This document includes Appendix B, Mass Loadings, for the Draft "Hull Coating Leachate" Discharge Assessment Report published in August 2003. The reference number is: EPA-842-D-06-002

DRAFT
Discharge Assessment Report
Hull Coating Leachate

Appendix B: Mass Loadings

August 2003

APPENDIX B
MASS LOADINGS

Table B-1. Freshwater Mass Loadings for the Baseline Discharge from the Steel, Composite, and Other Non-Aluminum Rigid Hulls Vessel Group

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft^2)	Days in Port	Days Underway	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
ANB 63	63	100%	792	235	110	6.7E+00	2.7E-01	2.2E+00
ANB 64	64	100%	1,634	235	110	1.4E+01	5.6E-01	4.6E+00
AR 63	63	100%	792	300	40	5.7E+00	2.3E-01	1.9E+00
BARGE 120	120	100%	15,400	146	205	1.6E+02	6.4E+00	5.2E+01
BARGE 130	130	50%	33,000	146	205	3.4E+02	1.4E+01	1.1E+02
BARGE 90	90	50%	5,688	146	205	5.8E+01	2.4E+00	1.9E+01
BARGE 99	99	50%	8,004	146	205	8.2E+01	3.3E+00	2.7E+01
BUSL 49	49	100%	2,868	146	205	2.9E+01	1.2E+00	9.6E+00
BW 25	25	50%	124	155	60	6.4E-01	2.6E-02	2.1E-01
HS 24	24	50%	115	55	300	1.3E+00	5.1E-02	4.1E-01
IX 310	192	100%	11,698	325	30	8.5E+01	3.5E+00	2.8E+01
IX 531	102	100%	4,110	205	150	3.8E+01	1.6E+00	1.3E+01
LCM 6 (N)	56	100%	1,980	305	60	1.6E+01	6.4E-01	5.2E+00
LCM 8 (N)	74	100%	9,618	295	60	7.5E+01	3.1E+00	2.5E+01
LCPL 36	36	100%	1,290	305	60	1.0E+01	4.2E-01	3.4E+00
LCU 1610	135	100%	3,915	265	40	2.6E+01	1.0E+00	8.4E+00
ML 35	35	100%	243	205	60	1.5E+00	6.0E-02	4.9E-01
MLB 44	44	100%	2,310	305	30	1.6E+01	6.5E-01	5.3E+00
MW 26	26	50%	536	205	60	3.3E+00	1.3E-01	1.1E+00
NS 20	20	50%	80	305	60	1.7E-01	7.1E-03	5.7E-02
NS 25	25	50%	248	305	60	2.0E+00	8.1E-02	6.6E-01
NS 28	28	50%	156	305	60	1.2E+00	5.1E-02	4.1E-01
NS 32	32	50%	203	305	60	1.6E+00	6.6E-02	5.4E-01
NS 35	35	50%	243	305	60	1.9E+00	7.9E-02	6.4E-01
NS 36	36	50%	258	305	60	2.1E+00	8.4E-02	6.8E-01
NS 39	39	50%	302	305	60	2.4E+00	9.8E-02	8.0E-01
PE 26	26	50%	268	305	60	2.1E+00	8.7E-02	7.1E-01
PE 33	33	50%	216	305	60	1.7E+00	7.0E-02	5.7E-01
PE 40	40	50%	318	305	60	2.5E+00	1.0E-01	8.4E-01
PWB 21	21	50%	440	155	200	3.2E+00	1.3E-01	1.0E+00
SKI 14	14	100%	280	15	100	1.0E+00	4.1E-02	3.3E-01
TPSB 25	25	50%	496	245	100	4.1E+00	1.7E-01	1.4E+00
TR 21	21	50%	88	150	65	2.1E-01	8.5E-03	6.8E-02
U 22	22	100%	194	150	65	4.6E-01	1.9E-02	1.5E-01
UB 21	21	50%	88	195	150	4.8E-01	2.0E-02	1.6E-01
UB 22	22	50%	485	195	150	2.6E+00	1.1E-01	8.6E-01
UB 40	40	100%	318	195	150	2.9E+00	1.2E-01	9.6E-01
UTL 18	18	50%	65	195	150	3.5E-01	1.4E-02	1.2E-01
UTL 20	20	50%	80	195	150	4.4E-01	1.8E-02	1.4E-01
UTL 21	21	50%	176	195	150	9.6E-01	3.9E-02	3.1E-01
UTL 22	22	50%	97	195	150	5.3E-01	2.2E-02	1.7E-01

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft^2)	Days in Port	Days Underway	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
UTL 23	23	50%	420	195	150	2.3E+00	9.3E-02	7.4E-01
UTL 24	24	50%	115	195	150	6.3E-01	2.6E-02	2.0E-01
UTL 25	25	50%	124	195	150	1.1E+00	4.6E-02	3.7E-01
UTM 27	27	50%	145	195	150	1.3E+00	5.4E-02	4.4E-01
UTM 30	30	50%	358	195	150	3.3E+00	1.3E-01	1.1E+00
WB 24	24	50%	115	195	150	6.3E-01	2.6E-02	2.0E-01
WB 50	50	100%	1,494	195	150	1.4E+01	5.6E-01	4.5E+00
WB 74	74	100%	1,603	195	150	1.5E+01	6.0E-01	4.8E+00
WLB 180	180	50%	13,502	135	100	8.4E+01	3.4E+00	2.7E+01
WLB 225	225	100%	20,714	135	100	1.3E+02	5.2E+00	4.2E+01
WLI 100	100	100%	2,432	146	205	2.5E+01	1.0E+00	8.1E+00
WLIC 100	100	100%	2,432	146	205	2.5E+01	1.0E+00	8.1E+00
WLIC 75	75	100%	1,753	146	205	1.8E+01	7.3E-01	5.9E+00
WLM 175	175	100%	6,408	123	200	6.2E+01	2.5E+00	2.0E+01
WLR 65	65	50%	4,725	140	205	4.8E+01	1.9E+00	1.6E+01
WLR 75	75	50%	9,726	140	205	9.8E+01	4.0E+00	3.2E+01
YC 1273	100	100%	5,680	295	60	4.4E+01	1.8E+00	1.5E+01
YC 1366	110	100%	6,170	295	60	4.8E+01	2.0E+00	1.6E+01
YC 981	142	100%	8,228	295	60	6.4E+01	2.6E+00	2.1E+01
YCF 14	150	100%	6,572	305	60	5.3E+01	2.1E+00	1.7E+01
YFNX 22	110	100%	7,214	295	60	5.6E+01	2.3E+00	1.9E+01

