



Chevron South Africa (Pty) Limited  
Chevron Refinery  
P.O. Box 13, Milnerton, 7435. Cape  
Platteklouf Road, Milnerton, 7441. Cape  
South Africa  
Tel: +27 21 508-3911  
Fax: +27 21 551-1975

Your Ref: 307/4

In reply please refer to:  
MM/ivf2230

23 July 2014

**Per email**

**HEALTH, ENVIRONMENT AND SAFETY**

Mr Ian Gildenhuis  
Head Specialised Environmental Health  
City Health  
(021) 590 5200  
[Ian.Gildenhuis@capetown.gov.za](mailto:Ian.Gildenhuis@capetown.gov.za)

Cc. Lynelle Matthys  
[Lynelle.Matthys@capetown.gov.za](mailto:Lynelle.Matthys@capetown.gov.za)

Dear Sir/Madam

## **REGISTRATION CERTIFICATE 307/4**

Attached is the Cape Town Chevron Refinery 2Q 2014 CAPCO Report.

### **Sulphur Dioxide**

The average sulphur dioxide emission during the second quarter was 12.5 tons per day, which is below the limit of 22 tpd.

The average wt% sulphur in Refinery Burner Fuel was 0.26 wt%, which is below the limit of 2 wt%.

### **Particulate Matter**

The average particulate matter from the No. 1 Fluid Catalytic Cracking Unit (FCCU) was 43 mg/Nm<sup>3</sup> and 63 mg/Nm<sup>3</sup> for No. 2 FCCU respectively, which is below the limit of 100 mg/Nm<sup>3</sup>.

### **Fugitive Emissions**

During the past quarter, the steps taken to ensure fugitive emissions improvements using the Leak Detection and Repair (LDAR) program have been the following:

- Conducted LDAR inspection after start up and ad-hoc scans as requested by operations.
- Continued with bi-annual LDAR survey on the refinery units.

N Mbuyisa (Chairperson), S W E King (Chief Executive Officer - British Citizen)  
Executive Directors: T J Stallbom, D J C Mendoza (US Citizen), L L Jacobs, N B Ngumbela, D C Pottenger (US Citizen)  
Non-Executive Directors: M E Ramano, M I Scott, K Canca

Reg.No. 1911/001154/07  
Vat No. 4460101563

Letter to: Mr Ian Gildenhuys  
Head Specialised Environmental Health  
City Health

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Please contact Adele Borman if you require any further details on this report.

Yours faithfully

**CHEVRON SOUTH AFRICA (PTY) LIMITED**



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**KGELE MATHIBA**

Manager – Health, Environment and Safety

**ATTACHMENT 1:**

**CAPCO REPORT - 2014**

	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Avg	Limit
<b>Sulphur Dioxide Emitted</b>														
SO2 & SO3 as Total SO2														
02F-201 Stack	MT/D 12.3	9.4	8.2	11.9	12.1	13.7							11.2	22 max
2F-1 Combined	MT/D 2.4	1.0	0.4	1.5	1.9	2.0							1.6	
4F-1 Combined	MT/D 1.4	0.6	0.2	1.0	1.1	1.1							0.9	
YIP Stack	MT/D 0.0	0.0	0.0	0.0	0.0	0.0							0.0	
No.1 FCCU Stack	MT/D 0.8	0.8	1.4	2.4	2.1	0.7							1.4	
56F-201 Stack	MT/D 2.8	1.8	0.1	0.6	1.0	1.4							1.3	
Major Combined	MT/D 0.0	0.0	0.0	0.0	0.0	0.0							0.0	
71F-1	MT/D 4.8	4.9	5.9	5.9	5.2	7.8							5.7	
Flare Stack	MT/D 0.09	0.18	0.17	0.47	0.75	0.62							0.0	
<b>Sulphur in Burner Fuel</b>													0.38	
wt% S in Refinery Burner Fuel	wt% 0.11	0.71	0.90	0.23	0.18	0.38							0.42	2 max
<b>Ambient Sulphur Dioxide</b>														
Max. 24hr average GLC (note 1)	µg/m³ 6	10	3	38	45	22							21	265 max
No of National Ambient Standards exceedences (125µg/m³ limit)	0	0	0	0	0	0								
<b>Particulate Emissions from FCCUs</b>														
No. 1 FCCU	mg/m3 74	5	-	79	35	15							42	100 max
No. 2 FCCU	mg/m3 27	28	73	59	86	44							53	100 max
<b>SRUs Online</b>														
% Efficiency														
No.1 SRU	% 100	99	96	98	100	100							99	95 min
No.2 SRU	% 100	99	-	98	97	100							99	95 min
<b>SRUs % Availability</b>														
SRU	% 100	100	100	100	100	100							100	99 min
VOC - (note 2)	MT/D		1Q 13			2Q 13			3Q 13			4Q 13		
			5.2			5.1								

Notes 1 Correction on 2014 1Q report - Feb max 24hr avg GLC SO2 reported incorrectly as 56 ug/m3. This is in fact the maximum hourly average reported during Feb 2014. The maximum daily avg = 10 ug/m3.  
 2 Estimate from A/E/T

**ATTACHMENT 2:**

