Vent Measurements: 19th April 2011

Mass Emission is calculated from Ideal Gas Law

mass emission mg/min = ppm x flow rate x molecular weight x P /RT

n= PV/RT

V = measured flow rate (m3/min)	
P = 101325 Pa (760 mm Mercury)	**101325**
T = 293 K	**293**
R = molar gas constant 8.314 (m3Pa/mol K)	**8.314**
Molecular weight for solvent = 90	**90**
R x T	**2436.002**
P/RxT	**41.595**

		Solvent Tank to Mixer	**Homogenisation Tank to Tank**	**Mixer to Buk Tank**
		ST1 to SS	**BT4 to BT1**	**SS to BT7**
Mean ppm	**ppm**	**0.00**	**7.10**	**45.31**
Flow Volume	**m3/min**	**3.20**	**3.20**	**3.20**
Emission rate	**gm/min**	0.00000	0.08518	0.54364
Emission Rate MR	**kg/min**	0.00000	0.00009	0.00054
Prebalanced Rate (PBR)	**kg/min**	0.18000	0.18000	0.04400
MR/PBR		0.00000	0.00047	0.01236
Efficiency 1-MR/PBR		1.00000	0.99953	0.98764
EFFICIENCY PERCENT	**%**	**100.000**	**99.953**	**98.764**

Vent Measurements: 07 October 2011

Mass Emission is calculated from Ideal Gas Law

mass emission mg/min = ppm x flow rate x molecular weight x P /RT

n= PV/RT

V = measured flow rate (m3/min)	
P = 101325 Pa (760 mm Mercury)	**101325**
T = 293 K	**293**
R = molar gas constant 8.314 (m3Pa/mol K)	**8.314**
Molecular weight for solvent = 90	**90**
R x T	**2436.002**
P/RxT	**41.595**

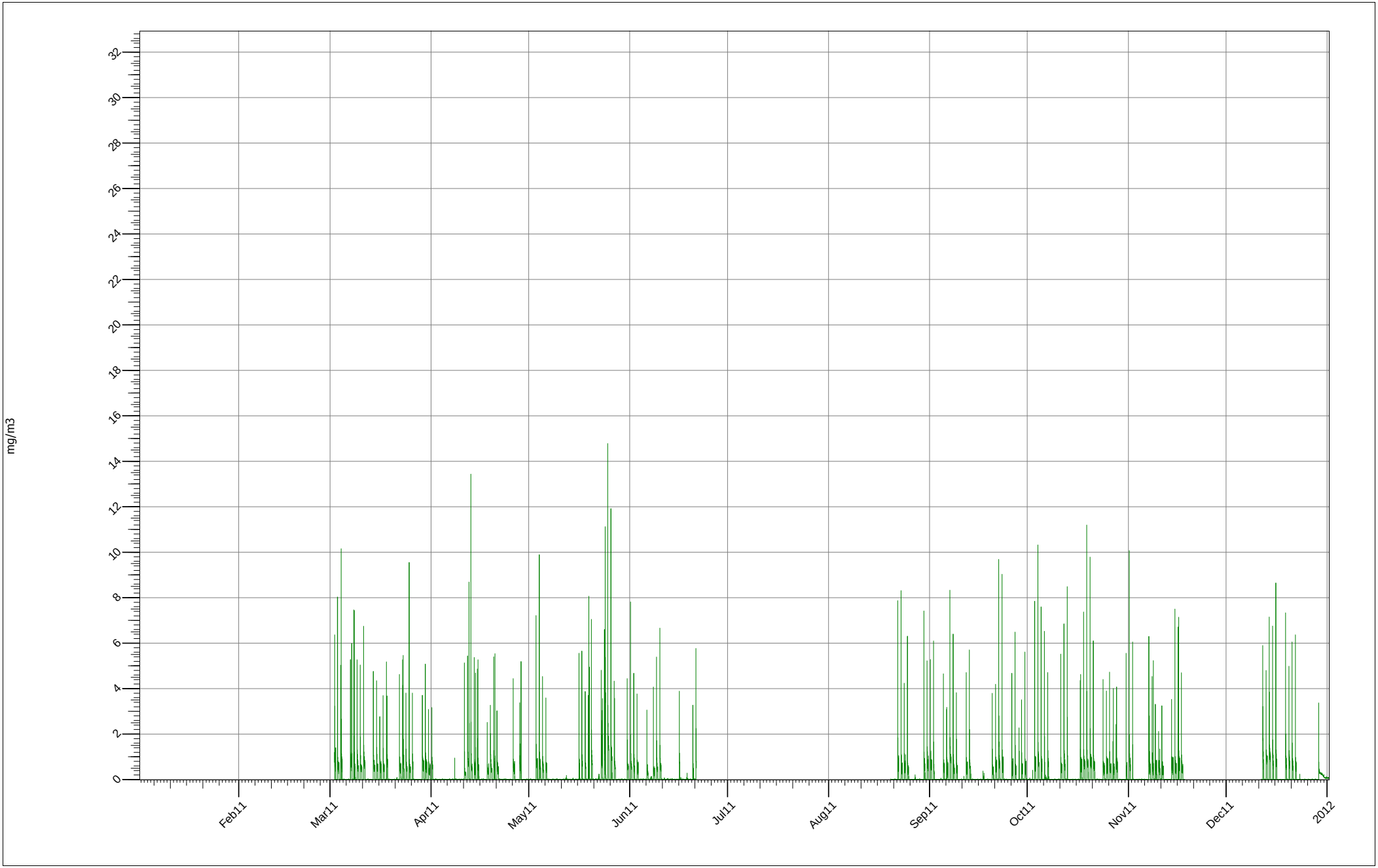
		Solvent Tank to Mixer	**Homogenisation Tank to Tank**	**Mixer to Buk Tank**
		ST1 to SS	**BT4 to BT1**	**SS to BT7**
Mean ppm	**ppm**	**0.00**	**30.99**	**1.59**
Flow Volume	**m3/min**	**3.20**	**3.20**	**3.20**
Emission rate	**gm/min**	0.00000	0.37176	0.01904
Emission Rate MR	**kg/min**	0.00000	0.00037	0.00002
Prebalanced Rate (PBR)	**kg/min**	0.18000	0.18000	0.04400
MR/PBR		0.00000	0.00207	0.00043
Efficiency 1-MR/PBR		1.00000	0.99793	0.99957
EFFICIENCY PERCENT	**%**	**100.000**	**99.793**	**99.957**

Emission Report

Company:DAREX UK LTD ContactGLENN DRAPER

From:01 Jan 11 15:15:00 To:01 Jan 12 15:15:00

Device 0 : --- Channel 2 Cal Factor: 7.22 (constant) Average:0.195 Averaging Period:10 mins Maximum:14.79



Emission Report

Company:DAREX UK LTD ContactGLENN DRAPER

From:01 Jan 11 15:15:00 To:01 Jan 12 13:30:00

Device 0 : --- Channel 1 Cal Factor: 0.36 (constant) Average:0.099 Averaging Period:10 mins Maximum:2.240