APPENDIX C

VOC Emissions Data – Truck Loading

C1. VOC Emission Rate Calculations / Data Sheets

C2. Tank Displacement Rate Calculations / Truck Loading Logs

C1. VOC Emission Rate Calculations / Data Sheets

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 8:08 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 8:24 AM
Truck No. :	1	**Load Time (hours):**	0.22

Average Concentration:		4,050 ppmvw
Average Flow Rate:		72 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**7423.03** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**210.22** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**4.63E-04** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.00** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.075** lb/hr
NMHC lb/hr =			**1.93** lb/hr
NMHC lb/load =			**0.42** lb/load
NMHC ton/load			**2.09E-04** ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 9:09 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 9:20 AM
Truck No. :	2	**Load Time (hours):**	0.18

Average Concentration:		4,758 ppmvw
Average Flow Rate:		91 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**8720.04**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**246.96**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.44E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.98**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.092**	lb/hr
NMHC lb/hr =			**2.89**	lb/hr
NMHC lb/load =			**0.53**	lb/load
NMHC ton/load			**2.65E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	10:13 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	10:24 AM
Truck No. :	3	**Load Time (hours):**	0.18	

Average Concentration:		4,406 ppmvw
Average Flow Rate:		91 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**8076.25**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**228.72**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.04E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.76**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.086**	lb/hr
NMHC lb/hr =			**2.67**	lb/hr
NMHC lb/load =			**0.49**	lb/load
NMHC ton/load			**2.45E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	11:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	12:02 AM
Truck No. :	4	**Load Time (hours):**	0.19	

Average Concentration:		4,137 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**7583.54**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**214.77**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**4.73E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.48**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.082**	lb/hr
NMHC lb/hr =			**2.40**	lb/hr
NMHC lb/load =			**0.46**	lb/load
NMHC ton/load			**2.30E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	12:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	13:01 AM
Truck No. :	5	**Load Time (hours):**	0.19	

Average Concentration:		4,732 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**8673.19**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**245.63**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.42E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.83**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.095**	lb/hr
NMHC lb/hr =			**2.74**	lb/hr
NMHC lb/load =			**0.52**	lb/load
NMHC ton/load			**2.62E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	13:53 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	14:05 AM
Truck No. :	6	**Load Time (hours):**	0.19	

Average Concentration:		4,590 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**8413.62**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**238.28**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.25E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.75**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.096**	lb/hr
NMHC lb/hr =			**2.65**	lb/hr
NMHC lb/load =			**0.51**	lb/load
NMHC ton/load			**2.54E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	14:51 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	15:02 AM
Truck No. :	7	**Load Time (hours):**	0.19	

Average Concentration:		4,350 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**7972.49**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**225.79**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**4.98E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.61**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.102**	lb/hr
NMHC lb/hr =			**2.50**	lb/hr
NMHC lb/load =			**0.48**	lb/load
NMHC ton/load			**2.40E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	15:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	16:01 AM
Truck No. :	8	**Load Time (hours):**	0.18	

Average Concentration:		4,761 ppmvw
Average Flow Rate:		91 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**8726.48**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**247.14**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.45E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.98**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.095**	lb/hr
NMHC lb/hr =			**2.89**	lb/hr
NMHC lb/load =			**0.53**	lb/load
NMHC ton/load			**2.65E-04**	ton/load

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 8:08 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 8:24 AM
Truck No. :	1	**Load Time (hours):**	0.22

Average Concentration:		417 ppmvw
Average Flow Rate:		72.0 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**278.17**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**7.88**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.73674E-05**	lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.075**	lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 9:09 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 9:20 AM
Truck No. :	2	**Load Time (hours):**	0.18

Average Concentration:		404 ppmvw
Average Flow Rate:		91 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**269.69**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**7.64**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.68379E-05**	lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.092**	lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	10:13 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	10:24 AM
Truck No. :	3	**Load Time (hours):**	0.18	

Average Concentration:		379 ppmvw
Average Flow Rate:		91 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**252.47**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**7.15**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.5763E-05**	lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.086**	lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	11:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	12:02 AM
Truck No. :	4	**Load Time (hours):**	0.19	

Average Concentration:		377 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**251.51**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**7.12**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.57033E-05**	lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.082**	lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	12:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	13:01 AM
Truck No. :	5	**Load Time (hours):**	0.19	

Average Concentration:		438 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**292.32** mg/m^3
mg/SCF =	(mg/m^3) $(m^3/35.31$ SCF)	=	**8.28** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.82511E-05** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.095** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 13:53 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 14:05 AM
Truck No. :	6	**Load Time (hours):**	0.19

Average Concentration:		439 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM) =		**292.68** mg/m^3
mg/SCF =	(mg/m^3) $(m^3/35.31$ SCF)	=	**8.29** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.82734E-05** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.096** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	14:51 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	15:02 AM
Truck No. :	7	**Load Time (hours):**	0.19	

