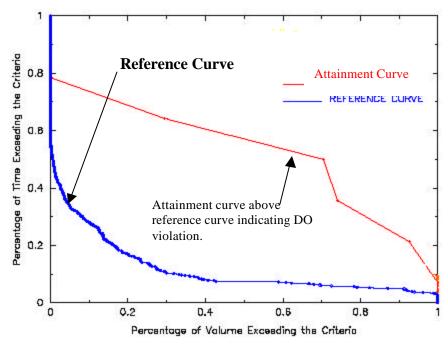


Figure E-5: Baseline Scenario DO Criteria Attainment Assessment for the Open Water Designated Use for June 1st to January 31st period in the Middle Chester River

Table E-1: Upper Chester River Chla Analysis Summary for Baseline Conditions Scenario

WQ Cells	Maximum value (based on 30- day rolling average)	Percent of time greater than 50 ug/l (based on 30-day rolling average)
40001	64.57	19%
40002	64.73	29%
40003	64.07	33%
40004	66.03	37%
40005	57.75	40%
40006	58.06	23%
40007	58.04	14%
40008	57.90	11%

Table E-2: Middle Chester River and Morgan Creek Chla Analysis Summary for Baseline Conditions Scenario

WQ Cells	Maximum value (based on 30-day rolling average)	Percent of time greater than 50 ug/l (based on 30-day rolling average)
40009	63.01	14%
40010	66.32	14%
*43010	84.13	33%
*42010	82.12	26%
*41010	74.45	19%
40011	63.87	13%
40012	56.94	6%
40013	<50.00	0%
40014	<50.00	0%
40015	<50.00	0%
40016	<50.00	0%
40017	<50.00	0%
40018	<50.00	0%
40019	<50.00	0%
40020	<50.00	0%

^{*} Morgan Creek Cells

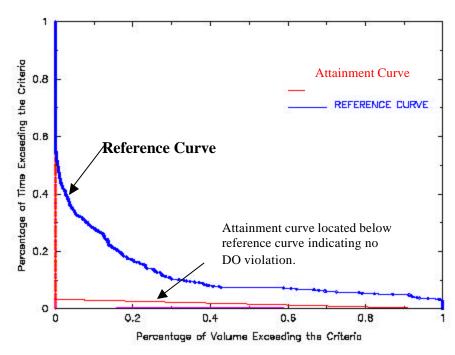


Figure E-6: TMDL Scenario DO Criteria Attainment Assessment for the Open Water Designated Use for the June 1st to January 31st period in the Upper Chester River.

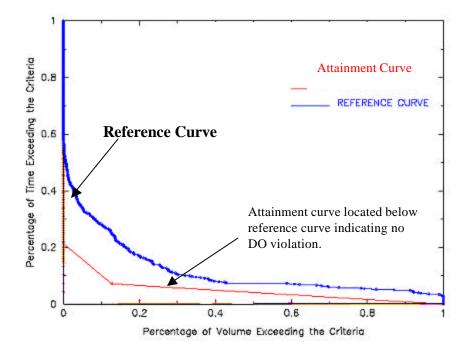


Figure E-7: TMDL Scenario DO Criteria Attainment Assessment for the Open Water Designated Use for the June 1st to January 31st period in the Middle Chester River

Table E-3: Upper Chester River Chla Analysis Summary for TMDL Conditions Scenario

WQ Cells	Maximum value (based on 30- day rolling average)	Percent of time greater than 50 ug/l (based on 30-day rolling average)
40001	56.62	13%
40002	55.74	8%
40003	53.24	6%
40004	51.72	4%
40005	<50.00	0%
40006	<50.00	0%
40007	<50.00	0%
40008	<50.00	0%

Table E-4: Middle Chester River and Morgan Creek Chla Analysis Summary for TMDL Scenario Conditions

WQ Cells	Maximum value (based on 30-day rolling average)	Percent of time greater than 50 ug/l (based on 30-day rolling average)
40009	<50.00	0%
40010	<50.00	0%
*43010	61.47	18%
*42010	60.97	15%
*41010	53.24	9%
40011	<50.00	0%
40012	<50.00	0%
40013	<50.00	0%
40014	<50.00	0%
40015	<50.00	0%
40016	<50.00	0%
40017	<50.00	0%
40018	<50.00	0%
40019	<50.00	0%
40020	<50.00	0%

^{*} Morgan Creek Cells