

Address (Head Office)
7 Redland Drive
MITCHAM VIC 3132

Office Locations VIC NSW WA QLD

Postal Address 52 Cooper Road COCKBURN CENTRAL WA 6164 Freecall: 1300 364 005 <u>www.ektimo.com.au</u> ABN: 86 600 381 413

Report Number R007405

VRU Performance Test Terminals Pty Ltd, Port Botany, Site C

Prepared for Oil & Gas Technologies Pty Ltd



Document Information

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Attention: Zaine Morgan

Address: 1/45 Chelmsford Street

Williamstown North Vic 3016

Testing Laboratory: Ektimo Pty Ltd, ABN 86 600 381 413

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Report Authorisation



Steven Cooper Client Manager NATA Accredited Laboratory No. 14601

Accredited for compliance with ISO/IEC 17025 - Testing. NATA is a signatory to the ILAC mutual recognition arrangement for the mutual recognition of the equivalence of testing, calibration and inspection reports.



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1 EXECUTIVE SUMMARY

Ektimo was engaged by Oil and Gas Technologies to perform emission testing of the Vapour Recovery Unit (VRU) at the Port Botany site C of Terminals Pty Ltd. Testing was conducted pursuant to the requirements of Environment Protection Licence 1048.

Testing was conducted on 12 April 2019 to determine the total mass of unrecovered organic vapours emitted to atmosphere over a four (4) hour sampling duration.

The sampling methodologies chosen by Ektimo are those recommended by the NSW Office of Environment and Heritage (as specified in the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales, January 2007).

All results are reported on a dry basis at STP. Unless otherwise indicated, the methods cited in this report have been performed without deviation.

A Non-dispersive Infrared (NDIR) analyser was calibrated and verified on-site at the start and end of the sample duration. Zero and span drift were observed to be less than 2%.

Plant operating conditions have been noted in the report. Tanker loading data is contained in Appendix 1. A total of 270,217 litres were loaded during the four hours of sampling. A total of 160,460 litres of Volatile Organic Liquid (VOL) were loaded during this period

2 LICENCE COMPARISON

The following licence comparison table shows that all analytes highlighted in green are below the licence limit set by the NSW EPA as per licence 1048 (last amended on 23/11/2017).

EPA No.	Location Description	Pollutant	Units	Licence limit	Detected values V.O.L. only	Detected values Total VRU Throughput
					12/04	/2019
9	Vapour Recovery Unit	Organic Vapours	mg/L	20	10	6.2



3 RESULTS

3.1 Mass of unrecovered vapours

The mass of unrecovered organic vapours emitted for each litre of organic liquid is:

$(318 \times C \times A \times M \times P \times V) \div (L \times T)$ milligrams

C = the average concentration of hydrocarbons expressed as equivalent propane in ppm over the test period.

A = the cross-sectional area of the exhaust duct at the plane where the measurements are made in m2.

M = the total time for organic liquid to pass into the tank or out of the industrial plant in minutes.

P = the atmospheric pressure in kPa.

V = the average exhaust gas velocity in metres per second.

L = the volume of organic liquid passing into the tank or out of the industrial plant in litres.

T = the average exhaust gas temperature in kelvins (273 + temperature in °C).

318 = a conversion factor

Parameters at Terminals Port Botany, 12 April 2019, 0420-0820;

	Throughput			
	Total	V.O.L. Only		
C (ppm)	1987.49	1987.49		
A (m2)	0.0314	0.0314		
M (min)	241	241		
P (kPa)	102.431	102.431		
V (m/s)	0.99	0.99		
L (L)	270217	160460		
T (°K)	290.1	290.1		

The average total mass of unrecovered vapours was calculated to be **6.2 mg/L** when using total VRU throughput as parameter L.

The average total mass of unrecovered vapours was calculated to be **10 mg/L** when diesel loading volumes are excluded from this calculation.

Hydrocarbon concentration and velocity was logged every 60 seconds for the entire sampling duration of 241 minutes.