Average Concentration:		467 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**311.54**	mg/m^3
mg/SCF =	(mg/m^3) $(m^3/35.31$ SCF)	=	**8.82**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.94509E-05**	lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.102**	lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 15:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 16:01 AM
Truck No. :	8	**Load Time (hours):**	0.18

Average Concentration:		417 ppmvw
Average Flow Rate:		91 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**278.31**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**7.88**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.73764E-05**	lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.095**	lb/hr

Instrumental Analyzer Monitoring Data

Facility/Site:	**Global South Portland**
Source:	**Residual Oil Loading Rack**
Truck	**1**
Start Date/Time:	**7/2/2013 8:08 AM**
End Date/Time:	**7/2/2013 8:24 AM**
Fill Minutes	**13**

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	8:08:39 AM	1362	
7/2/2013	8:09:39 AM	1964	
7/2/2013	8:10:39 AM	6291	
7/2/2013	8:11:39 AM	6397	257
7/2/2013	8:12:39 AM	5443	549
7/2/2013	8:13:39 AM	5109	549
7/2/2013	8:14:39 AM	4978	508
7/2/2013	8:15:39 AM	4886	453
7/2/2013	8:16:39 AM	4861	453
7/2/2013	8:17:39 AM	4539	449
7/2/2013	8:18:39 AM	4363	444
7/2/2013	8:19:39 AM	3908	444
7/2/2013	8:20:39 AM	3758	420
7/2/2013	8:21:39 AM	3452	388
7/2/2013	8:22:39 AM	2953	388
7/2/2013	8:23:39 AM	2490	316
7/2/2013	8:24:39 AM	2095	221
Averages		4050	417

Instrumental Analyzer Monitoring Data

Facility/Site:	**Global South Portland**
Source:	**Residual Oil Loading Rack**
Truck	**2**
Start Date/Time:	**7/2/2013 9:09 AM**
End Date/Time:	**7/2/2013 9:20 AM**
Fill Minutes	**11**

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	9:09:39 AM		
7/2/2013	9:10:39 AM		
7/2/2013	9:11:39 AM	3612	73
7/2/2013	9:12:39 AM	4449	153
7/2/2013	9:13:39 AM	4692	153
7/2/2013	9:14:39 AM	4852	274
7/2/2013	9:15:39 AM	4868	432
7/2/2013	9:16:39 AM	5137	432
7/2/2013	9:17:39 AM	5281	502
7/2/2013	9:18:39 AM	5103	592
7/2/2013	9:19:39 AM	4975	592
7/2/2013	9:20:39 AM	4972	611
7/2/2013	9:21:39 AM	4393	635
Averages		4758	404

Instrumental Analyzer Monitoring Data

Facility/Site:	**Global South Portland**
Source:	**Residual Oil Loading Rack**
Truck	**3**
Start Date/Time:	**7/2/2013 10:13 AM**
End Date/Time:	**7/2/2013 10:24 AM**
Fill Minutes	**11**

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	10:13:39 AM		
7/2/2013	10:14:39 AM	2314	45
7/2/2013	10:15:39 AM	3945	78
7/2/2013	10:16:39 AM	4258	78
7/2/2013	10:17:39 AM	4528	233
7/2/2013	10:18:39 AM	4679	410
7/2/2013	10:19:39 AM	4917	410
7/2/2013	10:20:39 AM	4887	488
7/2/2013	10:21:39 AM	4845	577
7/2/2013	10:22:39 AM	4710	577
7/2/2013	10:23:39 AM	4756	613
7/2/2013	10:24:39 AM	4630	655
Averages		4406	379

Instrumental Analyzer Monitoring Data

Facility/Site:	**Global South Portland**
Source:	**Residual Oil Loading Rack**
Truck	**4**
Start Date/Time:	**7/2/2013 11:50 AM**
End Date/Time:	**7/2/2013 12:02 AM**
Fill Minutes	**11.5**

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	11:50:39 AM	1865	58
7/2/2013	11:51:39 AM	3722	61
7/2/2013	11:52:39 AM	4142	61
7/2/2013	11:53:39 AM	4529	231
7/2/2013	11:54:39 AM	4716	402
7/2/2013	11:55:39 AM	4969	402
7/2/2013	11:56:39 AM	5125	470
7/2/2013	11:57:39 AM	4965	537
7/2/2013	11:58:39 AM	4647	537
7/2/2013	11:59:39 AM	4505	550
7/2/2013	12:00:39 PM	3995	562
7/2/2013	12:01:39 PM	3509	562
7/2/2013	12:02:39 PM	3099	472
Averages		4137	377

Instrumental Analyzer Monitoring Data

Facility/Site:	**Global South Portland**
Source:	**Residual Oil Loading Rack**
Truck	**5**
Start Date/Time:	**7/2/2013 12:50 AM**
End Date/Time:	**7/2/2013 13:01 AM**
Fill Minutes	**11.5**