Table B-2. Saltwater Mass Loadings for the Baseline Discharge from the Steel, Composite, and Other Non-Aluminum Rigid Hulls Vessel Group

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft2)	Days in Port	Days Underway	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
AC 1	50	100%	996	285	60	7.6E+00	3.1E-01	2.5E+00
AE 26	540	100%	54,240	245	20	2.9E+02	1.2E+01	9.7E+01
AFDL 1	200	100%	28,112	305	60	2.3E+02	9.1E+00	7.4E+01
AFDM 3	622	100%	95,290	305	60	7.6E+02	3.1E+01	2.5E+02
AGF 11	548	100%	46,594	183	4	1.7E+02	6.9E+00	5.6E+01
AGOR 14	220	100%	20,346	145	20	7.1E+01	2.9E+00	2.4E+01
AGOR 23	243	100%	41,880	145	20	1.5E+02	5.9E+00	4.8E+01
AGOR 26	172	100%	10,869	145	20	3.8E+01	1.5E+00	1.3E+01
AGSS 555	152	100%	9,130	305	60	7.3E+01	3.0E+00	2.4E+01
ANB 64	64	100%	817	235	100	6.6E+00	2.7E-01	2.2E+00
AOE 1	770	100%	383,016	114	2	8.6E+02	3.5E+01	2.9E+02
AOE 6 (MSC)	730	100%	94,141	186	4	3.5E+02	1.4E+01	1.2E+02
AOE 6 (Navy)	730	100%	282,423	186	4	1.0E+03	4.2E+01	3.5E+02
AP 27	27	50%	580	105	60	2.4E+00	9.9E-02	8.0E-01
APL 17	261	100%	55,107	355	0	3.7E+02	1.5E+01	1.2E+02
APL 2	261	100%	73,476	355	0	5.0E+02	2.0E+01	1.7E+02
APL 41	261	100%	36,738	355	0	2.5E+02	1.0E+01	8.3E+01
APL 53	261	100%	18,369	355	0	1.2E+02	5.1E+00	4.1E+01
APL 61	360	100%	75,600	355	0	5.1E+02	2.1E+01	1.7E+02

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft2)	Days in Port	Days Underway	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
APL 65	260	100%	41,920	355	0	2.8E+02	1.2E+01	9.4E+01
AR 40	40	100%	318	300	10	1.9E+00	7.9E-02	6.4E-01
AR 63	63	100%	792	300	10	4.8E+00	2.0E-01	1.6E+00
ARDM 4	492	100%	95,290	305	60	7.6E+02	3.1E+01	2.5E+02
ARS 50	240	100%	53,196	156	60	2.7E+02	1.1E+01	9.0E+01
AS 39	620	100%	116,672	235	60	7.8E+02	3.2E+01	2.6E+02
ASDV	135	100%	7,971	295	60	6.2E+01	2.5E+00	2.1E+01
BARGE 60	60	100%	1,680	146	205	1.7E+01	7.0E-01	5.6E+00
BARGE 68	68	100%	14,208	146	205	1.5E+02	5.9E+00	4.8E+01
BARGE 70	70	100%	2,300	146	205	2.4E+01	9.6E-01	7.7E+00
BARGE 84	84	100%	6,496	146	205	6.6E+01	2.7E+00	2.2E+01
BC	110	100%	12,264	335	0	7.9E+01	3.2E+00	2.6E+01
BC-7005	110	100%	8,176	335	0	5.2E+01	2.1E+00	1.7E+01
BD 115T	200	100%	62,652	335	0	4.0E+02	1.6E+01	1.3E+02
BG	120	100%	26,856	335	0	1.7E+02	7.0E+00	5.7E+01
BK	45	100%	7,788	335	0	5.0E+01	2.0E+00	1.7E+01
BU 45	45	100%	1,612	205	150	1.5E+01	6.1E-01	4.9E+00
BUSL 49	49	100%	10,516	146	205	1.1E+02	4.4E+00	3.5E+01
BW 22	22	50%	97	155	60	2.1E-01	8.6E-03	6.9E-02
BW 25	25	50%	124	155	60	6.4E-01	2.6E-02	2.1E-01
CC 38	38	50%	287	255	60	2.0E+00	8.2E-02	6.7E-01
CG 47	529	100%	970,416	166	4	3.2E+03	1.3E+02	1.1E+03
CT 60	60	100%	718	285	60	5.5E+00	2.2E-01	1.8E+00
CV 63	990	100%	141,470	147	3	4.1E+02	1.7E+01	1.4E+02
CV 67	990	100%	145,350	147	3	4.2E+02	1.7E+01	1.4E+02
CVN 65	1040	100%	156,990	147	3	4.6E+02	1.9E+01	1.5E+02
CVN 68	1040	100%	1,595,000	147	3	4.7E+03	1.9E+02	1.5E+03
DD 963	529	100%	695,898	178	4	2.5E+03	1.0E+02	8.2E+02
DDG 51	446	100%	1,705,593	109	63	7.4E+03	3.0E+02	2.4E+03
DS 22	22	50%	194	295	60	4.2E-01	1.7E-02	1.4E-01
DW 50	50	100%	3,984	305	60	3.2E+01	1.3E+00	1.1E+01
FFG 7	408	100%	755,766	168	4	2.5E+03	1.0E+02	8.4E+02
FR 22	22	50%	97	225	40	1.4E-01	5.7E-03	4.6E-02
HH 30	30	50%	179	285	60	1.4E+00	5.5E-02	4.5E-01
HL 29	29	50%	167	225	60	1.1E+00	4.4E-02	3.6E-01
HL 34	34	50%	690	225	60	4.5E+00	1.8E-01	1.5E+00
HL 36	36	50%	258	225	60	1.7E+00	6.8E-02	5.5E-01
HS 24	24	50%	2,415	55	300	2.6E+01	1.1E+00	8.6E+00
HSAC	40	50%	350	196	52	2.0E+00	8.0E-02	6.5E-01
IX 502	316	100%	26,048	355	0	1.8E+02	7.2E+00	5.9E+01
IX 508	135	100%	3,557	315	30	2.5E+01	1.0E+00	8.4E+00
IX 514	125	100%	7,076	265	60	5.1E+01	2.1E+00	1.7E+01
IX 516	303	100%	44,562	315	30	3.2E+02	1.3E+01	1.0E+02
IX 517	196	100%	8,394	335	30	6.3E+01	2.6E+00	2.1E+01
IX 520	260	100%	19,538	355	0	1.3E+02	5.4E+00	4.4E+01
IX 521	280	100%	28,880	305	60	2.3E+02	9.4E+00	7.6E+01
IX 522	256	100%	26,528	305	60	2.1E+02	8.6E+00	7.0E+01
IX 523	168	100%	10,576	245	100	8.8E+01	3.6E+00	2.9E+01
IX 524	256	100%	23,840	305	60	1.9E+02	7.8E+00	6.3E+01
IX 525	927	100%	258,606	305	60	2.1E+03	8.4E+01	6.8E+02
IX 527	110	100%	5,792	335	0	3.7E+01	1.5E+00	1.2E+01