3.2 Test Instrumentation & Calibration

An Infrared Technologies Total organic compound (NDIR) analyser was used to measure hydrocarbon concentrations.

The analyser was calibrated on site, at the start and end of the sampling period using medical air for zero calibration and a 9.98% Propane in Synthetic Air mix for span adjustment.

Zero Drift 0.2%

Span Drift 1.3%

Both span and zero drift were determined to be equal or less than +/- 2%.

A Data logger was used to record data at 60 second intervals for the entirety of the sampling duration. This data is available on request.

Differential pressure and thus velocity was recorded at 60 second intervals with a Velocicalc manometer for the entirety of the sampling duration. This data is available on request.

4 PLANT OPERATING CONDITIONS

Unless otherwise stated, the plant operating conditions were normal at the time of testing. See Terminals records for complete process conditions.

5 TEST METHODS

Parameter	Sampling Method	Analysis Method	Uncertainty*	NATA Accredited	
				Sampling	Analysis
Sample plane criteria	NSW TM-1	NA	-	✓	NA
Flow rate, temperature and velocity	NSW TM-2	NA	8%, 2%, 7%	✓	NA
Determination of total mass of unrecovered organic vapours from vapour recovery units	NSW TM-20	NSW TM-20	13%	✓	✓
					18121

* Uncertainty values cited in this table are calculated at the 95% confidence level (coverage factor = 2)



6 QUALITY ASSURANCE/ QUALITY CONTROL INFORMATION

Ektimo is accredited by the National Association of Testing Authorities (NATA) for the sampling and analysis of air pollutants from industrial sources. Unless otherwise stated test methods used are accredited with the National Association of Testing Authorities. For full details, search for Ektimo at NATA's website www.nata.com.au.

Ektimo is accredited by NATA (National Association of Testing Authorities) to ISO/IEC 17025 - Testing. ISO/IEC 17025 - Testing requires that a laboratory have adequate equipment to perform the testing, as well as laboratory personnel with the competence to perform the testing. This quality assurance system is administered and maintained by the Quality Director.

NATA is a member of APLAC (Asia Pacific Laboratory Accreditation Co-operation) and of ILAC (International Laboratory Accreditation Co-operation). Through the mutual recognition arrangements with both of these organisations, NATA accreditation is recognised world —wide.

A formal Quality Control program is in place at Ektimo to monitor analyses performed in the laboratory and sampling conducted in the field. The program is designed to check where appropriate; the sampling reproducibility, analytical method, accuracy, precision and the performance of the analyst. The Laboratory Manager is responsible for the administration and maintenance of this program.



7 DEFINITIONS

The following symbols and abbreviations may be used in this test report:

ApproximatelyLess thanGreater than

≥ Greater than or equal to

APHA American public health association, Standard Methods for the Examination of Water and

Waste Water

AS Australian Standard BSP British standard pipe

CARB Californian Air Resources Board
CEM Continuous Emission Monitoring
CEMS Continuous Emission Monitoring System

CTM Conditional test method

D Duct diameter or equivalent duct diameter for rectangular ducts

D₅₀ 'Cut size' of a cyclone defined as the particle diameter at which the cyclone achieves a 50%

collection efficiency ie. half of the particles are retained by the cyclone and half are not and pass through it to the next stage. The D_{50} method simplifies the capture efficiency distribution by assuming that a given cyclone stage captures all of the particles with a diameter equal to or

greater than the D_{50} of that cyclone and less than the D_{50} of the preceding cyclone.

DECC Department of Environment & Climate Change (NSW)

Disturbance A flow obstruction or instability in the direction of the flow which may impede accurate flow

determination. This includes centrifugal fans, axial fans, partially closed or closed dampers,

louvres, bends, connections, junctions, direction changes or changes in pipe diameter.