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	12:51:39 PM	2941	
7/2/2013	12:52:39 PM	4155	
7/2/2013	12:53:39 PM	4570	170
7/2/2013	12:54:39 PM	4838	323
7/2/2013	12:55:39 PM	5015	323
7/2/2013	12:56:39 PM	5352	408
7/2/2013	12:57:39 PM	5698	494
7/2/2013	12:58:39 PM	5313	494
7/2/2013	12:59:39 PM	4893	518
7/2/2013	1:00:39 PM	4778	541
7/2/2013	1:01:39 PM	4682	541
7/2/2013	1:02:39 PM	4548	572
Averages		4732	438

Instrumental Analyzer Monitoring Data

Facility/Site:	**Global South Portland**
Source:	**Residual Oil Loading Rack**
Truck	**6**
Start Date/Time:	**7/2/2013 13:53 AM**
End Date/Time:	**7/2/2013 14:05 AM**
Fill Minutes	**11.5**

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	1:53:39 PM	4151	153
7/2/2013	1:54:39 PM	4651	270
7/2/2013	1:55:39 PM	5042	270
7/2/2013	1:56:39 PM	5251	385
7/2/2013	1:57:39 PM	5465	486
7/2/2013	1:58:39 PM	5509	486
7/2/2013	1:59:39 PM	5059	537
7/2/2013	2:00:39 PM	4820	582
7/2/2013	2:01:39 PM	4450	582
7/2/2013	2:02:39 PM	3992	534
7/2/2013	2:03:39 PM	3685	492
7/2/2013	2:04:39 PM	3010	492
Averages		4590	439

Instrumental Analyzer Monitoring Data

Facility/Site:	**Global South Portland**
Source:	**Residual Oil Loading Rack**
Truck	**7**
Start Date/Time:	**7/2/2013 14:51 AM**
End Date/Time:	**7/2/2013 15:02 AM**
Fill Minutes	**11.5**

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	2:51:39 PM	3188	
7/2/2013	2:52:39 PM	3988	
7/2/2013	2:53:39 PM	4457	214
7/2/2013	2:54:39 PM	4745	363
7/2/2013	2:55:39 PM	4971	363
7/2/2013	2:56:39 PM	5215	459
7/2/2013	2:57:39 PM	5153	533
7/2/2013	2:58:39 PM	4690	533
7/2/2013	2:59:39 PM	4458	556
7/2/2013	3:00:39 PM	4071	573
7/2/2013	3:01:39 PM	3762	573
7/2/2013	3:02:39 PM	3500	504
Averages		4350	467

Instrumental Analyzer Monitoring Data

Facility/Site:	**Global South Portland**
Source:	**Residual Oil Loading Rack**
Truck	**8**
Start Date/Time:	**7/2/2013 15:50 AM**
End Date/Time:	**7/2/2013 16:01 AM**
Fill Minutes	**11**

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	3:50:39 PM	3769	136
7/2/2013	3:51:39 PM	4375	232
7/2/2013	3:52:39 PM	4819	232
7/2/2013	3:53:39 PM	5035	362
7/2/2013	3:54:39 PM	5262	461
7/2/2013	3:55:39 PM	5458	461
7/2/2013	3:56:39 PM	5224	536
7/2/2013	3:57:39 PM	4865	593
7/2/2013	3:58:39 PM	4621	593
7/2/2013	3:59:39 PM	4183	569
Averages		4761	417

Method 25A Calibration Data Sheet - THC

Source Summary	
Client:/Site:	Global South Portland
Source:/Location:	Residual Oil Loading Rack
Initial Cal Date:	2-Jul-13 7:00

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	6.5		
Combustion Air Pressure -	5.5		
Sample Pressure -	1.5		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane	x	
	Methane	0	
Program Molecular Weight:	44.09	g/mol	

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	8367	8385
Response Line	1.002	
Response Line = (Ha-Za)/(Hc-Zc)		

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	2961	2967	3008	1.4	< 5% of cylinder concentration
Mid Gas	5010	5020	5019	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #1 - 08:30					
Calcheck 1 Zero	0	1	22	0.2	< 3% of the measurement range
Calcheck 1 Mid	5010	5019	5018	0.0	< 3% of the measurement range
Calcheck #2 - 09:30					
Calcheck 2 Zero	0	1	22	0.2	< 3% of the measurement range
Calcheck 2 Mid	5010	5019	4970	0.5	< 3% of the measurement range
Calcheck #3 - 12:08					
Calcheck 3 Zero	0	1	40	0.4	< 3% of the measurement range
Calcheck 3 Mid	5010	5019	5058	0.4	< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	2,961.0	C3H8/Air	CC103130	7/10/2015	29.6%
Mid Gas	45-55	5,010.0	C3H8/Air	SA20684	3/26/2015	50.1%
High Gas	80-90	8,367.0	C3H8/Air	C111354	3/2/2016	83.7%

