

**Sensitivity of STA Performance to Settling Rate & Target Concentration**  
**BMP Performance: 51% (1995-1997)**  
**Restudy Alternative: ALT-D13R**                      **Period: 1965-1995**

**Inflows + Bypasses**

	<b>Flow</b> <u>kac-ft/yr</u>	<b>Load</b> <u>mt/yr</u>	<b>Conc</b> <u>ppb</u>	<b>Fw</b> <u>%</u>	<b>P</b> <u>m/yr</u>	<b>E</b> <u>m/yr</u>
STA_1E	122.4	27.9	184	100.0%	1.50	1.14
STA_1W	178.5	35.7	162	99.8%	1.43	1.43
STA_2	214.6	27.4	103	100.0%	1.30	1.49
STA_3+4	724.9	66.9	75	100.0%	1.29	1.51
STA_5	159.9	40.8	206	100.0%	1.22	1.42
STA_6	26.3	3.1	96	98.2%	1.32	1.29
Total	1426.7	201.8	115			

**Sensitivity to Phosphorus Settling Rate**

	<b>STA Design</b>	<b>Low Est.</b>	<b>WCA-2A Water Col.</b>	<b>&lt;----- ENR Project -----&gt;</b>		<b>ECP</b>
<u>Ke (m/yr)</u>	<u>10.2</u>	<u>8.0</u>	<u>12.0</u>	<u>15.0</u>	<u>20.0</u>	

**Outflow Concentrations for ECP Treatment Areas (ppb)**

STA_1E	45	59	36	25	15	50
STA_1W	49	62	40	29	18	50
STA_2	40	49	35	27	18	50
STA_3+4	37	43	33	28	20	50
STA_5	90	108	78	61	42	50
STA_6	33	41	28	21	14	50
Total	46	55	40	31	21	50

**Treatment Areas (acres) to Achieve**

				<b>30</b>	<b>ppb</b>	
STA_1E	7038	9125	5929	4696	3488	5350
STA_1W	9594	12458	8076	6391	4743	6670
STA_2	8562	11163	7191	5677	4203	6430
STA_3+4	21739	28493	18208	14330	10576	16480
STA_5	9753	12639	8218	6511	4836	4118
STA_6	955	1226	808	644	481	870
Total	57640	75103	48431	38249	28326	39918

**Treatment Areas (acres) to Achieve**

				<b>20</b>	<b>ppb</b>	
STA_1E	8882	11636	7443	5862	4330	5350
STA_1W	12230	16031	10246	8068	5959	6670
STA_2	11579	15193	9695	7628	5628	6430
STA_3+4	31986	42200	26703	20942	15405	16480
STA_5	11977	15600	10067	7954	5893	4118
STA_6	1302	1677	1100	875	652	870
Total	77956	102337	65255	51328	37867	39918

**Treatment Areas (acres) to Achieve**

				<b>10</b>	<b>ppb</b>	
STA_1E	12762	17394	10504	8125	5906	5350
STA_1W	17735	24173	14603	11303	8223	6670
STA_2	17534	23645	14499	11266	8222	6430
STA_3+4	52056	70634	42906	33221	24161	16480
STA_5	16326	21715	13589	10632	7809	4118
STA_6	1974	2599	1652	1300	961	870
Total	118386	160160	97754	75847	55282	39918



