

DRAFT

Parameter	Value	Comments
Upstream Concentration (mg/L)	0.0073	Lake Pend Oreille Euphotic Zone Target from MT/ID Border Nutrient Load Agreement
Criterion (mg/L)	0.01	Aggregate Ecoregional for Lakes
Upstream River Flow (CFS)	6640	30Q10 for June - Sep
Upstream River Flow (mgd)	4291	
Effluent Flow (mgd)	5	Design (5 mgd)
Effluent Flow (CFS)	7.736	Design
Mixing Zone	47.2%	
Dilution Factor	405.8	
Limits		
WLA (mg/L)	1.103	
WLA (lb/day)	46.0	
# of Samples per Month	8	
# of Samples per Week	2	
CV	0.354	
σ^2 (monthly)	0.0155	
σ (monthly)	0.1247	
σ^2 (weekly)	0.0608	
σ (weekly)	0.2465	
Probability Basis	0.99	
z	2.326	
AML:WLA Multiplier	1.326	
AWL:WLA Multiplier	1.721	
Average Monthly Limit (mg/L)	1.463	
Average Monthly Limit (lb/day)	61	Limits must be expressed in terms of mass (40 CFR 122.45(f)).
Average Weekly Limit (mg/L)	1.899	
Average Weekly Limit (lb/day)	79	

JUNE - SEP

DRAFT

Parameter	Value	Comments
Upstream Concentration (mg/L)	0.0073	Lake Pend Oreille Euphotic Zone Target from MT/ID Border Nutrient Load Agreement
Criterion (mg/L)	0.01	Aggregate Ecoregional for Lakes
Upstream River Flow (CFS)	6640	30Q10 for June - Sep
Upstream River Flow (mgd)	4291	
Effluent Flow (mgd)	5	Design (5 mgd)
Effluent Flow (CFS)	7.736	Design
Mixing Zone	25%	
Dilution Factor	216	
Limits		
WLA (mg/L)	0.589	
WLA (lb/day)	24.6	
# of Samples per Month	8	
# of Samples per Week	2	
CV	0.354	
σ^2 (monthly)	0.0155	
σ (monthly)	0.1247	
σ^2 (weekly)	0.0608	
σ (weekly)	0.2465	
Probability Basis	0.99	
z	2.326	
AML:WLA Multiplier	1.326	
AWL:WLA Multiplier	1.721	
Average Monthly Limit (mg/L)	0.78	
Average Monthly Limit (lb/day)	33	Limits must be expressed in terms of mass (40 CFR 122.45(f)).
Average Weekly Limit (mg/L)	1.01	
Average Weekly Limit (lb/day)	42	

JUNE - SEP 25%

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Parameter	Value	Comments
Upstream Concentration (mg/L)	0.0073	Lake Pend Oreille Euphotic Zone Target from MT/ID Border Nutrient Load Agreement
Criterion (mg/L)	0.01	Aggregate Ecoregional for Lakes
Upstream River Flow (CFS)	6640	30Q10 for June - Sep
Upstream River Flow (mgd)	4291	
Effluent Flow (mgd)	5	Design (5 mgd)
Effluent Flow (CFS)	7.736	Design
Mixing Zone	74%	
Dilution Factor	640	
Limits		
WLA (mg/L)	1.736	
WLA (lb/day)	72.4	
# of Samples per Month	8	
# of Samples per Week	2	
CV	0.354	
σ^2 (monthly)	0.0155	
σ (monthly)	0.1247	
σ^2 (weekly)	0.0608	
σ (weekly)	0.2465	
Probability Basis	0.99	
z	2.326	
AML:WLA Multiplier	1.326	
AWL:WLA Multiplier	1.721	
Average Monthly Limit (mg/L)	2.30	
Average Monthly Limit (lb/day)	96	Limits must be expressed in terms of mass (40 CFR 122.45(f)).
Average Weekly Limit (mg/L)	2.99	
Average Weekly Limit (lb/day)	125	

JUNE - SEP at 96 LB PER DAY

DRAFT

Parameter	Value	Comments
Upstream Concentration (mg/L)	0.0073	Lake Pend Oreille Euphotic Zone Target from MT/ID Border Nutrient Load Agreement
Criterion (mg/L)	0.01	Aggregate Ecoregional for Lakes
Upstream River Flow (CFS)	8260	30Q10 for Oct - May
Upstream River Flow (mgd)	5338	
Effluent Flow (mgd)	5	Design (5 mgd)
Effluent Flow (CFS)	7.736	Design
Mixing Zone	59.9%	
Dilution Factor	640.3	
Limits		
WLA (mg/L)	1.736	
WLA (lb/day)	72.4	
# of Samples per Month	8	
# of Samples per Week	2	
CV	0.354	
σ^2 (monthly)	0.0155	
σ (monthly)	0.1247	
σ^2 (weekly)	0.0608	
σ (weekly)	0.2465	
Probability Basis	0.99	
z	2.326	
AML:WLA Multiplier	1.326	
AWL:WLA Multiplier	1.721	
Average Monthly Limit (mg/L)	2.302	
Average Monthly Limit (lb/day)	96	Limits must be expressed in terms of mass (40 CFR 122.45(f)).
Average Weekly Limit (mg/L)	2.988	
Average Weekly Limit (lb/day)	125	