Method 25A Calibration Data Sheet - THC

Source Summary	
Client:/Site:	Global South Portland
Source:/Location:	Residual Oil Loading Rack
Initial Cal Date:	2-Jul-13 7:00

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	6.5		
Combustion Air Pressure -	5.5		
Sample Pressure -	1.5		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane	x	
	Methane	0	
Program Molecular Weight:	44.09	g/mol	

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	8367	8385
Response Line	1.002	

Response Line = (Ha-Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	2961	2967	3008	1.4	< 5% of cylinder concentration
Mid Gas	5010	5020	5019	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #4 - 14:27					
Calcheck 1 Zero	0	1	12	0.1	< 3% of the measurement range
Calcheck 1 Mid	5010	5019	5061	0.4	< 3% of the measurement range
Calcheck #5 - 15:13					
Calcheck 2 Zero	0	1	28	0.3	< 3% of the measurement range
Calcheck 2 Mid	5010	5019	4960	0.6	< 3% of the measurement range
Final Postcal - 16:05					
Calcheck 3 Zero	0	1	20	0.2	< 3% of the measurement range
Calcheck 3 Mid	5010	5019	5021	0.0	< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	2,961.0	C3H8/Air	CC103130	7/10/2015	29.6%
Mid Gas	45-55	5,010.0	C3H8/Air	SA20684	3/26/2015	50.1%
High Gas	80-90	8,367.0	C3H8/Air	C111354	3/2/2016	83.7%

Method 25A Calibration Data Sheet - Methane

Source Summary	
Client:/Site:	Global South Portland
Source:/Location:	Residual Oil Loading Rack
Initial Cal Date:	2-Jul-13 7:00

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

Methane Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	7		
Combustion Air Pressure -	5.5		
Carrier Gas Pressure -	22.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane	0	
	Methane	x	
Program Molecular Weight:	16.04	g/mol	

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	860	862
Response Line	1.001	

Response Line = (Ha-Za)/(Hc-Zc)

Run Summary			

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	290	290	296	2.0	< 5% of cylinder concentration
Mid Gas	504	505	506	0.3	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #1 - 08:30					
Calcheck 1 Zero	0	1	0.6	0.0	< 3% of the measurement range
Calcheck 1 Mid	504	506	504	0.2	< 3% of the measurement range
Calcheck #2 - 09:30					
Calcheck 2 Zero	0	1	1.0	0.0	< 3% of the measurement range
Calcheck 2 Mid	504	506	502	0.4	< 3% of the measurement range
Calcheck #3 - 12:08					
Calcheck 3 Zero	0	1	2.0	0.1	< 3% of the measurement range
Calcheck 3 Mid	504	506	509	0.3	< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	290	CH4/Air	CC198791	4/2/2015	29.0%
Mid Gas	45-55	504	CH4/Air	CC72704	7/10/2015	50.4%
High Gas	80-90	860	CH4/Air	CC246069	7/10/2015	86.0%

Method 25A Calibration Data Sheet - Methane

Source Summary	
Client:/Site:	Global South Portland
Source:/Location:	Residual Oil Loading Rack
Initial Cal Date:	2-Jul-13 7:00

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

Methane Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	7		
Combustion Air Pressure -	5.5		
Carrier Gas Pressure -	22.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane	0	
	Methane	x	
Program Molecular Weight:	16.04	g/mol	

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	860	862
Response Line	1.001	

Response Line = (Ha-Za)/(Hc-Zc)

Run Summary			

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	290	290	296	2.0	< 5% of cylinder concentration
Mid Gas	504	505	506	0.3	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #4 - 14:27					
Calcheck 1 Zero	0	1	0.6	0.0	< 3% of the measurement range
Calcheck 1 Mid	504	506	512	0.6	< 3% of the measurement range
Calcheck #5 - 15:13					
Calcheck 2 Zero	0	1	0.6	0.0	< 3% of the measurement range
Calcheck 2 Mid	504	506	508	0.2	< 3% of the measurement range
Final Postcal - 16:05					
Calcheck 3 Zero	0	1	1.0	0.0	< 3% of the measurement range
Calcheck 3 Mid	504	506	506	0.0	< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	290	CH4/Air	CC198791	4/2/2015	29.0%
Mid Gas	45-55	504	CH4/Air	CC72704	7/10/2015	50.4%
High Gas	80-90	860	CH4/Air	CC246069	7/10/2015	86.0%

1 of 2

Method 25A Data Sheet — THC

Client: Global
Facility: South Portland, ME
Source: Residual Oil Loading Rack
Test Location: Tanker Truck Fill Port
Date: 2 July 2013