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft2)	Days in Port	Days Underway	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
IX 528	150	100%	7,308	305	60	5.9E+01	2.4E+00	1.9E+01
IX 529	118	100%	12,124	335	30	9.1E+01	3.7E+00	3.0E+01
IX 530	110	100%	5,756	305	60	4.6E+01	1.9E+00	1.5E+01
J BOAT 27	27	100%	1,160	290	65	9.2E+00	3.7E-01	3.0E+00
J BOAT 46	46	100%	421	285	50	3.1E+00	1.2E-01	1.0E+00
LCC 19	580	100%	51,250	172	10	1.9E+02	7.6E+00	6.2E+01
LCM 6 (N)	56	100%	13,860	305	60	1.1E+02	4.5E+00	3.7E+01
LCM 8 (A)	74	100%	60,914	295	60	4.8E+02	1.9E+01	1.6E+02
LCM 8 (N) (MSC)	74	100%	48,090	295	60	3.8E+02	1.5E+01	1.2E+02
LCM 8 (N) (Navy)	74	100%	64,120	295	60	5.0E+02	2.0E+01	1.7E+02
LCPL 11	36	100%	2,580	305	60	2.1E+01	8.4E-01	6.8E+00
LCPL 36	36	100%	19,608	305	60	1.6E+02	6.4E+00	5.2E+01
LCU 1466	119	100%	4,415	275	40	3.0E+01	1.2E+00	9.8E+00
LCU 1610 (Army)	135	100%	3,915	265	40	2.6E+01	1.0E+00	8.4E+00
LCU 1610 (Navy)	135	100%	137,025	265	40	8.9E+02	3.6E+01	2.9E+02
LCU 2000	174	100%	192,734	265	30	1.2E+03	4.8E+01	3.9E+02
LHA 1	778	100%	349,860	166	10	1.2E+03	5.0E+01	4.1E+02
LHD 1	778	100%	619,143	180	10	2.4E+03	9.6E+01	7.8E+02
LHD 8	844	100%	88,965	180	10	3.4E+02	1.4E+01	1.1E+02
LPD 1	500	100%	123,078	172	10	4.5E+02	1.8E+01	1.5E+02
LPD 14	548	100%	93,776	172	10	3.4E+02	1.4E+01	1.1E+02
LPD 17	684	100%	777,456	172	10	2.8E+03	1.2E+02	9.4E+02
LPD 7	548	100%	240,295	172	10	8.8E+02	3.6E+01	2.9E+02
LSD 36	540	100%	130,218	216	4	5.6E+02	2.3E+01	1.8E+02
LSD 41	580	100%	290,100	170	5	1.0E+03	4.0E+01	3.3E+02
LSD 49	580	100%	195,088	190	54	1.1E+03	4.4E+01	3.6E+02
LST 1179	500	100%	34,650	178	4	1.2E+02	5.0E+00	4.1E+01
LSV	273	100%	157,230	120	30	5.3E+02	2.2E+01	1.8E+02
LT 100	107	100%	6,105	275	60	4.5E+01	1.8E+00	1.5E+01
LT 128	128	100%	49,280	215	60	3.1E+02	1.3E+01	1.0E+02
MC 27	27	50%	145	205	60	8.8E-01	3.6E-02	2.9E-01
MC 40	40	100%	318	205	60	1.9E+00	7.9E-02	6.4E-01
MCB 25	26	100%	134	135	200	1.3E+00	5.4E-02	4.3E-01
MCM 1	217	100%	67,280	233	9	3.2E+02	1.3E+01	1.1E+02
MCS 12	556	100%	49,945	86	3	8.8E+01	3.6E+00	2.9E+01
MHC 51	174	100%	77,016	242	123	7.0E+02	2.8E+01	2.3E+02
ML 40	40	100%	318	205	60	1.9E+00	7.9E-02	6.4E-01
MLB 44	44	100%	8,855	305	30	6.1E+01	2.5E+00	2.0E+01
MM 25	25	50%	372	85	60	1.4E+00	5.8E-02	4.6E-01
MSB 26	26	100%	2,814	305	30	1.9E+01	7.9E-01	6.4E+00
MW 26 (MSC)	26	50%	402	205	60	2.4E+00	1.0E-01	8.1E-01
MW 26 (Navy)	26	50%	1,876	205	60	1.1E+01	4.6E-01	3.8E+00
NR 1	137	100%	5,595	315	40	4.2E+01	1.7E+00	1.4E+01
NS 111	125	100%	2,813	285	60	2.1E+01	8.7E-01	7.1E+00
NS 143	143	100%	4,598	305	60	3.7E+01	1.5E+00	1.2E+01
NS 180	180	100%	15,004	305	60	1.2E+02	4.9E+00	4.0E+01
NS 20	20	50%	80	305	60	1.7E-01	7.1E-03	5.7E-02