DWER Department of Water and Environmental Regulation

EPA Environment Protection Authority
FTIR Fourier Transform Infra Red

ISC Intersociety committee, Methods of Air Sampling and Analysis

ISO International Organisation for Standardisation

NA Not applicable

NATA National Association of Testing Authorities

NIOSH National Institute of Occupational Safety and Health

NT Not tested or results not required

OM Other approved method

OU The number of odour units per unit of volume. The numerical value of the odour

concentration is equal to the number of dilutions to arrive at the odour threshold (50% panel

response).

PM₁₀ Atmospheric suspended particulate matter having an equivalent aerodynamic diameter of less

than approximately 10 microns (µm).

PM_{2.5} Atmospheric suspended particulate matter having an equivalent aerodynamic diameter of less

than approximately 2.5 microns (µm).

PSA Particle size analysis

RATA Relative Accuracy Test Audit

STP Standard temperature and pressure. Gas volumes and concentrations are expressed on a dry

basis at 0°C, at discharge oxygen concentration and an absolute pressure of 101.325 kPa,

unless otherwise specified.

TM Test Method

TOC The sum of all compounds of carbon which contain at least one carbon to carbon bond, plus

methane and its derivatives.

USEPA United States Environmental Protection Agency

VDI Verein Deutscher Ingenieure (Association of German Engineers)

Vic EPA Victorian Environment Protection Authority

VOC Any chemical compound based on carbon with a vapour pressure of at least 0.010 kPa at 25°C

or having a corresponding volatility under the particular conditions of use. These compounds may contain oxygen, nitrogen and other elements, but specifically excluded are carbon

monoxide, carbon dioxide, carbonic acid, metallic carbides and carbonate salts.

XRD X-ray Diffractometry



8 APPENDICES

8.1 Appendix 1 - Tank Truck Loading Data

	-	94254 Rav. 0	-98250 Rev. 0	#8048 Rev. 0	Novement Number seate		Unit of
		Б	5	5	ant STS	Su Su	Unit of Measure: Liters
		56789	56789		Customer Code N	Supplier :	Liters
		PARK FUELS	PARK EUELS	BARK BEEL	Name PARKFUELS	150001 -	
		3	ŀ		Carrier Code	TRAFI	
		MISKICH PTY LTD	TOTAL MUSICA	— 015445 — 015445 — 015445 — 015445 — 015445 — 01545 —	Name Path Pay Ltd	TRAFIGURA PTE LTD	FUEL-FACS -
P.		6123	R-1280	8 9 9	Driver Code		Port Bota 300 - Supplier Lifting Report Generated at 06/0 Start Folio Number: 20 End Folio Number: 20 Supplier From: 150001 Supplier To: 150001
Page 3 of 20		PETER DENISON	Dru Hydand	Dr. Hjeart	Name Two Thank Two		Port Botany 300 - Supplier Lifting Detail Report Report Generated at 06/05/2019 10:07:19 Start Folio Number: 20190412 11/0 End Folio Number: 20190412 12/0 Supplier From: 150001
	18		0.004.30	12004/2019 03	Load Supplier Date Code		TER Report 10:07:19 11/04/201 12/04/201
	DIESEL	Order Total	Order Total	Order Total	Supplier Product Code Name		TERMINAL 1 7-19 11/04/2019 23:57:01 12/04/2019 23:56:55
	8006.0	44965 O	2 2	99910-0	Gross		
	9.9	8 8	\$ 8		Temp		
	834.2	8343	\$ \$	84.5	Dens		
	7972.0	44788.0	90	394320	Net		



