

## Monthly Report

March, 1998

**TOSCO Refinery at Rodeo**  
Fenceline Monitor System

### FTIR System

#### Operation:

The North FTIR on stream efficiency was 99.8 percent with no weather related down time. Most of the down time was due to short duration lapses (1-2 acquisition periods). Two longer duration lapses totaling 4 acquisition periods each (21 minutes) accounted for the remaining down time.

The South FTIR on stream efficiency was 97.9 percent with no weather related down time. Most of the down time (4.2 hours) was due to maintenance, software failures, and diagnostics. Short duration lapses (1-2 acquisition periods) accounted for the remaining downtime.

#### Data:

The ambient gas QA compound results for the North Sensor show the mean Nitrous Oxide concentration was 0.25 ppm with a 0.012 ppm or 4.8 percent standard deviation, and the mean Methane concentration was 1.51 ppm with a 0.08 ppm or 5.3 percent standard deviation.

The ambient gas QA compound results for the South Sensor show the mean Nitrous Oxide concentration was 0.23 ppm with a 0.021 ppm or 9.01 percent standard deviation, and the mean Methane concentration was 1.51 ppm with a 0.081 ppm or 5.3 percent standard deviation.

Data summary reports are attached.

## **TDLS System**

### **OPERATION:**

All of the TDLS units reported downtime due to a problem with the logging software. For all of the units, with the exception of the south ammonia TDLS, no real downtime was experienced. The downtime for the south ammonia unit in excess of that reported for the other TDLS units was due to hardware failure. A loaner unit was acquired from Boreal. The defective unit was removed from service and sent to Boreal for repairs.

### **DATA:**

The data summary report is attached.

## **UV System**

### **OPERATION:**

Downtime for the UV systems was primarily due to beam blocks resulting from adverse weather conditions. The susceptibility to beam block was decreased by careful alignment of the receiver units and changing of the source lamps in February. Further improvements could be achieved by improving the alignment mechanism.

PUV-00006 went into system fault condition and stopped logging data on March 23. Error files and system log files were sent to Sci-Tec for troubleshooting.

### **DATA:**

Data summary reports are attached.

## **VOC System**

### **OPERATION:**

All of the VOC units are reported with downtime due to a problem with the logging software. For all but the E-3 Outfall unit, no downtime was experienced. Repairs were performed on the E-3 Outfall unit during scheduled maintenance in April.

### **DATA:**

The data summary report is attached.