

BAAQMD Title V Permit  
6 Month Monitoring Report

From 1/1/2012 to 6/30/2012

<b>A0010 Chevron Richmond Refinery</b>	
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City: Richmond State: CA Zip Code: 94801	City: Richmond State: CA Zip code: 94802-0272
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Inoperable monitors as defined by BAAQMD Regulations 1-522 and 1-523 for the reporting period are summarized below:

Started	Stopped	Source (S#)	Abatement Device (A#)	Emission Point (P#)	Fuel	CEM	GLM	Gas	NOx	SO2	CO	H2S	TRs	NH3	O2	CO2	H2O	LTA	Lead	Steam	Flow	Wind	Dir.	Speed	pH	Temp	VOOC	Drum		
1/1/2012 4:31 AM	1/3/2012 4:00 PM	S4385				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Event Description: FCC V-65 O2 analyzer: failed calibration on 1/02/12 due to a bad relay output card. Last good calibration was on 1/01/12, 0431 hrs. Next good calibration after repairs: 1/03/12 at 1600 hrs.		Discovered On: 1/3/2012																												
1/14/2012 11:00 PM	1/16/2012 10:30 AM	CS# SO2				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Description: Castro St ground level monitor for SO2 inoperative due to failed sample pump.		Discovered On: 1/16/2012																												
2/14/2012 8:33 AM	2/16/2012 11:09 AM	S6013				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Description: North Isomax flare water seal level indicator malfunctioned on 2/14/12 at 0833 hrs. Repairs completed. Back in service on 2/16/12 at 1109 hrs.		Discovered On: 2/16/2012																												
2/16/2012 8:27 AM	2/17/2012 1:23 PM	S4165				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Description: F-600 NOx analyzer malfunctioned on 2/16/12 at 0827 hrs. Repairs completed. Back in service on 2/17/12 at 1323 hrs.		Discovered On: 2/17/2012																												
4/1/2012 5:58 AM	4/3/2012 10:18 AM	S4385				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Description: FCC Stack CEMIS (NOx, O2, SO2, CO) missed calibration on 4/2/2012 due to plugging in the sampling conditioning system. Last successful calibration occurred on 4/1/2012 at 0558 hrs. Next good calibration after repairs occurred on 4/03/12 at 1018 hrs.		Discovered On: 4/3/2012																												
4/6/2012 12:42 PM	4/9/2012 9:10 AM	S4155				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Description: F-135 NOx and O2 analyzers missed calibrations on Saturday, 4/7/2012 and Sunday, 4/8/2012 due to a computer error in the sample system. Last successful calibration occurred on 4/6/2012 at 1242 hrs. Next good calibration after repairs occurred on 4/9/12 at 0910 hrs.		Discovered On: 4/9/2012																												
4/14/2012 6:30 AM	4/16/2012 6:45 AM	S4285				<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event Description: FCC V-65 O2 analyzer: Failed calibration on 4/15/12 due to catalyst plugging of the system. Last successful calibration was on 4/14/12 @ 0630 hours. Next good calibration occurred on 4/16/12 @ 0645 hours.		Discovered On: 4/16/2012																												

Started	Stopped	Source (SF)	Abatement Device (AB)	Emission Point (EP)	Fuel	CEM GLM Gas	Parameter	NOx	SO2	CO	H2S	TRB	NH3	O2	CO2	H2O	Opacity	LTA	Lead	Steam Flow	Wind Dir.	Wind Speed	pH	Temp	VOC	Press.	Gauss
4/23/2012 8:24 AM	4/26/2012 2:30 PM	S4071						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Discovered On:</i> 4/25/2012 Event Description: NOx and O2 analyzers at F-1100B were switched from the old to the new on 4/25 at 0834 hrs in preparation for Performance Specification Testing (certification testing) by the BAAQMD. However, certification testing of the new analyzers was postponed till 4/26. Analyzers were deemed "nonoperative" until they were certified and called back in service by the BAAQMD on 4/26 at 1430 hrs.																											
5/27/2012 11:07 AM	5/29/2012 6:28 AM	S433						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Discovered On:</i> 5/29/2012 Event Description: FCC stack CEMs (NOx, SO2, O2) missed calibration on 5/28/12 due to system failure. Last successful calibration occurred on 5/27/12, 1107 hrs. Next good calibration occurred on 5/29/12, 0628 hrs.																											
5/28/2012 4:00 PM	6/1/2012 12:30 PM	S430						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Discovered On:</i> 6/1/2012 Event Description: The F-1251 NOx, O2 and CO analyzers missed daily auto-calibrations on May 28, 2012 through May 31, 2012.																											
6/30/2012 5:24 AM	7/1/2012 4:45 PM	S4171						<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Discovered On:</i> 6/30/2012 Event Description: The F-355 (360E) NOx CEM malfunctioned on 6/30/12 at 0524 hours. CEM was repaired and was placed back in service on 7/1/12 at 1645 hours.																											

**Certification Statement**

I certify under penalty of law that based on the information and belief formed after reasonable inquiry, the statements and information in this document and in all attachments and other materials are true, accurate, and complete.

Signature of Responsible Official: *Nigel Heurne* Print Name: Nigel Heurne  
 Title: General Manager Richmond Refinery Date: 7/31/12