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft2)	Days in Port	Days Underway	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
NS 21	21	50%	176	305	60	3.8E-01	1.6E-02	1.2E-01
NS 22	22	50%	776	305	60	1.7E+00	6.9E-02	5.5E-01
NS 23	23	50%	105	305	60	2.3E-01	9.3E-03	7.4E-02
NS 24	24	50%	115	305	60	2.5E-01	1.0E-02	8.1E-02
NS 25	25	50%	248	305	60	2.0E+00	8.1E-02	6.6E-01
NS 26	26	50%	268	305	60	2.1E+00	8.7E-02	7.1E-01
NS 27	27	50%	290	305	60	2.3E+00	9.4E-02	7.7E-01
NS 28	28	50%	468	305	60	3.7E+00	1.5E-01	1.2E+00
NS 30	30	50%	179	5	60	4.1E-01	1.7E-02	1.3E-01
NS 32	32	50%	406	305	60	3.3E+00	1.3E-01	1.1E+00
NS 33	33	50%	216	305	60	1.7E+00	7.0E-02	5.7E-01
NS 35	35	50%	243	305	60	1.9E+00	7.9E-02	6.4E-01
NS 36	36	50%	258	305	60	2.1E+00	8.4E-02	6.8E-01
NS 38	38	50%	287	305	60	2.3E+00	9.3E-02	7.6E-01
NS 39	39	50%	302	305	60	2.4E+00	9.8E-02	8.0E-01
NS 40	40	100%	1,272	305	60	1.0E+01	4.1E-01	3.4E+00
NS 41	41	100%	668	305	60	5.3E+00	2.2E-01	1.8E+00
NS 49	49	100%	478	5	60	1.1E+00	4.4E-02	3.5E-01
NS 53	53	100%	560	305	60	4.5E+00	1.8E-01	1.5E+00
NS 54	54	100%	1,162	305	60	9.3E+00	3.8E-01	3.1E+00
NS 55	55	100%	603	305	60	4.8E+00	2.0E-01	1.6E+00
NS 57	57	100%	648	305	60	5.2E+00	2.1E-01	1.7E+00
NS 95	95	100%	1,477	295	60	1.2E+01	4.7E-01	3.8E+00
PC 1	170	100%	48,152	95	6	9.8E+01	4.0E+00	3.2E+01
PE 10	33	50%	432	305	60	3.5E+00	1.4E-01	1.1E+00
PE 12	39	50%	906	305	60	7.3E+00	2.9E-01	2.4E+00
PE 22	22	50%	194	215	100	7.0E-01	2.9E-02	2.3E-01
PE 24	24	50%	115	215	100	4.2E-01	1.7E-02	1.4E-01
PE 26	26	50%	1,608	305	60	1.3E+01	5.2E-01	4.2E+00
PE 33	33	50%	2,376	305	60	1.9E+01	7.7E-01	6.3E+00
PE 40	40	50%	5,724	305	60	4.6E+01	1.9E+00	1.5E+01
PE 8	26	50%	1,876	305	60	1.5E+01	6.1E-01	5.0E+00
PR 40	40	100%	954	305	60	7.6E+00	3.1E-01	2.5E+00
PWB 19	19	50%	72	155	200	5.2E-01	2.1E-02	1.7E-01
PWB 21	21	50%	176	155	200	1.3E+00	5.2E-02	4.2E-01
PWB 22	22	50%	97	155	200	7.0E-01	2.9E-02	2.3E-01
PWB 23	23	50%	105	155	200	7.6E-01	3.1E-02	2.5E-01
PWB 27	27	50%	435	155	200	4.4E+00	1.8E-01	1.5E+00
PWB 32	33	50%	216	155	200	2.2E+00	9.0E-02	7.2E-01
Q-BOAT	65	100%	843	275	60	6.3E+00	2.5E-01	2.1E+00
QST 35	56	100%	16,875	196	52	9.5E+01	3.9E+00	3.1E+01
SB 10	10	100%	20	65	100	7.3E-02	3.0E-03	2.4E-02
SB 12	12	100%	810	65	100	2.9E+00	1.2E-01	9.6E-01
SB 14	14	100%	760	65	100	2.8E+00	1.1E-01	9.0E-01
SB 15	15	100%	46	65	100	1.7E-01	6.8E-03	5.4E-02
SB 16	16	100%	1,456	65	100	5.3E+00	2.2E-01	1.7E+00
SB 18	18	100%	520	65	100	1.9E+00	7.7E-02	6.1E-01
SB 22	22	100%	1,649	65	100	6.0E+00	2.4E-01	1.9E+00
SB 30	30	100%	537	65	100	2.6E+00	1.1E-01	8.6E-01
SB 40	40	100%	318	65	100	1.5E+00	6.3E-02	5.1E-01
SB 41	41	100%	334	65	100	1.6E+00	6.6E-02	5.3E-01