THC Analyzer Data

Manufacturer: VIG
Model/Serial Number: 200/ 2660404
Fuel Pressure: 6.5
Combustion Air Pressure: 5.5
Sample Pressure: 1.5
Measurement Range: 0-10000 as C_3H_8 (Propane)
Response Time: 1 Minute

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	8367	8385
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas	2961		3008		< 5% of cylinder concentration
Mid Gas	5010		5019		< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Cal Check #1 0830 Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance
Test Run 1 Zero	0		22		< 3% of the measurement range
Test Run 1 Mid	5010		5018		< 3% of the measurement range
Cal Check #2 0930					Test Run 1 Avg. Conc.
Test Run 2 Zero	0		22		< 3% of the measurement range
Test Run 2 Mid	5010		4970		< 3% of the measurement range
Cal Check #3 12:08					Test Run 2 Avg. Conc.
Test Run 3 Zero	0		40		< 3% of the measurement range
Test Run 3 Mid	5010		5058		< 3% of the measurement range
Calibration Drift = (Actual Response - CE Test Response) / Measurement Range * 100					Test Run 3 Avg. Conc.

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35	2961	C_3H_8/Air	CC113830	7-10-15	
Mid Gas	45 - 55	5010	C_3H_8/Air	SA2689	3-26-15	
High Gas	80 - 90	8367	C_3H_8/Air	CC113354	3-2-16	

Method 25A Data Sheet

Client	Global
Facility	S. Portland, ME
Source	Residual Oil Loading Rack
Test Location	Tanker Truck Fill Pit
Date	2 July 2013

THC Analyzer Data

Manufacturer	See Page 1 of 2
Model/Serial Number	
Fuel Pressure	
Combustion Air Pressure	
Sample Pressure	
Measurement Range	
Response Time	

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas		
High Gas		
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas					< 5% of cylinder concentration
Mid Gas					< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance	
Cal check #4 1427						
Test Run 1 Zero	0		12		< 3% of the measurement range	
Test Run 1 Mid	5010		5061		< 3% of the measurement range	
Cal check #5 1513					Test Run 1 Avg. Conc.	
Test Run 2 Zero	0		28		< 3% of the measurement range	
Test Run 2 Mid	5010		4960		< 3% of the measurement range	
Final Post Cal 1605					Test Run 2 Avg. Conc.	
Test Run 3 Zero	0		20		< 3% of the measurement range	
Test Run 3 Mid	5010		5021		< 3% of the measurement range	
Calibration Drift = (Actual Response - CE Test Response) / Measurement Range * 100					Test Run 3 Avg. Conc.	

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

Method 25A Data Sheet — Methane

Client: Global
Facility: South Portland, ME
Source: Residual Oil Loading Rack
Test Location: Tanker Truck Fill Port
Date: 2 July 2013

THC Analyzer Data

Manufacturer: VIG
Model/Serial Number: 200 / 266G0406
Fuel Pressure: 7.0
Combustion Air Pressure: 5.5
~~Sample Pressure~~ Carrier Gas 22 PSI
Measurement Range: 0-1000 as CH_4 (Methane)
Response Time: 3 minutes

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	860	862
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas	290		296		< 5% of cylinder concentration
Mid Gas	504		506		< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance
Calcheck #1 0830					
Test Run 1 Zero	0		0.6		< 3% of the measurement range
Test Run 1 Mid	504		504		< 3% of the measurement range
Calcheck #2 0930					Test Run 1 Avg. Conc.
Test Run 2 Zero	0		1		< 3% of the measurement range
Test Run 2 Mid	504		502		< 3% of the measurement range
Calcheck #3 12:08					Test Run 2 Avg. Conc.
Test Run 3 Zero	0		2		< 3% of the measurement range
Test Run 3 Mid	504		509		< 3% of the measurement range
Calibration Drift = (Actual Response - CE Test Response) * 100 / Measurement Range					Test Run 3 Avg. Conc.

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35	290	CH_4/Air	CC198791	4-2-17	
Mid Gas	45 - 55	504	CH_4/Air	CC72704	7-7-15	
High Gas	80 - 90	860	CH_4/Air	CC246069	7-10-15	

Method 25A Data Sheet – Methane

Client	Global
Facility	S. Portland, ME
Source	
Test Location	
Date	

THC Analyzer Data

Manufacturer	See Page 1 of 2
Model/Serial Number	
Fuel Pressure	
Combustion Air Pressure	
Sample Pressure	
Measurement Range	
Response Time	

Test Data

Test Number	1	2	3
Start Time			
Stop Time			

Testers

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas		
High Gas		
Response Line		
Response Line = (Ha/Za)/(Hc-Zc)		

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas					< 5% of cylinder concentration
Mid Gas					< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance	
Test Run 1 Zero	0		0.6		< 3% of the measurement range	
Test Run 1 Mid	504		512		< 3% of the measurement range	
					Test Run 1 Avg. Conc.	
Test Run 2 Zero	0		0.6		< 3% of the measurement range	
Test Run 2 Mid	504		508		< 3% of the measurement range	
					Test Run 2 Avg. Conc.	
Test Run 3 Zero	0		1		< 3% of the measurement range	
Test Run 3 Mid	504		506		< 3% of the measurement range	
Calibration Drift = (Actual Response - CE Test Response) / Measurement Range * 100					Test Run 3 Avg. Conc.	