98256 Rev. 0 98255 Rev. o Number Unit of Measure: Liters Rev. o 98254 Movement 5 5 5 STS Supplier: 56789 56789 Code 56789 150001 -PARK FUELS PARK FUELS PARK FUELS Name 츓 30 Code Carrier 8 TRAFIGURA PTE LTD PARK FUELS MISKICH PTY LTD MISKICH PTY LTD Start Folio Number: 20190412 End Folio Number: 20190412 Supplier From: 150001 Supplier To: 150001 6120 6430 Driver Code 6123 Page 4 of 20 Justin Hodges KERRIE O'BRIEN Name PETER DENISON 12/04/2019 04:45:31 12/04/2019 04:48:19 Load Date 12/04/2019 04:31:25 11/04/2019 23:57:01 12/04/2019 23:56:55 Code 8 3 ₽ Supplier Product 105 Order Total 117 1 Order Total Order Total DIESEL E10 SPULP 88 DIESEL ULP 95R ULP 91 Name 38757.0 5380.0 24018.0 5300.0 7319.0 36036.0 20027.0 7420.0 Gross 8003.0 Temp 20.0 20.0 18.7 80 19.8 19.9 19.8 9 20,0 834.2 834.2 756.3 Dens 755.7 756.2 755,7 725.3 38595.0 5357.0 5357.0 23929,0 7277.0 35835.0 7389.0 19899.0 7964.0

Net et



FUEL-FACS -

Report Generated at 06/05/2019 10:07:19

300 - Supplier Lifting Detail Report

Port Botany

Rev. 0 98260 Rev. 0 98259 98258 Rev. 0 98257 Number Rev. 0 Movement Unit of Measure: Liters 6 5 5 6 STS Supplier: 56789 150003 150003 Code 150003 Customer PARK FUELS 150001 -PUMA SUPPLIER PUMA SUPPLIER Name PUMA SUPPLIER 88 8 Carrier TRAFIGURA PTE LTD Park Pty Ltd BULK FUEL AUSTRALIA OLEUM ENERGY PTY LTD PARK FUELS Start Folio Number: 20190412 End Folio Number: 20190412 Supplier From: 150001 Supplier To: 150001 6385 6316 = Driver Daniel Simmons Ryan MacDonald FIA TANIELA Name Evan Lloyd 12/04/2019 05:38:04 12/04/2019 05:11:38 Load Date 12/04/2019 05:25:04 12/04/2019 04:54:20 11/04/2019 23:57:01 12/04/2019 23:56:55 # Supplier Product Code Name នឹ Order Total ŝ 105 Order Total Order Total MAX MAX DIESEL DIESEL 3579,0 44259.0 3001.0 578,0 Gross 4253.0 4253.0 Temp 19,6 19,4 19.6 19.9 19.9 20.1 8 B21.5 834.2 788.7 834.2 834.2 Dens 834.2 834.2



Page 5 of 20

44073.0

44073.0

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Net et

3584.0

2969.0

575.0

FUEL-FACS -

Report Generated at 06/05/2019 10:07:19

300 - Supplier Lifting Detail Report

Port Botany

Rev. o 98262 Rev. 0 98261 Number Rev. 0 98260 Movement Unit of Measure: Liters 5 5 STS 6 Supplier: 56789 56789 Code 56789 Customer 150001 -Name PARK FUELS PARK FUELS PARK FUELS 88 Carrier Code ᅘ 8 TRAFIGURA PTE LTD Park Pty Ltd PARK FUELS Park Pty Ltd Name Report Generated at 06/05/2019 10:07:19 Start Folio Number: 20190412 End Folio Number: 20190412 Supplier From: 150001 Supplier To: 150001 Driver Code 6148 6430 6385 Page 6 of 20 Robert Mitchell Justin Hodges Name Daniel Simmons 12/04/2019 05:55:01 12/04/2019 05:32:57 Load Date 12/04/2019 05:36:04 11/04/2019 23:57:01 12/04/2019 23:56:55 Code 12 នឹ Supplier Product 105 Order Total Order Total 큟 ₽ 12 Order Total ULP 91 DIESEL DIESEL E10 ULP 91 SPULP 98 Name 34009.0 22002.0 12007.0 35219.0 21016.0 3294.0 7205,0 6998.0 Gross Temp 20.0 20,5 19.7 20.4 20,4 19.7 ŝ 19,7 20.3 795.8 834,2 Dens 725.3 834.2 834.2 732.8 725.3 732.5 755.7 33836,0 11924,0 21912.0 35014.0 3279.0 3279.0 20877.0 6959.0 7178.0

Neg.