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft2)	Days in Port	Days Underway	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
SB 44	44	100%	3,080	65	100	1.5E+01	6.1E-01	4.9E+00
SC 22	22	50%	291	255	60	6.3E-01	2.6E-02	2.1E-01
SC 27	27	50%	435	305	60	3.5E+00	1.4E-01	1.1E+00
SC 65	65	100%	4,215	285	60	3.2E+01	1.3E+00	1.1E+01
SRB 30	30	100%	358	255	100	3.0E+00	1.2E-01	1.0E+00
SSBN 726	560	100%	1,252,800	183	2	4.5E+03	1.8E+02	1.5E+03
ST 44	44	100%	7,700	65	100	3.7E+01	1.5E+00	1.2E+01
ST 900	59	100%	15,024	285	60	1.1E+02	4.7E+00	3.8E+01
T-AE 26	564	100%	379,680	245	20	2.1E+03	8.3E+01	6.8E+02
T-AFS 1	581	100%	140,790	245	20	7.6E+02	3.1E+01	2.5E+02
T-AFS 8	524	100%	137,337	245	20	7.4E+02	3.0E+01	2.5E+02
T-AG 195	247	100%	59,126	145	20	2.1E+02	8.4E+00	6.8E+01
T-AGM 23	564	100%	47,791	275	40	3.2E+02	1.3E+01	1.1E+02
T-AGOS 1	224	100%	56,670	145	20	2.0E+02	8.0E+00	6.5E+01
T-AGOS 19	232	100%	53,360	145	20	1.9E+02	7.6E+00	6.2E+01
T-AGOS 23	282	100%	19,691	145	20	6.9E+01	2.8E+00	2.3E+01
T-AGS 45	442	100%	36,590	245	20	2.0E+02	8.0E+00	6.5E+01
T-AGS 51	208	100%	20,170	245	20	1.1E+02	4.4E+00	3.6E+01
T-AGS 60	329	100%	116,298	245	20	6.3E+02	2.6E+01	2.1E+02
T-AH 19	894	100%	247,724	315	20	1.7E+03	6.8E+01	5.5E+02
T-AKR 287	947	100%	893,200	295	20	5.7E+03	2.3E+02	1.9E+03
T-AKR 295	907	100%	428,112	295	20	2.7E+03	1.1E+02	9.0E+02
T-AKR 300	950	100%	830,158	295	20	5.3E+03	2.1E+02	1.7E+03
T-AKR 310	950	100%	955,168	295	20	6.1E+03	2.5E+02	2.0E+03
T-AO 187	677	100%	578,643	295	20	3.7E+03	1.5E+02	1.2E+03
T-ARC 7	503	100%	41,176	245	20	2.2E+02	9.0E+00	7.4E+01
T-ATF 166	226	100%	68,388	245	20	3.7E+02	1.5E+01	1.2E+02
TC 27	27	50%	145	305	60	1.2E+00	4.7E-02	3.8E-01
TC 28	28	50%	156	305	60	1.2E+00	5.1E-02	4.1E-01
TC 42	42	100%	351	215	100	2.7E+00	1.1E-01	8.9E-01
TC 43	43	100%	368	215	100	2.8E+00	1.2E-01	9.4E-01
TC 49	49	100%	478	215	100	3.7E+00	1.5E-01	1.2E+00
TPSB 25	25	50%	1,984	245	100	1.6E+01	6.7E-01	5.4E+00
TR 100	100	100%	5,862	305	5	3.5E+01	1.4E+00	1.2E+01
TR 120	120	100%	12,762	305	5	7.7E+01	3.1E+00	2.5E+01
TR 72	72	100%	3,105	295	5	1.8E+01	7.3E-01	6.0E+00
U 22	22	100%	291	150	65	6.9E-01	2.8E-02	2.2E-01
U 24	24	100%	115	290	65	2.7E-01	1.1E-02	8.8E-02
U 25	25	100%	124	290	65	9.8E-01	4.0E-02	3.2E-01
U 31	31	100%	191	290	65	1.5E+00	6.1E-02	5.0E-01
UB 10	33	50%	648	300	65	5.2E+00	2.1E-01	1.7E+00
UB 12	39	50%	604	195	150	5.5E+00	2.3E-01	1.8E+00
UB 15	49	100%	17,686	195	150	1.6E+02	6.6E+00	5.3E+01
UB 21	21	50%	176	195	150	9.6E-01	3.9E-02	3.1E-01
UB 22	22	50%	7,857	195	150	4.3E+01	1.7E+00	1.4E+01
UB 25	25	50%	868	195	150	8.0E+00	3.2E-01	2.6E+00
UB 27	27	50%	870	195	150	8.0E+00	3.2E-01	2.6E+00
UB 28	28	50%	156	195	150	1.4E+00	5.8E-02	4.7E-01
UB 32	32	50%	203	195	150	1.9E+00	7.6E-02	6.1E-01
UB 33	33	50%	648	195	150	5.9E+00	2.4E-01	1.9E+00

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft2)	Days in Port	Days Underway	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
UB 40 (MSC)	40	100%	318	195	150	2.9E+00	1.2E-01	9.6E-01
UB 40 (Navy)	40	100%	4,134	195	150	3.8E+01	1.5E+00	1.2E+01
UB 50	50	100%	11,952	195	150	1.1E+02	4.5E+00	3.6E+01
UTL 16	16	50%	0	195	150	0.0E+00	0.0E+00	0.0E+00
UTL 17	17	50%	58	195	150	3.2E-01	1.3E-02	1.0E-01
UTL 18	18	50%	195	195	150	1.1E+00	4.3E-02	3.5E-01
UTL 19	19	50%	72	195	150	3.9E-01	1.6E-02	1.3E-01
UTL 20	20	50%	0	195	150	0.0E+00	0.0E+00	0.0E+00
UTL 21	21	50%	528	195	150	2.9E+00	1.2E-01	9.3E-01
UTL 22	22	50%	485	195	150	2.6E+00	1.1E-01	8.6E-01
UTL 23	23	50%	1,155	195	150	6.3E+00	2.6E-01	2.0E+00
UTL 24	24	50%	460	195	150	2.5E+00	1.0E-01	8.1E-01
UTL 25	25	50%	496	195	150	4.5E+00	1.9E-01	1.5E+00
UTL 26	26	50%	134	195	150	1.2E+00	5.0E-02	4.0E-01
UTL 27	27	50%	725	195	150	6.6E+00	2.7E-01	2.2E+00
UTL 28	28	50%	156	195	150	1.4E+00	5.8E-02	4.7E-01
UTL 36	36	50%	0	195	150	0.0E+00	0.0E+00	0.0E+00
UTM 27	27	50%	435	195	150	4.0E+00	1.6E-01	1.3E+00
UTM 30	30	50%	0	195	150	0.0E+00	0.0E+00	0.0E+00
WB 110	110	100%	2,536	195	150	2.3E+01	9.5E-01	7.6E+00
WB 135	135	100%	7,671	275	60	5.7E+01	2.3E+00	1.9E+01
WB 15	49	100%	5,736	195	150	5.3E+01	2.1E+00	1.7E+01
WB 180	180	100%	7,534	215	150	7.2E+01	2.9E+00	2.4E+01
WB 20	20	50%	80	195	150	4.4E-01	1.8E-02	1.4E-01
WB 24	24	50%	3,220	195	150	1.8E+01	7.1E-01	5.7E+00
WB 25	25	50%	124	195	150	1.1E+00	4.6E-02	3.7E-01
WB 26	26	50%	134	195	150	1.2E+00	5.0E-02	4.0E-01
WB 27	27	50%	145	195	150	1.3E+00	5.4E-02	4.4E-01
WB 28	28	50%	156	195	150	1.4E+00	5.8E-02	4.7E-01
WB 30	30	50%	358	195	150	3.3E+00	1.3E-01	1.1E+00
WB 31	31	50%	191	195	150	1.8E+00	7.1E-02	5.7E-01
WB 34	34	50%	230	195	150	2.1E+00	8.6E-02	6.9E-01
WB 35	35	50%	2,430	195	150	2.2E+01	9.1E-01	7.3E+00
WB 41	41	100%	668	195	150	6.1E+00	2.5E-01	2.0E+00
WB 45	45	100%	2,015	195	150	1.8E+01	7.5E-01	6.1E+00
WB 50	50	100%	36,852	195	150	3.4E+02	1.4E+01	1.1E+02
WB 56	56	100%	625	195	150	5.7E+00	2.3E-01	1.9E+00
WB 74	74	100%	19,236	195	150	1.8E+02	7.2E+00	5.8E+01
WH 12	12	50%	30	55	60	6.5E-02	2.7E-03	2.1E-02
WH 16	16	100%	312	55	60	6.8E-01	2.8E-02	2.2E-01
WHEC 378	379	100%	208,068	116	26	6.6E+02	2.7E+01	2.2E+02
WIX 180	180	100%	6,751	135	100	4.2E+01	1.7E+00	1.4E+01
WIX 295	295	100%	12,264	196	36	6.2E+01	2.5E+00	2.0E+01
WLB 180	180	50%	20,253	135	100	1.3E+02	5.1E+00	4.1E+01
WLB 225	225	100%	144,998	135	100	9.0E+02	3.7E+01	3.0E+02
WLI 65 303	65	100%	1,037	146	205	1.1E+01	4.3E-01	3.5E+00
WLI 65 400	65	100%	2,284	146	205	2.3E+01	9.5E-01	7.6E+00
WLIC 100	100	100%	2,432	146	205	2.5E+01	1.0E+00	8.1E+00