Gas Cylinder Data

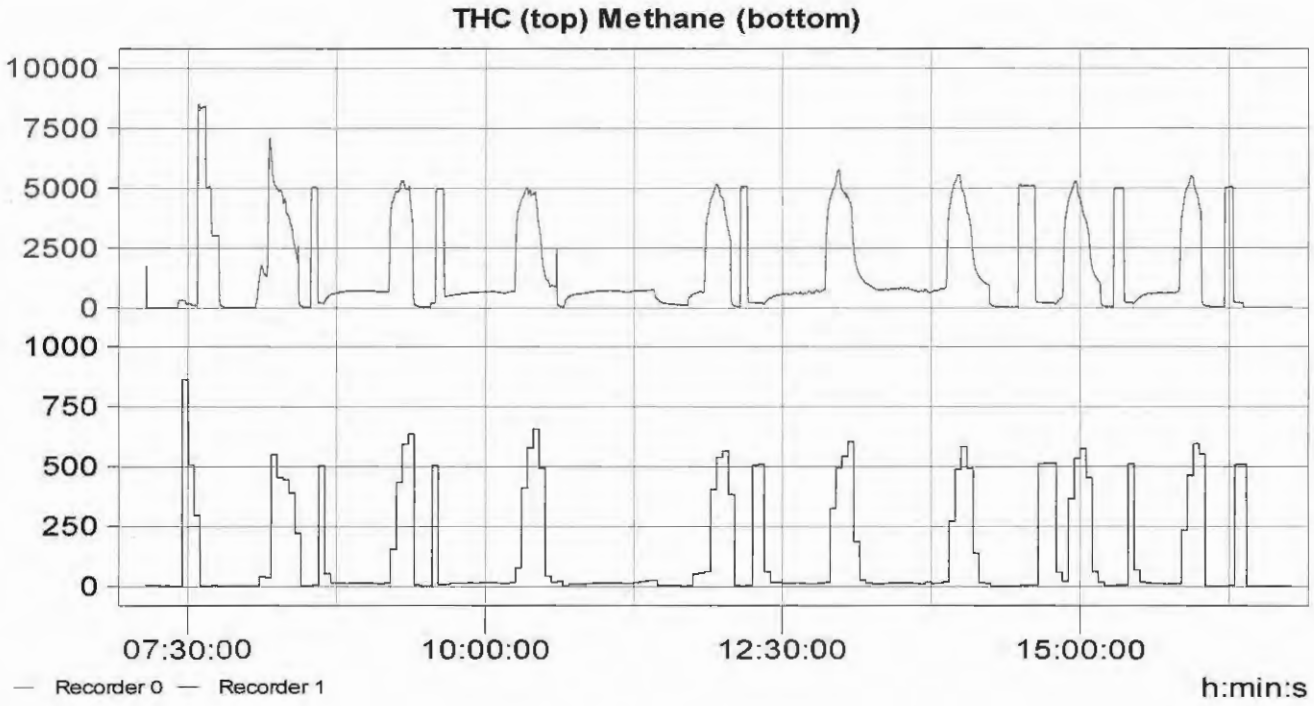
Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

C2. Tank Displacement Rate Calculations / Truck Loading Logs

Global South Portland - Residual Oil Loading Rack
Tank Air Displacement Calculations
2-Jul-13

Truck No.	Start Time	End Time	Load Time (minutes)	Load (gallons)	Fill Rate (gal/hr)	Displacement (scfm)	NMHC (lb/hr)	NMHC (lb/load)	NMHC (Ton/load)
1	8:08	8:25	13	7000	32308	72.0	1.93	0.417	2.09E-04
2	9:09	9:20	11	7507	40947	91.2	2.89	0.529	2.65E-04
3	10:13	10:24	11	7502	40920	91.2	2.67	0.490	2.45E-04
4	11:50	12:02	11.5	7507	39167	87.3	2.40	0.459	2.30E-04
5	12:50	13:01	11.5	7502	39141	87.2	2.74	0.525	2.62E-04
6	13:53	14:05	11.5	7502	39141	87.2	2.65	0.508	2.54E-04
7	14:51	15:02	11.5	7507	39167	87.3	2.50	0.480	2.40E-04
8	15:50	16:01	11	7507	40947	91.2	2.89	0.529	2.65E-04
Average:			**12**	**7442**	**38967**	**86.8**	**2.58**	**0.492**	**2.46E-04**