FUEL-FACS -

300 - Supplier Lifting Detail Report

Port Botany

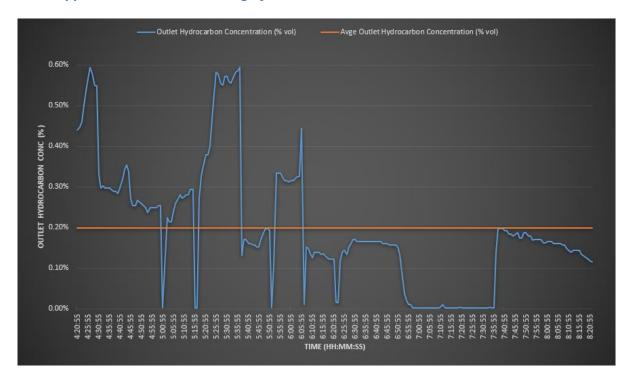
Rev. o 98268 98264 Rev. o 98263 Number Movement Unit of Measure: Liters 5 5 9 STS Supplier: 150003 56789 Code 56789 Customer 150001 -PUMA SUPPLIER Name PARK FUELS PARK FUELS 46 Code 8 Carrier TRAFIGURA PTE LTD OLEUM ENERGY PTY LTD Fuelcorp Park Pty Ltd Report Generated at 06/05/2019 10:07:19 Start Folio Number: 20190412 End Folio Number: 20190412 Supplier From: 150001 Supplier To: 150001 300 - Supplier Lifting Detail Report 6361 ö Driver Code 6151 Page 7 of 20 Aidan Ormiston JOHN MEDHURST Name Tuen Thanh Tran 12/04/2019 08:28:44 12/04/2019 07:36:07 Load Date 12/04/2019 06:12:34 11/04/2019 23:57:01 12/04/2019 23:56:55 112 117 ä Code Supplier Product 112 Order Total 3 ; 65 Order Total ULP 91 ULP 95R MAX ULP 91 ULP 91 DIESEL ΕĦ Name SPULP 98 19014.0 15517.0 37165.0 3497.0 12601.0 9583.0 6629.0 8352.0 Gross Temp 193 20,4 19.9 20,5 19.4 19.4 20.5 19.6 725,3 730.9 Dens 755,7 725.3 769,5 7323 755.7 725,3 834.2 18886.0 2585,0 36987.0 3477.0 15409,0 12552,0 9547.0 6594.0 8294,0 Net



FUEL-FACS -

Port Botany

8.2 Appendix 2 - Chart Recording of Measured VRU Outlet TOC Emissions





8.3 Appendix 3 - Logged VRU Outlet TOC Emissions & Velocity Measurements.

V	VRU Outlet TOC Emissior	VRU Outlet Velocity 🕶
	%	m/s
Average	0.20%	0.99
Maximum	0.59%	6.95
Minimum	0.00%	0.00
Time	VRU Outlet TOC Emissions	VRU Outlet Velocity
	%	m/s
4:20:55 AM	0.44%	0.34
4:21:55 AM	0.45%	0.48
4:22:55 AM	0.46%	2.27
4:23:55 AM	0.50%	2.60
4:24:55 AM	0.54%	2.81
4:25:55 AM	0.57%	2.79
4:26:55 AM	0.59%	0.89
4:27:55 AM	0.58%	0.00
4:28:55 AM	0.55%	0.89
4:29:55 AM	0.55%	1.76
4:30:55 AM	0.33%	1.66
4:31:55 AM	0.30%	4.88
4:32:55 AM	0.30%	2.89
4:33:55 AM	0.30%	1.01
4:34:55 AM	0.30%	0.34
4:35:55 AM	0.30%	0.00
4:36:55 AM	0.29%	0.00
4:37:55 AM	0.29%	0.00
4:38:55 AM	0.29%	0.00
4:39:55 AM	0.28%	0.34
4:40:55 AM	0.30%	1.85
4:41:55 AM	0.32%	2.79
4:42:55 AM	0.34%	3.01
4:43:55 AM	0.35%	2.22
4:44:55 AM	0.34%	1.85
4:45:55 AM	0.27%	0.00
4:46:55 AM	0.25%	6.95
4:47:55 AM	0.25%	5.02
4:48:55 AM	0.27%	2.46
4:49:55 AM	0.26%	1.01
4:50:55 AM 4:51:55 AM	0.26%	0.34
4:51:55 AM 4:52:55 AM	0.25%	0.34 0.00
4:52:55 AM 4:53:55 AM	0.25%	0.68
4:53:55 AM 4:54:55 AM	0.24% 0.25%	1.01
4:55:55 AM	0.25%	0.76
4:56:55 AM	0.25%	0.76
4:57:55 AM	0.25%	0.00
4:58:55 AM	0.25%	0.34
4:59:55 AM	0.25%	0.00