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft2)	Days in Port	Days Underway	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
WLIC 160	160	100%	20,452	146	205	2.1E+02	8.5E+00	6.8E+01
WLIC 75	75	100%	14,024	146	205	1.4E+02	5.8E+00	4.7E+01
WLM 133	133	100%	4,648	149	150	3.9E+01	1.6E+00	1.3E+01
WLM 175	175	100%	83,304	123	200	8.0E+02	3.3E+01	2.6E+02
WMEC 210	210	100%	111,200	176	12	4.2E+02	1.7E+01	1.4E+02
WMEC 213	213	100%	8,337	176	12	3.2E+01	1.3E+00	1.0E+01
WMEC 230	230	100%	8,621	176	12	3.3E+01	1.3E+00	1.1E+01
WMEC 270	270	100%	142,688	176	12	5.4E+02	2.2E+01	1.8E+02
WMEC 282	282	100%	14,191	176	12	5.4E+01	2.2E+00	1.8E+01
WPB 110	110	100%	106,379	127	200	1.0E+03	4.2E+01	3.4E+02
WPB 82	83	100%	2,486	297	30	1.7E+01	6.8E-01	5.6E+00
WPB 87	87	100%	75,700	114	200	7.1E+02	2.9E+01	2.3E+02
WYTL 65	65	100%	12,996	38	300	1.5E+02	6.2E+00	4.9E+01
YC 1026	150	100%	17,320	295	60	1.4E+02	5.5E+00	4.5E+01
YC 1321	125	100%	12,316	295	60	9.6E+01	3.9E+00	3.2E+01
YC 1351	81	100%	3,051	295	60	2.4E+01	9.7E-01	7.9E+00
YC 1366	110	100%	30,850	295	60	2.4E+02	9.8E+00	8.0E+01
YC 1389	160	100%	11,536	295	60	9.0E+01	3.7E+00	3.0E+01
YC 1427	110	100%	18,132	295	60	1.4E+02	5.8E+00	4.7E+01
YC 1436	120	100%	6,408	295	60	5.0E+01	2.0E+00	1.7E+01
YC 1448	130	100%	11,640	295	60	9.1E+01	3.7E+00	3.0E+01
YC 1461	110	100%	11,584	295	60	9.1E+01	3.7E+00	3.0E+01
YC 1469	110	100%	127,424	295	60	1.0E+03	4.0E+01	3.3E+02
YC 1500	110	100%	24,680	295	60	1.9E+02	7.8E+00	6.4E+01
YC 1517	110	100%	208,512	295	60	1.6E+03	6.6E+01	5.4E+02
YC 1607	110	100%	203,736	295	60	1.6E+03	6.5E+01	5.3E+02
YC 161	110	100%	5,540	295	60	4.3E+01	1.8E+00	1.4E+01
YC 255	110	100%	98,720	295	60	7.7E+02	3.1E+01	2.5E+02
YC 688	110	100%	31,766	295	60	2.5E+02	1.0E+01	8.2E+01
YC 981	142	100%	8,228	295	60	6.4E+01	2.6E+00	2.1E+01
YCV 7	200	100%	51,720	305	60	4.1E+02	1.7E+01	1.4E+02
YD 113	140	100%	76,300	325	30	5.6E+02	2.3E+01	1.8E+02
YD 120	140	100%	30,636	325	30	2.2E+02	9.1E+00	7.4E+01
YD 150	198	100%	14,876	325	30	1.1E+02	4.4E+00	3.6E+01
YD 159	120	100%	9,360	325	30	6.8E+01	2.8E+00	2.3E+01
YD 210	142	100%	31,908	325	30	2.3E+02	9.5E+00	7.7E+01
YD 222	142	100%	9,986	325	30	7.3E+01	3.0E+00	2.4E+01
YD 223	140	100%	50,960	325	30	3.7E+02	1.5E+01	1.2E+02
YD 232	142	100%	31,908	325	30	2.3E+02	9.5E+00	7.7E+01
YD 243	140	100%	11,036	325	30	8.1E+01	3.3E+00	2.7E+01
YD 246	175	100%	145,125	325	30	1.1E+03	4.3E+01	3.5E+02
YD 247	175	100%	75,625	325	30	5.5E+02	2.2E+01	1.8E+02
YFN 1154	110	100%	18,510	295	60	1.4E+02	5.9E+00	4.8E+01
YFN 1172	110	100%	13,260	295	60	1.0E+02	4.2E+00	3.4E+01
YFN 1173	110	100%	28,780	295	60	2.2E+02	9.1E+00	7.4E+01
YFN 1196	110	100%	46,336	295	60	3.6E+02	1.5E+01	1.2E+02
YFN 1239	110	100%	11,584	295	60	9.1E+01	3.7E+00	3.0E+01
YFN 1254	110	100%	86,380	335	0	5.5E+02	2.2E+01	1.8E+02

