ASB LOQAM Chapter 7 Appendix 3 Volatile Organics (VOAs) Target Analyte List Minimum Quantitation Limits by Matrices Revised 01/13/03				
	Water[1] µg/L (ppb)	**Soil/Sed[2] µg/kg (ppb)**	**Waste[3] mg/kg (ppm)**	**Air[4] µg/m^3**
ANALYTE	**Routine Level**	**Routine Level (Encore® or Tared Vial)**	**Routine Level**	**Routine Level**
acetone	25	25	25	0.6
acrylonitrile	NA	NA	NA	0.4
benzene	1	1	2	0.6
bromobenzene	1	1	2	1.4
bromochloromethane	1	1	2	1
bromodichloromethane	1	1	2	1.4
bromoform	1	1	2	6.4
bromomethane	1	1	2	0.8
1,3-butadiene	NA	NA	NA	0.4
butyl acrylate	NA	NA	NA	5
n-butylbenzene	1	1	2	1.2
sec-butylbenzene	1	1	2	1.2
tert-butylbenzene	1	1	2	1.2
carbon tetrachloride	1	1	2	1.2
chlorodifluoromethane(R22)	NA	NA	NA	0.6
carbon disulfide	2.5	1	5	0.6
chlorobenzene	1	1	2	1
chloroethane	1	1	2	0.6
chloroform	1	1	2	1
chloromethane	1	1	2	0.4

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ANALYTE	**Routine Level**	**Routine Level (Encore® or Tared Vial)**	**Routine Level**	**Routine Level**
2-chloro-1,3-butadiene (chloroprene)	NA	NA	NA	0.8
o-chlorotoluene	1	1	2	1
p-chlorotoluene	1	1	2	1
cyclohexane	1	1	2	0.8
dibromochloromethane	1	1	2	1.8
1,2-dibromo-3-chloropropane	1	1	2	2
1,2-dibromoethane	1	1	2	1.6
dibromomethane	1	1	2	1.4
1,2-dichlorobenzene	1	1	2	1.2
1,3-dichlorobenzene	1	1	2	1.2
1,4-dichlorobenzene	1	1	2	1.2
dichlorodifluoromethane(R12)	1	1	2	1
1,1-dichloroethene	1	1	2	0.8
cis-1,2-dichloroethene	1	1	2	0.8
trans-1,2-dichloroethene	1	1	2	0.8
1,1-dichloroethane	1	1	2	0.8
1,2-dichloroethane	1	1	2	0.8
1,2-dichloropropane	1	1	2	1
1,3-dichloropropane	1	1	2	1
2,2-dichloropropane	1	1	2	1

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ANALYTE	**Routine Level**	**Routine Level (Encore® or Tared Vial)**	**Routine Level**	**Routine Level**
1,1-dichloropropene	1	1	2	1
cis-1,3-dichloropropene	1	1	2	1
dichlorotetrafluoroethane(R114)	NA	NA	NA	1.4
trans-1,3-dichloropropene	1	5	2	1
ethyl acrylate	NA	NA	NA	0.8
ethyl benzene		1	1	2 1
hexachlorobutadiene	1	1	2	2.2
hexane	NA	NA	NA	0.8
isopropylbenzene	1	1	2	1
p-isopropyltoluene	1	1	2	1.2
methyl acetate	5	1	10	0.6
methyl cyclohexane	1	1	2	0.8
methyl methacrylate	NA	NA	NA	0.8
methylene chloride	1	1	10	0.6
methyl butyl ketone	2.5	2.5	5	0.8
methyl ethyl ketone	12	2.5	25	0.6
methyl isobutyl ketone	2.5	2.5	5	0.8
methyl-t-butyl ether	1	1	2	0.8
naphthalene [5]	1	1	2	1.2
n-propylbenzene	1	1	2	1

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ANALYTE	**Routine Level**	**Routine Level (Encore® or Tared Vial)**	**Routine Level**	**Routine Level**
1,1,1,2-tetrachloroethane	1	1	2	1.4
1,1,2,2-tetrachloroethane	1	1	2	1.4
tetrachloroethene	1	1	2	1.4
toluene	1	1	2	0.8
1,2,3-trichlorobenzene	1	1	2	1.6
1,2,4-trichlorobenzene	1	1	2	1.4
1,1,1-trichloroethane	1	1	2	1
1,1,2-trichloroethane	1	1	2	1.2
trichloroethene	1	1	2	1
trichlorofluoromethane(R11)	1	1	2	1.2
1,2,3-trichloropropane	1	1	2	1.2
trichlorotrifluoroethane(R113)	1	1	2	1.6
1,2,4-trimethylbenzene	1	1	2	1
1,3,5-trimethylbenzene	1	1	2	1
styrene	1	1	2	0.8
o-xylene	1	1	2	1
(m- and/or p-)xylene	2	2	4	2.6
vinyl chloride	1	1	2	0.6

ASB LOQAM Chapter 7 Appendix 3
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	Water[1] µg/L (ppb)	Soil/Sed[2] µg/kg (ppb)	Waste[3] mg/kg (ppm)	Air[4] µg/m^3
ANALYTE	**Routine Level**	**Routine Level (Encore® or Tared Vial)**	**Routine Level**	**Routine Level**

MQLs may increase due to variability of interferences that make dilutions of sample necessary. Sample sizes required for achieving the routine quantitation limits listed above:

1 - Water- 5 mL from septum sealed vial.

2 - Routine Level Soil - 5 gram sample preserved with water or acid (dry weight basis, % moisture will increase MQLs).

3 - Waste-1 gram sample dissolved in 5 mL methanol.

4 - Air- 500 cc from 6 L passivated canister

5 - Naphthalene not routinely reported by VOC analysis but available upon request

Note: Fish and Biological Tissue samples are not normally analyzed for VOCs.