▼	VRU Outlet TOC Emissior	VRU Outlet Velocity 🗾
	%	m/s
Average	0.20%	0.99
Maximum	0.59%	6.95
Minimum	0.00%	0.00
Time	VRU Outlet TOC Emissions	VRU Outlet Velocity
	%	m/s
5:00:55 AM	0.00%	0.00
5:01:55 AM	0.13%	3.12
5:02:55 AM	0.22%	3.01
5:03:55 AM	0.21%	1.31
5:04:55 AM	0.21%	1.59
5:05:55 AM	0.24%	2.39
5:06:55 AM	0.26%	2.39
5:07:55 AM	0.27%	2.48
5:08:55 AM	0.28%	1.82
5:09:55 AM	0.27%	0.34
5:10:55 AM	0.28%	1.07
5:11:55 AM	0.28%	1.39
5:12:55 AM	0.28%	1.35
5:13:55 AM	0.29%	0.59
5:14:55 AM	0.29%	0.59
5:15:55 AM	0.00%	0.00
5:16:55 AM	0.00%	0.00
5:17:55 AM	0.27%	0.59
5:18:55 AM	0.32%	1.91
5:19:55 AM	0.35%	2.19
5:20:55 AM	0.38%	2.19
5:21:55 AM	0.38%	1.22
5:22:55 AM	0.40%	2.08
5:23:55 AM	0.47%	4.14
5:24:55 AM	0.53%	4.77
5:25:55 AM	0.58%	4.60
5:26:55 AM	0.58%	1.62
5:27:55 AM	0.55%	0.00
5:28:55 AM	0.55%	1.31
5:29:55 AM	0.57%	0.59
5:30:55 AM	0.57%	0.59
6:43:55 AM	0.16%	0.59
6:44:55 AM	0.16%	0.59
6:45:55 AM	0.16%	0.48
6:46:55 AM	0.16%	0.48
6:47:55 AM	0.16%	0.48
6:48:55 AM	0.16%	0.48
6:49:55 AM	0.16%	0.48
6:50:55 AM	0.15%	0.48
6:51:55 AM	0.13%	0.48
6:52:55 AM	0.08%	0.48
6:53:55 AM	0.04%	0.48
6:54:55 AM	0.02%	0.48
6:55:55 AM	0.01%	0.59
6:56:55 AM	0.01%	0.59
6:57:55 AM	0.00%	0.59
6:58:55 AM	0.00%	0.59
6:59:55 AM	0.00%	0.48