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft2)	Days in Port	Days Underway	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
YFN 1277	110	100%	43,190	295	60	3.4E+02	1.4E+01	1.1E+02
YFN 161	110	100%	191,270	295	60	1.5E+03	6.1E+01	4.9E+02
YFNB 2	260	100%	108,144	295	60	8.5E+02	3.4E+01	2.8E+02
YFNB 47	152	100%	7,728	295	60	6.0E+01	2.5E+00	2.0E+01
YFND 5	110	100%	17,640	305	60	1.4E+02	5.7E+00	4.7E+01
YFNX 15	110	100%	5,468	295	60	4.3E+01	1.7E+00	1.4E+01
YFNX 20	110	100%	4,538	295	60	3.5E+01	1.4E+00	1.2E+01
YFNX 24	110	100%	5,792	295	60	4.5E+01	1.8E+00	1.5E+01
YFNX 30	110	100%	5,180	295	60	4.0E+01	1.6E+00	1.3E+01
YFNX 31	110	100%	5,346	295	60	4.2E+01	1.7E+00	1.4E+01
YFNX 35	153	100%	8,025	295	60	6.3E+01	2.5E+00	2.1E+01
YFNX 36	110	100%	5,918	295	60	4.6E+01	1.9E+00	1.5E+01
YFNX 39	110	100%	5,918	295	60	4.6E+01	1.9E+00	1.5E+01
YFNX 40	110	100%	5,792	295	60	4.5E+01	1.8E+00	1.5E+01
YFNX 42	110	100%	6,170	295	60	4.8E+01	2.0E+00	1.6E+01
YFNX 43	110	100%	6,076	295	60	4.7E+01	1.9E+00	1.6E+01
YFNX 44	127	100%	6,713	295	60	5.2E+01	2.1E+00	1.7E+01
YFU 71	125	100%	7,076	155	200	7.2E+01	2.9E+00	2.4E+01
YFU 91	115	100%	5,525	155	200	5.6E+01	2.3E+00	1.8E+01
YGN 80	124	100%	22,560	305	60	1.8E+02	7.3E+00	6.0E+01
YL 30	30	50%	179	65	100	8.7E-01	3.6E-02	2.9E-01
YLC 1	110	100%	5,224	325	30	3.8E+01	1.5E+00	1.3E+01
YLC 2	110	100%	4,088	325	30	3.0E+01	1.2E+00	9.9E+00
YMN 1	154	100%	6,330	305	60	5.1E+01	2.1E+00	1.7E+01
YNG 1	110	100%	9,784	305	60	7.8E+01	3.2E+00	2.6E+01
YOGN 106	165	100%	51,210	205	150	4.8E+02	2.0E+01	1.6E+02
YOGN 123	230	100%	14,012	205	150	1.3E+02	5.3E+00	4.3E+01
YOGN 8	165	100%	17,950	205	150	1.7E+02	6.8E+00	5.5E+01
YON 245	165	100%	177,840	205	150	1.7E+03	6.8E+01	5.5E+02
YON 307	184	100%	119,020	205	150	1.1E+03	4.5E+01	3.7E+02
YON 89	165	100%	26,925	205	150	2.5E+02	1.0E+01	8.3E+01
YOS 14	110	100%	6,332	200	145	5.7E+01	2.3E+00	1.9E+01
YOS 33	165	100%	26,925	200	145	2.4E+02	1.0E+01	8.0E+01
YOS 4	110	100%	6,332	200	145	5.7E+01	2.3E+00	1.9E+01
YP 654	81	100%	2,102	195	150	1.9E+01	7.8E-01	6.3E+00
YP 676	108	100%	46,641	205	150	4.4E+02	1.8E+01	1.4E+02
YPD 45	110	100%	6,044	330	30	4.5E+01	1.8E+00	1.5E+01
YR 24	150	100%	30,528	330	39	2.4E+02	9.6E+00	7.8E+01
YR 26	153	100%	38,880	280	30	2.5E+02	1.0E+01	8.3E+01
YR 83	111	100%	4,176	330	30	3.1E+01	1.3E+00	1.0E+01
YR 84	210	100%	14,700	330	30	1.1E+02	4.4E+00	3.6E+01
YR 92	110	100%	4,320	330	30	3.2E+01	1.3E+00	1.1E+01
YR 93	261	100%	18,090	330	30	1.3E+02	5.4E+00	4.4E+01
YR 94	261	100%	18,090	330	30	1.3E+02	5.4E+00	4.4E+01
YRB 25	110	100%	4,892	325	30	3.6E+01	1.4E+00	1.2E+01
YRB 29	124	100%	7,688	325	30	5.6E+01	2.3E+00	1.9E+01
YRB 30	261	100%	36,180	325	30	2.6E+02	1.1E+01	8.7E+01
YRB 31	150	100%	15,264	325	30	1.1E+02	4.5E+00	3.7E+01
YRB 32	153	100%	15,264	325	30	1.1E+02	4.5E+00	3.7E+01
YRB 33	150	100%	15,264	325	30	1.1E+02	4.5E+00	3.7E+01
YRBM 1	110	100%	4,604	325	30	3.4E+01	1.4E+00	1.1E+01

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft2)	Days in Port	Days Underway	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
YRBM 20	261	100%	18,090	325	30	1.3E+02	5.4E+00	4.4E+01
YRBM 23	146	100%	66,016	325	30	4.8E+02	2.0E+01	1.6E+02
YRBM 31	146	100%	132,032	325	30	9.6E+02	3.9E+01	3.2E+02
YRBM 48	150	100%	15,264	325	30	1.1E+02	4.5E+00	3.7E+01
YRBM 49	150	100%	15,264	325	30	1.1E+02	4.5E+00	3.7E+01
YRBM 5	112	100%	26,080	325	30	1.9E+02	7.7E+00	6.3E+01
YRBM 50	150	100%	18,304	325	30	1.3E+02	5.4E+00	4.4E+01
YRBM 51	153	100%	15,552	325	30	1.1E+02	4.6E+00	3.8E+01
YRBM 52	150	100%	15,264	325	30	1.1E+02	4.5E+00	3.7E+01
YRBM 53	150	100%	15,264	325	30	1.1E+02	4.5E+00	3.7E+01
YRDH 1	153	100%	7,611	305	60	6.1E+01	2.5E+00	2.0E+01
YRDM 1	153	100%	7,611	330	30	5.6E+01	2.3E+00	1.9E+01
YRR 11	151	100%	22,551	325	30	1.6E+02	6.7E+00	5.4E+01
YRR 2	153	100%	7,776	325	30	5.7E+01	2.3E+00	1.9E+01
YRR 5	150	100%	7,632	325	30	5.6E+01	2.3E+00	1.8E+01
YSD 11	104	100%	4,304	295	60	3.4E+01	1.4E+00	1.1E+01
YSR 30	110	100%	12,920	255	100	1.1E+02	4.5E+00	3.6E+01
YTB 760	109	100%	62,035	285	60	4.7E+02	1.9E+01	1.6E+02
YTL 422	66	100%	1,015	295	60	7.9E+00	3.2E-01	2.6E+00
YTT 9	186	100%	24,824	305	60	2.0E+02	8.1E+00	6.6E+01
YWN 60	165	100%	8,975	305	60	7.2E+01	2.9E+00	2.4E+01