OCT - MAY

DRAFT

Parameter	Value	Comments
Upstream Concentration (mg/L)	0.0073	Lake Pend Oreille Euphotic Zone Target from MT/ID Border Nutrient Load Agreement
Criterion (mg/L)	0.01	Aggregate Ecoregional for Lakes
Upstream River Flow (CFS)	8260	30Q10 for Oct - May
Upstream River Flow (mgd)	5338	
Effluent Flow (mgd)	5	Design (5 mgd)
Effluent Flow (CFS)	7.736	Design
Mixing Zone	25%	
Dilution Factor	268	
Limits		
WLA (mg/L)	0.731	
WLA (lb/day)	30.5	
# of Samples per Month	8	
# of Samples per Week	2	
CV	0.354	
σ^2 (monthly)	0.0155	
σ (monthly)	0.1247	
σ^2 (weekly)	0.0608	
σ (weekly)	0.2465	
Probability Basis	0.99	
z	2.326	
AML:WLA Multiplier	1.326	
AWL:WLA Multiplier	1.721	
Average Monthly Limit (mg/L)	0.97	
Average Monthly Limit (lb/day)	40	Limits must be expressed in terms of mass (40 CFR 122.45(f)).
Average Weekly Limit (mg/L)	1.26	
Average Weekly Limit (lb/day)	52	

OCT - MAY 25%

DRAFT

Parameter	Value	Comments
Upstream Concentration (mg/L)	0.0073	Lake Pend Oreille Euphotic Zone Target from MT/ID Border Nutrient Load Agreement
Criterion (mg/L)	0.01	Aggregate Ecoregional for Lakes
Upstream River Flow (CFS)	6260	Annual 30Q10
Upstream River Flow (mgd)	4046	
Effluent Flow (mgd)	5	Design (5 mgd)
Effluent Flow (CFS)	7.736	Design
Mixing Zone	79%	
Dilution Factor	640	
Limits		
WLA (mg/L)	1.736	
WLA (lb/day)	72.4	
# of Samples per Month	8	
# of Samples per Week	2	
CV	0.354	
σ^2 (monthly)	0.0155	
σ (monthly)	0.1247	
σ^2 (weekly)	0.0608	
σ (weekly)	0.2465	
Probability Basis	0.99	
z	2.326	
AML:WLA Multiplier	1.326	
AWL:WLA Multiplier	1.721	
Average Monthly Limit (mg/L)	2.30	
Average Monthly Limit (lb/day)	96	Limits must be expressed in terms of mass (40 CFR 122.45(f)).
Average Weekly Limit (mg/L)	2.99	
Average Weekly Limit (lb/day)	125	

YEAR ROUND at 96 LB PER DAY

DRAFT

Parameter	Value	Comments
Upstream Concentration (mg/L)	0.0073	Lake Pend Oreille Euphotic Zone Target from MT/ID Border Nutrient Load Agreement
Criterion (mg/L)	0.01	Aggregate Ecoregional for Lakes
Upstream River Flow (CFS)	6260	Annual 30Q10
Upstream River Flow (mgd)	4046	
Effluent Flow (mgd)	5	Design (5 mgd)
Effluent Flow (CFS)	7.736	Design
Mixing Zone	25%	
Dilution Factor	203	
Limits		
WLA (mg/L)	0.556	
WLA (lb/day)	23.2	
# of Samples per Month	8	
# of Samples per Week	2	
CV	0.354	
σ^2 (monthly)	0.0155	
σ (monthly)	0.1247	
σ^2 (weekly)	0.0608	
σ (weekly)	0.2465	
Probability Basis	0.99	
z	2.326	
AML:WLA Multiplier	1.326	
AWL:WLA Multiplier	1.721	
Average Monthly Limit (mg/L)	0.74	
Average Monthly Limit (lb/day)	31	Limits must be expressed in terms of mass (40 CFR 122.45(f)).
Average Weekly Limit (mg/L)	0.96	
Average Weekly Limit (lb/day)	40	

YEAR ROUND 25%