V	VRU Outlet TOC Emissior	VRU Outlet Velocity 🗐
	%	m/s
Average	0.20%	0.99
Maximum	0.59%	6.95
Minimum	0.00%	0.00
Time	VRU Outlet TOC Emissions	VRU Outlet Velocity
	%	m/s
7:00:55 AM	0.00%	0.48
7:01:55 AM	0.00%	0.59
7:02:55 AM	0.00%	0.59
7:03:55 AM	0.00%	0.59
7:04:55 AM	0.00%	0.59
7:05:55 AM	0.00%	0.59
7:06:55 AM	0.00%	0.59
7:07:55 AM	0.00%	0.59
7:08:55 AM	0.00%	0.59
7:09:55 AM	0.00%	0.59
7:10:55 AM	0.00%	0.59
7:11:55 AM	0.01%	0.59
7:12:55 AM	0.00%	0.59
7:13:55 AM	0.00%	0.59
7:14:55 AM	0.00%	0.59
7:15:55 AM	0.00%	0.59
7:16:55 AM	0.00%	0.59
7:17:55 AM	0.00%	0.59
7:18:55 AM	0.00%	0.59
7:19:55 AM	0.00%	0.59
7:20:55 AM	0.00%	0.59
7:21:55 AM	0.00%	0.59
7:22:55 AM	0.00%	0.59
7:23:55 AM	0.00%	0.59
7:24:55 AM	0.00%	0.59
7:25:55 AM	0.00%	0.59
7:26:55 AM	0.00%	0.68
7:27:55 AM	0.00%	0.68
7:28:55 AM	0.00%	0.59
7:29:55 AM	0.00%	0.68
7:30:55 AM	0.00%	0.68
7:31:55 AM	0.00%	0.68
7:32:55 AM	0.00%	0.68
7:33:55 AM	0.00%	0.68
7:34:55 AM	0.00%	0.68
7:35:55 AM	0.00%	1.18
7:36:55 AM	0.14%	0.90
7:37:55 AM	0.20%	0.68
7:38:55 AM	0.20%	0.68
7:39:55 AM	0.20%	0.68



_	VRU Outlet TOC Emissior	VRU Outlet Velocity 🗐
V	%	m/s
A		
Average	0.20%	0.99
Maximum Minimum	0.59% 0.00%	6.95 0.00
Time	VRU Outlet TOC Emissions	
Time	%	VRU Outlet Velocity m/s
7:40:55 AM	0.19%	0.59
7:40:55 AM	0.19%	0.59
7:41:55 AM	0.18%	0.59
7:42:55 AM	0.18%	0.59
7:44:55 AM	0.18%	0.59
7:45:55 AM	0.18%	0.59
7:46:55 AM	0.19%	0.59
7:47:55 AM	0.17%	0.59
7:48:55 AM	0.17%	0.59
7:49:55 AM	0.19%	0.59
7:50:55 AM	0.19%	0.59
7:51:55 AM	0.18%	0.59
7:52:55 AM	0.18%	0.59
7:53:55 AM	0.17%	0.59
7:54:55 AM	0.17%	0.59
7:55:55 AM	0.17%	0.59
7:56:55 AM	0.17%	0.59
7:57:55 AM	0.17%	0.59
7:58:55 AM	0.16%	0.59
7:59:55 AM	0.16%	0.59
8:00:55 AM	0.17%	0.59
8:01:55 AM	0.17%	0.68
8:02:55 AM	0.17%	0.59
8:03:55 AM	0.16%	0.59
8:04:55 AM	0.16%	0.59
8:05:55 AM	0.16%	0.68
8:06:55 AM	0.16%	0.59
8:07:55 AM	0.16%	0.59
8:08:55 AM	0.16%	0.68
8:09:55 AM	0.15%	0.59
8:10:55 AM	0.14%	0.59
8:11:55 AM	0.14%	0.68
8:12:55 AM	0.14%	0.59
8:13:55 AM	0.14%	0.68
8:14:55 AM	0.14%	0.68
8:15:55 AM	0.14%	0.59
8:16:55 AM	0.13%	0.68
8:17:55 AM	0.13%	0.68
8:18:55 AM	0.13%	0.68
8:19:55 AM	0.12%	0.68
8:20:55 AM	0.12%	0.68
8:21:55 AM	0.12%	0.76