Table B-3. Saltwater Mass Loadings for the Baseline Discharge from the Flexible Hulls Vessel Group

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft^2)	Days in Port	Days Underway Within 12 nm	Total Cu Released (lb/yr)	Total Fe Released (lb/yr)	Total Zn Released (lb/yr)
MCM 1	217	100%	8,410	233	9	3.8E+01	1.9E+00	1.5E+01
SSN 21	353	100%	139,200	183	2	4.7E+02	2.3E+01	1.9E+02
SSN 688	360	100%	1,922,700	183	2	6.5E+03	3.2E+02	2.6E+03
SSN 774	377	100%	153,200	183	2	5.2E+02	2.6E+01	2.1E+02

Table B-4. Freshwater Mass Loadings for the Baseline Discharge from the Aluminum Hulls Vessel Group

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft^2)	Days in Port	Days Underway	Total Sea-Nine Released (lb/yr)	Total Zn Released (lb/yr)
ANB(X) 34	34	50%	230	235	100	2.6E-01	1.2E+00
MLB 47	47	100%	6,160	305	30	1.0E+00	6.5E+01
TANB 21 CI	21	50%	352	245	100	1.2E-01	5.5E-01
TANB 21 SI IB	21	50%	264	245	100	8.8E-02	4.1E-01
UTB 41	41	100%	6,680	95	263	7.9E+00	7.5E+01
UTL 17	17	50%	232	195	150	1.2E-01	5.5E-01
UTL 18	18	50%	65	195	150	2.9E-02	1.4E-01
UTL 20	20	50%	80	195	150	4.0E-02	1.9E-01
UTL 21	21	50%	176	195	150	8.8E-02	4.1E-01
UTL 22	22	50%	97	195	150	4.8E-02	2.3E-01
UTL 23	23	50%	525	195	150	2.6E-01	1.2E+00
UTL 24	24	50%	115	195	150	5.7E-02	2.7E-01
UTL 25	25	50%	124	195	150	1.4E-01	6.7E-01
UTM 27	27	50%	145	195	150	1.7E-01	7.8E-01
UTM 28	28	50%	156	195	150	1.8E-01	8.4E-01
UTM 30	30	50%	358	195	150	4.1E-01	1.9E+00

Table B-5. Saltwater Mass Loadings for the Baseline Discharge from the Aluminum Hulls Vessel Group

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft^2)	Days in Port	Days Underway	Total Sea-Nine Released (lb/yr)	Total Zn Released (lb/yr)
ANB 55	58	100%	12,078	255	110	1.5E+01	1.4E+02
ANB(X) 34	34	100%	230	235	100	2.6E-01	2.4E+00
ANB(X) 38	38	100%	287	235	100	3.2E-01	3.0E+00
ATB 41	41	100%	1,002	255	100	1.2E+00	1.1E+01
BH 22	22	50%	97	255	60	1.9E-02	9.1E-02
FB	65	100%	843	275	30	8.5E-01	8.1E+00
IMARV 50	50	100%	498	255	100	5.9E-01	5.5E+00
MLB 47	47	100%	36,960	305	30	4.1E+01	3.9E+02
TANB 21 CI	21	50%	1,056	245	100	3.5E-01	1.7E+00
TANB 21 SI IB	21	50%	1,320	245	100	4.4E-01	2.1E+00
TANB 21 SI OB	21	50%	264	245	100	8.8E-02	4.1E-01
TANB 23	23	50%	105	245	100	3.5E-02	1.6E-01
TPSB 22	22	50%	194	245	100	6.4E-02	3.0E-01
UTB 41	41	100%	47,762	95	263	5.7E+01	5.4E+02

Vessel Class	Length (ft)	Coating Use	Class Wetted Surface Area (ft^2)	Days in Port	Days Underway	Total Sea-Nine Released (lb/yr)	Total Zn Released (lb/yr)
UTL 13	13	50%	35	95	263	3.1E-02	1.4E-01
UTL 15	15	50%	46	195	150	2.3E-02	1.1E-01
UTL 16	16	50%	52	195	150	2.6E-02	1.2E-01
UTL 17	17	50%	58	195	150	2.9E-02	1.4E-01
UTL 18	18	50%	195	195	150	9.7E-02	4.6E-01
UTL 19	19	50%	72	195	150	3.6E-02	1.7E-01
UTL 20	20	50%	80	195	150	4.0E-02	1.9E-01
UTL 21	21	50%	528	195	150	2.6E-01	1.2E+00
UTL 22	22	50%	485	195	150	2.4E-01	1.1E+00
UTL 23	23	50%	1,260	195	150	6.3E-01	3.0E+00
UTL 24	24	50%	460	195	150	2.3E-01	1.1E+00
UTL 25	25	50%	496	195	150	2.5E-01	1.2E+00
UTL 26	26	50%	134	195	150	1.5E-01	7.2E-01
UTL 27	27	50%	725	195	150	8.3E-01	3.9E+00
UTL 28	28	50%	156	195	150	1.8E-01	8.4E-01
UTL 36	36	50%	258	195	150	3.0E-01	1.4E+00
UTM 27	27	50%	435	195	150	5.0E-01	2.4E+00
UTM 30	30	50%	179	195	150	2.0E-01	9.7E-01