

APPENDIX B: EMISSION SUMMARY TABLE

ESDM - Nalco Burlington
Emission Summary Table

Contaminant ¹	CAS	Total Emission Rate (g/s)	Averaging Period (hours)	Applicable POI Criteria ² (µg/m ³)	Limiting Effect	Regulation Schedule ²	Category ³	Modelling Method	Total POI Concentration ⁴ (µg/m ³)	% of Criteria
NOx	10102-44-0	2.66E-01	24	200	Health	Standard	B1	AERMOD	59.1	30%
	10102-44-0	2.66E-01	1	400	Health	Standard	B1	AERMOD	167.4	42%
PM	N/A	3.12E-02	24	120	Visibility	Standard	B1	AERMOD	5.2	4%
Acrylamide	79-06-1	3.2E-03	24	15	Health	Standard	B1	AERMOD	0.82	5%
Acrylic Acid	79-10-7	2.5E-03	24	12.0	Health	SL-PA	B2	AERMOD	0.6	5%
Naphthalene	91-20-3	1.0E-02	10-min	50	Odour	Guideline	B1	AERMOD	16.4	33%
Benzotriazole	95-14-7	2.1E-03	24	6	Health	SL-JSL	B2	AERMOD	0.51	9%
Diethylethanoline	100-37-8	3.3E-02	24	115	Health	SL-JSL	B2	AERMOD	11.8	10%
Cyclohexylamine	108-91-8	4.8E-02	24	48	Health	SL-PA	B2	AERMOD	15.8	33%
Morpholine (NAM:SYN)	110-91-8	1.5E-01	24	200	Health	SL-JSL	B2	AERMOD	55	28%
2-Butoxyethanol	111-76-2	1.0E-01	10-min	500	Odour	Guideline	B1	AERMOD	471.7	94%
1-Octanol	111-87-5	6.2E-02	24	135	Health	SL-JSL	B2	AERMOD	22.9	17%
1-Decanol	112-30-1	3.5E-02	24	75	Health	SL-JSL	B2	AERMOD	12.8	17%
Dimethylaminoethyl Acrylate	2439-35-2	1.7E-04	24	0.1	N/A	de-minimus	N/A	AERMOD	0.04	41%
Diethyl-Hydroxyl-Amine	3710-84-7	5.5E-02	24	87	Health	SL-JSL	B2	AERMOD	20.3	23%
Methoxypropylamine	5332-73-0	9.3E-02	24	99	Health	SL-PA	B2	AERMOD	31.7	32%
Hydrochloric acid	7647-01-0	3.6E-02	24	20	Health	Standard	B1	AERMOD	15.4	77%
Phosphoric Acid	7664-38-2	1.5E-02	24	7	Health	Standard	B1	AERMOD	3.6	51%
White Mineral Oil	8042-47-5	3.8E-02	24	120	Health & Particulate	SL-MD	B2	AERMOD	10.5	9%
Hydroxyphosphonoacetic Acid	23783-26-8	1.3E-03	24	3	Health	SL-PA	B2	AERMOD	0.5	17%
2-Phosphono-1,2,4-Butanetricarboxylic Ac	37971-36-1	6.0E-02	24	112	Health	SL-PA	B2	AERMOD	14.2	13%
Ethoxylated N-Tallow Alkyl-1,3-Propylenediamine	61790-85-0	3.3E-02	24	70	Health	SL-PA	B2	AERMOD	12.3	18%
Straight Run Middle Distillate	64741-44-2	2.6E-01	24	120	Health & Particulate	SL-MD	B2	AERMOD	94	78%
Severely Hydrotreated Heavy Naphthenic Distillate	64742-52-5	1.3E-01	24	120	Health & Particulate	SL-MD	B2	AERMOD	30.5	25%
Hydroxyethylidenediphosphonic Acid	2809-21-4	5.7E-03	24	15	Health & Particulate	SL-JSL	B2	AERMOD	1.4	9%
Hexavalent chromium	18540-29-9	1.1E-07	Annual	0.00014	Health	Standard	B1	AERMOD	0.00012	86%
N-Tallow Alkyl-1,3-Propylenediamine	61791-55-7	1.9E-02	24	20	Health	SL-JSL	B2	AERMOD	8.7	44%
Butanol	71-36-3	3.5E-01	10-minute	2100	Odour	Guideline	B1	AERMOD	1079.4	51%

Notes:

1. Contaminants that passed the Tier 1 assessment are considered insignificant and not listed in this table.

2. The MECP Schedule 3 limits and screening levels in "Air Contaminants Benchmarks (ACB) List: Standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants" and concentrations previously reviewed and approved by the MECP during the ECA review were used for the assessment criteria. If there are no related MECP standards for contaminants, a de-minimus evaluation approach was used to assess the significance of these contaminants. Based on Table B-2A in Appendix B of the MECP ESDM Procedure Document, a substance that does not have a MECP POI limit and is not listed in Table B-2B, it can be considered insignificant if its predicted impact is below 0.1 µg/m³ (for a 24-hour average period).

SL-JSL: Jurisdictional Screening Levels

SL-MD: Ministry-derived (MD) Screening Levels

SL-PA: Previously Accepted (PA) Screening Levels

3. Benchmark 1 (B1) values and Benchmark 2 (B2)

4. AERMOD results are predicted maximum off-property ground level concentrations after removal of anomalies.