Note: One Gallon = 0.13368 cubic feet



All BOL Records

(Summary)

Terminal 5335
Global Companies LLC
1 Clark Road
South Portland, ME 04106

Criteria: Start Date/Time is between 07/02/2013 00:00:01 and 07/02/2013 23:59:59
Product Id is equal to '0068'
Customer Id is equal to '9999'
All volumes in Gallons

BOL: 97640 Station: 8 Start Date/Time: 07/02/2013 08:07 End Date/Time: 07/02/2013 09:07
Ver: 3 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9271 Profenno, Mark
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 11:31

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,006	6,837
			Total	7,006	6,837

BOL: 97642 Station: 8 Start Date/Time: 07/02/2013 09:08 End Date/Time: 07/02/2013 10:09
Ver: 3 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9271 Profenno, Mark
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 11:35

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,507	7,326
			Total	7,507	7,326

BOL: 97644 Station: 8 Start Date/Time: 07/02/2013 10:12 End Date/Time: 07/02/2013 11:12
Ver: 3 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9282 LESTER JOHN GL
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 11:44

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,502	7,321
			Total	7,502	7,321

BOL: 97646 Station: 8 Start Date/Time: 07/02/2013 11:48 End Date/Time: 07/02/2013 12:48
Ver: 1 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9282 LESTER JOHN GL
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 12:48

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,507	7,279
			Total	7,507	7,279

BOL: 97650 Station: 8 Start Date/Time: 07/02/2013 12:48 End Date/Time: 07/02/2013 13:47
Ver: 1 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9282 LESTER JOHN GL
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 13:47

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,502	7,273
			Total	7,502	7,273

BOL: 97653 Station: 8 Start Date/Time: 07/02/2013 13:50 End Date/Time: 07/02/2013 14:42
Ver: 1 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9282 LESTER JOHN GL
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 14:42

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume

0	B	0068	# 6 OIL (2.0%)	7,507	7,277
			Total	7,507	7,277

BOL: 97655 Station: 8 Start Date/Time: 07/02/2013 14:47 End Date/Time: 07/02/2013 15:02
Ver: 1 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9271 Profenno, Mark
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 15:02

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,507	7,275
			Total	7,507	7,275

BOL: 97657 Station: 8 Start Date/Time: 07/02/2013 15:47 End Date/Time: 07/02/2013 16:00
Ver: 1 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9271 Profenno, Mark
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 16:00

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,507	7,274
			Total	7,507	7,274

Grand Total	59,545	57,862

8 BOL(s) selected.

CARRIER CERTIFIES THAT THE TANK SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPORTATION OF THE PRODUCT HEREIN DESCRIBED. CARRIER TERMS WILL BE THOSE OF EITHER THE CONTRACT BETWEEN SHIPPER AND CARRIER OR THE LAWFULLY APPLICABLE TARIFFS IF A CARRIER IS A COMMON CARRIER

FOR CUSTOMERS RECEIVING DYED DIESEL FUEL:

DYED DIESEL FUEL, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING DYED KEROSENE:

DYED KEROSENE, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING GASOLINE:

THIS GASOLINE MAY CONTAIN OXYGENATES BUT DOES NOT MEET CARBON MONOXIDE NON-ATTAINMENT AREA REQUIREMENTS FOR OXYGENATED GASOLINES. NOT FOR SALE TO ULTIMATE CONSUMERS IN A CONTROL AREA DURING A CONTROL PERIOD.

SIGNATURE OF DRIVER:

Profenno, Mark GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION: TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO	MANIFEST NO.	DATE	CUSTOMER NO.	DRIVER NO	CARRIER
5335	97640	START : 07/02/2013 08:07 FINISH : 07/02/2013 09:07		9271	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT	TEMP	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III 0068	# 6 OIL (2.0%)		123.0	11.9	7006	6837

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,631 per gallon

Please Visit Our Website @ WWW.GLOBALP.COM or Call 1-800-685-7222
Updated Material Safety Data Sheets are available at www.globalp.com
or by phone at 781-894-8800
Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

CARRIER CERTIFIES THAT THE TANK SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPORTATION OF THE PRODUCT HEREIN DESCRIBED. CARRIER TERMS WILL BE THOSE OF EITHER THE CONTRACT BETWEEN SHIPPER AND CARRIER OR THE LAWFULLY APPLICABLE TARIFFS IF A CARRIER IS A COMMON CARRIER.

FOR CUSTOMERS RECEIVING DYED DIESEL FUEL:
DYED DIESEL FUEL, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE.

