

Water Quality Based Permit Limit Procedure

Facility Name:	Cruise Ships
Permit Number:	0
Outfall Number:	1

Parameter Zinc ug/L

Ocean QBELS	
Receiving Water Type	ocean
Coefficient of Variation (Daily Maximum)	0.785
Coefficient of Variation (Monthly Average)	0.785
Significant Figures	2
Acute Dilution Factor	28
Chronic Dilution Factor	28
Human Health Dilution Factor	0
Acute Water Quality Criterion	90
Chronic Water Quality Criterion	81.000
Human Health Water Quality Criterion	0.000
Number of Effluent Samples Per Month	2

Maximum Daily Limit (MDL) 2300 ug/L

Average Monthly Limit (AML) 1300 ug/L

Fresh Water QBELS	
Receiving Water Type	fresh
Coefficient of Variation (Daily Maximum)	0.785
Coefficient of Variation (Monthly Average)	0.785
Significant Figures	2
Acute Water Quality Criterion	90
Acute Dilution Factor	28
Acute Wasteload Allocation	0
Chronic Water Quality Criterion	#####
Chronic Dilution Factor	28
Chronic Wasteload Allocation	0
Human Health Water Quality Criterion	0.000
Human Health Dilution Factor	0
Human Health Wasteload Allocation	0
Number of Effluent Samples Per Month	2

Maximum Daily Limit (MDL) 2500 ug/L

Average Monthly Limit (AML) 1300 ug/L

Ocean			
Acute Wasteload Allocation	WLA _a	2520	
Chronic Wasteload Allocation	WLA _c	2268	
Human Health Wasteload Allocation	WLA _h	0	
Acute Long Term Average	LTA _a	639.31947	1 hour
Chronic Long Term Average	LTA _c	1010.1364	4 day
Human Health Long Term Average	LTA _h	0	WLA _h =LTA _h =AML
Limiting Long Term Average	LTA _{LIM}	639.31947	

Fresh Water			
Acute Wasteload Allocation	WLA _a	2520	
Chronic Wasteload Allocation	WLA _c	2268	
Human Health Wasteload Allocation	WLA _h	0	
Acute Long Term Average	LTA _a	639.31947	1 hour
Chronic Long Term Average	LTA _c	1010.1364	4 day
Human Health Long Term Average	LTA _h	0	WLA _h =LTA _h =
Limiting Long Term Average	LTA _{LIM}	639.31947	

Significant Figures For LTA/MDL/AML	2520.000
	2270.000
	#NUM!
	639.000
	1010.000
	#NUM!

fresh ocean

0.785
0.785
0.785

Significant Figures For LTA/MDL/AML	2520.000
	2270.000
	#NUM!
	639.000
	1010.000
	#NUM!

		639.000
	2268	2270.000
	1311.119	1310.000
Logic for Ocean AML	1311.12 1513.333	1311.119
Logic for Human Health	1310.00 2268.00	1310.000 2270.000
Logic for Limiting LTA		639.3195 1010.136 *

0.785

		639.000
	2518.74	2520.000
	1310.46	1310.000
Logic for Human Health	1310.00 2520.00	1310.000 2520.000
Logic for Limiting LTA		639.3195 1010.136 *