FOR CUSTOMERS RECEIVING DYED KEROSENE:
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FOR CUSTOMERS RECEIVING GASOLINE:
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SIGNATURE OF DRIVER: _____

Profenno, Mark GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION: TEST CUSTOMER / 9999

ACCT #
PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO.	MANIFEST NO.	DATE	CUSTOMER NO.	DRIVER NO.	CARRIER
5335	97642	START : 07/02/2013 09:08		9271	9998
	REPRINT 3	FINISH : 07/02/2013 10:09			GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT	TEMP.	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III					7507	7326
0068	# 6 OIL (2.0%)		123.0	11.9		

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,631 per gallon

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Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

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FOR CUSTOMERS RECEIVING DYED DIESEL FUEL:

DYED DIESEL FUEL, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING DYED KEROSENE:

DYED KEROSENE, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING GASOLINE:

THIS GASOLINE MAY CONTAIN OXYGENATES BUT DOES NOT MEET CARBON MONOXIDE NON-ATTAINMENT AREA REQUIREMENTS FOR OXYGENATED GASOLINES. NOT FOR SALE TO ULTIMATE CONSUMERS IN A CONTROL AREA DURING A CONTROL PERIOD.

SIGNATURE OF DRIVER: John Lester

LESTER JOHN GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION: TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO	MANIFEST NO.	DATE	CUSTOMER NO	DRIVER NO	CARRIER
5335	97644	START : 07/02/2013 10:12 FINISH : 07/02/2013 11:12		9282	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT.	TEMP.	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III 0068	# 6 OIL (2.0%)		123.0	11.9	7502	7321

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,531 per gallon

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or by phone at 781-894-8800
Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

CARRIER CERTIFIES THAT THE TANK SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPORTATION OF THE PRODUCT HEREIN DESCRIBED. CARRIER TERMS WILL BE THOSE OF EITHER THE CONTRACT BETWEEN SHIPPER AND CARRIER OR THE LAWFULLY APPLICABLE TARIFFS IF A CARRIER IS A COMMON CARRIER

FOR CUSTOMERS RECEIVING DYED DIESEL FUEL:

DYED DIESEL FUEL, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING DYED KEROSENE:

DYED KEROSENE, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING GASOLINE:

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SIGNATURE OF DRIVER:

LESTER JOHN GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION: TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO.	MANIFEST NO.	DATE	CUSTOMER NO.	DRIVER NO.	CARRIER
5335	97646	START : 07/02/2013 11:48 FINISH : 07/02/2013 12:48		9282	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT.	TEMP.	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III					7507	7279
0066	# 6 OIL (2.0%)		138.8	11.9		

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,631 per gallon

Please Visit Our Website @ WWW.GLOBALP.COM or Call 1-800-565-7222
Updated Material Safety Data Sheets are available at www.globalp.com
or by phone at 781-894-8800
Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

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DYED DIESEL FUEL, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING DYED KEROSENE:

DYED KEROSENE, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING GASOLINE:

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SIGNATURE OF DRIVER:

LESTER JOHN GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION: TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO.	MANIFEST NO.	DATE	CUSTOMER NO.	DRIVER NO.	CARRIER
5335	97650	START : 07/02/2013 12:48 FINISH : 07/02/2013 13:47		9282	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT.	TEMP.	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III					7502	7273
0068	# 6 OIL (2.0%)		139.2	11.9		

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,631 per gallon

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Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

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FOR CUSTOMERS RECEIVING DYED KEROSENE:

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FOR CUSTOMERS RECEIVING GASOLINE:

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SIGNATURE OF DRIVER

LESTER JOHN GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO	MANIFEST NO	DATE	CUSTOMER NO	DRIVER NO	CARRIER
5335	97653	START : 07/02/2013 13:50 FINISH : 07/02/2013 14:42		9282	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT	TEMP	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III 0068	# 6 OIL (2.0%)		139.9	11.9	7507	7277

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,631 per gallon

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Emergency Response information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

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FOR CUSTOMERS RECEIVING DYED KEROSENE:

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FOR CUSTOMERS RECEIVING GASOLINE:

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SIGNATURE OF DRIVER

Profenno, Mark GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO.	MANIFEST NO.	DATE	CUSTOMER NO.	DRIVER NO.	CARRIER
5335	97655	START : 07/02/2013 14:47 FINISH : 07/02/2013 15:02		9271	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT.	TEMP.	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III					7507	7275
0068	# 6 OIL (2.0%)		140.3	11.9		

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,531 per gallon

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or by phone at 781-894-8800
Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

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FOR CUSTOMERS RECEIVING DYED KEROSENE:

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FOR CUSTOMERS RECEIVING GASOLINE:

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SIGNATURE OF DRIVER

Profenno, Mark GL HSE

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Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO.	MANIFEST NO.	DATE	CUSTOMER NO.	DRIVER NO.	CARRIER
5335	97657	START : 07/02/2013 15:47 FINISH : 07/02/2013 16:00		9271	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT.	TEMP.	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III					7507	7274
0068	# 6 OIL (2.0%)		140.7	11.9		

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,831 per gallon

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Chemtrec Customer Number CCN202096